

2008

USA Power LLC, USA Power Partners, L. L. C., and Spring Canyon Energy, LLC v. Pacificorp : Brief of Appellant

Utah Supreme Court

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IN THE UTAH SUPREME COURT

USA POWER LLC, USA POWER
PARTNERS, L.L.C., and SPRING
CANYON ENERGY, LLC,

Plaintiffs and Appellants,

vs.

PACIFICORP, JODY L. WILLIAMS and
HOLME, ROBERTS & OWEN, LLP,

Defendants and Appellees.

Supreme Court Case No.
20080176-SC

**VOLUME IV, CONTINUED ADDENDUM TO BRIEF OF APPELLANTS USA
POWER, LLC, USA POWER PARTNERS, L.L.C., AND SPRING CANYON
ENERGY, LLC**

APPEAL FROM THE THIRD JUDICIAL DISTRICT COURT, SALT LAKE
COUNTY, STATE OF UTAH, HONORABLE TYRONE E. MEDLEY

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IN THE UTAH SUPREME COURT

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The following materials continue the Addendum of Appellants' Brief. Descriptions of separately-filed papers are in bold, followed by a description of the materials attached to those papers. Portions of the attachments to the described papers that are not central to Appellants' Brief have been omitted.

<u>Description</u>	<u>Record Page</u>
Supplement to Affidavit No 2A of Peggy A. Tomsic in Opposition to PacifiCorp's and Williams/HRO's Motions Re: Summary Judgment	6232-6332
 <u>Deposition Exhibits</u>	
Ex. 20 Letter from R. Thurgood to T. Banasiewicz dated 7/22/03	6283
Ex. 426 Development of Procurement Guidelines for Air-Cooled Condensers	6307-32
 Supplemental Affidavit of Peggy A. Tomsic in Opposition to PacifiCorp's and Williams/HRO's Motions Re: Summary Judgment	 6333-6410
Excerpts from the deposition of Ted Banasiewicz	6369-73
Excerpts from the deposition of Rand Thurgood	6375-84
Excerpt from the deposition of Ray Racine	6400
 Supplemental Affidavit No. 3A of Peggy A. Tomsic in Opposition to PacifiCorp's and Williams/HRO's Motions Re: Summary Judgment	 6411-6423
Jody Williams' handwritten notes	6418-6423
Excerpts from the deposition of Michael Jenkins	6429-6451
Excerpts from the deposition of Rand Thurgood	6453-6460
 Excerpts from Williams/HRO's Reply Memorandum Re: Loyalty Claim	 6467-6492

Excerpts from the deposition of Lois Banasiewicz	6643-6647
Excerpts from PacifiCorp’s Reply Memorandum Re: Summary Judgment	6674-6711
Excerpts from the Rule 30(b)(6) deposition of Rand Thurgood	6740-6748
Excerpts from the deposition of Kenneth Ian Andrews	6756-6763
Excerpts from the deposition of Ted Banasiewicz	6841-6842
Email Correspondence dated June 20-22, 2003	6993-7000
Memorandum in Support of Motion for Leave to File Supplemental Affidavit of Peggy A. Tomsic	7121-7123
Supplemental Affidavit of Peggy A. Tomsic	7126-7337
Handwritten notes	7132-47
12/24/03 E-mail: D. Eskelsen to J. Williams and others	7149-50
Excerpts from the deposition of Lois Banasiewicz	7158-78
Excerpts from the deposition of David Barlow	7206-19
Utah Division of Air Quality Approval Order Re: Spring Canyon	7345-7350
Stipulation/Joint Motion to Dismiss Plaintiffs’ Disgorgement Claim	8095-8098
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Excerpts from the Oral Argument Transcript	8167 et seq.
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Excerpts from PacifiCorp’s Memorandum in Support of Summary Judgment	8555-8597
Excerpts from the deposition of David Barlow	8600-8617

Excerpts from the Rule 30(b)(6) deposition of Rand Thurgood	9125-9159
Excerpts from the deposition of Ted Banasiewicz	9217-9245
Excerpts from the deposition of Lois Banasiewicz	9763-9770
Deposition Exhibit 11 - Spring Canyon Energy's Supplemental Due Diligence Information to Preliminary Offering Memorandum Vol. II	9848-10007
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Deposition Exhibit 10 - Spring Canyon Energy's Preliminary Offering Memorandum Vol. I	10127-291
Graphic Timeline of Events	10353-85
Deposition Exhibit 344 - January 9, 2003 Meeting Minutes	10391-95
Deposition Exhibit 345 - February 5, 2003 Meeting Minutes	10396-403

Tab 1

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IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

USA POWER, LLC, USA POWER)	
PARTNERS, LLC, and SPRING	)	SUPPLEMENT TO AFFIDAVIT NO
CANYON ENERGY, LLC,	)	2A. OF PEGGY A. TOMSIC IN
	)	OPPOSITION TO PACIFICORP'S
	)	AND WILLIAMS/HRO'S MOTIONS
	)	RE; SUMMARY JUDGMENT
Plaintiff,	)	(DEPOSITION EXHIBITS)
)	
vs.	)	Civil No. 050903412
)	
	)	Judge Tyrone E. Medley
)	
PACIFICORP, JODY L. WILLIAMS and)	
HOLME, ROBERTS & OWEN, LLP.,)	
)	
)	
Defendants.)	

STATE OF UTAH)
 :ss.
COUNTY OF SALT LAKE)

Peggy A. Tomsic, being first duly sworn, states as follows:

1. I am the owner of Tomsic Law Firm and a member in good standing of the Utah State Bar. I am one of the lawyers who represents the plaintiffs in this action.

2. Some deposition exhibits that were cited in the oppositions to the various motions for summary judgment were inadvertently omitted from the record I filed in opposition to the defendants' motions for summary judgment. These documents are attached to this Supplemental Affidavit, and are described in paragraphs 3-13.

3. Attached is a true and accurate copy of Deposition Exhibit 5.

4. Attached is a true and accurate copy of Deposition Exhibit 10, P148.

5. Attached is a true and accurate copy of Deposition Exhibit 11, P192-196, P198-203, P218-221.

6. Attached is a true and accurate copy of Deposition Exhibit 20.

7. Attached is a true and accurate copy of Deposition Exhibit 110, pgs. 4, 110-111.

8. Attached is a true and accurate copy of Deposition Exhibit 121.

9. Attached is a true and accurate copy of Deposition Exhibit 157.

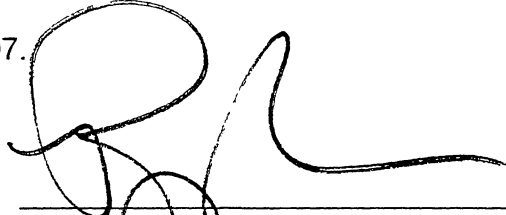
10. Attached is a true and accurate copy of Deposition Exhibit 158.

11. Attached is a true and accurate copy of Deposition Exhibit 356.

12. Attached is a true and accurate copy of Deposition Exhibit 357.

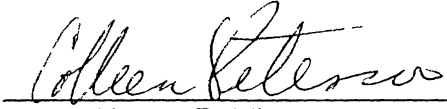
13. Attached is a true and accurate copy of Deposition Exhibit 426.

DATED: July 23, 2007.

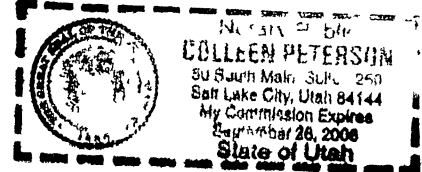


Peggy A. Tomsic

SUBSCRIBED and sworn to before me this 23rd day of July, 2007.



Notary Public
Residing at: *Salt Lake County*



CERTIFICATE OF SERVICE

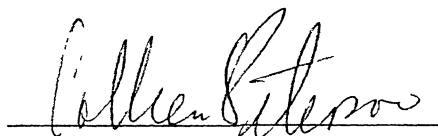
I hereby certify that on the 13 day of July, 2007, a true and correct copy of
SUPPLEMENT TO AFFIDAVIT NO. 2A OF PEGGY A. TOMSIC IN OPPOSITION TO
PACIFICORP'S AND WILLIAMS/HRO'S MOTIONS RE: SUMMARY JUDGMENT
(DEPOSITION EXHIBITS) was hand delivered to the following:

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and mailed, postage prepaid, to:

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Salt Lake City, Utah 84116

A handwritten signature in cursive script, appearing to read "Allen Peterson", is written over a horizontal line.



July 22, 2003

Theodore T. Banasiewicz, Principal
USA Power
PO Box 774000-359
31 585 Runaway Place
Steamboat Spring, CO 80477

Dear Ted:

As you recall when we returned the materials we had received from you folks a couple of months ago, we could not find Volume 2 of the materials that you had sent us. While checking some other files this morning, I found the document, which had been improperly filed and am now returning it to you. I apologize for any inconvenience this may have caused you.

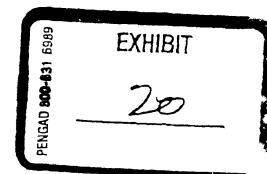
Sincerely yours,

A handwritten signature in cursive script, appearing to read "J. Rand Thurgood".

J. Rand Thurgood
Managing Director, Resource Development

JRT:kl1

Enclosure



6283

**“Development of Procurement Guidelines
for Air-Cooled Condensers”**

by

*Karl R. Wilber, PE
Kent Zammit, Program Manager, EPRI*

**Prepared for
Advanced Cooling Strategies/Technologies Conference**

**June 1-2, 2005
Sacramento, California**

*Sponsored by
Electric Power Research Institute (EPRI)
California Energy Commission (CEC)*

EXHIBIT	426
WIT:	Wilcheletti
DATE:	1/23/07
CitiCourt, LLC	

6207

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“Development of Procurement Guidelines for Air-Cooled Condensers”

By

Karl R. Wilber, PE

Kent Zammit, Program Manager, EPRI

1 Abstract

The use of Air-Cooled Condensers (ACCs) for steam electric power plants has been historically been very limited, especially in the United States. However, with increased focus on water conservation, combined with continued concern over the environmental effects of both once-through and evaporative cooling, the application of ACC's to power plants condenser heat rejection is expected to increase. Indeed, particularly in the Southwestern United States, this has already happened.

As a result of limited operating experience with ACC's and proprietary and evolving dry-cooling technologies, there is no single depository of performance and operations and maintenance experience. Recognizing the increased interest in ACC's and the aforementioned limitations in available data, the Electric Power Research has commissioned Project EPP-P10612/C5386 to develop “procurement guidelines” for ACC's.

This paper presents the results of this work in progress and includes the following areas:

- A. An assessment of operating and performance issues with ACC's,
- B. The development of information that should be included in and solicited via procurement specifications for ACC's,
- C. An example procedures for evaluation and comparisons of bids, and
- D. Guidelines for Performance and Acceptance Testing of ACC's.

Particular emphasis is placed on observations of the effects of winds on the performance of ACC's. Recommendations for language which might be incorporated into procurement specifications, in this regard, are also included. Finally, a summary of a proposed test guideline for ACC's is included as Codes for these tests are under development by both the American Society of Mechanical Engineers and the Cooling Technology Institute, and are not expected to be published in the foreseeable future.

2 Introduction

2.1 EPRI Project Overview

With increased focus on water conservation, combined with continued concern over the environmental effects of both once-through and evaporative cooling, the application of ACC's to power plants condenser heat rejection is expected to increase. Evidence of this trend is apparent in the Southwestern United States, where population growth and development initiatives solicit increased power generation, while competing for limited supplies of water.

As a result of limited operating experience with ACC's and proprietary and evolving dry-cooling technologies, there is no single depository of performance and operations and maintenance experience. Recognizing the increased interest in ACC's and the aforementioned limitations in available data, the Electric Power Research has commissioned Project EPP-P10612/C5386 to develop "procurement guidelines" for ACC's. This paper summarizes some of the key products of that project.

2.2 Site Assessments and Potential Areas of Focus

Numerous specifications, technical papers and books [1,2], have been developed for ACC's both internationally and in the United States. The specifications, for the most part, cover the design conditions, scope of supply, codes and standards, contract terms and conditions, etc. In most cases, these specifications have not addressed areas that might be problematic, in terms of ACC performance, operation and maintenance. In developing information that was felt important to ACC specifications, a number of sites were visited as part of the specification development process. Interviews with both plant personnel and suppliers were conducted, in order to gain a balanced viewpoint on key issues. The following areas surfaced as ones which deserved additional attention, beyond the historical level that they have received:

2.2.1 Wind Effects

Prevailing winds can be significant at many sites, especially given the typical height of air inlets and fans (e.g. 50-100ft (15-30 m)) on an ACC. High winds can cause reduced inlet pressures on upwind fans of an ACC leading to reduced airflow rates and cell thermal performance. Prevailing winds can also lead to recirculation of the heated exhaust air from the ACC, also leading to reduced performance of the ACC. This area, i.e. wind effects (which includes issues such as fan performance impacts, recirculation effects, tube bundle exhaust air flow, and interference), represents a major challenge associated with ACC specification, design and performance.

2.2.2 Range of Operating Conditions

ACC's may be required to operate over ambient temperatures ranging from less than 0°F to over 110 °F. Further, they may also be required to undergo "cold starts" (i.e. initial operation without a heat load) and operate successfully over a full range of heat loads. In doing so, particular attention in the design and operation of the ACC to prevent freezing of condensate as well as proper removal of non-condensables is critical.

2.2.3 Fouling of ACC Coils

Many ACC's operate in areas with high ambient dust loadings. This is particularly true in the desert Southwest portion of the U.S., where a number of ACC's have recently been commissioned. In some situations, beyond ambient dusts, pollen, insects, etc. can foul heat exchange surfaces. Further, leaky gear boxes lead to carryover of gear box grease to the heat exchange surfaces. It may also be the case that nearby fuel piles, including coal, hog fuel (i.e. wood waste) etc. can contribute to the inlet air dust loadings to the ACC and resultant fouling. As a result of site visits, incorporation of potential dust loadings, fin-tube cleaning systems and performance degradation trends warrant additional consideration.

2.2.4 Inlet Air Conditioning

A number of ACC Owner/Operators have experimented with and/or are using methods for inlet air cooling of the ACC. The notion of reducing the inlet air dry-bulb temperature, particularly during periods of elevated temperatures is obviously important when power output requirements are highest. Inlet air cooling typically involves evaporative cooling of the air via either film or spray cooling. In the case of film cooling, additional pressure drop on the inlet air side can be a challenge. In the case of spray cooling, carry over of sprayed droplets can also be problematic. Indeed, spray cooling via atomized sprays, has resulted in degradation of finned tube surfaces at a number of sites. The main reason for this is felt to be improper selection, positioning and/or orientation of atomizing technologies. Accordingly, one should not write off the prospect for inlet air cooling via sprays.

3 ACC Specification Development

3.1 Development of Design Conditions

The *minimum* amount of information required to establish the simplest design point for an ACC is:

- Steam flow, W (lb/hr)
- Turbine exhaust team quality, x (lb dry steam/lb turbine exhaust flow)
- Turbine backpressure, p_b (in Hga)
- Ambient temperature, T_{amb} (deg F)
- Site elevation, (ft---above sea level)

“Steam flow” refers to the total flow passing through the steam turbine exhaust flange and consists of both dry steam and entrained liquid water droplets.

“Steam quality” refers to the fraction of the steam flow which is dry steam and is expressed as a decimal fraction or a percent. All dry steam at saturation conditions has a quality of 100% (x = 1.). An equivalent description sometimes used is “steam moisture” (ξ) defined as the percent of liquid water in the “steam flow”. Therefore,

$$\xi = 1. - x \quad \{1\}$$

These quantities are used, along with the thermodynamic properties of steam and water including the latent heat of vaporization, h_{fg} (Btu/lb), at the design condensing pressure, to determine the heat load, Q (Btu/hr), which must be handled by the ACC. Since the heat load is determined by the total steam flow times the difference between the enthalpy of the inlet steam, h_{steam inlet} (Btu/lb) and the enthalpy of the leaving condensate, h_{cond} (Btu/lb), it can be shown that

$$Q(\text{Btu/hr}) = W(\text{lb/hr}) * x(\text{lb/lb}) * h_{fg}(\text{Btu/lb}) \quad \{2\}$$

The turbine steam flow and quality at the plant design load are obtained from information provided by the turbine vendor.

In addition to these basic quantities, the ACC design (and cost) may be affected by a number of plant and site characteristics which are listed below.

- Site characteristics
 - Meteorology
 - Annual temperature duration curves
 - Prevailing wind speeds and directions
 - Extreme conditions (hottest day; freezing conditions)
- Topography and obstructions
 - Nearby hills, valleys, etc.
 - Nearby structures, coal piles, etc.

- Nearby heat sources---aux. coolers, plant vents, etc.
- Other
 - Noise limitations
 - At ACC
 - At some specified distance---neighbors, sanctuaries, etc.
 - Maximum height restrictions
 - “Footprint” constraints (length, width)
 - Location restrictions---distance from turbine exhaust

3.2 Basic Design Determination

Specification of the quantities and characteristics above are sufficient to obtain a “budget” estimate from ACC vendors. The following example illustrates the considerations in selecting an appropriate design point.

An ACC for installation at a 500 MW (nominal), gas-fired combined-cycle plant located in an arid, desert region might select the following design values:

- Steam flow, W (lb/hr): 1.1×10^6
- Quality, x (lb/lb) 0.95
- Backpressure, p_b (in Hga) 4.0
- Ambient temperature, T_{amb} (F) 80
- Site elevation Sea level ($p_{amb} = 29.92$ in Hga)

The values were selected as follows:

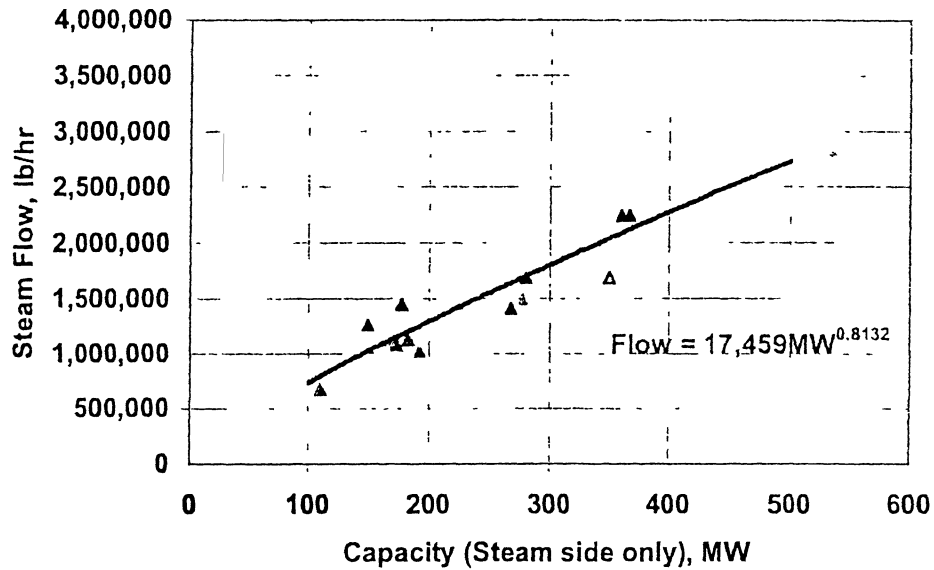
Steam flow:

As derived from Figure 1, the design steam flow for a number of modern plants plotted against steam turbine output can be reasonably correlated by:

$$W(\text{lb/hr}) = 17,459 * (MW_{\text{steam}})^{0.8132} \quad \{3\}$$

Steam Flow Per Unit Output

- ▲ APEX ▲ Athens ▲ Bellingham ▲ Big Horn Blackstone ▲ Chehalis
- Choctaw County ▲ El Dorado ▲ Fore River ▲ Front Range ▲ Goldendale ▲ Hays
- ▲ Hunterstown ▲ Lake Road ▲ Midlothian Moapa Mystic Otay Mesa
- ▲ Poletti Silverhawk ▲ Sutter



3.2 1.1 Figure 1- Correlation of Steam Flow vs. Turbine Output

For a nominal 500 MW, 2 x 1 combined-cycle plant, the steam-side capacity is approximately one-third of the plant total or about 170 MW with a corresponding steam flow of approximately 1.1×10^6 lb/hr.

Steam quality:

Turbine steam exit quality (or enthalpy) must be obtained from the specific turbine design information or be determined from full-scale turbine tests. Typical values range from 0.92 to 0.98. For estimating purposes, a quality of 0.95 (5% moisture) is a reasonable value. Additional insights are provided in the section on performance testing.

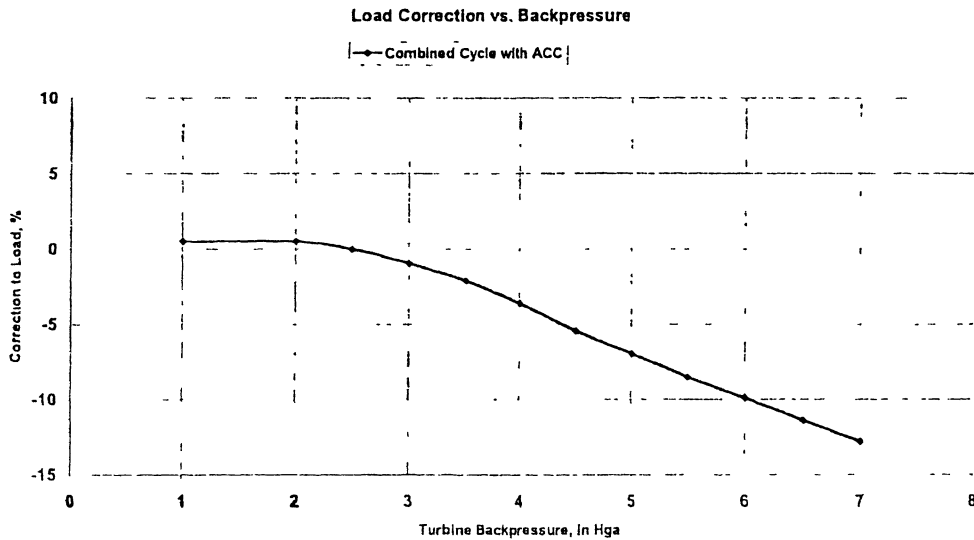
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Turbine backpressure and ambient temperature:

For a given heat load, the combination of turbine backpressure and ambient temperature at the design point essentially determines the size, fan power, cost and off-design performance of the ACC.

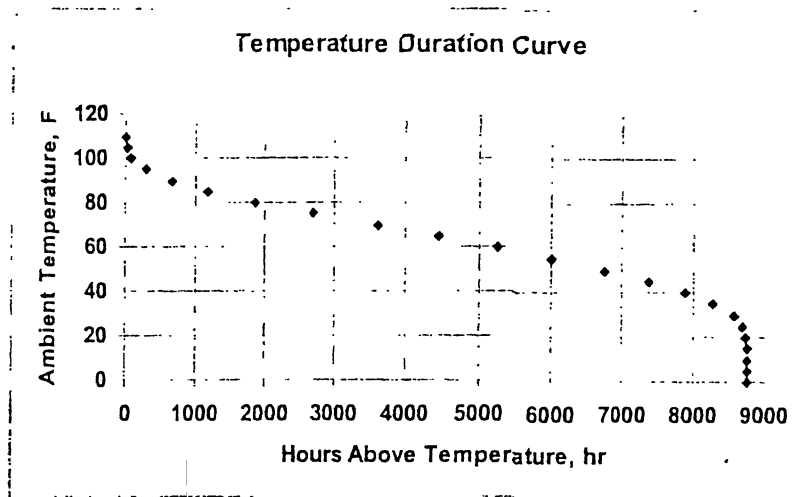
Backpressure—Over the normal operating range, the turbine efficiency improves (heat rate decreases) as the backpressure is lowered Figure 2 displays a typical Load Correction vs. Backpressure curve for a turbine selected for use on a combined-cycle plant with an ACC. Below about 2.0 to 2.5 in Hga, no further reduction in heat rate is achieved and, in some instances, a slight increase occurs. Most turbines are restricted to operating at backpressures below 8. in Hga (typical guidelines are: “alarm” @ 7. in Hga; “trip” @ 8. in Hga).

Ambient temperature---At the desert site chosen for this example, the ambient temperature varies widely during the year. Figure 3 shows a temperature duration curve based on 30-year average data from El Paso, Texas. Other Southwestern sites are comparable.



3 2 1 2 Figure 2 - Steam Turbine Performance vs Backpressure

10315



3.2.1.3 Figure 3 - Example Temperature Duration Curve

Typical ambient temperature points selected for the design ambient temperature might include the annual average temperature, the summer (June through September) average temperature and the 1% ambient dry bulb (the temperature exceeded only 1% of the year). For this site, these temperatures are:

- Annual average: 65 F
- Summer average: 80 F
- 1% Dry bulb: 99 F

Table 1 lists the Initial Temperature Differences (ITD) for a few combinations of ambient temperatures and condensing pressures

3.2.1.4 Table 1- ITD Examples for Varying Ambient Temperatures

Initial Temperature Difference (ITD), F				
Condensing Pressure in Hga	Condensing Temperature F	Ambient Temperature, F		
		65 F	80 F	99 F
2.5	108.5	43.5	28.5	9.5
3.5	121.1	56.1	41.1	22.1
4.0	126.1	61.1	46.1	27.1
6.0	140.8	75.8	60.8	41.8
8.0	151.8	86.8	71.8	52.8

As can be seen from Table 1, the pairing of a high ambient design temperature with a low design condensing pressure results in a low ITD and, correspondingly, a large and expensive ACC, which would be oversized for most of the year. Conversely, a low design ambient temperature paired with a high design condensing pressure yields a high ITD, a small, inexpensive ACC, but one that would perform poorly during much of the year and severely limit plant output during the hotter periods.

3.2.2 Industry Trends

Over the past twenty years the chosen ITD's for ACC's have gradually decreased and are now typically in the mid-40°F's or lower. This suggests that the balance of market forces and operating experience over that time have led to the selection of larger units, (having higher capital cost) in order to reduce the performance penalties throughout the year, and particularly during the hotter prevailing ambient conditions. Units with ITD's as low as 50 F were chosen in the early 1980's and as high as 62 F in the late 1990's. Plants whose business strategy and returns depend on selling high priced power during the hottest peak load periods, may well opt for a large unit with a design ITD well below the typical "mid-40's". Further, specification of lower ITD's may reflect greater sensitivity to wind effects on performance and the fact that this is at least one avenue to compensate for these impacts.

4 General Verification of Performance Requirements

General verification of performance of an ACC can generally be conducted by solicitation and evaluation of some of the following information.

4.1 General Requirements Overview

4.1.1 Initial Temperature Difference (ITD)

The ITD will typically be in the range of 25°F (14°C) to 60°F (33.3°). Note that ITD's approaching the low end of this range will result in equipment sizing that may be uneconomical for a specific plant, notwithstanding the obvious benefits to the turbine efficiency. On the other hand, high ITD's, especially in the event of wind-induced performance deficiencies may well result in derating of the power generation unit or a steam turbine trip.

4.1.2 Steam Quality

Steam quality is the weight fraction of steam or percentage of steam at the turbine exhaust. It is typical to have some moisture in the exhaust steam. Typical values of steam quality are 90-95percent, but may be lower depending upon operating conditions of the system. If steam quality were to exceed 100 percent, it would suggest superheated steam still exists at the turbine exhaust. As air-cooled condensers are designed to condense steam and not cool superheated steam, steam quality values at or above 100 percent are not appropriate.

4.1.3 Steam Turbine Exhaust Pressure

Steam turbine exhaust pressure, commonly referred to as "back pressure", will typically be in the range of 2.5 to 7.5 inch Hga. Pressures above this level will typically exceed steam turbine manufacturers' warranties. Accordingly, this high level may be set as a "trip point" (i.e. automatic shut down) for the unit.

4.1.4 Verification of Supplier Performance Requirements of the Air-Cooled Condenser

This section focuses on the Single Row Condenser (SRC) design as it is the most widely offered in response to current air-cooled condenser bid solicitations.

Number of Cells- The number of cells (also referred to as modules) is clearly an important part of the supplier data. Obviously, the number of cells dictates the amount of mechanical equipment (i.e. fans, motors, gear boxes). Further, many current large-scale SRC designs use components, whose dimensions are optimized for shipping and erection. For instance, use of 33 ft (10 meter) diameter fans and individual tube bundle sections of approximately 36 ft (~11m) and with 8 ft (~2.5m)/bundle and 5 bundles per cell per side for a plan area of 36ft by 40ft per cell per side. As a result, the number of cells often dictates a number of features of the air-cooled condenser, including the mechanical equipment as well as the amount of heat transfer surface.

The total number of cells or modules is the sum of the Primary and Secondary Modules. The Primary Modules are responsible for the majority of the heat transfer and condensing, while the Secondary Cells are responsible for residual heat transfer and condensables collection and evacuation.

Number of Primary Modules – The number of Primary Modules is typically about 80 percent of the total number of modules.

Length of Primary Modules - The length of the primary modules is typically on the order of 33ft-40ft (10-13 m) for a Single Row Condenser type system.

Number Of Secondary Modules – The number of Secondary Modules is typically about 20 percent of the total number of modules and there is typically one module per row (or street).

Length of the Secondary Modules – these modules are typically shorter than the primaries by about 3-5 ft (~1 – 1.5 m).

Primary Module Dimensions – (Width) – Obviously the width of the primary modules must be greater than the fan diameter and typically run on the order of 15-25 percent larger than the fan diameter.

Fan Characteristics – Fan diameters for ACC's used on most recent power plant applications are typically 30-37 ft (10-12m). The number of blades per fan will minimally be 5 but may be as many as 8-10 depending upon the fan supplier and the performance requirements.

Motor Characteristics – Fan motor power must be equal to that required by the fan shaft power divided by the motor and gear box efficiencies. Often a margin of 5-10 percent is provided, in addition to service factor margins.

4.1.5 Additional Vendor-Supplied Data

A bid specification should also solicit the following information.

Overall Heat Transfer coefficient, U , (based on air-side surface area)

- b. Total Air-Side Surface Area, A
- c. Total Mass Flow Rate of Air at Each Design Condition, m'_{air}
- d. Fan Static Pressure (p_{static}) or the total system pressure drop.
- e. Log Mean Temperature Difference (LMTD)
- f. Steam Duct Pressure Drop
- g. Heat Exchanger Bundle Pressure Drop (Steam Side)

4.1.6 Important Items for Verification

Thermal Duty – It is important to verify that the thermal duty solicited (i.e. the amount of heat to be rejected) is matched or exceeded by the supplier's offering.

$$Q_{required} = m'_{steam} \times (h_{steam, (turbine\ exhaust)} - h_{(condensate)})$$

$$Q_{rejected} = U \times A \times LMTD$$

Heat transfer Area – This is calculated knowing the total heat transfer area of the tubes in the ACC's. For a Single Row Condenser (SRC), the ratio of the air-side surface area and the total "face" area is approximately 124.

Outlet Air Temperature – The outlet air temperature is obviously less than the steam temperature and can be calculated from the following equation:

$$Q_{required} = m' \times C_p \text{ air} \times (T_{air, out} - T_{air, in})$$

Face Velocity of the Air - The face velocity of the air, while not typically provided by the supplier, can be calculated from the mass of air flow rate, the air density, and the total face area of the ACC. Typical values will run from about 2 ft/sec (~1m/s) to as much as 8-10 ft/sec (~3 m/s) with the average being about midway between those limits. (Those who have performed velocity measurements at the exit plane of an ACC know that, while the average velocity may be in those limits, variations of a factor of 5 can occur at the outlet).

Fan Static Pressure - Fan Static Pressures will vary depending upon whether the fan is a low-noise or more standard design. Fan Static Pressure, which in essence is the force required to overcome the system resistance (with the required design air flow rate), will run on the order of 0.3 – 0.5 inches of water (~100 Pa +/- 20%) for a standard fan and system design.

Fan Shaft Power or Brake Horsepower - Depending upon the fan static efficiency, one can calculate whether the fan system will deliver the appropriate amount of air.

Power Requirements - Total fan power can be calculated using the aforementioned information and assuming nominal gear box efficiencies of ~97% and motor efficiencies ~92-94%.

5 ACC Performance Test Code Development

Having reviewed some of the key items to solicit in a Specification, as well as those items to check in the bid evaluation stage, the “rubber truly meets the road” with a thermal acceptance test of the equipment.

The American Society of Mechanical Engineers (ASME) and the Cooling Technology Institute (CTI) are currently developing Performance Test Codes for Air Cooled Condensers (ACC). In some respects, development of these Codes may solicit additional caveats for its users.

When test codes are employed for both specification and performance testing of equipment, those who reference them have an inherent confidence that the equipment designed, delivered and successfully tested in accordance with the Code should adequately perform in a plant environment. This is typically the case for components such as turbines, pumps, condensers, and even, for the most part, evaporative cooling towers. Having said that, it is recognized that the performance of evaporative cooling towers can deteriorate under certain wind conditions. Indeed, the impacts of and responsibility for plume recirculation on evaporative cooling towers were key issues for the rewriting of ASME’s PTC 23 Atmospheric Water Cooling Equipment. [3,4]. For the ACC Code Committees at ASME and CTI, it would appear that the challenges are greater yet. The key issues are:

- *ACCs, which perform adequately under the limits of Test Code conditions, may not perform adequately, at all, under normal and prevailing site conditions.*
- *The available knowledge base on wind and performance effects is comparatively limited as the population of and operating experience on larger power plant ACC’s, at least in the United States, is limited,*
- *The purchase of ACC’s, like most other plant equipment, is cost driven and there are typically no incentives for equipment suppliers to build margin into the design and performance of their offerings.*

5.1 Examples of Performance Impacts

Recognized impacts on ACC performance include:

5.1.1 Wind Effects

Prevailing ambient winds can be high (>10-20 mph) at some sites, leading to:

- a. **flow separation** at the fan inlet and poor fan performance,
- b. **recirculation** of the hot exit air into the air inlet of the ACC, and
- c. **mal-distribution** of the air in the plenum and across the heat exchange surfaces. (additional detail can be found in Reference [2].)

5.1.2 Local Interferences

The location of the ACC is necessarily closer to heat sources such as service water cooling systems, turbine exhaust piping, etc. than evaporative cooling towers typically are from the Plant. The entrained air from adjacent sources is very likely to be warmer than design or ambient conditions and therefore the performance of the ACC is negatively impacted.

The net affect of these conditions is that an ACC that appears to meet performance guarantees under the limits of a Test Code, may perform poorly under conditions that prevail at the site. Those who specify, design and own/operate ACCs should be aware of this. Example situations follow:

5.1.3 Example 1 - Waste to Energy Plant

The 3 cell ACC at this site serves a small wood waste power plant. Significant recirculation of the exhaust plume, with localized inlet temperatures exceeding 125F, occurred at this site prior to installation of "wings" down both longitudinal sides of the ACC. Further, a wind screen was installed to reduce wind affects and minimize the entrainment of saw dust in the ACC inlet air. The impact on ACC performance, due to recirculation and flow separation was not anticipated and therefore retrofits of the ACC were made. Inlet air spray cooling is also used at this site.

5.1.3.1 *Figure 4 - "Wing" Extensions to Reduce Recirculation*

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5.1.3.2 *Figure 5 - Wind Wall Adjacent to ACC*

5.1.4 Example 2 - Small Combined-Cycle Plant ACC

As is the case with many sites employing ACCs, this 20Mwe Plant is located in a water short area. The service water cooling system for this site is an adjacent air-cooled heat exchanger, the exhaust from which enters the inlet of the ACC, when the winds are from the northwest. During a site visit to this plant, localized air temperatures from the service water heat exchanger were 90-92F while the prevailing ambient temperatures ranged from 63-67F. The impact of this on the performance of the ACC was not taken into account during the initial system design and inlet air spray cooling is being considered for peak temperature and load conditions.

5.1.5 Example 3 - Combined-Cycle Power Plant

This plant, located in the desert southwest, has prevailing winds that often exceed 15-20 mph. Impacts of plume recirculation and flow separation have been significant, leading, at times, to de-rating of the plant by nearly 10 percent of its capacity. Retrofits on the ACC included wind walls around the ACC finned tubes to reduce recirculation and perpendicular wind screens below the ACC to reduce wind effects on fan and ACC performance. While the equipment may have met its original performance guarantees, the impacts of prevailing winds have resulted in performance shortfalls that were unanticipated in the original specifications and design process.

5.1.6 Example 4 - ESKOM's Matimba Power Station – South Africa

The Matimba Plant consists of six 680MWe coal-fired power plants. The turbine exhaust is condensed via air-cooled condensers, an aerial view of which is shown in the figure below (courtesy of J. Cuchens, Southern Company).

5.1.6.1 Figure 6 - ESKOM's 680Mwe Matimba Power Station

The ACCs at Matimba are positioned adjacent to the turbine hall on the north side of the Plant. Even though efforts have been made to modify the area, the inlet air path between the turbine hall and ACC's is substantially restricted as a result of the Plant buildings. Prevailing winds are from the Northeast.

Goldshagg [5] reported that turbine performance at the Plant was measurably reduced during certain windy periods and that turbine trips had occurred during gusty conditions. This is not to suggest that turbine back pressures often exceed manufacturer's or plant limits, however, the rate of change of back pressure was significant enough, on more than one occasion, to trigger a Unit trip. The plant has now installed a computer screen, which displays instantaneous wind speed and direction and provides operator guidance on conditions which may impact unit operation. Further, the site has initiated a number of evaluations of inlet air cooling via use of localized spray nozzles.

Those who develop specifications as well as Test Code committee members should consider additional guidance, to those that use the code, calling to their attention the fact that *actual operating performance of ACC's may be substantially lower than that determined by a test conducted under the limitations currently contemplated by the Code.*

5.2 Testing Guidelines

This section excerpts (*in italics*) portions of the test procedures that are planned for incorporation into the EPRI ACC Specification.

5.2.1 Scope

1.1 Scope

This document details the measured test parameters, instrumentation, test measurements and data reduction procedure required for determination of the thermal capability of a dry, air-cooled steam condenser (ACC). The procedure focuses on contractual acceptance testing of a new unit, but the same procedure may be used for performance testing of an existing unit.

1.2 Basis

As of this writing there is no American test code for air-cooled condensers. Both the Cooling Technology Institute (CTI) and the ASME are currently working on performance test codes for this major plant component. In the absence of a controlling test code, several resources have been used in the preparation of this guideline. These are:

- *VGB Guideline for Acceptance Test Measurements and Operation Monitoring for Air Cooled Condensers (1997)*
- *Code of Practice for Acceptance and Operating Tests of Air Cooled Steam Condensers (published by the Association of German Electricity Supply Authorities in 1965)*
- *ASME PTC 12.2 Steam Surface Condensers*
- *CTI ATC-105 Acceptance Test Code for Water Cooling Towers (2000)*
- *ASME PCT-23 Atmospheric Water Cooling Equipment (2003)*

1.3 Test Plan

A test plan is a convenient vehicle for specification of responsible test participants required preparations, measurement locations, test instrumentation, acceptable test conditions, anticipated deviations to the governing test code, required adjustments to plant operations, calculation procedures, and expected test uncertainty. As an example, the measurement of steam flow and the estimation of steam quality will require the use of plant instruments, particularly flow elements. It is vital that such instruments be identified prior to the test so that any necessary calibrations can be performed. In addition, measurement of condensing pressure requires the installation of basket tips

which may be different in number and location than those used by the plant for monitoring purposes. The preparation of a test plan, approved by manufacturer and the ACC purchaser prior to the test, is highly recommended."

Again – as excerpted from the EPRI ACC Draft Specification.....

5.2.2 Conditions of Test

“2.1 Test Witnesses

For acceptance testing, representatives of the owner and condenser manufacturer shall be given adequate notice prior to the test. The manufacturer shall be given permission, opportunity and adequate notice to inspect the ACC and prepare the ACC for the test. In no case shall any directly involved party be barred from the test site.

2.2 Conditions of the Equipment

At the time of the test, the ACC shall be in good operating condition. Steam duct and condensate piping systems shall be essentially clear and free of foreign materials that may impede the normal flow of steam and condensate.

Mechanical equipment, including fans, gear, motors, pumps, air ejectors, etc., shall be clean and in good working order. Fans shall be rotating in the correct direction, with proper orientation of the leading and trailing edges. Fan blade pitch shall be set to a uniform angle that will yield within $\pm 10\%$ of the specified fan driver input power load as measured at the motor switchgear.

Air in-leakage must be such that the vacuum equipment has 50% excess holding capacity during the test.

ACC air inlet perimeter area and discharge area shall be essentially clear and free from temporary obstructions that may impede normal airflow.

The air side of the ACC fin tube bundles shall be essentially free of foreign material, such as pollen, dust, oil, scale, paper, animal droppings, etc.

Water level in the condensate hotwell tank shall be at the normal operating level.

Representatives of the ACC purchaser and manufacturer shall agree prior to commencement of testing that the cleanliness and condition of the equipment is within the tolerance specified by the manufacturer. Prior establishment of cleanliness and condition criteria is recommended.

h) All emergency drain lines which have the potential for delivering superheated steam to the condenser shall be isolated. A closed valve shall be considered adequate isolation.

5.2.3 Operating Conditions

The test shall be conducted while operating as close to the operation/guarantee point(s) as possible. In any event, the test shall be conducted within the following limitations:

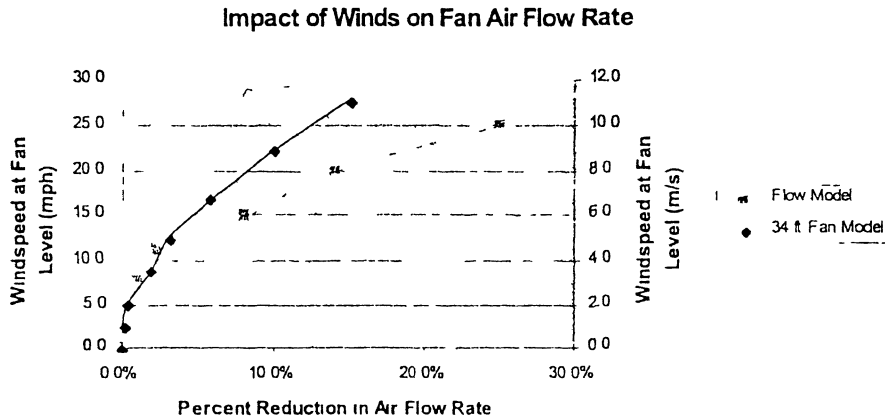
2.3.1 The test dry-bulb temperature shall be the inlet value, measured in accordance with paragraph 3.3 of this test procedure. "

{Note: The following wind limitations are similar to what is being considered by ASME and CTI – however, the performance of the ACC under higher wind conditions will undoubtedly suffer }

2.3.2 The wind velocity shall be measured in accordance with Paragraph 3.7 of this test procedure and shall not exceed the following:

Average wind velocity shall be less than or equal to 5 m/s (11 miles per hour)
 One minute duration velocity shall be less than 7 m/s (15.6 miles per hour).

Owner/Operators should realize that Air-Cooled Condensers whose performance appears satisfactory under low-wind conditions will fall short of expectations under higher wind conditions. (See Figure 7, below).



5.2.3.1 Figure 7 – Potential Impact of Winds on Fan Performance

It is noted here that Kroger [1] suggests the prospect for even greater wind penalties in his example on heat exchanger fan performance.

2.3.3 The following variations from design conditions shall not be exceeded:
Dry-bulb temperature - $\pm 10^{\circ}\text{C}$ from design (18°F) but greater than 5°C (41°F)

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Condensate Mass Flow - $\pm 10\%$ of the design value.

Fan Motor Input Power - $\pm 10\%$ of the design value after air density correction.

(Eq. 4-7)

2.3.4 Steam turbine exhaust steam shall be distributed to all modules as recommended by the manufacturer. For the purposes of this Code, a "module" is defined as the smallest subdivision of the ACC, bounded externally by fin tube bundles and internally by partition walls, which can function as an independent unit. Each module generally has a single fan.

2.3.5 There shall be no rain during the test period nor in the one hour period preceding the test period.

2.3.6 Steady state operation of the ACC shall be achieved at least one hour before and maintained during the test.

5.2.4 Constancy of Test Conditions

For a valid test, variations in test conditions shall be within the following limits.

2.4.1 The variation in test parameter shall be computed as the slope of a least squares fit of the time plot of parameter readings. Condensate mass flow shall not vary by more than 2 percent during the tests.

2.4.2 The inlet dry-bulb temperature shall not vary by more than 3°C (6°F).

5.2.5 Duration of the Test

After reaching steady state conditions, the requirements for the test duration shall be at least one hour. Longer test intervals are acceptable provided the constancy of test conditions is observed.

5.2.6 Frequency of Readings

Readings shall be taken at regular intervals and recorded in the units and to the number of significant digits shown in Table 2.0.

Table 3. Measurement Frequency

<i>Measurement</i>	<i>Minimum Readings per hour per station</i>	<i>Unit</i>	<i>Recorded to Nearest</i>
<i>ACC Condensate Mass Flow¹</i>	60	<i>kg/h (lb/h)</i>	0.1 %
<i>Condensate Hotwell Tank Level</i>	60	<i>m (ft)</i>	0.01 (0.03)
<i>Exhaust Steam Pressure</i>	60	<i>kPa (in.HgA)</i>	0.005 (0.01)
<i>Exhaust Steam Temperature (for comparison)</i>	60	<i>°C (°F)</i>	0.05 (0.1)
<i>Inlet Air Dry-bulb Temperature</i>	60	<i>°C (°F)</i>	0.01 (0.01)
<i>Atmospheric Pressure</i>	1	<i>kPa (in. Hg)</i>	0.2 (0.05)
<i>Ambient Wind Velocity</i>	60	<i>m/s (mph)</i>	0.1 (0.2)
<i>Fan Power at Switchgear</i>	1	<i>kW (hp)</i>	0.5%

The test procedure in the EPRI ACC Specification document contains data acquisition and analyses procedures as well as options in the Appendices for determination of steam quality. One such option follows, where an attendant steam turbine test is being conducted – as would often be the case when conducted an acceptance test on a new plant.

From Appendices of Test Section.....

5.2.7 Procedure for Calculation of Steam Quality at Turbine Exhaust *(again, excerpted from the draft EPRI ACC Specification)*

The procedure that follows assumes that the slope of the enthalpy versus entropy line for the low pressure steam turbine is independent of the exhaust pressure, inlet temperature, pressure and flow. This is equivalent to assuming a constant isentropic efficiency for the low pressure turbine. Studies using cycle models have indicated that the error involved with calculating the steam quality based on this assumption is less than 1 percent.

1. *From the turbine heat balance diagram corresponding to the air cooled condenser design conditions, obtain the inlet temperature and pressure for the low pressure turbine as well as the turbine exhaust enthalpy and pressure.*
2. *Using steam tables or equivalent software look up (or calculate) the specific enthalpy and specific entropy of the low pressure turbine inlet steam.*
3. *Calculate the quality of the turbine exhaust steam by:*

$$X_d = \frac{h_{e,d} - h_{i,d}}{h_{v,d} - h_{i,d}}$$

where

- X_d = the moisture fraction of the turbine exhaust at the heat balance conditions
 $h_{v,d}$ = the specific enthalpy of saturated vapor at the exhaust pressure
 $h_{e,d}$ = the specific enthalpy of the exhaust steam
 $h_{l,d}$ = the specific enthalpy of saturated liquid at the exhaust pressure

This value should correspond to the guarantee condition for the condenser.

4. Calculate the entropy of the turbine exhaust steam by:

$$s_{e,d} = (1 - X_d)s_{v,d} + X_d s_{l,d}$$

where

- s_e = the specific entropy of turbine exhaust steam
 $s_{v,d}$ = the specific entropy of saturated vapor at the turbine exhaust pressure
 $s_{l,d}$ = the specific entropy of saturated liquid at the turbine exhaust pressure

5. Calculate the slope of the "expansion line" by:

$$m_e = \frac{h_{i,d} - h_{e,d}}{s_{i,d} - s_{e,d}}$$

where

- m_e = slope of the expansion line
 $h_{i,d}$ = enthalpy of the low pressure turbine inlet steam
 $s_{i,d}$ = entropy of the low pressure inlet steam

Note 1: The termination point of this expansion line is the Used Energy End Point (UEEP) rather than the expansion line end point (ELEP). The UEEP represents the actual enthalpy of the exhaust steam, while the ELEP is a constructed quantity to allow the calculation of the enthalpy of extraction steam to the low pressure condensate heaters (if any) for which the extraction steam may be saturated.

Note 2: If a turbine test on the unit has been performed, the slope of the expansion line may be calculated by substituting actual values from the turbine test for the design values in steps 1 through 5.

6. From the temperature and pressure of the turbine inlet steam at test conditions, determine the enthalpy, h_i and entropy, s_i , of the exhaust steam at test conditions.
7. Calculate the quality of the steam at the test condition by:

$$X_T = \frac{(h_i - h_l) + m_e(s_i - s_l)}{(h_v - h_l) + m_e(s_v - s_l)}$$

where

- X_T = the steam quality at the turbine exhaust at test conditions,
 $h_{i,t}$ = the specific enthalpy of the inlet steam for the low pressure turbine
 s_i = the specific entropy of the inlet steam for the low pressure turbine
 h_l = the specific enthalpy of liquid water at the turbine exhaust pressure
 h_v = the specific enthalpy of vapor at the turbine exhaust pressure
 s_e = the specific entropy of liquid water at the turbine exhaust pressure

6 Conclusions

The application and popularity of Air-Cooled Condensers (ACC) is increasing in the United States. There are important factors which affect the design, performance, testing and operation of an ACC. Clearly, development of appropriate design information, sensitivity to the impacts of prevailing winds, and guidelines for performance and acceptance testing are key areas of focus.

With this in mind, the Electric Power Research Institute, as part of Project EPP-P10612/C5386, has commissioned the development of a more targeted ACC specification. This paper extracts and presents some key elements of that work in progress.

7 References

- [1] Larinoff, M.W., Moles, W.E. and Reichhelm, R., "Design and Specification of Air-Cooled Steam Condensers, *Chemical Engineering*, May 22, 1978.
- [2] Kröger, Detlev G., "Air Cooled Heat Exchangers and Cooling Towers", Penwell Corporation, Tulsa, OK, 2004.
- [3] Wilber, K. R. and Burns, Jack. "Examination of the Evolution and Substantiation of ASME's Proposed Test Code on Atmospheric Water-Cooling Equipment", American Society of Mechanical Engineers, Winter Annual Meeting, 1979.
- [4] Wilber, K. R. and Maulbetsch, J.S., "Field Examination of Cooling Tower Testing Methodology", Cooling Tower Institute Annual Meeting, January 31-February 2, 1977.
- [5] Goldschagg, H.B., "Lessons Learned form the World's Largest Forced Draft Direct Air Cooled Condenser, presented at the EPRI International Symposium on Improved Technology for Fossil Power Plants – New and Retrofit Applications, Washington, March 1993.

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IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

USA POWER, LLC, USA POWER PARTNERS, LLC, and SPRING CANYON ENERGY, LLC,)	SUPPLEMENTAL AFFIDAVIT OF PEGGY A. TOMSIC IN OPPOSITION TO PACIFICORP'S AND WILLIAMS/HRO'S MOTIONS RE: SUMMARY JUDGMENT
Plaintiff,)	
vs.	)	Civil No. 050903412
	)	Judge Tyrone E. Medley
PACIFICORP, JODY L. WILLIAMS and HOLME, ROBERTS & OWEN, LLP.,)	
Defendants.)	

STATE OF UTAH)
 :ss.
COUNTY OF SALT LAKE)

Peggy A. Tomsic, being first duly sworn, states as follows:

1. I am the owner of Tomsic Law Firm and a member in good standing of the Utah State Bar. I am one of the lawyers who represents the plaintiffs in this action.

2. Some excerpts of deposition testimony and other supplemental documentation that were cited in the oppositions to the various motions for summary judgment were inadvertently omitted from the record I filed in opposition to the defendants' motions for summary judgment. These documents are attached to this Supplemental Affidavit, and are described in paragraphs 3-13.

3. Attached as Exhibit 1 is a true and accurate copy of excerpts from the Second Amended Complaint filed on October 21, 2005 in USA Power, LLC, et al. v. PacifiCorp, et al., Civil No. 050903412.

4. Attached as Exhibit 2 is a true and accurate copy of excerpts from PacifiCorp's 2004 Form 10-K.

5. Attached as Exhibit 3 is a true and accurate copy of excerpts from Defendants Holme Roberts & Owen, LLP and Jody L. Williams' Answers and Objections to Plaintiffs' First Set of Interrogatories.

6. Attached as Exhibit 4 is a true and accurate copy of excerpts from the deposition of Michael Jenkins.

7. Attached as Exhibit 5 is a true and accurate copy of excerpts from the deposition of Lois Banasiewicz.

8. Attached as Exhibit 6 is a true and accurate copy of excerpts from the deposition of Ted Banasiewicz.

9. Attached as Exhibit 7 is a true and accurate copy of excerpts from the deposition of Rand Thurgood.


10. Attached as Exhibit 8 is a true and accurate copy of excerpts from the 30(b)(6) deposition of Rand Thurgood.

11. Attached as Exhibit 9 is a true and accurate copy of excerpts from the deposition of Ray Racine.

12. Attached as Exhibit 10 is a true and accurate copy of excerpts from the deposition of Blaine Rawson.


13. Attached as Exhibit 11 is a true and accurate copy of excerpts from the deposition of Jody Williams.

DATED: July 23, 2007.

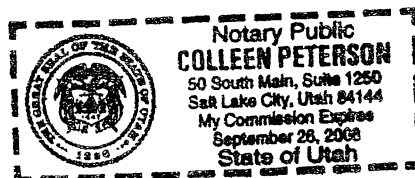


Peggy A. Tomsic

SUBSCRIBED and sworn to before me this 23 day of July, 2007.



Notary Public
Residing at: Salt Lake County



CERTIFICATE OF SERVICE

I hereby certify that on the 23 day of July, 2007, a true and correct copy of
SUPPLEMENTAL AFFIDAVIT OF PEGGY A. TOMSIC IN OPPOSITION TO
PACIFICORP'S AND WILLIAMS/HRO'S MOTIONS RE: SUMMARY JUDGMENT was
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1407 West North Temple, Suite 310
Salt Lake City, Utah 84116



00585

1 Q. Where did the water come from that
2 PacifiCorp acquired for its project?

3 A. It's coming from wells approximately three
4 miles from our project site.

5 Q. What is the original source of the water
6 that PacifiCorp acquired and then had the change
7 application to move it to its wells?

8 A. I don't know. Outside, it's from outside
9 the area.

10 Q. It's from outside the area, correct?

11 A. It is. Outside the Mona, Utah drainage
12 area, which is of great concern to us.

13 Q. And PacifiCorp didn't purchase any
14 water from any of the water suppliers that either
15 Mr. Hansen or Ms. Williams identified in any work for
16 you, did it?

17 A. I don't know.

18 Q. Are you a licensed professional engineer?

19 A. I am not.

20 Q. Have you ever been a licensed professional
21 engineer?

22 A. I have not.

23 Q. And you are not a hydrologist, are you,
24 sir?

25 A. I am not.

00586

1 Q. And you are not a water engineer, are you?

2 A. I am not.

3 Q. You don't hold yourself out as an expert

4 *in those areas, do you?*

5 A. I do not.

6 Q. And that's why you hired Hansen, Allen &

7 Luce to do work for you?

8 A. As well as Ms. Williams.

9 Q. Do you know whether Hansen, Allen & Luce

10 performed any analysis or studies to determine

11 whether the water that PacifiCorp was acquiring would

12 interfere with any of the water rights owners in Juab

13 County?

14 A. I do not.

15 Q. Do you know whether the State Engineer is

16 required to look at that information before it grants

17 an application to change the use and location of the

18 water?

19 A. I am aware that the State Engineer is to

20 look at that information.

21 Q. And the State Engineer is someone who is

22 qualified to do that, is he not?

23 A. You would assume so, yes.

24 Q. And you testified earlier that you were

25 invited to participate in the protests that were made

00587

1 against PacifiCorp's change application?

2 A. I was.

3 Q. And you chose not to do so, didn't you?

4 A. We did.

5 Q. And there were numerous protests to

6 PacifiCorp's change application?

7 A. There were.

8 Q. And those were all rejected by the State

9 Engineer?

10 A. They were, in fact, all rejected by the

11 State Engineer.

12 Q. As you sit here today, you don't have any

13 evidence that the water that PacifiCorp is using for

14 its plant in any way interferes or impacts your water

15 rights?

16 A. That is not true.

17 Q. You have not performed any studies to

18 determine the impact on your water rights of

19 PacifiCorp's wells, have you?

20 A. The impact that we've been talking about

21 is more than just whether or not water will come out

22 of our wells. It's about the business of USA Power

23 and the viability of our project and the theft of our

24 confidential information.

25 Q. All right.

00588

1 A. It's about Ms. Williams choosing to
2 represent a competitor to help them obtain a very
3 critical aspect of their development efforts.

4 MR. CALL: *Move to strike the narrative*
5 nonresponsive answer.

6 MR. BADGER: I join in that objection.

7 Q. (BY MR. CALL) My question to you, sir,
8 was that you don't have any evidence that
9 PacifiCorp's wells in any way impact the quality or
10 the quantity of your water rights?

11 A. I believe we do. We just differ in that.

12 Q. Tell me right now any way that your water
13 rights are impacted or diminished because of
14 PacifiCorp's wells in Juab County.

15 MR. PETERSEN: I'm going to object to the
16 extent this has been asked and answered previously,
17 but you can go ahead and answer.

18 THE WITNESS: It has been asked and it has
19 been answered and I stand on my testimony.

20 Q. (BY MR. CALL) There are no other ways
21 other than what you've already described on the
22 record, sir?

23 A. There may be.

24 Q. But you don't know of any as you sit here
25 today, do you?

00589

1 A. That's correct.

2 Q. Now, let me ask you to please look at
3 Exhibit 118, if you would. That's a document that
4 was provided to you by your counsel yesterday.

5 A. Do I have that here? These are today's.

6 Q. Before we get to that, Mr. Banasiewicz, is
7 there any problem or defect with the title to the
8 water rights you acquired?

9 A. None that I'm aware of.

10 Q. And does Spring Canyon still have those
11 water rights that it acquired from Keyte and Garrett?

12 A. They do.

13 Q. So Spring Canyon still has the opportunity
14 to use or sell those water rights, doesn't it?

15 A. It does.

16 Q. And does Spring Canyon still have the
17 option to the Keyte land?

18 A. It does.

19 Q. And so Spring Canyon still has the ability
20 to utilize or sell that asset, doesn't it?

21 A. It does.

22 Q. And does Spring Canyon still have the air
23 permit that it obtained from the Utah Division of Air
24 Quality?

25 A. It does.

00008

1 about his education and then tell you about his

2 professional degree?

3 Q. (BY MR. PETERSEN) Why don't you tell me

4 where you went to college and what your degree was in

5 and we'll go from there.

6 A. I went to undergraduate school at Brigham

7 Young University and received a Bachelor's of

8 Engineering degree in chemical engineering.

9 Q. Did you go on to graduate school?

10 A. I then worked for two years and then went

11 back to Brigham Young University where I received a

12 Ph.D. in chemical engineering.

13 Q. And when did you receive your Ph.D.?

14 A. 1979.

15 Q. And did you have any specialty within that

16 Ph.D., for example, did you write a dissertation on

17 any subject?

18 A. I have a dissertation that deals with coal

19 combustion.

20 Q. And is that coal combustion in automobile

21 engines or what type of --

22 A. No, in boilers.

23 Q. And you said you received your Ph.D. in

24 1979, correct?

25 A. Correct.

00103

1 Q. What did you do with that information?

2 You can tell me as little or --

3 A. We evaluated it.

4 Q. Were you impressed by it?

5 A. Yes.

6 Q. What type of plant was Apex 1?

7 A. It's a combined-cycle air-cooled plant.

8 Q. And how many megawatts?

9 A. I don't know exactly, but roughly 500.

10 Q. When was it built?

11 A. It was completed, I believe, in 2003.

12 What did I say when we received the material?

13 Q. I believe June of 2002, according to my

14 notes.

15 A. That's correct. So I think it was

16 completed in the following year.

17 Q. Apart from Apex 1, what other assets did

18 you look at?

19 A. We looked at assets that were potentially

20 going to be built near Mesquite, Nevada, and I don't

21 recall the name of the project.

22 Q. So that was just on paper?

23 A. That was on paper. We talked with Arizona

24 Public Service about their assets. We talked with --

25 I talked personally with a number of different

00104

1 companies, with Duke, with --

2 Q. Duke Power?

3 A. Yes. Pretty much every major merchant
4 facility at that time. I was on the phone constantly
5 with these folks.

6 Q. Now, to rephrase an earlier question, was
7 there a time when you were making all these phone
8 calls or doing all of this investigation, was it
9 concentrated on a particular time or was it the
10 entire time that you were in charge of developing
11 options?

12 A. It was the entire time, it was my job.

13 Q. Now, I notice that Apex 1 and some of
14 these others were not mentioned in the IRP, at least
15 that I could see.

16 A. That's correct.

17 Q. Why were they not mentioned?

18 A. We decided that we didn't have
19 transmission sufficient to get that energy up to the
20 Wasatch Valley -- or the Wasatch Front.

21 Q. When did you make that decision?

22 A. I don't know that there was a distinct
23 point in time. It still was considered along the
24 whole process of these years that you're talking
25 about.

00151

1 that were set out for anyone that wanted to bid on
2 that contract; is that correct?

3 A. Yes.

4 Q. So my question is, did the cost-based
5 alternative have those same requirements?

6 A. Well, I'm not sure that I could go
7 specifically and answer. If you wanted to ask
8 specific questions about each one, maybe I could
9 answer them.

10 MR. BADGER: Let me object that it lacks
11 foundation, it's vague and ambiguous.

12 Q. (BY MR. PETERSEN) Do you understand my
13 question?

14 A. Yes. But I don't understand -- I'm not
15 going to give a specific answer that encompasses the
16 whole of it because I'm not understanding all that's
17 there. If you want to lead me through I'll be happy
18 to answer the question.

19 Q. All right. Let me start with a really
20 basic question. The due date for a response on this
21 RFP, Exhibit 5, was July 22, 2003?

22 A. Correct.

23 Q. Was it your understanding that the
24 cost-based alternative had to be submitted by July
25 22, 2003?

00152

1 A. Yes, it did. It was submitted on July the
2 17th.

3 Q. All right. And once again, going back to
4 page 3, I'm looking at the different resource
5 requirements and, for example, one, it speaks to a
6 200-megawatt peaker project; do you see that?

7 A. Yes.

8 Q. And then on the next page it talks about
9 the supply block size. Do you see that?

10 A. I do.

11 Q. And it speaks to the delivery start date
12 which is April 2005; do you see that?

13 A. I do.

14 Q. And then it speaks to the comment that
15 PacifiCorp's option to call upon generation daily?

16 A. Yes.

17 Q. Now my question is, did the cost-based
18 alternative have to conform with those requirements?

19 A. Yes.

20 Q. Next, turning to page 5, and it speaks to
21 a Schedule of RFP Actions laid out there. Do you see
22 that?

23 A. I do.

24 Q. And once again, was that a timetable that
25 the cost-based alternative had to conform to?

00279

1 project?

2 A. No. They indicated they would like to
3 have a meeting with us and were interested to know
4 whether we would sign a confidentiality agreement.

5 Q. This is on the first conversation?

6 A. Yes, sir.

7 Q. How did you respond to that?

8 A. We would be interested to talk to them and
9 would be willing to sign an agreement that met with
10 our needs and policies.

11 Q. Do you all have a policy on
12 confidentiality agreement?

13 A. Not a specific policy that I'm aware of,
14 but we do have to review those through our Legal
15 Department.

16 Q. After this first conversation with what
17 I'm going to call USA Power, since you didn't specify
18 the particular person, did you have any internal
19 conversations within PacifiCorp?

20 A. Yes.

21 Q. Who did you speak with?

22 A. I spoke with my group about them to
23 inquire as to whether they had ever heard of them
24 before.

25 Q. Did you speak to the whole group at one

00280

1 time or did you speak to them individually?

2 A. I don't remember.

3 Q. Had anyone heard of them before?

4 A. No, sir.

5 Q. Did you do any further research or

6 follow-up in terms of their group?

7 A. We did.

8 Q. What did you do?

9 A. It had been indicated in the initial

10 conversation that they had an air permit. So I asked

11 Ian Andrews to look into that. He went to the

12 Division of Air Quality and secured a copy of the air

13 permit.

14 Q. At that time did they have an air permit?

15 A. They had an application, an NOI on file,

16 as I recall.

17 Q. When you spoke to that person in that

18 first phone call, do you remember what name they used

19 for their entity, or did they use a name?

20 A. I don't remember which of the three names

21 they used.

22 Q. After that initial phone conversation,

23 what happened next? And when I say "what happened

24 next," I don't want to be overly vague, but did you

25 have a follow-up conversation or a follow-up meeting?

00285

1 A. We did.

2 Q. And what was the tenor of that discussion?

3 A. That they would come back with a
4 confidentiality agreement and we would then pursue
5 further discussion.

6 Q. Did there come a time when they sent you a
7 confidentiality agreement?

8 A. I don't remember it being sent. I
9 remember ultimately getting it, and I believe it was
10 in a meeting.

11 Q. Let me get to that in a second. After the
12 meeting, which I'm going to call the August 22nd
13 meeting just for purposes of putting a date on it,
14 after that meeting what was your next communication
15 with USA Power?

16 A. I believe it was in September when they
17 came and met with us.

18 Q. Between the September and the August
19 meeting were there any phone conversations?

20 A. I don't recall.

21 Q. Did your group do any further research on
22 their project?

23 A. Other than to get the air -- the NOI
24 filing, no.

25 Q. The NOI filing?

00286

1 A. The air permit filing.

2 Q. Why did you get the NOI filing?

3 A. We wanted to know what was in the permit.

4 Q. Why did you want to know that?

5 A. To see just how valid the project was.

6 Q. At that time, which is to say September of

7 2002, did you evaluate the validity of the project?

8 A. We began that process. And by "process,"

9 I mean we began to look at the NOI filing, we took

10 into consideration what they had said in the

11 meetings. And if you term that evaluation, then

12 that's as far as we went.

13 Q. Did you actually reach a conclusion at

14 that point?

15 A. No. We didn't have sufficient

16 information.

17 Q. Did you have a specific staff member that

18 was tasked with evaluating the validity of what I'll

19 call Spring Canyon?

20 A. No, sir.

21 Q. Was it your entire group that

22 participated?

23 A. It was members of my group.

24 Q. Do you recall when the next meeting

25 occurred?

00295

1 Q. Do you remember what details were shared
2 with you on September 11?

3 A. No, I do not.

4 Q. How long did the meeting last?

5 A. I don't recall.

6 Q. Do you remember who was there on behalf of
7 PacifiCorp?

8 A. I do not. Myself, I know I was there,
9 obviously. I don't recall exactly who else was
10 there.

11 Q. Did you all talk about a potential
12 transaction between PacifiCorp and USA Power?

13 A. We did.

14 Q. And did you talk about one type of
15 transaction or different types of transactions?

16 A. I believe we talked about several
17 different possibilities.

18 Q. And do you remember which possibilities
19 you discussed?

20 A. From a power purchase agreement to an
21 equity position.

22 Q. Did you talk about any other possibilities
23 besides those two?

24 A. Not that I remember.

25 Q. In regard to the power purchase agreement,

Tab 2

229

1 **A.** The second letter, okay, is the
 2 **subject of this, is the performance analysis and**
 3 **alternative equipment configurations, so we were**
 4 **looking at the alternative of perhaps entering into**
 5 **a staged construction instead of building a**
 6 **two-on-one plant all at once, to install one gas**
 7 **turbine and one steam turbine initially, and then a**
 8 **second one-on-one train would go in next to it at a**
 9 **future date.**

10 **And as I recall, this had something**
 11 **to do with power purchase agreement for about half**
 12 **of the plant output versus selling the entire plant**
 13 **output of 500 megawatts in one deal.**

14 **Q.** The -- and I know Mr. Badger earlier
 15 asked you some questions about cost details, so I'm
 16 not going to run through all that again, but on
 17 balance, Exhibit 348, did that represent work
 18 product that you had put into this project?

19 **A.** **It's a summary of information that**
 20 **we had developed up to that point in time, yes.**

21 **Q.** And as of this point, which is to
 22 say July 1, 2002, how long had your team been
 23 working on this project?

231

1 **Q.** Okay.
 2 Could you identify 349, please?
 3 (Discussion off the record.)

4 BY MR. PETERSEN:

5 **Q.** Mr Racine, you're looking what --
 6 at what has previously been designated Exhibit 322.
 7 Do you see that?

8 **A.** **Yes.**

9 **Q.** And I think you testified a moment
 10 ago about a letter you prepared?

11 **A.** **Right.**

12 **Q.** Do you recollect that testimony?

13 **A.** **Right.**

14 **Q.** Now that you're looking at 322, does
 15 that --

16 **A.** **Right.**

17 **Q.** -- help you focus --

18 **A.** **Right. Yes, it does. I thought**
 19 **this was part of the other one.**

20 **Q.** And I know you've testified earlier
 21 this morning and it's late in the day, but very
 22 briefly can you describe the context in which you
 23 prepared Exhibit 322?

230

1 **A.** **Well, since at least April of '01,**
 2 **spring of '01.**

3 **Q.** The information that is contained in
 4 Exhibit 348 that you put together, was this
 5 information that your team considered confidential
 6 work product?

7 **A.** **Yes, it was held confidential for**
 8 **the client. It's client's information, and as such**
 9 **is confidential.**

10 **Q.** And was it information that you had
 11 developed over the preceding year?

12 **A.** **Yes.**

13 **Q.** Let me turn to --

14 **A.** **Could I just add, it's confidential**
 15 **to the extent that the client wishes to keep it**
 16 **confidential. It's his option, of course, to, you**
 17 **know, discuss it with anyone he sees fit to.**

18 **Q.** Sure
 19 But did you consider it within your
 20 shop confidential?

21 **A.** **Yes, we would have no reason to**
 22 **discuss this information outside of the work we were**
 23 **doing with Ted and Dave.**

232

1 MR. BADGER. Objection. Asked and
 2 answered

3 MR. PETERSEN. You can answer again,
 4 sir.

5 THE WITNESS. The question was put
 6 to me by Dave Graeber about the relative performance
 7 of the plant, wet versus dry cooling, and the issue
 8 was that apparently PacifiCorp did not agree that
 9 the plant performance that we were predicting was
 10 attainable by using a dry-cooling tower, and I
 11 believe there was a fellow by the name of Grant
 12 Thurgood who was mentioned, and we were in the
 13 process of setting up for a conference call with him
 14 following the preparation of this document and
 15 forwarding to Dave, but to my recollection, that
 16 conference call never -- never occurred

17 However, I do seem to recall that
 18 the subject was discussed further with Quixx, with
 19 Randy Allison at Quixx, who was investigating the
 20 same issue, and that is evaluating whether or not
 21 technically an air-cooled plant would be able to
 22 achieve the kind of performance that we're
 23 predicting

14400

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FILED
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 DEPUTY CLERK

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 Attorneys for Plaintiff USA POWER, LLC;
 USA POWER PARTNERS, LLC;
 SPRING CANYON, LLC

IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

)	
	)	SUPPLEMENT TO AFFIDAVIT NO.
USA POWER, LLC, USA POWER	)	3A OF PEGGY A. TOMSIC IN
PARTNERS, LLC, and SPRING	)	OPPOSITION TO PACIFICORP'S
CANYON ENERGY, LLC,	)	AND WILLIAMS/HRO'S MOTIONS
	)	RE: SUMMARY JUDGMENT
Plaintiff,	)	(BATES STAMPED DOCUMENTS)
)	
	)	Civil No. 050903412
vs.)	
	)	Judge Tyrone E. Medley
)	
PACIFICORP, JODY L. WILLIAMS and)	
HOLME, ROBERTS & OWEN, LLP.,)	
)	
Defendants)	
)	

STATE OF UTAH)
 :ss.
COUNTY OF SALT LAKE)

Peggy A. Tomsic, being first duly sworn, states as follows:

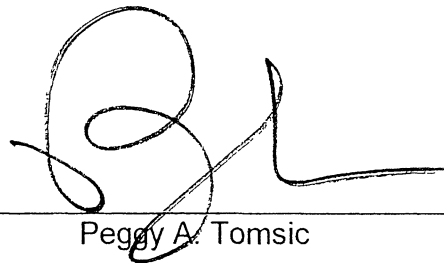
1. I am the owner of Tomsic Law Firm and a member in good standing of the Utah State Bar. I am one of the lawyers who represents the plaintiffs in this action.

2. Some bates stamped documents that were cited in the oppositions to the various motions for summary judgment were inadvertently omitted from the record I filed in opposition to the defendants' motions for summary judgment. These documents are attached to this Supplemental Affidavit, and are described in paragraphs 3-4.

3. Attached as Exhibit 9 is a document Bates numbered HRO-00063-64.

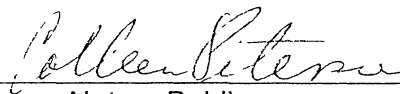
4. Attached as Exhibit 10 is a document Bates numbered HRO-PC 001425-1430.

DATED: July 23, 2007.



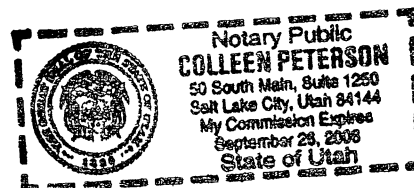
Peggy A. Tomsic

SUBSCRIBED and sworn to before me this 23 day of July, 2007.



Notary Public

Residing at: Salt Lake County



CERTIFICATE OF SERVICE

I hereby certify that on the 23 day of June, 2007, a true and correct copy of SUPPLEMENTAL AFFIDAVIT NO. 3 OF PEGGY A. TOMSIC IN OPPOSITION TO PACIFICORP'S AND WILLIAMS/HRO'S MOTIONS RE: SUMMARY JUDGMENT (BATES STAMPED DOCUMENTS) was hand delivered to the following:

Thomas R. Karrenberg, Esq.
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and mailed, postage prepaid, to:

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POWER TRANSMISSION
EASEMENT

GAS PIPELINE
EASEMENT

NORTH

MONA
RESERVOIR

SITE

SPRING CANYON
ENERGY LLC

MONA SUBSTATION

MONA

NORTH

← SITE

SPRING CANYON ENERGY LLC

.75 MILES

POWER TRANSMISSION EASEMENTS

MONA SUBSTATION

HRO-00001
1/24/10

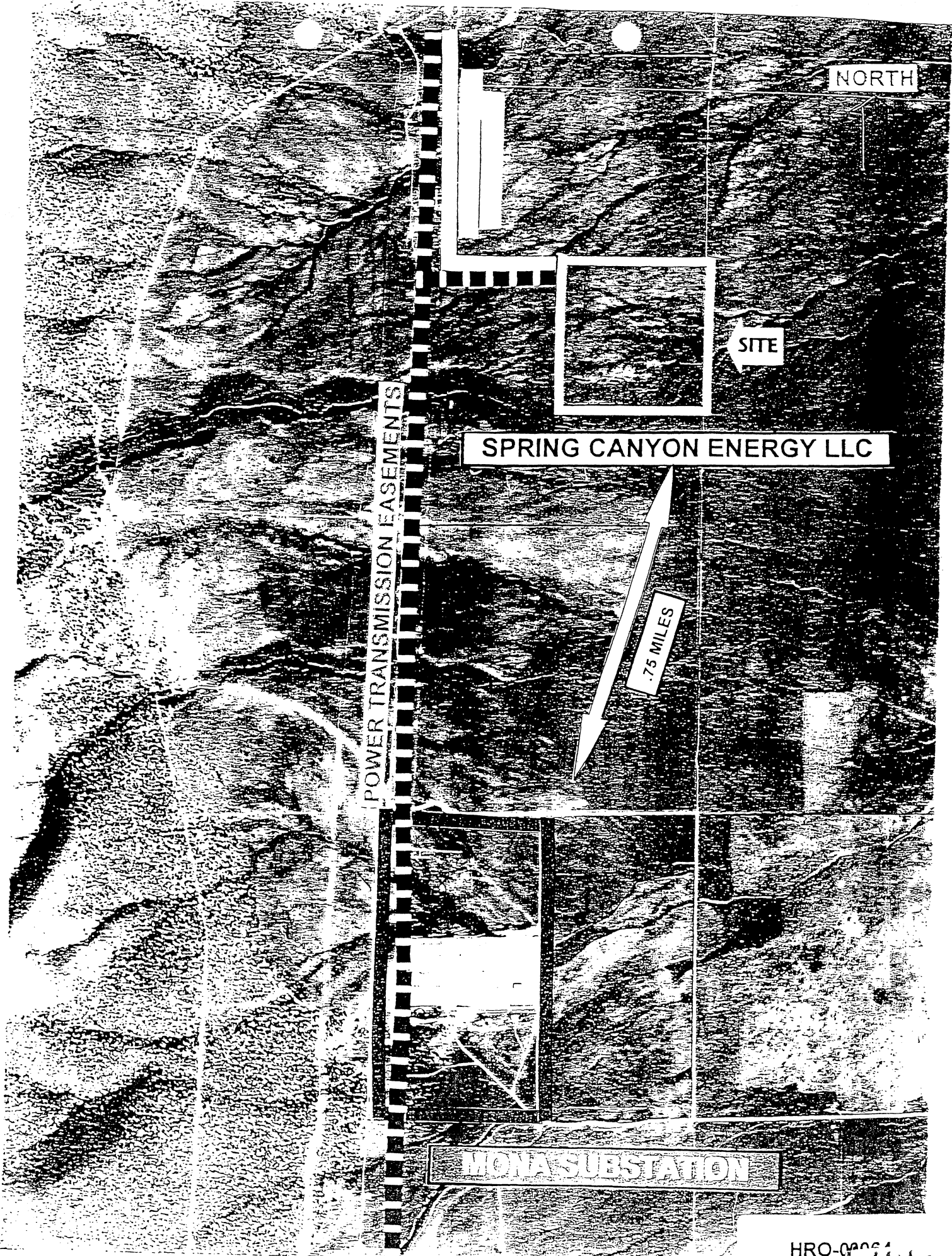


EXHIBIT 10

8-6-03

Bruce G., Grant Cooper, Will,
Rand, Merrill, Claudia, Jody

5. Agreed on punt, - agreed on 270/sh. fixed punt.

Timing + firm supply are key terms.

6. No need to remove equipment

7. Bruce - imprudent.

Indemnity - sig. endangered species on property owned by Church. No need for it.

8. Wellston Prop. property.

9. They will prepare change. We will work together. We will share costs

Mona is ~~the~~ our area.

Goshen is theirs

They pay filing fee. Costs of lit is their concern.

Grant - the water right Talked to Bruce.

" "

" The contest process 10/18

provides assurance itself.

What water right? -

Main right =

21,978 af / 53-995

495 acres / 53-75

flow right in underground well. Not subservient to Goshen Irrig. Co.

Stored year round & discharged

Ask Current Creek Irrig. to distinguish gw & surface water. Create class of shares for ind. use.

Get out of Lam management.

gw = 10% of Co. rights.

If put up surface right, second priority. Problem in high water years.

If straight CC irrig. shares -

Bruce - seq gw & rely on it.

Jody - back off acreage at Church Farms to supply plant in extended drought or dry years.

Rand - If I own water, I will take risk. If I lease water, I only have a contract.

Governance Issues

Rand - Risk Form + Risk Review Process

2400 acres of sole supply using rt ~~is~~ along w/ CC Irrig.

Rand:

1. You deal w/ Current Creek
2. You seq. water
3. We both prepare change
4. Prosecute change
5. Particip in change of well

Rand - how long will it take?

Bruce - 2 to 3 months to deal w/ Current Creek.

* → Jody - understand Utah lake Plan.

Grant 2 months publication + protest
3 months hearing
3 months Current Creek

Rand - drill provisional well & pump test.

Grant - won't turn you off.

Rand - I have to re-think this. I'll get back to you.

Grant - You worry about Mona.

- We worry about CC

- No one worries about Goshen.

Merrell - Mona Dring. has big well $\frac{3}{4}$ mile from our well. Met Gordon Young.

If we run 900 gpm we draw them down 3 feet. We expect to operate at 600 gpm.

Other power plant?

Rand - RFP out because of IRP
200 MW peak 2005
500 " " baseload 2007

Since IRP, more growth.

July 22 proposals in. End of next week will

announce the screen cut.

Pacific plant is cost based alternative.
Others can be merchant plant, own financing.

Transmission
Nevada-up-Red Butte - some capacity there
Montana down is full.

After screen cut, will be unblinded.

Utah County is non-attainment area.

Gruck Farm

Current
Rights

File change on shares with all sources

★ Or - buy Utah lake water, drill well for
★ Goshen, get their early right

995
115
996
75

all Current Creek rights

Place of use

Location of wells

Explanatory

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA
POWER PARTNERS, LLC;
and SPRING CANYON
ENERGY, LLC,

Plaintiffs,

vs.

PACIFICORP, JODY L
WILLIAMS and HOLME,
ROBERTS & OWEN, LLP,

Defendants.

)
) Deposition of:
) MICHAEL JENKINS
)
)
)
) Civil No 050903412
) Judge Tyrone E. Medley
)
)
)
)

April 19, 2006 * 9.30 a.m.

Location TOMSIC & PECK
Attorneys at Law
136 East South Temple, Suite 800
Salt Lake City, Utah 84111

Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street Suite 300
Salt Lake City Utah 84101

6429

1 prior to the initiation of this
2 litigation consider the issue of
3 whether Ms. Williams or Holme, Roberts
4 & Owen had a conflict of interest in
5 representing PacifiCorp relative to
6 Carrant Creek?")

7 MR. BADGER: One other objection. To the
8 extent that it calls for work product, we invoke that
9 doctrine and object on that basis and the witness is
10 instructed not to answer. He may otherwise answer
11 the question.

12 THE WITNESS: Not that I can recall.

13 Q. (BY MS. TOMSIC) When you found out that
14 USA Power had submitted a proposal in response to RFP
15 2003-A which is Exhibit 5, did you ever consider
16 whether their submission of a proposal created a
17 conflict of interest in Ms. Williams representing
18 PacifiCorp relative to Carrant Creek?

19 MR. BADGER: Objection. To the extent
20 that the question requires this witness to testify
21 concerning privileged attorney-client communications
22 or to reveal his mental impressions and work product,
23 we object on these bases and the witness is
24 instructed not to answer. He may otherwise answer
25 the question.

1 THE WITNESS: No.

2 Q. (BY MS. TOMSIC) When you found out that
3 USA Power had intervened in the Public Service
4 Commission proceeding and was objecting to the
5 issuance of the CCN for Currant Creek, did you ever
6 consider whether Jody Williams and Holme, Roberts &
7 Owen had a conflict of interest in representing
8 PacifiCorp relative to Currant Creek?

9 MR. BADGER: Object to the extent it calls
10 for attorney-client privileged communications and
11 instruct the witness not to answer. He may otherwise
12 answer the question.

13 THE WITNESS: No.

14 Q. (BY MS. TOMSIC) What was your
15 understanding in 2003 as to what the scope of Jody
16 Williams' representation of PacifiCorp was relative
17 to Currant Creek?

18 A. To assist the company in acquiring water
19 rights that could be used for the Currant Creek
20 project.

21 Q. And was it your understanding during 2003
22 that obtaining water rights was necessary for the
23 Currant Creek project to be constructed and operated?

24 A. Yes.

25 Q. And during 2003 did you also understand

1 that once PacifiCorp made the decision to build
2 Carrant Creek that it was not going to accept any of
3 the proposals submitted by USA Power relative to the
4 Spring Canyon project?

5 MR. CALL: Objection, assumes facts not in
6 evidence.

7 MR. BADGER: Objection. To the extent it
8 calls for the witness to testify concerning
9 attorney-client communications, he's instructed not
10 to answer. He may otherwise answer the question.

11 THE WITNESS: My understanding was that
12 once the Carrant Creek project was selected that no
13 other responses to that RFP would be selected,
14 although there would be later opportunities to bid
15 into other RFPs.

16 Q. (BY MS. TOMSIC) And one of the proposals
17 about which you just now testified would have been
18 the proposal submitted by USA Power in response to
19 RFP 2003-A?

20 A. That's correct.

21 MS. TOMSIC: Why don't we take a
22 five-minute break and I'll just look at my notes. I
23 think I'm either done or pretty dang close.

24 (Recess taken.)

25 Q. (BY MS. TOMSIC) Mr. Jenkins, did you

REPORTER'S CERTIFICATE

STATE OF UTAH)
): ss.
COUNTY OF SALT LAKE)

I, LANETTE SHINDURLING, Registered Professional Reporter, Certified Realtime Reporter and Notary Public in and for the State of Utah, do hereby certify

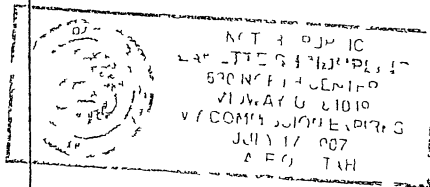
That prior to being examined, the witness, MICHAEL JENKINS, was by me duly sworn to tell the truth, the whole truth, and nothing but the truth,

That said deposition was taken down by me in stenotype on April 19, 2006, at the place therein named, and was thereafter transcribed and that a true and correct transcription of said testimony is set forth in the preceding pages;

I further certify that, in accordance with Rule 30(e), a request having been made to review the transcript, a reading copy was sent to P. BRUCE BADGER, ESQ. for the witness to read and sign before a notary public and then return to me for filing with PEGGY A. TOMSIC, ESQ.

I further certify that I am not kin or otherwise associated with any of the parties to said cause of action and that I am not interested in the outcome thereof.

WITNESS MY HAND AND OFFICIAL SEAL this 17th day of May, 2006.



Lanette Shindurling
LANETTE SHINDURLING, RPR, CRR
Utah License No. 103865-7801

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COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER PARTNERS, LLC; and SPRING CANYON ENERGY, LLC,	)	Deposition of:
Plaintiffs,	)	<u>J. RAND THURGOOD</u>
vs.	)	VOLUME I
PACIFICORP, JODY L. WILLIAMS and HOLME, ROBERTS & OWEN, LLP,	)	Civil No. 050903412
Defendants.	)	Judge Tyrone E. Medley

January 19, 2006 * 9:30 a.m.

Location: TOMSIC & PECK
Attorneys at Law
136 East South Temple, Suite 800
Salt Lake City, Utah 84111

Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street, Suite 300
Salt Lake City Utah 84101

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1 we were acquiring. And so the answer to that would
2 be yes. And then we had, of course, at our leisure
3 the time to look over it very carefully after that
4 once it had been purchased.

5 Q. Did you sign a nondisclosure agreement
6 with them before the purchase?

7 A. We did.

8 Q. You did?

9 A. We did.

10 Q. When did you actually put your eyes on
11 that information?

12 A. I do not recall explicitly. It may have
13 been before Christmas or the first part of the year
14 of 2003, but I don't remember the exact time frame.

15 Q. All right. Let me ask you on a separate
16 tack. You spoke about your initial meeting with Ms.
17 Williams I believe at your office in 2003?

18 A. I think I correctly stated that it was
19 probably in my office, but I wasn't sure.

20 Q. And you testified that you asked her
21 whether or not she had a conflict of interest,
22 correct?

23 A. That's correct.

24 Q. Did anyone in PacifiCorp instruct you or
25 did anybody instruct you to ask that question?

1 A. No.

2 Q. So you did that on your own initiative?

3 A. I did.

4 Q. Was there any type of company policy that
5 you were following in asking that question?

6 A. No. But it was part of our training and
7 what we had done over the years with any legal
8 situation that we thought might potentially have a
9 problem for us.

10 Q. What type of training are you talking
11 about?

12 A. Periodically the company offered legal
13 training to the management talking about a variety of
14 different things that had to do with the proprietary
15 nature of legal contracts. I mean, just general
16 contract law.

17 Q. Do you remember who performed that
18 training?

19 A. No. It was varied. Different people
20 offered different -- and I couldn't give you any time
21 frames. It was just throughout my career.

22 Q. Was it the corporate counsel of PacifiCorp
23 that would, for example, hold that?

24 A. It was not specifically, no.

25 Q. Did you follow up with anyone else,

1 especially anyone else at PacifiCorp, regarding this
2 conflict of interest issue?

3 A. I did.

4 Q. Who did you follow up with?

5 A. Mike Jenkins.

6 Q. And when did you have that follow-up?

7 A. Upon finishing the conversation with Jody.

8 Q. Did you call him?

9 A. No. He was officed right near me. I
10 spoke with him.

11 Q. Do you remember the substance of that
12 conversation?

13 MR. BADGER: I'm going to object. That's
14 getting into attorney-client privilege and he's not
15 to answer that.

16 Q. (BY MR. PETERSEN) All right. Let me see
17 if I can kind of draw some boundaries around this
18 conversation. You had a communication with Mr.
19 Jenkins on that issue; is that correct?

20 A. That's correct.

21 Q. Based on that communication, did you take
22 any further steps?

23 A. No.

24 Q. Did you tell Mr. Jenkins that you had seen
25 a document from Spring Canyon that mentioned Ms.

1 Williams' name?

2 MR. BADGER: I'm going to object. I think
3 we're getting into -- what he told Mr. Jenkins is
4 part of that confidential communication and I'm going
5 to object, attorney-client privilege, and instruct
6 the witness not to answer.

7 MR. PETERSEN: Why don't we do this. I
8 will ask the questions and proffer them and then you
9 can make the objections that you want.

10 MR. BADGER: Fine.

11 Q. (BY MR. PETERSEN) Did Mr. Jenkins advise
12 you to take any follow-up steps in regard to this
13 conflict of interest issue?

14 MR. BADGER: Objection, attorney-client
15 privilege. The witness is instructed not to answer.

16 Q. (BY MR. PETERSEN) Did you have any other
17 conversations with Mr. Jenkins or anyone else at
18 PacifiCorp about this issue?

19 A. No.

20 Q. One additional question. What, and I'm
21 just putting this on the record, what advice did you
22 get from Mr. Jenkins in regard to this issue?

23 MR. BADGER: Objection, attorney-client
24 privilege. The witness is instructed not to answer.

25 MR. PETERSEN: All right. Hold on one

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THIRD JUDICIAL DISTRICT
SALT LAKE COUNTY

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Third Judicial District

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Attorneys for Defendants Jody L. Williams and Holme, Roberts & Owen, LLP

IN THE THIRD JUDICIAL DISTRICT COURT FOR SALT LAKE COUNTY

STATE OF UTAH

)	
USA POWER, LLC, USA POWER	)	REPLY MEMORANDUM IN SUPPORT
PARTNERS, LLC and SPRING	)	OF MOTION FOR PARTIAL
CANYON ENERGY, LLC,	)	SUMMARY JUDGMENT RE:
	)	LOYALTY CLAIM
Plaintiffs,)	
	)	Civil No. 050903412
vs.)	
	)	The Honorable Tyrone E. Medley
PACIFICORP, JODY L. WILLIAMS and)	
HOLME, ROBERTS & OWEN, LLP,	)	(Hearing Requested)
)	
Defendants.)	

Defendants Holme Roberts & Owen, LLP (“Holme Roberts”) and Jody L. Williams (“Williams”) (collectively “Holme Roberts”) submit this Reply Memorandum in Support of their Motion for Partial Summary Judgment RE: Loyalty Claim.

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they mutually exclusive. The only thing that stopped Plaintiffs from developing their project was Plaintiffs' own limitations. Holme Roberts did not breach any duty of loyalty by simply helping PacifiCorp acquire water for its separate and different project.

II. PLAINTIFFS HAVE PRESENTED NO EVIDENCE THAT ANY ALLEGED BREACH OF HOLME ROBERTS' DUTY OF LOYALTY CAUSED ANY INJURY OR DAMAGES TO PLAINTIFFS.

Even if Plaintiffs could produce evidence that Holme Roberts somehow technically breached the duty of loyalty, summary judgment would still be appropriate because Plaintiffs have no evidence even *remotely* suggesting that Holme Roberts' alleged breach could have caused Plaintiffs any injury or damages.

Paragraph 93 of Plaintiffs' statement of facts asserts that PacifiCorp terminated its negotiations with Plaintiffs "as a direct result of Williams/HRO's representation of PacifiCorp," but this is entirely unsupported by any evidence.⁵ (Pls.' Mem. at lxxxiv-lxxxv, ¶ 93.) Plaintiffs further assert that PacifiCorp "would have purchased the Spring Canyon assets" if Williams had not assured PacifiCorp that she could find water rights for PacifiCorp (*Id.* ¶ 94). But again, Plaintiffs failed to cite any evidence supporting this allegation.⁶ Paragraph 97⁷ also alleges that

⁵ To support this allegation, Plaintiffs cite pages 287-88 of Ted Banasiewicz's deposition, pages 143 and 245 of Lois Banasiewicz's deposition, and page 12 of the report from J. Robert Malko. None of these sources say anything to suggest that PacifiCorp's termination of negotiations was a "direct result" of Holme Roberts' representation of PacifiCorp. While the two depositions discuss the termination of the negotiations, and the Malko Report purports to discuss the amount of damages from the termination, none of these sources ties the termination to the representation. In fact, the cited sources do not mention Holme Roberts or the representation at all.

⁶ Plaintiffs cite Deposition Exhibits 46, 47, 68 and 110 (pages 16-17 and 148) and pages 211-227 of Rand Thurgood's deposition to support paragraph 94. Once again, however, these exhibits and deposition excerpts do not show that any assurance by Williams caused PacifiCorp to forego buying the Spring Canyon assets. These documents merely show that water was important for the project, and that PacifiCorp asked Williams to help find some.

⁷ Paragraph 95 merely asserts that PacifiCorp needed a firm water source to build a plant. This is probably true, but has nothing to do with Holme Roberts. Paragraph 96 alleges that PacifiCorp could not have "developed" the Currant Creek project without Plaintiffs' *confidential information*, but as established in Holme Roberts' prior summary judgment motion, there is no evidence that Holme Roberts ever conveyed any confidential information to PacifiCorp. Indeed, pages 14-16 of the Koltick Report, which Plaintiffs cite to support this allegation, do not say

“[a]s a direct result of Williams/HRO’s representation of PacifiCorp on the Currant Creek project, USA Power was not awarded the RFP to supply power to PacifiCorp beginning in March 2005”; once again, however, the evidence cited does not support the allegation.⁸

Instead of providing actual evidence of causation, Plaintiffs invite the Court to speculate that because Holme Roberts helped PacifiCorp obtain water, and because water was ultimately necessary for the project, Holme Roberts’ representation is to blame for Plaintiffs’ failure to sell the Spring Canyon assets to PacifiCorp. This reasoning fails, however, on several levels.

A. It is undisputed that Holme Roberts’ representation was not necessary for PacifiCorp to acquire water rights for Currant Creek.

Most importantly, while PacifiCorp ultimately needed water for the Currant Creek project, there is no evidence that *Holme Roberts’* services were necessary for PacifiCorp to obtain water. Michael G. Jenkins, the Assistant General Counsel of PacifiCorp Energy, testified that as of March 2003, he was familiar with “several” other law firms and attorneys with water law expertise, and that he was prepared to contact other water law counsel in Salt Lake City who were “equally capable of assisting PacifiCorp with that assignment.” (Jenkins Aff. at ¶¶ 2-3,

anything about *Holme Roberts* at all. Rather, the report discusses “the Confidential Information *Plaintiffs provided to PacifiCorp.*” (Koltick Report, Ex. 3 to Tomsic Aff. 4, at 14 (emphasis added).)

⁸As purported support for paragraph 97, Plaintiffs cite pages 407-410 and 580-81 of Ted Banasiewicz’s deposition, pages 14-17 of the Koltick Report and pages 4-6 of the Morris Report. Ted Banasiewicz’s testimony consists of nothing but unsupported accusations. As there is no evidence that Ted Banasiewicz has personal knowledge of either Williams’ dealings with PacifiCorp or the effect those dealings had on PacifiCorp’s decision-making process, his testimony in this regard is inadmissible, and thus not sufficient to raise a genuine issue of material fact on those matters. See Utah R. Civ. P. 56(e) (Affidavits “shall be made on personal knowledge, shall set forth such facts as would be admissible in evidence, and shall show affirmatively that the affiant is competent to testify to the matters stated therein.”); Utah R. Evid. 602 (“A witness may not testify to a matter unless evidence is introduced sufficient to support a finding that the witness has personal knowledge of the matter.”). The two expert reports are similarly insufficient to support the allegation in paragraph 97. John Morris does *not* say that Holme Roberts’ representation of PacifiCorp caused Plaintiffs to lose the Spring Canyon deal. In fact, he states that “[w]hether such use or disclosure [of confidential information] occurred is an issue for the trier of fact.” (Morris Report at p. 6.) Similarly, as described in the preceding footnote, Mr. Koltick states only that PacifiCorp could not have developed the project in a short time without “[t]he Confidential Information *Plaintiffs provided to PacifiCorp.*” (Koltick Report at p. 15 (emphasis added).) This portion of Mr. Koltick’s report does not say anything about Holme Roberts.

deliver this power, i.e., in Mona Utah. (*Id.* at p. 18.) Based on this record, it would be purely speculative for a jury to conclude that PacifiCorp's choice not to buy power from Plaintiffs in 2003 somehow prevented Plaintiffs from being able to develop and profit from the Spring Canyon project.

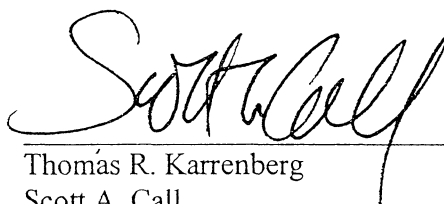
Plaintiffs' claim that Holme Roberts' representation of PacifiCorp caused Plaintiffs to suffer damages is purely speculative at every step of the argument. And because damages are purely speculative, Plaintiffs are not entitled to continue forcing Holme Roberts to defend against Plaintiffs' claim that Holme Roberts breached its fiduciary duty.

CONCLUSION

Plaintiffs are simply casting around, looking for someone to blame for the failure of their business plan. But there is no evidence that any blame can rightfully be cast in Holme Roberts' direction. There is no evidence that (1) Holme Roberts breached any duty to Plaintiffs, or (2) that any such breach could have caused Plaintiffs to suffer any compensable damages. Accordingly, Holme Roberts respectfully requests that the Court grant partial summary judgment, dismissing with prejudice Plaintiffs' claim for breach of the fiduciary duty of loyalty.

DATED this 27th day of July, 2007

ANDERSON & KARRENBERG



Thomas R. Karrenberg

Scott A. Call

Stephen P. Horvat

Jennifer R. Eshelman

*Attorneys for Defendants Holme Roberts & Owen
and Jody L. Williams*

CONDENSED TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	Deposition of:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>Lois Banasiewicz</u>
	)	Volume II
Plaintiffs,)	
)	
vs.	)	Civil No. 050903412
)	
PACIFICORP, JODY L.	)	Hon. Tyrone E. Medley
WILLIAMS and HOLME)	
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

August 2, 2006 * 9:07 a.m.

Location: Fabian & Clendenin
215 South State Street, Suite 1100
Salt Lake City, Utah

Reporter: Susette M. Snider, CSR, RPR, CRR
Notary Public in and for the State of Utah



170 South Main Street, Suite 300
Salt Lake City, Utah 84101

6647

1 Q. (By Mr. Badger) I think what you've told
 2 me is that your understanding was that there was a
 3 contract for \$3 million but not a contract for a
 4 long-term development agreement.
 5 A. That's correct.
 6 Q. What happened in the negotiations after --
 7 we stopped -- we went as far as March 1, 2003, and
 8 you told me about Rand talking to Ted about
 9 \$3 million and a long-term development agreement.
 10 Now, what was the next step in the
 11 negotiations after that?
 12 A. We got in the car and drove to Portland
 13 with an anticipation to meet with Rand Thurgood and
 14 other parties from -- from Portland -- from
 15 PacifiCorp in Portland to close that transaction. We
 16 arrived in Portland, I believe, on the 16th, and on
 17 the morning of the 18th we -- we received a voice
 18 message, a voice mail message from Rand Thurgood
 19 stating that his upper management did not want to
 20 proceed with the purchase of the Spring Canyon Energy
 21 assets and encouraged us to participate in the RFP.
 22 Q. What was the next step in the course of
 23 negotiations?
 24 A. After that voice mail, Ted tried to reach
 25 Rand several times, and on the 20th of March both

1 Rand and Ted had a conversation regarding
 2 PacifiCorp's decision not to proceed with the Spring
 3 Canyon Energy project assets.
 4 Q. How do you know that a conversation took
 5 place? Were you part of it?
 6 A. I -- I was not part of it, but I did
 7 witness my husband making that call -- receiving that
 8 call.
 9 Q. Where were you?
 10 A. We were in Portland.
 11 Q. At a hotel or --
 12 A. Yes, we were, um-hum. That was the
 13 Marriott.
 14 Q. Who else was present when Ted was on the
 15 phone?
 16 A. Just myself.
 17 Q. What did you hear him say?
 18 A. I believe he -- as I remember right now,
 19 he discussed with Rand the reasons why PacifiCorp
 20 management decided to terminate the negotiations for
 21 the Spring Canyon Energy project. I also heard Ted
 22 speak of the RFP and the RFP process, and that was
 23 the direction that PacifiCorp had intended to move
 24 into.
 25 Q. After -- have you completed your answer?

1 A. No, I have not finished.
 2 Q. I'm sorry. I apologize.
 3 A. Rand provided to Ted the information
 4 regarding the RFP prebid meeting, and Rand stated to
 5 Ted that Spring Canyon Energy's bid was their bid to
 6 lose -- was our bid to lose in the RFP because we
 7 were -- our advantage that we had with the advance of
 8 our development with Spring Canyon Energy.
 9 Q. It sounds as though you were listening in
 10 on this conversation, but you were not, were you?
 11 A. No, I was not. I heard my husband speak
 12 to Rand, and then immediately after the call, Ted
 13 reviewed the points of the conversation that Rand
 14 made with Ted.
 15 Q. This language about your bid to lose, did
 16 Ted tell you that's what Rand Thurgood had said to
 17 him?
 18 A. That's correct.
 19 Q. Now, have you completed your answer to
 20 that question?
 21 A. Also, Ted verbally asked Rand, since we're
 22 not proceeding with the sale of the Spring Canyon
 23 Energy assets, to return all of our materials, Volume
 24 1, 2 and 3, and also the materials we provided via
 25 fax to him regarding the technical information and

1 also asked Rand to request the same of Stacey Kusters
 2 of the information that we provided to her team.
 3 Q. What technical materials were --
 4 A. We had --
 5 Q. Hang on. Hang on.
 6 A. Sure.
 7 Q. You know what I'm asking, but let me make
 8 sure I --
 9 A. Um-hum. Okay.
 10 Q. -- don't muddle my own question.
 11 A. That's -- I'm sorry.
 12 Q. In your last answer you said that
 13 Mr. Banasiewicz had asked Mr. Thurgood to return, I
 14 think, all faxed technical materials. What would
 15 that refer to?
 16 A. That would refer to a letter that we
 17 provided to Rand Thurgood from Ray Racine from
 18 Waldron Engineering, W-a-l-d-r-o-n, in particular.
 19 Q. What materials had been provided to Stacey
 20 Kusters?
 21 A. We provided to Stacey Kusters a letter
 22 agreement, a draft power purchase agreement and also
 23 the two option agreements that we put together based
 24 on Rand's request.
 25 Q. None of those were ever signed by

LOIS

REPORTER'S CERTIFICATE

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STATE OF UTAH)
) ss.
COUNTY OF SALT LAKE)

I, Susette M. Snider, Registered Professional Reporter and Notary Public in and for the State of Utah, do hereby certify:

That on August 2, 2006, prior to being examined, the witness, Lois Banasiewicz, was duly sworn by me to tell the truth, the whole truth, and nothing but the truth;

That the testimony of said witness was reported by me in stenotype and thereafter transcribed, and that a full, true, and correct transcription of said testimony is set forth in the preceding pages:


That in accordance with Rule 30(e), no request having been made for the witness to read and sign the transcript, the original transcript was sealed and delivered to Scott A. Call, Attorney at Law, for safekeeping.

I further certify that I am not kin or otherwise associated with any of the parties to said cause of action and that I am not interested in the outcome thereof.

WITNESS MY HAND AND OFFICIAL SEAL this 16th day of August, 2006.

Susette M. Snider, RPR, CRR
Notary Public
Residing in Salt Lake County

66647

FILED
 DISTRICT COURT
 Third Judicial District
 AUG - 1 2007
 THIRD JUDICIAL DISTRICT
 SALT LAKE COUNTY
 By  Deputy-Clerk

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Attorneys for Defendant PacifiCorp

IN THE THIRD DISTRICT COURT
 SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER)	
PARTNERS, LLC; and SPRING	)	REPLY MEMORANDUM IN SUPPORT
CANYON ENERGY, LLC,	)	OF PACIFICORP'S MOTION FOR
	)	SUMMARY JUDGMENT
Plaintiffs,)	
)	
vs.)	
	)	Civil No. 050903412
PACIFICORP; JODY L. WILLIAMS and	)	Judge Tyrone E. Medley
HOLME, ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

PacifiCorp submits its Reply Memorandum in Support of its Motion for Summary Judgment.

THE UNDISPUTED FACTS -- STILL UNDISPUTED

Rule 7 of the Utah Rules of Civil Procedure mandates with respect to summary judgment motions that: “Each fact set forth in the moving party’s memorandum is deemed admitted for the purpose of summary judgment unless specifically controverted by the responding party” Ut.R.Civ.P. 7 (c)(3)(A) (emphasis added.)

In its opening memorandum, PacifiCorp provided twenty-nine factual statements to which it contends no genuine issue of material fact exists, each supported by sworn affidavits or appropriate deposition or other documentary evidence. In their opposing memorandum, plaintiffs specifically did not dispute five of PacifiCorp’s Undisputed Facts, i.e., paragraphs 12, 13, 14, 15, and 25. Plaintiffs also ignored three additional factual statements, thus admitting them, i.e., paragraphs 18, 27 and 28.

Additionally, while plaintiffs wrote a sometimes lengthy response to the remaining twenty-one paragraphs of Undisputed Facts, they did not “specifically controvert” any of these facts as required by Ut.R.Civ.P. 7 (c)(3)(A). Rather, their asserted “disputes” with the Undisputed Facts are really nothing more than arguments about the implication of the facts. Repetitiously telling their story with irrelevant details does not “specifically controvert” the facts or satisfy the requirements of Rule 7. *See e.g., Beutella v. A.H. Robbins Co., Inc.*, 2001 WL 35669202 (Utah Dist. Ct. Dec. 10, 2001) (holding that a repetitious argument coupled with voluminous irrelevant details does not meet the requirements of Rule 4-501 to provide a “concise statement” that specifically controverts the movant’s statement of undisputed facts.)

Moreover, Rule 7 allows that a non-moving party’s opposition memorandum “[m]ay contain a separate statement of additional facts that is controverted.” *See* Utah R.Civ.P. 7

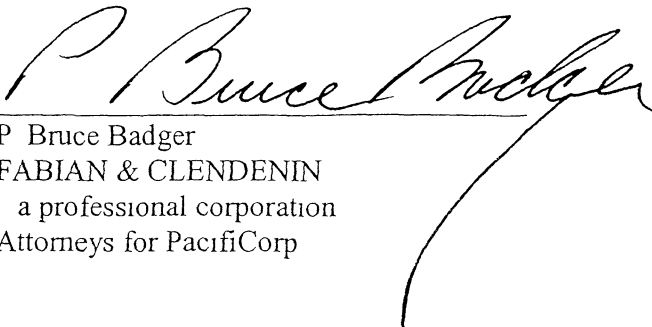
keep the information confidential, even without a written agreement. This is not what Graeber said at all. Rather, he testified that he had no memory of what happened at UAMPS and could not even confirm that UAMPS was given a copy of Volume 1.⁸⁴ Tom Florence's affidavit stating that Volume 1 was handed to him without any assurance of confidentiality remains unchallenged.

The importance of this issue is illuminated by plaintiffs' own statement that "USA Power viewed the secrecy of its work as the 'lifeblood' of its business."⁸⁵ This demonstrates quite clearly that by giving Volume 1 to UAMPS without any assurance of confidentiality, plaintiffs did not take "reasonable [effort] under the circumstances to maintain its secrecy."⁸⁶ Accordingly, Volume 1 cannot, by definition, be a trade secret.

CONCLUSION

For the reasons set forth in PacifiCorp's motion papers, the Motion for Summary Judgment should be granted.

DATED this 26th day of July, 2007


P. Bruce Badger
FABIAN & CLENDENIN
a professional corporation
Attorneys for PacifiCorp

⁸⁴ Graeber Depo. at page 339-342.

⁸⁵ See plaintiffs' opposition memorandum at page 7.

⁸⁶ Utah Code Annotated § 13-24-2(4).

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	30(b)(6) Examination:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>RAND THURGOOD</u>
)	
Plaintiffs,)	
)	
vs.	)	Civil No. 050903412
)	
PACIFICORP, JODY L.	)	Judge Tyrone E. Medley
WILLIAMS and HOLME,)	
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

September 28 , 2006 * 9:30 a.m.

Location: TOMSIC & PECK
Attorneys at Law
136 East South Temple, Suite 800
Salt Lake City, Utah 84111

Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



170 South Main Street, Suite 300
Salt Lake City Utah 84101

6740

1 in May.

2 A. Well, they were selected in April and they
3 started as soon as we hired them. So I think there
4 was probably some work done in April.

5 Q. Okay. Leaving them aside, had anyone on
6 your staff done any performance calculations for a
7 dry-cooled plant at Mona?

8 A. Yes.

9 Q. Who had done them?

10 A. Ian.

11 Q. And he had done those through a software
12 package?

13 A. More than likely.

14 Q. You don't know?

15 A. Well, I don't know what he used. He had
16 several different software packages that gave him
17 performance for gas turbine and combined cycle. I
18 can't speak to which ones he used.

19 Q. Do you know what software packages he had?

20 A. I don't recall their names, no.

21 Q. Are you familiar with, for example, Gate
22 Cycle?

23 A. No.

24 Q. Are you familiar with GTS?

25 A. That one rings a bell.

1 Q. Do you understand what the purpose of the
2 performance curves would be?

3 A. Yes.

4 Q. I mean, for the record, could you explain?

5 A. Well, you look at any of these programs,
6 they're basically saying if you have a particular
7 machine at a given altitude, under certain specific
8 temperature conditions, then it will predict fairly
9 accurately what its performance might be.

10 (EXHIBIT-368 MARKED.)

11 Q. (BY MR. PETERSEN) All right. And, Mr.
12 Thurgood, if you can identify what's Exhibit 368.

13 A. It's an e-mail from Jim Lacey to myself
14 with respect to water use at Mona Elberta dated March
15 4, 2003.

16 Q. And you understand this is showing
17 consumptive water use at a central Utah water site;
18 do you see that?

19 A. Yes.

20 Q. And it looks like it's done for a
21 wet-cooled plant?

22 A. Yes.

23 Q. Do you see it talks about -- well, let's
24 turn to page 3. Do you see the calculations here?

25 A. I do.

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	Deposition of:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>KENNETH IAN ANDREWS</u>
)	
Plaintiffs,)	
)	
vs.)	
	)	Civil No. 050903412
PACIFICORP, JODY L.)	
WILLIAMS and HOLME,	)	Judge Tyrone E. Medley
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

February 15, 2006 * 9:00 a.m.

Location: TOMSIC & PECK
Attorneys at Law
136 East South Temple, Suite 800
Salt Lake City, Utah 84111

Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street, Suite 300
Salt Lake City, Utah 84102

6756

1 had to be produced and that it could be executed.
2 This could not be a paper exercise.

3 Q. You testified before as to the air and
4 water cooling issue. Do you remember when that was
5 actually resolved?

6 A. I think in May of 2004. Pardon me. What
7 year are we in?

8 Q. 2003.

9 A. Thank you.

10 Q. And what was the resolution on that?

11 A. We had made a -- we had attempted to
12 purchase a large quantity of water that we thought
13 was sufficient for a water-cooled plant and that did
14 not prove out. As a result of that, not having
15 sufficient water, we recognized that we were going to
16 have to adopt air cooling.

17 Q. And at this time, which is to say May of
18 2003, did you have information back from Stone &
19 Webster regarding air cooling?

20 A. We had the performance numbers of what
21 that would be. And so then we used that as our basis
22 for the NBA of an air-cooled plant and based the
23 performance and the cost on an air-cooled plant.

24 Q. At that time, which is to say May of
25 2003, did you actually have the water even for an

1 air-cooled plant?

2 A. No, I don't know.

3 Q. Was there a person in particular that made
4 the decision in May of 2003 to go with an air-cooled
5 plant?

6 A. Well, I'm sure there was a recommendation.
7 I'm assuming a recommendation was made by Rand
8 Thurgood and I believe our management approved of
9 that recommendation.

10 Q. When you say your management, who is the
11 management?

12 A. Well, Rand reported at that time to Barry
13 Cunningham who reported to Judy Johansen.

14 Q. And were you present for any of these
15 meetings when this decision was made?

16 A. I was not.

17 Q. Do you remember having any discussion with
18 Mr. Thurgood about this time, which is to say May
19 2003, regarding this issue of air cooling versus
20 water cooling?

21 A. Yes.

22 Q. And do you recollect the substance of
23 those discussions?

24 A. That going with an air-cooled plant is not
25 an all bad thing. That in spite of its performance

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER PARTNERS, LLC; and SPRING CANYON ENERGY, LLC,	)	Deposition of:
	)	<u>THEODORE BANASIEWICZ</u>
Plaintiffs,	)	VOLUME II
)	
vs.	)	Civil No. 050903412
	)	Judge Tyrone E. Medley
PACIFICORP, JODY L. WILLIAMS and HOLME, ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

March 7, 2006 * 10:08 a.m.

Location: SUROVELL, MARKLE, ISAACS & LEVY
Attorneys at Law
4010 University Drive, Suite 200
Fairfax, Virginia 22030

Videographer: David Voitsberger
Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



170 South Main Street, Suite 300
Salt Lake City, Utah 84101

801.532.3441

TOLL FREE 877.532.3441

FAX 801.532.3444

U891

1 A. There is.

2 Q. And when did that occur?

3 A. It occurred in a meeting on February 18th,
4 2003, in the Salt Lake City offices of PacifiCorp.

5 Q. And very generally, and we can go into
6 this in more depth later on, what was included in
7 Volume 3?

8 A. Well, a Table of Contents is included here
9 and I'll just run down the list. It's a Strategic
10 Power Market Assessment, the Final/Approved Air
11 Permit. We have the Final/Approved Water Permits.
12 We have the Final Approved Exempt Wholesale Generator
13 Permit. There is a section about the transaction and
14 pro forma assumptions and then there are the economic
15 pro formas.

16 Q. And the economic pro formas and the
17 transaction pro formas, how are those different?

18 A. There are two pro formas that were
19 included. One is a base case pro forma through title
20 "Base Case" and one is titled the "Expected Case
21 Pro Forma."

22 Q. Okay. All right. Now, before we go into
23 that in detail, let me ask you generally, did you
24 have a follow-up meeting with PacifiCorp regarding
25 the potential purchase of Spring Canyon?

From: Green, Mark [mark.green@shawgrp.com]
Sent: Sunday, June 22, 2003 1:40 PM
To: bob.vanengelenhoven@pacificorp.com
Cc: kenneth.andrews@pacificorp.com; merrill.brimhall@pacificorp.com; Gappa, Rob; Mitchell, Elmer (DEN); Galpin, Dave; Gartner, Rodney; Currant-Creek Mail
Subject: FW: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached

Bob----

Attached (see E. Mitchell's email below dated 6/20/03) is our analysis of an alternate condensing scheme to compare to the larger ACC (98° F, 6-in. HgA) originally requested by PacifiCorp to maximize power output at the 1% dry bulb temperature. The alternate consists of a smaller ACC with a wet cooling tower providing additional power at dry bulb temperatures above 80° F. This alternative is more cost effective and nets additional revenue generation versus the dry cooling option currently included in the cost estimate. Another advantage is that the alternate condensing scheme generates additional revenue over the life of the project while staying within the water supply constraints on this project (net 400 ac-ft). This, of course, depends on exactly what temperature we turn on the cooling tower. Within the accuracy of this study, we can hold the current water supply limits to a net 400 ac-ft if the cooling tower is utilized above 80° F (see attached water balance). The attached performance comparison curves show that at 100° F, the alternate condensing scheme generates an additional 10 MW net versus the base ACC.

Information on GEA's PAC system is included which comprises the alternate condensing system we are evaluating. Included are examples of several installations that have utilized this hybrid condensing system. In several instances, they had to either modify their existing ACCs to the PAC design or design the PAC into their original plant design due to similar constraints regarding water availability.

We estimate that the alternate condensing scheme will cost approximately \$500,000 - \$1,000,000 more than what is included in the cost estimate now. This assumes that we will be able to pump from groundwater at ~890 gpm for the two month period in July and August. If this is acceptable, we will be able to avoid the costs of adding a water storage reservoir.

I hope this information will be helpful to PacifiCorp in developing an alternate that is more cost effective and yields additional power above the current design point.

Please advise if you have any questions or require additional information to evaluate this alternative

Mark E. Green, PE

Project Manager

Shaw/Stone & Webster Power Division

4201 N. Dry Creek Road

Centennial, CO 80112

303-741-7333

303-882-4667 (cell)

PAC031767

6993

303-741-7040 Fax

mark.green@shawgrp.com

-----Original Message-----

From: Mitchell, Elmer (DEN)

Sent: Friday, June 20, 2003 3:00 PM

To: Green, Mark

Subject: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached

<<Performance Comparison for ACC-CT Option with 80-20 Thermal Duty Split (includes water balance).pdf>>
<<GEA PAC Information.pdf>>

O. Elmer Mitchell

Consultant - Mechanical Group

Stone & Webster, Inc., a Shaw Group Company

tel +1 303 741 7337 fax +1 303 741 7040

elmer.mitchell@shawgrp.com

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PAC031768

6994

From: Green, Mark [mark.green@shawgrp.com]
Sent: Wednesday, June 25, 2003 7:25 AM
To: Andrews, Kenneth; Van Engelenhoven, Bob
Cc: Brimhall, Merrill; Gappa, Rob; Mitchell, Elmer (DEN); Galpin, Dave; Gartner, Rodney; Currant-Creek Mail
Subject: RE: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached
lan---

See comments below to your 6/23 email.

Call me if you have any further questions.

*Mark E. Green, PE
Project Manager
Shaw/Stone & Webster Power Division
1201 E. Dry Creek Road
Glenwood, CO 80412
303-741-7333
303-882-0067 Cell
303-741-7040 Fax
mark.green@shawgrp.com*

-----Original Message-----

From: Andrews, Kenneth [mailto:Kenneth.Andrews@pacificcorp.com]
Sent: Monday, June 23, 2003 6:19 PM
To: Green, Mark; Van Engelenhoven, Bob
Cc: Brimhall, Merrill; Gappa, Rob; Mitchell, Elmer (DEN); Galpin, Dave; Gartner, Rodney; Currant-Creek Mail
Subject: RE: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached

Mark,

Our analysis indicates the wet side-stream CT would provide approximately 5,900 MWhs of additional on-peak generation assuming the wet CT is engaged at temperatures of 80F and above. If the total additional installed cost were \$1,000,000 it would be clear we should proceed. Our threshold total capital we could prudently spend for this improvement is approximately \$2.0 - \$2.1 million. Before we can provide guidance on whether we should proceed or not, we need to determine:

Total all-in cost for this improvement, including cooling tower water treatment equipment, additional costs for any evaporation pond expansion required, tie-in piping, controls and controls tie-in, installation/construction costs for the wet CT, Shaw markups, PacifiCorp overheads, plus any additional water costs. One of the first issues we would like your input on is what you think the all-in costs are (except PacifiCorp overheads) and water.

The values given in my 6/22 email included everything on the EPC side including installation costs of all the items required for this option and are order of magnitude at this time (study grade). Additionally, the information forwarded in the prior email shows that there is no basis to increase the evaporation ponds since we have 20 acres now and we estimate that this is more than we need even when you factor in the cooling tower.

Our pricing does not include PacifiCorp overheads nor do they include the cost

of the water. There are a lot of variables that will determine the actual final costs and equipment sizing, but the pricing provided in the prior email is good enough to do comparative analysis of the two options.

We believe, as we stated in our 6/19 weekly conference call, that if this option appears economically viable that there is room to optimize (lower) the final costs of this type of system. One of those options is looking at spray cooling and provides other advantages to the project w/ regard to potential improved evaporation rates. These will have to be looked at in a later study but only when PacifiCorp feels that further study effort is warranted (i.e. there is an adequate payback possible for the hybrid cooling system).

-The other major issue you raised is whether or not we can pump water at the 890 GPM flow rates without a raw water storage pond/tankage. We will explore this from flow study data from the potential sellers of water. Assuming we cannot pump at this level, it would be helpful to have a rule of thumb cost for raw water storage if we are limited to a lower pumping flowrate and some raw water storage is needed.

We estimate that the order of magnitude cost to provide a 100 ac-ft storage pond is approx. \$1.5 MM. Note that in the analysis provided in the 6/22 email that providing a 95 ac-ft storage pond will reduce the water pumping rate from 890 gpm to approx. 600 gpm during the July and August period. Also note that a storage pond increases the water demand by +/- 5% due to increased losses from evaporation (in the storage pond) and losses due to seepage from the pond.

This analysis presumes no increase in water consumption. Inasmuch as this still uses a wet CT, evap losses will occur from the side stream wet CT. Is there an estimate on what the additional water lost to evaporation from the CT is

These losses have been accounted for in the analysis and are included/shown on the water balances in the 6/22 email. We estimate that make up to the tower will be approximately 744 gpm during the period the tower is in operation. We are attempting to minimize the freshwater makeup to the tower by using the RO centrate (59 gpm) as part of the tower makeup. This leaves a net of approx. 658 gpm that will have to be provided from the wells.

if you or your team have any questions, please call so we can come to answer on which direction we should take on this issue.

Best Regards,

ian

if we are unable to pump at the 890 GPM rate,

-----Original Message-----

From: Green, Mark [mailto:mark.green@shawgrp.com]

Sent: Sunday, June 22, 2003 1:40 PM

To: bob.vanengelenhoven@pacificorp.com

Cc: kenneth.andrews@pacificorp.com; merrill.brimhall@pacificorp.com; Gappa, Rob; Mitchell, Elmer (DEN); Galpin, Dave; Gartner, Rodney; Currant-Creek Mail

Subject: FW: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached

PAC031770

6996

Bob----

Attached (see E. Mitchell's email below dated 6/20/03) is our analysis of an alternate condensing scheme to compare to the larger ACC (98° F, 6-in. HgA) originally requested by PacifiCorp to maximize power output at the 1% dry bulb temperature. The alternate consists of a smaller ACC with a wet cooling tower providing additional power at dry bulb temperatures above 80° F. This alternative is more cost effective and nets additional revenue generation versus the dry cooling option currently included in the cost estimate. Another advantage is that the alternate condensing scheme generates additional revenue over the life of the project while staying within the water supply constraints on this project (net 400 ac-ft). This, of course, depends on exactly what temperature we turn on the cooling tower. Within the accuracy of this study, we can hold the current water supply limits to a net 400 ac-ft if the cooling tower is utilized above 80° F (see attached water balance). The attached performance comparison curves show that at 100° F, the alternate condensing scheme generates an additional 10 MW net versus the base ACC.

Information on GEA's PAC system is included which comprises the alternate condensing system we are evaluating. Included are examples of several installations that have utilized this hybrid condensing system. In several instances, they had to either modify their existing ACCs to the PAC design or design the PAC into their original plant design due to similar constraints regarding water availability.

We estimate that the alternate condensing scheme will cost approximately \$500,000 - \$1,000,000 more than what is included in the cost estimate now. This assumes that we will be able to pump from groundwater at ~890 gpm for the two month period in July and August. If this is acceptable, we will be able to avoid the costs of adding a water storage reservoir.

I hope this information will be helpful to PacifiCorp in developing an alternate that is more cost effective and yields additional power above the current design point.

Please advise if you have any questions or require additional information to evaluate this alternative

Mark E. Green, PE

Project Manager

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303-741-7020 Fax

PAC031771

6997

mark.green@shawgrp.com

-----Original Message-----

From: Mitchell, Elmer (DEN)

Sent: Friday, June 20, 2003 3:00 PM

To: Green, Mark

Subject: Back-up Data for PAC Comparison & Vendor Info on PAC System Attached

<<Performance Comparison for ACC-CT Option with 80-20 Thermal Duty Split (includes water balance).pdf>> <<GEA PAC Information.pdf>>

O. Elmer Mitchell

Consultant - Mechanical Group

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PAC031773

From: Brimhall, Merrill
Sent: Friday, June 27, 2003 5:45 PM
To: Thurgood, Rand; Lacey, James; Andrews, Kenneth
Subject: FW: Water Pond Storage.xls
Jim and Elmer (at SHaw/S&W) may want to see if there is agreement on the total annual water consumption. Whether dry or hybrid.

It looks like Hybrid might be out of the picture for the full 1000 mw, but possible if we only install 500mw.

-----Original Message-----

From: Brimhall, Merrill
Sent: Friday, June 27, 2003 4:11 PM
To: Andrews, Kenneth; Lacey, James
Cc: Van Engelenhoven, Bob
Subject: Water Pond Storage.xls

Ian - see column C18 If we use Shaw's annual monthly estimate for combination wet/dry cooling water usage - column B, then set July and August to run without the minicooling tower additional use (890 goes back to 232) then we get....
233 Acre Ft for 500 mW or 466 for 1000mW.

Does this mean we need to go out and buy an additional... $66 * 2 = 132$ acre ft? to cover the 1000 mw.

If we decide to go 1000 mw with the mini cooler/wet-dry hybrid. Then we need...
 $(410+10)*2=840$ acre ft. over and above the current 800 acre ft we are pursuing.

I talked to Dave Galpin about this. He will have Elmer take a look at it on Monday.

Talk among yourselves and then let Rand know.

PAC031774

1000

07/25/08 11:03:57

CLERK OF DISTRICT COURT
SALT LAKE COUNTY
B' - AEJ - CLERK

Peggy A. Tomsic (3879)
Kristopher S Kaufman (10117)
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136 East South Temple, Suite 800
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Attorneys for Plaintiffs
USA POWER, LLC;
USA POWER PARTNERS, LLC;
SPRING CANYON ENERGY, LLC

IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

USA POWER PARTNERS, LLC, USA)
POWER PARTNERS, LLC, and)
SPRING CANYON ENERGY, LLC,)
)
)
 Plaintiffs,)
)
)
 vs)
)
 PACIFICORP, JODY L WILLIAMS and)
 HOLME, ROBERTS & OWEN, LLP)
)
 Defendants)

MEMO IN SUPPORT OF USA
POWER'S MOTION FOR LEAVE
TO FILE SUPPLEMENTAL
AFFIDAVIT OF PEGGY A
TOMSIC

Civil No. 050903412
Judge Tyrone E Medley

ARGUMENT

The Court should grant USA Power leave to file the Supplemental Affidavit of Peggy A. Tomsic, to be added as part of the record in opposition to Defendants' motions for partial summary judgment and summary judgment. [A copy of the supplemental affidavit is attached as Exhibit A].

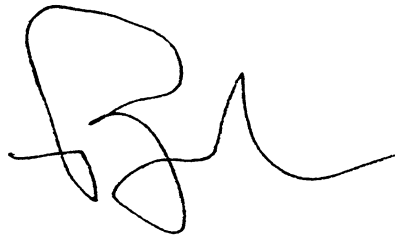
Utah Rule of Civil Procedure 56(e) allows the Court to "permit affidavits to be supplemented" by further affidavits. Of the hundreds of thousands of pages of documents, testimony and pleadings, including thousands of pages already filed with respect to summary judgment alone, the supplemental affidavit of Peggy A. Tomsic attaches relatively few pages of documents and testimony which inadvertently were not included as part of Plaintiffs' Memoranda or the prior Affidavits of Peggy A. Tomsic. This oversight is due to the voluminous record in this case, including the record filed by the Defendants in support of their motions for summary judgment.

Granting USA Power leave to file the Supplemental Affidavit of Peggy A. Tomsic will not unfairly prejudice Defendants. The affidavit and attached documents do not create new issues of fact or present new arguments, but merely provide additional factual support for the disputes already highlighted in the memoranda filed in opposition to Defendants' motions for summary judgment. Finally, both Defendants will have ample opportunity to address the supplemental affidavit during oral argument approximately one month from now.

CONCLUSION

For the foregoing reasons, the Court should grant USA Power's Motion for Leave to File Supplemental Affidavit of Peggy A. Tomsic.

Dated: August 28, 2007.



Peggy A. Tomsic
TOMSIC & PECK ^{LLC}
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Salt Lake City, Utah 84111
Telephone: (801)-532-1995

Attorneys for Plaintiffs

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Attorneys for Plaintiff USA POWER, LLC;
USA POWER PARTNERS, LLC;
SPRING CANYON, LLC

IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

USA POWER, LLC, USA POWER	)	SUPPLEMENTAL AFFIDAVIT OF
PARTNERS, LLC, and SPRING	)	PEGGY A. TOMSIC
CANYON ENERGY, LLC,)	
	)	Civil No. 050903412
Plaintiff,	)	Judge Tyrone E. Medley
)	
vs.)	
)	
PACIFICORP, JODY L. WILLIAMS and)	
HOLME, ROBERTS & OWEN, LLP.,)	
)	
Defendants.)	

STATE OF UTAH)
 :ss.
COUNTY OF SALT LAKE)

Peggy A. Tomsic, being first duly sworn, states as follows:

1. I am the a member of Tomsic & Peck LLC and a member in good standing of the Utah State Bar. I am one of the lawyers who represents the plaintiffs in this action.

2. Attached as Exhibit 1 is a true and correct copy of handwritten notes from Ian Andrews notebook, Bates Nos. PAC025251-25254; PAC025267; PAC025273; PAC025304-25306; PAC025309; PAC025348; PAC025398; PAC025461; PAC025543; PAC025574; PAC025624.

3. Attached as Exhibit 2 is a true and correct copy of an email from David Eskelsen to Jody L. Williams, et al., Bates Nos. HRO-PC 001223-1224.

4. Attached as Exhibit 3 is a true and correct copy of an invoice dated August 28, 2002 from Qwest for telephone numbers 970-871-6223, 970-871-6234, and 970-871-9135. This invoice was produced by plaintiffs but does not bear any Bates Numbers.

5. Attached as Exhibit 4 is a true and correct copy of excerpts from the deposition of Lois Banasiewicz.

6. Attached as Exhibit 5 is a true and correct copy of excerpts from the deposition of Rand Thurgood.

7. Attached as Exhibit 6 is a true and correct copy of excerpts from the deposition of Steven Vuyovich.
8. Attached as Exhibit 7 is a true and correct copy of excerpts from the deposition of David Barlow.
9. Attached as Exhibit 8 is a true and correct copy of an excerpt from the deposition of Michael Jenkins.
10. Attached as Exhibit 9 is a true and correct copy of a document which was marked as Deposition Exhibit 3.
11. Attached as Exhibit 10 is a true and correct copy of a document which was marked as Deposition Exhibit 129.
12. Attached as Exhibit 11 is a true and correct copy of a document which was marked as Deposition Exhibit 130.
13. Attached as Exhibit 12 is a true and correct copy of a document which was marked as Deposition Exhibit 131.
14. Attached as Exhibit 13 is a true and correct copy of a document which was marked as Deposition Exhibit 132.
15. Attached as Exhibit 14 is a true and correct copy of a document which was marked as Deposition Exhibit 133
16. Attached as Exhibit 15 is a true and correct copy of a document which was marked as Deposition Exhibit 254.


17. Attached as Exhibit 16 is a true and correct copy of a document which was marked as Deposition Exhibit 293.

18. Attached as Exhibit 17 is a true and correct copy of a document which was marked as Deposition Exhibit 306.

19. Attached as Exhibit 18 is a true and correct copy of a document which was marked as Deposition Exhibit 370

20. Due to the overwhelming size of the record in this case, the foregoing exhibits were inadvertently excluded from Plaintiffs' memoranda and my prior affidavits.

DATED: August 28, 2007.



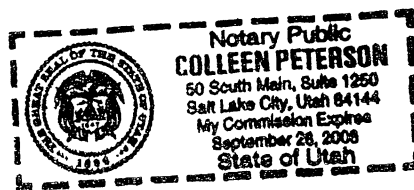
Peggy A. Tomsic

SUBSCRIBED and sworn to before me this 28 day of August, 2007.



Notary Public

Residing at: Salt Lake County



CERTIFICATE OF SERVICE

I hereby certify that on the 28th day of August, 2007, a true and correct copy of
SUPPLEMENTAL AFFIDAVIT OF PEGGY A. TOMSIC IN OPPOSITION TO
PACIFICORP'S AND WILLIAMS/HRO'S MOTIONS RE: SUMMARY JUDGMENT was
mailed, postage prepaid, to the following:

Thomas R. Karrenberg, Esq.
ANDERSON & KARRENBERG
50 West Broadway, #700
Salt Lake City, Utah 84101

P. Bruce Badger
Fabian & Clendenin
215 South State Street, 12th Floor
P. O. Box 510210
Salt Lake City, Utah 84151

Michael G. Jenkins
Assistant General Counsel
PacifiCorp
1407 West North Temple, Suite 310
Salt Lake City, Utah 84116



1-13-2003

1. One Line Diagrams For Sites
2. Transmission Line Capabilities - See 1-10
3. Review Cost Spreadsheet
4. Melissa @ LSON
5. TABLE OF TRANSMISSION REQUESTS, STARTS
6. CARBON
 - A. Do DRAWING REVISIONS
 - B. Figure out cross wiring - DO ISOLATORS OR A NEW BEARD
 - C. PRINTOUT New Point List
 - D. UPDATE DATA BASE
 - E. Make New TABLE
 - F. Arrange to figure out Model, Bottom ORDER

1-14-2003

1:00 PANDA
 2:00 USA Power
 Brian Gross 972-980-7159
 David Barlow

~~PANDA~~

Secured Access + Met Data

- Not huge priority to Deriv with
- Want build in next 3-4 years
- Happy to sell Land, Met Data, Work to Date
- FOR ACTUAL VERIFIABLE \$964,818 1.5yr Data
- People have asked FOR DATA
- Options Assignable ~~80 Acres~~ →? 320 Acres
- Met Tower
- + Survey work
- + Work on Air Permit
- EAST OF Mount SUB
- Deal Cover Rocketman + Overstar

Feb 28 -\$20,000 Buys another year

Apr 16 \$20,000

Land price going up.

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PAC025251

USA is interested in Met DATA

After size of plant to get away w/o Met DATA

Met DATA HAS been Audited + QUALIFIED FIRE STATE

USED. ^{for hours} M.S.E. on collected DATA

Met Tower is included worth \$ 250,000

will

Put together sum of options by ~~7:00~~ end of week
knows guys in Portland

GARY

BRIAN GROSS

972-982-7159

DAVID BARIOW

WATER ?

→ Need ~~payable~~ audits & Buy all for State for PSD

→ Buy this documentation

→ Ask

USA Power

DAVE

TED BANIGHAN

BOTH TALKED TO STACY Recently

→ MSP problem COSTS NOT FULLY ALLOCATED

→ USA Power - Time in next 60 DAYS

TO DEAL WITH FLY

Wanted for WIN-WIN SITUATION

structural option agreement

→ Expense

• UP FRONT PLANT COST + EXPENSES

+ Air Credits

→ Monthly Fee

→ Up front may be better for Consultant

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USA Power

- 1 - Assoc. GRADIS will have with USA Power
- 2 - \$8,000,000 MS too high
- 3 - \$3-4p00M is much low - low
- 4 - All ready \$1,000,000 + in expenses
second 10% with this.
- 5 - Just 3 guys at the meeting - low budget option
- 6 - Everyone wants to see up on wet days
Some companies have very bad cooling systems.
* * HAVE WE COME AT GET FOR G.E. wants that
Bedford - waste cooling

IF we could get 20% of wet cooling - water
could get 80% of performance
GRAD is running nuclear on hybrid system

Chillers not most efficient

Dotier
Will transfer to BARK

Ask Ed McArthur about Blumstein

INEL green power - experienced solar company

IDEA OF ADDITIONAL GEOTHERMAL

Should be ok to ADD 40 MW BLUMSTEIN UPGRADE

PAUDA

DAVE BARLOW MET DATA NEED PSD Request

ENV. CONSULTANT could talk with

214-557-8830

BROWN JESS could set up 352-332-6444

TRAVIS EPES - ECT CONSULTANT TO DO MET DATA

-PAID \$36,000 FOR Feasibility Study. Plenty of Kaibab

Said NO Problems FATAL Flow Analysis

Interconnected Study -

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INTERCONNECTION STUDY

DIDNT GO TO NEXT STEP

LOST PLACE IN QUEUE

WANT NOT ~~BEING~~ TOO BUSY - ~~AVOIDABLE~~

WOULD TOP INTO REMAINING LINE

AT ENERGY - WOULD REIMBURSE

IF WE PICK UP PROJECT - THEY WOULD RUN THY
- PROJECT

2200 MW IN ARIZONA > PANDA PROJECTS
2200 - GILBY ARIZONA

MAINTAINING POWER ON MEXICAN BASIS

IF PLANT GETS BUILT WILL PRODUCE DDP NEW PLANT
LADUP HAS SURPLUS WOULD SUPPORT EXPAND DDP
GOOD CYCLES ASSIDE FROM LADUP

GET LOT OF SUPPORT POLITICAL STATE

HAD SOME OTHER OPTIONS 3 WOULD HAVE
APPLIED WATER.

WILL PROVIDE WATER INFO.

SITE CRITERIA

PHASE I ENVIRONMENTAL STUDIES

TESTED SOIL COMPACTION

NO BONES

NO EQUIPMENT OPTIONS

GOOD TIME TO BUY

DAVE WOULD LIKE TO HELP

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PAC025254

1-27-2003

- JUDI Re: WATER @ ELBERTA - TALKED TO ~~WILLIAM~~ MARTIN
- Dave & / Row Dennis field
- CARBON DRAWINGS
- CH2M HILL DRAFT. MTC. @ 3:00
- ✓ • DENNIS HAEPPA
- PLUMBING SHEET
- AIR PLANE C.F.B.E.R.
- ✓ • PUMP
- DAVE ANDERSON - 350 @ - ORDERED 2 BOARDS @ \$780 EACH
Some question on how to pay for them.

D DAVE ANDERSON 2110

CH2M Hill site Survey

Boundary between SL & Davis County Ag Center
MOA can't get well water from

HRO Low Firm. Someone recently got water rights @ MOA

General - PRE + WATER FOR SALE

1-28-2003

D JOHN KLINGBE - Reviewing IRP

Do IRP About every 3rd year

No relationship to BPA + our ability

Shown on Base Load going away

Need definitions, PPA, 166C

Reliability of transmission

Core plant is Bellingham area

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PAC025267

Lodi Williams

Possibilities

1. DON JONES NORTH OF Nephi \$4000 +
 2. UTAH CANAL WATER RIGHTS TO PROJ.
 3. Nephi Irrig Co. FOR THEIR WATER \$4000
buy ^{UP TO} 7000 acft
- THEIR TOTAL 22000 acft.

They have DEBT TO COVER comes due N this year

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PAC025273

CAROL HUNTER

Give CAROL copy of site stories

5)

JUNAB TAX SUBSIDY

GREY HERBERT - USAH County → Governor
Pres. of Counties Assoc.

PIC, CEC, OIAK

Time is of essence

EDA → Economic Development APPRA

CAROL will set up MTRB with OIAH County & JUNAB County

6) TRAVIS PPPS will call back 8 Oct 2003

2-27-03

TASKS

- o ELBETHA, MONA, GADSBY TRANSMISSION ✓
 - o MARK TONY
 - o TRAVIS PPPS ✓
 - o SEND CONTRACT ✓
 - o REV. AL. MARRIX MONA/MSB ✓
- o DO RATINGS
 - o LYNN HEARD DID SHE GET RELEASE
 - o GET CLAUDIA TO GET RELEASE TO VERIFY CONCRETE WORK
 - 541-3584 Cell - NK - MSB
 - o AUDIT POWER WILL SEND INTO
 - o WORK THROUGH TRAVIS
 - LET MSB KNOW WE CAN DFT
 - IT'S CONFIDENTIAL

1) DAVE LAMB

Req. visitation, Scope, Time Frame, Michael Kattot

UCC covers MARK NOT SERVICES

UNDER \$3000 one off off contract

WHO CAN BIND TO UNDER CONTRACT

2) Thomas Weyenberg - data Report subject to copyright law

Services Requisition Sent to Michael's attention

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Item Description - describe what needed, create opt out to remain in line as expert witness to appear at future date

Get Vendor #

STANDARD SHORT FORM STANDARD TERM

PAC025304

3) Bob entered requisition ECT Req # 105 98271

④ Michael K... 6687 Ret CAUS

- ⑤ TRAVIS PAPPS • HARD COPY REPORTS
- SENT CD TO BRIAN GROSS
 - MST HAS ONE PM10 SAMPLER
 - SOLD ONE LEFT OTHER
 - PLATFORM 3/4 TALL 4' X 10' 4' HIGH - 8' HIGH
 - DISK MAY NOT CONTAIN PM10 DATA
- OVER THE RIDGE WOULD BE RIDE OF A PROBLEM
- BIG QUESTION PM10 NEED OFFER
- UNLESS MONITOR SENSORS 100 TMS PER YEAR
- CANT MODIFY WITHIN 2 YEARS - CIRCUMVENTION OF PSD
- "DIDNT SOUND LIKE GOOD PROJECT"
- "BLEW WHISTLE ON USA POWER" ENERGY APPLICATION
- CONSTRUCTION PERMIT = PSD PERMIT

~~XXXXXXXXXX~~

POWER PERMIT WILL GIVE 9 MONTHS + 6 MONTHS FUTURE

- TALKED TO GUY WHO DID WATER FOR MONA - WOULD BE WILLING TO ~~REVEAL~~ GIVE INFORMATION
- Jeff Mellinger VP @ RET UTADQ WOULD EVAP POUNDS
- SHOULD BE ABLE TO TELL IN 5-10 A COUPLE OF HOURS
- \$200.00

⑥ George Wilkerson

Meteorological Solutions INC.

Web @ Met.Solutions.com

HAS TWO PM10 SAMPLERS 7500 EACH NEW 6 DAY SCHED.

2257.50, 1100 EAST ST. 203

SLC, UT 84106

CONTRACT THROUGH OS.

WILL SEND FAX

REACTIVATE CELL PHONE

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PAC025305

2005 8 26 20294

Power Not Set up for AIRMOD MODEL

Needs Different Services Vertical Services

RADIATION - ROOM ON DATA

Ray Self on the side of the road

7 CLAUDIA @ 2252

- She can go to STATE AND BEGIN RESEARCHING WATER
- Bill White has water in Utah Lake AREA - BUSINESS WATER
- Ask State if water can be moved

8 JIMMY CALL

will still continue good results - QUARTER

DRAGON - PROPOSING 10% INCREASE

MULTI-MEDIA CORP. WITH NO RECORDS TO SUPPORT CLAIM

9 MARY self assessment

RTO - STATE DISCUSSION WITH NEW MOUNTAIN COMPANY

10 ~~DRAGON~~

NR. GENERATOR IN ALBANY AREA - MARGES - DISTURBANCE

Fry Substation good

could be build line from D. A. REED TO SANTIAGO TO FRY

play of existing conditions

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PAC025306

3-04-03

1) Jodi, Claudia, Mike, Jim, Rand

RFP - 60 DAYS

General 3500 acft @ 2300/acft

7000 acft @ 2100/acft

Term Sheet - Jodi can look at it

? Timing of WATER USE
@ 65% CAP FACT
85%

Water Required 4600-5700 acft. -10% high

Jodi

• UTAH WATER STANDARD practice TO MINIMIZE CONSUMPTION

• At the line share - Minimum water interference

• NO PROBLEM PIPING TO HOLD

• TALK TO STATE Engineer about water

HANSEN Allen & Loze or Bryce Montgomery

↓
RAND Hansen.

• Probably sink 2-3 wells.

• General Sol. 3000 acft to JORDAN @ 2700 acft.

• Can put into model - use application

• PIC MARCH 21ST

• Budget April 17th Pacificorp Budget

✓ ** Call Ross Back 3500, 7000 - 3 or 6

Ask which W.R.'s they propose for

• TRY TO FAST TRACK on change application

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PAC025309

4-02-03

- 1) Bob V. Project Notebook - Saw borrowed from me & returned
- 2) 7:54 AM TRAVIS 352-332-0444
- 3) CRAIG - Payment coupon, still @ \$7, can Craig Tue

TASKS

- A) CARBON - Dave Nelsen will call back.
- ✓ B) FILING - MONA ORGANIZATION
- ✓ C) CALL MARV RE Pipelines & WARM SPS
- ✓ D) Review MONA TRANSMISSION with Don Sistani
- ✓ E) MATT / GODFREY - what DATA
- F) WRITE UP MONA VS Elbata
- G) FIND USA POWER BINDER
- H) QUASTAR - DO we have them up with our ROW/ENVIRO consent?
- I) DO we need to set up P1E - CONTRACT MGT?
- J) Can TOM WISOM - MONADORS? \$7,000.00 cost \$4,800
- K) MORE MONEY PER ECT?

TRAVIS

- Met Report →
- USA Power Permit
- Modeling

✓ A) DO we have Registration / contract for Hanson, Allen + Lease?

Michelle

- Sun 6 Utah Ave Apr 10 Early work Wed 6:30-9:00
- Mon 7 St base Apr 12 space work 6:00-8:00
- Apr 13 Acceptance
- Apr 14 Best cost
- Apr 24 } NATE
- Apr 25 }

June 26, 27, 28 girls camp 23-28 Boys camp

June 30 Perryds - 9-12 river trip

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PAC025348

April 30, 2003

1. TRANSMISSION Study Letter
2. Review LTR prep for Morris Study
3. Check with Bill on Measurement
4. Ask Bob about water study
5. CARBON
6. Accounting - when ORDER # for WATER ROW.
- 7.

1) MARW ACTION.

DRAW #	Limit	Avg Pot	Potential
96	100,000	10,250	✓ MOST DRAWN BY MUNICIPAL ENTITY
97		9955	4500 IRRIG, 1600 DOMESTIC
98		8778	
99		12360	15600

MODRITY ± 200 ft. NOT HARD TO DO MODRIL

2) Pump on North side of SALTAGE ID
5734129

~~///~~ Joe Brand / Marriell
How much for OPTION

FIRST 3 PARCELS

{ \$ 50k for 6 Mo incl 25,000 gal H₂O } @ \$2,100/acre ft.
{ + 25k for 6 mo

and 2300/acre

\$100 k for

/// water until 15th Policy MTC.
~~///~~

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PAC025398

JK JK L: 4, 1

6-10-03

- 1) Chatterbox Ray - [unclear] [unclear]
- 2) try Nephi Ingram
- 3) USA Power on [unclear] - How do Ray pay - call again
- 4) Ed Repheers - talk with Brad Williams - then will it

+

CLAUDIA 200 [unclear]
 150 75% [unclear]

(400 - 180) 50% [unclear]

CLAUDIA - would like to wait a couple of days
 till things are decided with [unclear]

✓ 5) 9:32 Michel

- 6) Terry Ray @ 503-813-5759
- 7) Get TRANSMISSION COSTS
- 8) Tickets
- 9) Repheers
- 10) Terry Ray, Dennis Miller, Milt Patcocki, Larry ELDER, LARRY SODERQUIST, [unclear] [unclear]

11) HAROLD SW QTR of NW QTR Sect 31 1150 E.
 Upper NW QTR
 900 ft x [unclear]
 Wallace Ray - Also owns property adjacent to

- 12) GRANT & Church 240-4074 would like HFC.
- 13) MARV 633 1046
- 14) GRANT TUE @ 9:00 → 10:00 here
- 15) Change Request.
- 16) CONSTRUCTION POWER to Separately Terry Ray
 Volunteered to help coordinate

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PAC025461

711111

~~NOT A B~~

ENCORR

PAST PROJECTS SMALLER

SPRING CANYON

AMERICAS

DAVE ROBERTS

ROSS MACLAUSLIN

DAVE OLIVER

LIED BARRICK

PAT GROSS

PAUL DOMINGUEZ

CONCERN OVER RAMP BEING IN AN ANALYSIS SINCE OUR PROJECT IS
COMPETING

ADDS ENERGY

QUIXX CORP INVESTOR IN IPP
SUBSID. OF RXCRU

NO DUCT FIRING FOR PRODUCTION
THEY WILL TAKE CARBON TAX

CHANGE RISK IF APPROVALS FROM EPA ETC ARE

~~NOT RECORDED~~

WARTSILA

100 PLANTS ON LONG TERM CONTRACT

PIONEER IPP MARKET

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PAC025543

9-22-03

- ✓ 1) E-MRIC
- 2) SUBST DESIGN
- 3) XFAIR Spec
- ✓ 4) Brian Thomas — Indifferent OAD
- ✓ 5) IAW's writeup
- 6) Rick Savels
- ✓ 7) Micrage
- 8) L & R FOR JAFFA
- ✓ 9) Blower FAU
- ✓ 10) John Paper — 4869 — GSU NO LOAD TAP change
- ✓ 11) Day 2 @ 8:51
- 12) QUESTAR

- USA POWER HAS NOT COMMITTED
- RECONCIL COSTS 120 DAYS AFTER END OF COST.
- Pay Capacity
- DON'T WANT DOUBLE DIP ON FUEL CHARGE 1040 NEW LINE
- PAY THROUGH TRAMP SERVICE AGREEMENT
- Kern is BI - Directional? check for CUBA UWE.
- INTERIM RATES till expansion is AVAILABLE \$.05
- SEPARATE TAP @ \$1,000,000 to \$2,000,000
- ENVIRO Survey of BLM and Private Route

- + • DAILY & MONTHLY LOAD PROFILE
- Kern BACKHAUL
- LOOK @ FIRM BACKHAUL RATE

NOV 2005

B) LARRY S. Input Study by Dec 12th

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PAC025574

11-7

- 1) Review communication / OJ Harmon with Folke
- 2) Review PAD FOR XFER.
- 3) Put out starter addition ckt for SW YARD
- 4) schedule kick off MFC - probably w/o vendor
- 5) UPDATE TO IRISH on DUES
- ✓ 6) 5:58 ~~JODE Williams~~ - WITHDRAW OFFER
NREPA ONLY APPLIES IF PERMIT REQUIRED FROM FEDS
HARRING DR. 11TH
SPRING CANYON REALLY MATS WORK FOR COMPACTOR
- 7) Wayne 4328 TOPO SITE MUST ACQUIRE MAPS

- ✓ 8) ~~Bowling~~
- ✓ 9) ~~SAP PASSWORD: 123456~~

- ✓ 10) ~~Bill Lemtaskii~~ / RAGNAR Benson: ~~at of Pittsburgh +~~
LABOR GENERAL CONTRACTOR ~~CHICAGO~~
- 11) Bruce Pitt - Doctor work with OSA Powell in MONT
292-6920 in Carville
- 12) Ask Bruce to talk to FERN about contract, pressure EPR.
- 13) SAFETY TO LADDER POOL / RENVIR W:
- 14) GUEST PUT FREEZE ON SLUICING

- 15) Monday 10:30
- 16) Penn Police COORDINATE
- 17) temp water VS well
- 18) MARK WILLIAMS TABLE, NOT REPORT REGARDING STREAM ATTACKS
DISCUSS @ 250 gpm

✓ Rich Monday AM, Tue PM wed AM.

- ✓ 19) ~~Frances~~
- ✓ 20) ~~ADDRESS~~

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PAC025624

Jody L. Williams

From: Eskelsen, David [David.Eskelsen@pacificcorp.com]
Sent: Wednesday, December 24, 2003 10:27 AM
To: Jody L. Williams; Tallman, Mark; Kusters, Stacey; Thurgood, Rand; Van Engelenhoven, Bob; Allen, Melanie; 'andrew.jamieson@scottishpower.com'; Bennion, Doug; Boardman, Kevin; Brockbank, Dean; Cunningham, Barry; dominic.fry@scottishpower.com; Edmonds, Bill; Furman, Donald; Griffith, Bill; Hall, Lilisa; Haller, Andrew; Hansen, Kimball; Hess, Robert; Hudgens, Terry; Hunter, Carol; Hunter, Tim; Jenkins, Michael; Johansen, Judi; Johnson, Craig; Klein, Robert; Landels, William; Larsen, Jeff; Larson, Doug; Lively, Bob; Lynch, Kevin; McMillan, Simon; Mcseveny, Colin; Mitchell, Janice; Moir, Bob; Oler Kesler, Margaret; Pommarane, Mike; Ponteri, Jay; Rhodes, Randy; Sherrard-Smith, Rachel; Stewart, John; Walje, Richard; Watters, Stan; Weaver, Rodger; Wessman, Ernie; Wright, Matthew
Subject: News reports, Currant Creek water; Mine Mapping

Not a bad story on the Currant Creek water application . Still, I was disappointed the Anderton did not include the factoid on the air cooled nature of the plant -- that it will use less than a tenth of the water of water cooled condenser -- I mentioned it several times ... On the Mine mapping story, included it mostly for context, and that Lauriski is former Energy West safety manager.

Mona power plant proposal assailed

By Dave Anderton
Deseret Morning News
Dec. 24, 2003

Electricity and water are a bad mix, according to critics of a proposed natural gas-fired power plant near Mona city.

PacifiCorp is at the center of a flurry of protests objecting to the company's plan to convert 400 acre-feet of irrigation water annually to industrial use for its \$350 million Currant Creek power project.

Some fear the company's proposal to pump water from new wells will affect the town's underground water supply.

"The change applications if approved would cause a depletion of the underground water supply," said Mona Mayor Bryce Lynn in a letter to the state engineer asking that the applications be denied. "Water rights would be pumped in close proximity to Mona city's well and interfere with our well and our prior rights."

According to Jody Williams, an attorney for PacifiCorp, 400 acre-feet of water is about the same amount of water a farmer would use to grow 100 acres of alfalfa. "That's not a lot," Williams said.

The water would be used to control combustion temperature and is needed to cool the plant's turbines. Besides the city of Mona, irrigation companies and other groups are objecting to PacifiCorp's water application filed with the Utah state engineer. The Provo River Water Users Association said PacifiCorp's request "would impair the level of Utah Lake."

"Diversion of ground water as proposed by the applicant will deplete water that contributes to the volume of water in Utah Lake," said Warren Peterson, counsel for the association, in a letter to the state engineer.

Calls by the Deseret Morning News seeking comment from Peterson and Lynn were not returned Tuesday.

According to a study commissioned by PacifiCorp through Hansen, Allen and Luce Inc , a Midvale-based engineering firm, the impact on Mona's groundwater system will be minor.

"It's anticipated that we would expect the groundwater level to drop only one foot. That's very minimal," David Hansen, principal of Hansen, Allen and Luce, told the Deseret Morning News "A lot of the protest letters that

have been written bring up points and issues that really don't stand when you look at the whole picture "

PacifiCorp appears confident it will receive the state engineer's approval and already has started drilling two test wells

"We are willing to take the risk on this water application simply because we have no other choice. We can't meet the schedule otherwise," said Rand Thurgood, managing director of resource development for PacifiCorp, at a state engineer's office hearing on the matter earlier this month. "We cannot put \$350 million into the ground without water to run the plant "

In addition to its water-change application, PacifiCorp also must obtain an air quality permit and receive approval from the Utah Public Service Commission before construction of the power plant commences

The first phase of the 525-megawatt plant is expected to deliver 280 megawatts of electricity no later than June 1, 2005. By not meeting that deadline, blackouts along the Wasatch Front could result, according to the company

PacifiCorp was required to purchase roughly twice the water rights it needed - about 815 acre-feet of water tied to Currant Creek and Utah Lake - in order to convert the water to a consumptive use for its plant

Hansen said PacifiCorp's application proposes to use less water than the required water rights. "There is no impact on the projected water resources of the valley," Hansen said. "It's just changing its use "

Dave Eskelsen, spokesman for PacifiCorp, said the company is willing to monitor surrounding wells if water owners are worried over the impact

"We're reasonably confident that we have put forward a water change application that's within the law and that our engineering study will certainly stand up to scrutiny," Eskelsen said

Maps of old mines to be indexed, put on computers

By Mike Gorrell

The Salt Lake Tribune

Dec 24, 2003

Two near-disasters last year -- a highly publicized incident at the Quecreek Mine in Pennsylvania, and a less well-known case at Utah's Dugout Canyon Mine -- made one thing abundantly clear. The mining community needs a better system for keeping track of precisely where underground mining has occurred, especially in bygone days

To address the problem, the federal Mine Safety and Health Administration is dispensing \$3.9 million in grants to 13 states to establish an electronic system of digitizing maps of abandoned coal mines. The sum includes \$52,000 to create digital records of Utah mining operations, particularly those that have nibbled away for a century on the seams within the Wasatch Plateau, Book Cliffs and Emery coal fields

"Missing or inaccurate mine maps, along with undetectable mine voids, present a significant threat to the safety of working miners in America today," said MSHA director Dave Lauriski, a Utah native

That became clear in July 2002 when miners at the Quecreek Mine near Somerset, Pa., broke into an abandoned mine tunnel thought to be far away based on an inaccurate old map that had filled with water over the years. The underground flood that was unleashed trapped nine miners for three days before they were rescued

A month later, miners in Canyon Fuel Co.'s Dugout Canyon Mine encountered water seeping through the walls of a tunnel they were excavating deep beneath Carbon County

HRO PC 001224

12/29/2003

1150

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER PARTNERS, LLC; and SPRING CANYON ENERGY, LLC,	)	Deposition of.
	)	<u>Lois Banasiewicz</u>
Plaintiffs,	)	Volume I
)	
vs)	
	)	Civil No. 050903412
PACIFICORP, JODY L. WILLIAMS and HOLME ROBERTS & OWEN, LLP,	)	Hon. Tyrone E. Medley
)	
Defendants.)	

CONTAINS CONFIDENTIAL INFORMATION PURSUANT TO
CONFIDENTIALITY AGREEMENT

August 1, 2006 * 9:19 a.m.

Location: Anderson & Karrenberg
50 West Broadway, Suite 700
Salt Lake City, Utah

Reporter: Susette M. Snider, CSR, RPR, CRR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street Suite 300
Salt Lake City Utah 84101

1 Q. (By Mr. Badger) What did you overhear?

2 A. I overheard a time and arrangement for
3 that meeting to take place. I don't believe that
4 there were any details discussed regarding our
5 project that -- only that PacifiCorp had an interest
6 to have a meeting with us. That's my general
7 recollection.

8 Q. When did the first meeting occur?

9 A. That was in August 22nd.

10 Q. Of 2002?

11 A. Of 2002.

12 Q. Were you present?

13 A. I was present.

14 Q. Where did it take place?

15 A. It took place at the PacifiCorp
16 headquarters on Multnomah, M-u-l-t --

17 MR. BADGER: n-o-m-a-h.

18 THE WITNESS: -- Multnomah, yeah, Avenue,
19 in their offices there.

20 Q. (By Mr. Badger) Besides you, who was
21 present?

22 A. From USA Power, Ted Banasiewicz and Dave
23 Graeber, and from PacifiCorp, Rand Thurgood, Ian
24 Andrews, Jim Schroeder, Stacey Kusters. And there
25 were three other individuals that I can't recall

7/16/06

1 their names.

2 Q. PacifiCorp people?

3 A. Yes.

4 Q. You're sure Ian Andrews was there?

5 A. Um-hum. Excuse me. I wanted to say yes.
6 I was taking a drink then.

7 Q. Can you tell me what was discussed during
8 that meeting?

9 A. We gave an overview of our Spring Canyon
10 Energy project and gave an overview as far as what
11 our intention was with our project at this point, and
12 that was to find a partner that would want to
13 participate in a 50-percent participation, investment
14 equity, to further our development efforts.

15 Also, we -- we discussed our -- we
16 discussed our -- that -- our desire to enter into a
17 power purchase agreement to purchase up to 50 percent
18 of the facility.

19 We also discussed the fact that we wanted
20 to have a CA in place, confidentiality agreement in
21 place, so that we could further our discussions in
22 detail.

23 Q. Did you take the confidentiality agreement
24 with you?

25 A. Yes, we did.

1 Q. Did PacifiCorp sign it?
2 A. Not at this meeting, no.
3 Q. Was it handed to someone?
4 A. It was handed to Rand Thurgood.
5 Q. How do you know that?
6 A. I saw it.
7 Q. Who handed it to him?
8 A. I believe Ted Banasiewicz handed it to
9 him. I -- Ted or Dave handed it to him, but I saw
10 Rand take it.
11 Q. Did you give anyone at PacifiCorp any
12 materials?
13 A. No, we did not.
14 Q. Did you have materials?
15 A. We did.
16 Q. What did you have?
17 A. We had Volume 1 of the Preliminary
18 Offering Memorandum, the one that we showed Jody in
19 our last meeting with her.
20 Q. And then when was the next meeting? Was
21 that on September 11th?
22 A. Yes, the next meeting was on September the
23 11th.
24 Q. Who was present?
25 A. From USA Power, myself, Ted Banasiewicz

1 and Dave Graeber. From PacifiCorp, Rand Thurgood,
2 Ian Andrews and Stacey Kusters via telephone.

3 Q. Where did the meeting take place?

4 A. It took place here in Salt Lake City at
5 the PacifiCorp offices.

6 Q. How long did the meeting last?

7 A. I think the meeting lasted approximately
8 two hours and then followed up with a lunch meeting
9 with Rand Thurgood immediately afterwards for another
10 hour.

11 Q. Where?

12 A. At the New Yorker.

13 Q. Did Mr. Thurgood sign the confidentiality
14 agreement that day?

15 A. That was the first item on the agenda,
16 yes.

17 Q. Did you witness him signing it?

18 A. I did witness him signing it, and I also
19 witnessed Mr. Graeber signing it.

20 Q. Did anyone from your group give PacifiCorp
21 any materials?

22 A. Yes.

23 Q. What did -- what was given to them?

24 A. Volume 1 and Volume 2 of our Preliminary
25 Offering Memorandum. And Ted Banasiewicz handed

1 those to Rand Thurgood and verbally told Rand to keep
2 this confidential, and he agreed to do that, verbally
3 and in writing.

4 Q. Were they in three-ring binders?

5 A. They were.

6 Q. How thick were the binders?

7 A. They were pretty thick. I think the first
8 one was probably about that thick.

9 Q. What would you say, two, two and a half
10 inches?

11 A. Maybe a little bit bigger than that. And
12 the second one was a little bit smaller.

13 Q. So they weren't the same size?

14 A. No, I don't believe they were.

15 Q. What color were they?

16 A. I believe they were white.

17 Q. Who put the --

18 A. Just to make something clear, we did -- we
19 did provide blue binders as well. We did have blue
20 binders. But as a rule, we provided white binders.

21 Q. You've lost me. In this meeting --

22 A. It was two binders, white, as far as I
23 know at this time.

24 Q. Was there -- did Ted give Rand one copy of
25 Volume 1 and one copy of Volume 2?

1 A. Yes.

2 Q. Who put those binders together? Was it
3 you?

4 A. Yes, I did.

5 Q. Were the binders, to the best of your
6 knowledge, ever supplemented?

7 A. Volume 1 and Volume 2 stood on their own.
8 Any supplement was provided in Volume 3.

9 Q. Let me hand you what's previously been
10 marked as Exhibit 10. We have that big, thick,
11 volume of exhibits in front of you Mr. Call has been
12 kind enough to -- thumb through that to Exhibit 10.
13 Identify Exhibit 10. That's Volume I, isn't it?

14 A. This is Volume 1 of the Preliminary
15 Offering Memorandum.

16 Q. And then go to Exhibit 11, if you would.

17 A. Um-hum.

18 Q. And this is Volume 2?

19 A. Yes, this is Volume 2 dated September '02.

20 Q. And it's your testimony that both of these
21 what we've marked now as Exhibit 10 and 11 were given
22 to Mr. Thurgood on September 11, 2002, true?

23 A. True.

24 Q. Pardon me for just a minute.

25 A. Sure.

1 connecting with -- with the Mona Substation, as I
2 understood it.

3 Q. When was the next meeting at which you
4 were in attendance with PacifiCorp?

5 A. That was in October 2003.

6 Q. Where did the meeting take place?

7 A. That took place also in Portland, Oregon.

8 Q. Who was present?

9 A. From USA Power, Ted Banasiewicz, Dave
10 Graeber, myself. From Quixx Corporation, Mel Murphy,
11 Scott Gross, Dave Olive. We had a gentleman from
12 EIF, Energy Investors Fund, and I don't recall his
13 name because it was the first I had met that
14 gentleman. From PacifiCorp, Mark Tolman, Jim
15 Schroeder, I believe her name is Diane Keloff -- I
16 don't know the spelling of that -- and Howard Freeman
17 via phone conference. And there was one other
18 gentleman. I don't recall his name, but he was -- I
19 believe he was involved with the economic pro formas.

20 Q. What was said during that meeting?

21 A. Oh, also one other individual from counsel
22 who represented Quixx Corporation. His name was Joel
23 Howard.

24 Q. What was said during that meeting?

25 A. What was discussed was our bid that

1 PacifiCorp had shortlisted. Jim Schroeder called
2 that meeting to have us come to PacifiCorp in
3 Portland to further discuss and negotiate our -- our
4 bid for the Spring Canyon Energy project.

5 Q. Can you tell me what was said?

6 A. We discussed the performance of the bid of
7 Spring Canyon Energy. We discussed the O&M costs for
8 running a facility with unlimited starts and stops
9 and what that did to the economics. We discussed the
10 time line of an EPC contractor. We talked about the
11 time line as far as the engineering and the scope of
12 work. PacifiCorp understood the need to release an
13 engineer, an EPC contractor, on this job in order to
14 meet the '05 deadline, summer of '05 deadline.

15 Q. How do you know what PacifiCorp
16 understood?

17 A. PacifiCorp said -- Jim Schroeder stated
18 that because of the lag of time of PacifiCorp, that
19 in order for a facility to be online by 2005,
20 engineering, preengineering and engineering -- we
21 call it preliminary engineering work, needed to be
22 accomplished in order to meet that deadline.

23 Jim Schroeder also stated that PacifiCorp
24 was willing to enter into a binding MOU with a
25 breakup fee, and that was so that a group such as

1 ours could release our EPC contractor to start on the
2 preliminary engineering of the Spring Canyon Energy
3 project.

4 Jim Schroeder also requested from Spring
5 Canyon Energy a time line, a scope of work that would
6 take to accomplish the EPC, preliminary engineering,
7 assign that for us to obtain and provide to
8 PacifiCorp, as well as assigned the task of taking
9 the first draft on the memorandum of understanding.

10 And the breakup fee was to compensate for
11 any expenses incurred for the preliminary engineering
12 and also to secure equipment on the market.

13 In addition to that, there was a
14 discussion regarding the EIF, who they were, their
15 credibility, what their business was. The gentleman
16 from EIF provided in conversation the net worth of
17 EIF and listed projects that they had accomplished
18 and -- by providing equity.

19 Also it was discussed Quixx' experiences
20 with owning and operating a gas-fired facility and
21 maintaining it, and Quixx also provided PacifiCorp
22 with their resumé of projects that they have online
23 and are successfully operating and own.

24 We discussed the terms of a PPA. We again
25 asked our option of extending the PPA for two

1 additional five-year periods after the 20-year period
2 was concluded. That was denied.

3 Scott Gross from Quixx offered to sell
4 PacifiCorp the Spring Canyon Energy project for \$1
5 after that 20-year term was completed.

6 We discussed liquidated damages. The
7 gentleman whom -- I cannot remember his name, asked
8 if we considered running in a simple cycle. We said
9 no because the economics did not make sense.

10 And the meeting concluded by us agreeing
11 to take on the tasks of the first draft of the
12 memorandum of understanding -- Joel Howard was going
13 to do that -- and the task of us releasing UE and TIC
14 and providing us with a scope of work and time line
15 of milestones that were needed to accomplish this.

16 The meeting concluded with PacifiCorp
17 asking for that information at a certain time, and I
18 don't remember the deadline. And we agreed that we
19 would provide that. No further negotiations took
20 place after that.

21 Q. Have you told me now everything that was
22 discussed in that meeting?

23 A. As I remember it right now, yes.

24 Q. Following that meeting in October of 2003,
25 what was the next meeting where you were present with

1 PacifiCorp?

2 A. And that's the meeting where I am not sure
3 if it was April or May of '04. I believe it was May
4 of '04, and I can confirm that through our records.

5 Q. Who was present?

6 A. Present at that meeting was -- from USA
7 Power, Dave Graeber, Ted Banasiewicz, myself. From
8 Quixx Corporation, Scott Gross and David Olive and --
9 that's all I can remember at this time from Quixx.

10 Q. Where did the -- excuse me.

11 A. And then from PacifiCorp -- I'm trying
12 to -- I'm trying to recall the PacifiCorp gentlemen,
13 names. I'll come back to that when I recall it.
14 They -- one gentleman was from Portland, Oregon, and
15 he worked for Stacey Kusters. The other gentleman
16 was in-house counsel for PacifiCorp. Mike probably
17 knows who he is.

18 Q. Is it Dean Brockbank?

19 A. Yes, Dean Brockbank. Thank you.

20 Q. Where did that take place?

21 A. That took place in Portland, Oregon.

22 Q. What was the topic?

23 A. Topic was a power purchase agreement with
24 Spring Canyon Energy for approximately a hundred
25 megawatts of power, as Spring Canyon would operate as

1 a cogeneration facility.

2 Q. Now I'd like you to walk me through your
3 understanding of the negotiations between PacifiCorp
4 and your group. My understanding is that those began
5 with Mr. Thurgood's letter of February 27, 2003.
6 Would you concur?

7 A. Okay. We're talking about that
8 negotiation going back -- I just finished talking
9 about another PPA negotiation.

10 Q. You did, and --

11 A. Okay. Let me go back to our negotiations.

12 Q. Should we put that letter in front of you
13 to start your thinking?

14 A. Absolutely. That would be great. Thank
15 you.

16 Q. Why don't we do that.

17 A. Thank you.

18 Are we finished with this phone record?

19 Q. I think so.

20 A. Okay.

21 Q. Let me hand you what's been marked as
22 Exhibit 17.

23 A. Oh, it's heavy. Thank you.

24 Q. This was Mr. Thurgood's letter to
25 Mr. Banasiewicz dated February 27, 2003, was it not?

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER PARTNERS, LLC; and SPRING CANYON ENERGY, LLC,	)	Deposition of:
Plaintiffs,	)	<u>DAVID J. BARLOW</u>
vs.	)	No. 050903412
PACIFICORP; JODY L. WILLIAMS and HOLME, ROBERTS & OWEN, LLP,	)	Judge Medley
Defendants.)	

September 6, 2006 * 9:05 a.m.

Location: Fabian & Clendenin
215 South State Street, 12th Floor
Salt Lake City, Utah 84111

Reporter: Lisa D'Elia, CSR, RPR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street Suite 300
Salt Lake City, Utah 84101

801 532.3441

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FAX 801 532 3414

1206

1 PacifiCorp in terms of gauging their interest for
2 participation, equity participation.

3 Q. At the time that a decision was made by
4 Panda to sell its project assets to PacifiCorp, would
5 it be accurate to say that Panda had been, you
6 specifically, had been working on developing a
7 project in Mona for Panda for somewhere around three
8 years?

9 A. I started work on this early -- about,
10 yeah, that's about right.

11 Q. And would it be fair to say that at the
12 time the project assets were actually sold to
13 PacifiCorp in February of 2003, that Panda did not
14 have a signed agreement either to purchase or for an
15 option to purchase water to supply the power plant
16 down in Mona, Utah?

17 A. That's correct.

18 Q. And at the time the project was sold to
19 PacifiCorp in February of 2003, would it be fair to
20 say that Panda did not have an interconnect agreement
21 with PacifiCorp relative to the Mona substation?

22 A. No. We just had the interconnection study
23 done and we did not have an interconnection agreement
24 in place.

25 Q. And let me ask you this. Based on your

1 experience relative to developing power plants, are
2 you familiar with the term the queue spot, or in the
3 queue, in a transmission facility?

4 A. Yes.

5 Q. Is it your understanding that the first
6 party with whom a transmission company contracts for
7 a power plant is considered first in the queue?

8 A. Yes.

9 Q. And what is your understanding in terms of
10 the cost of someone who comes in second in the queue,
11 whether it would be the same or whether it would be a
12 higher or lower cost, generally speaking?

13 MR. BADGER: Objection. Lacks foundation.

14 THE WITNESS: I don't know.

15 Q. (By Mr. Tomsic) You have no information
16 on that?

17 A. Well, you know, I could guess at it, but I
18 don't know definitively, you know, what that would
19 be.

20 Q. In your experience, had you learned or
21 become aware that if you were not first in the queue
22 that the cost of interconnection could increase
23 significantly?

24 MR. BADGER: Objection. Lacks foundation.

25 THE WITNESS: I guess that could be the

1 case. I'm just guessing.

2 Q. (By Ms. Tomsic) But you don't know; is
3 that what you are saying?

4 A. I'm not an expert on that aspect of it.
5 You know, if -- you know, when we -- with regard to
6 this, we would have -- I would have deferred to the
7 expertise of Pat Burnett and other people that worked
8 on the transmission group. With regard to what Panda
9 would typically do to develop a project is we would
10 try to time all of the activities like an
11 interconnection agreement, the water agreement, and
12 the options on the land, if there was a substantial
13 amount of money for land, which it generally wasn't,
14 particularly in this one, to coincide with when we
15 were going to get project financing.

16 Q. You knew, didn't you, that by not signing
17 an interconnect agreement with PacifiCorp relative to
18 the Mona substation, that another developer could
19 come in ahead of Panda and sign an interconnection
20 agreement and become first in queue?

21 A. Yes. We knew that. And with regard to
22 anybody else at Mona, USA Power in particular, I
23 viewed their -- the threats from them doing that as
24 minimal in the respect that we had the MET data. I
25 thought that was more important to us than where we

1 were in the queue.

2 Q. Had you had anyone do any financial
3 analysis of what it would cost Panda to be second in
4 the queue?

5 A. No.

6 Q. Do you know whether or not under Utah law
7 the type of MET data that Panda had, whether it would
8 have been required for a 250 megawatt facility in
9 Mona?

10 A. No. We focused on our plant, not other
11 configurations. We didn't build 250 megawatt plants
12 and so all of our studies were related to a thousand
13 megawatt.

14 Q. And do you know whether or not under Utah
15 law a developer applying, filing an NOI, could, in
16 fact, purchase air credits to obtain a permit for a
17 larger megawatt plant without MET data?

18 A. I presume that that is possible.

19 Q. Do you know that?

20 A. Not by -- not by Utah law, I don't. I may
21 have known that at one time, but, you know, it's been
22 a number of years since my doing this.

23 Q. Now, at the time Panda sold its assets to
24 PacifiCorp in February of 2003, did you have an
25 understanding as to whether Panda would have been

1 required to obtain some type of a variance or a
2 zoning change to build a power plant on its property?

3 A. Yes.

4 Q. And what was your understanding in that
5 regard?

6 A. We had worked with the county as far as
7 the zoning went and we were assured by them that that
8 was not going to be a problem, that they were very
9 supportive of everything that we needed to do with
10 regard to zoning.

11 Q. And had Panda filed anything with the
12 governmental agency requesting a change in the zoning
13 at the time it sold the assets?

14 A. Not at that point, no.

15 Q. Now, at the time that PacifiCorp purchased
16 the assets of Panda in February of 2003, had Panda
17 filed an NOI?

18 A. An NOI?

19 Q. Notice of intent.

20 A. For?

21 Q. Its air permit.

22 A. For the air permit, not as yet, no. We
23 gave -- we gathered the data. We were primed to do
24 that.

25 Q. In terms of any type of an agreement with



Utah!

Where ideas connect

Department of Environmental Quality
Division of Air Quality

FILE COPY

Michael O. Leavitt Governor	150 North 1950 West P O Box 144820
Dianne R. Nielson, Ph.D. Executive Director	Salt Lake City, Utah 84114-4820 (801) 536-4099 Fax
Richard W. Sprott Director	(801) 536-4414 T D D www.deq.utah.gov

DAQE-AN2627001-02

November 27, 2002

Ms. Lois Banasiewicz
Principal
Spring Canyon Energy, LLC.
P. O. Box 774000-359
Steamboat Springs, Colorado 80477

Dear Ms. Banasiewicz:

Re: Approval Order: Power Generating Facility With One Natural Gas Fired Combined Cycle Turbine Generator Set With Duct Burner, Juab County – CDS SM; ATT; NSPS, HAPs
Project Code: N2627001-02

The attached document is the Approval Order for the above-referenced project.

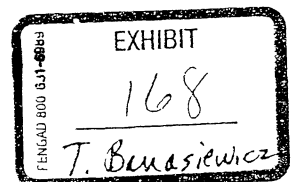
Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Ms. Milka M Radulovic. She may be reached at (801) 536-4232.

Sincerely,

Richard W. Sprott, Executive Secretary
Utah Air Quality Board

RWS.RR MR re

cc: Central Utah Public Health Department
Mike Owens, EPA Region VIII



UDAQ0001 1345

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER: POWER GENERATING FACILITY
WITH ONE NATURAL GAS FIRED COMBINED CYCLE
TURBINE GENERATOR SET WITH DUCT BURNER**

**Prepared By: Milka M. Radulovic, Engineer
(801) 536-4232
Email: milkar@utah.gov**

APPROVAL ORDER NUMBER

DAQE-AN2627001-02

Date: November 27, 2002

Spring Canyon Energy, LLC.

**Source Contact
Lois Banasiewicz
(970) 871-6223**

**Richard W. Sprott
Executive Secretary
Utah Air Quality Board**

UDAQ0002

Abstract

Spring Canyon Energy, LLC (SCE) is proposing to construct, own, and operate a new power generating facility in the Juab Valley, Juab County, just west of the Mona Reservoir. The facility will consist of one natural gas turbine generator set in a combined cycle configuration [with one heat recovery steam generator (HRSG) and one steam turbine-generator]. In addition, there will be one diesel fired emergency generator, one diesel-fired emergency fire pump, small diesel fuel storage tanks, an air-cooled condenser (to condense spent steam back into water for recycling to the HRSG), and aqueous ammonia storage and handling equipment. The HRSG duct burners will be fired with natural gas to augment waste heat from the gas turbine exhaust. The power facility will operate with a combined net maximum generating capacity of about 280 MW at 60°F. It is anticipated that the gas turbine will be purchased from General Electric with Dry Lo-NO_x combustion system. NO_x emissions from the gas turbine will be controlled to 2 ppmvd at 15% O₂ reference (by selective catalytic reduction system), CO to 4 ppmvd at 15% O₂ reference (9 ppmvd with duct firing), and ammonia slippage to 10 ppm. The turbine will not be designed to operate in a simple-cycle mode (i.e., bypassing the HRSG unit). Raw materials used at the Spring Canyon plant in addition to natural gas and air, are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

Juab County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants.

New Source Performance Standards (NSPS) 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) applies to the proposed turbine. NSPS 40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) applies to the duct burners.

Estimated annual emissions from the entire facility, in tons per year, will be as follows: 66.4 of NO_x, 97.5 of CO, 5.3 of SO₂, 70.9 of PM₁₀, 67.12 of VOC, and 5.7 tons of hazardous air pollutants (mainly formaldehyde).

Since the emissions have increased above modeling threshold levels for the NO_x, CO, PM₁₀, and formaldehyde, an air quality modeling assessment consistent with UAC R307-410-2 was performed. The US EPA and the State accepted Industrial Source Complex Short Term - Version 3 (ISCST3) model was used by the Applicant to predict air pollutant concentrations under a simple/complex terrain/wake effect situation. The modeling analysis indicated, and the State verified, that there would be no violations of NAAQS and Prevention of Significant Deterioration increments consumption for the proposed project.

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A public comment period was held in accordance with UAC R307-401-4 and comments were received. The comments were evaluated and no comment was found to be adverse to the proposed AO. This air quality Approval Order (AO) authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

UDAQ0003

7346

al Conditions:

1. This Approval Order (AO) applies to the following company:

Corporate Office Location

USA Power Partners, LLC
Spring Canyon Energy, LLC
PO Box 774000-359
Steamboat Springs, Colorado 80477
Phone Number (970) 871-6223
Fax Number (970) 871-6234

The equipment listed in this AO shall be operated at the following location:

From Salt Lake City take I-15 south approximately 77 miles to Hwy 54. Take exit and proceed west through Mona. Go ½ mile north on Goshen Canyon Road; Plant site is ½ mile to the west.

Juab County

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27
4,410.042 kilometers Northing, 422.81 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
 - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
 - B. All other records Two years
6. Spring Canyon Energy, LLC shall install and operate one natural gas fueled combined cycle turbine generator set with duct burner and ambient air inlet chiller with maximum combined rating of approximately 280 MW, one diesel fired emergency generator rated at 700 bhp, one diesel fired fire pump rated at 250 bhp, and miscellaneous small diesel

fuel storage tanks (each with storage capacity of less than 10,000 gallons) at the Spring Canyon Energy power generating facility in accordance with the terms and conditions of this AO, which was written pursuant to Spring Canyon Energy, LLC's Notice of Intent submitted to the Division of Air Quality (DAQ) on August 13, 2002 and additional information submitted to the DAQ on August 15, 2002, August 29, 2002, September 18, 2002, September 26, 2002, and October 10, 2002.

7. The approved installations shall consist of the following equipment or equivalent*:

- A. One (1) General Electric Frame 7-FA (PG7241FA)* gas turbine, with one (1) HRSG, and one (1) steam turbine generator set.

The gas turbine is provided with ambient inlet air chiller coils. The Heat Recovery Steam Generator (HRSG) is equipped with a Selective Catalytic Reduction System for abatement of NO_x emissions from the Duct Burner and the Gas Turbine. Continuous Emission Monitoring System (CEMS) for the HRSG stack is provided for monitoring emissions from the gas turbine and duct burners. The power generating facility has the following characteristics:

Maximum plant site rated output at 100% Load,
 0°F, 12.19 psia and 25% relative humidity: 280 MW
 Heat input at the baseload, ISO (59°F, site elevation): 1,472.9 x Btu/hr (HHV)***
 Maximum gas turbine firing rate: 1,621.5 x 10⁶ Btu/scf (HHV)

- B. One (1) Coen Power Plus* duct burner state of the art, low emission technology Coen Power Plus* (subject to 40 CFR 60, Subpart Da)
 Maximum firing rate: 520 x 10⁶ Btu/hr (HHV)
- C. One (1) Diesel Fired Emergency Generator rated at 700 bhp
- D. One (1) Diesel Fired Emergency Fire Pump rated at 250 bhp
- E. Miscellaneous diesel fuel storage tanks, each individual tank storage capacity is less than 10,000 gallons
- F. One (1) Dry type air-cooled condenser.**

* Equivalency shall be determined by the Executive Secretary.

** This equipment is listed for informational purposes only. There are no emissions from this equipment.

***Fuel Higher Heating Value

8. Spring Canyon Energy, LLC shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition #7 has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If construction and/or installation have not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

Limitations

9. Visible emissions from the following emission points shall not exceed the following values:
- A. Natural gas combustion exhaust stacks - 10% opacity
 - B. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

10. The following limits shall apply:
- A. Gas Turbine, Stack Height - no less than 295.27 feet (90 meters) as measured from the ground
 - B. Gas Turbine, Stack Exit Diameter - not greater than 17 feet

11. Combined source wide CO emissions shall be no greater than 97.5 tons per rolling 12-month period.

Compliance to the above emission limitation shall be determined as follows:

CO from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in the EPA reference Method 19 or other procedure approved by the Executive Secretary).

CO from the emergency generators shall be obtained by multiplying the engine rating, recorded hours of operation and emission factors from the Vendor data if available or EPA' s Compilation of Air Pollutant Emission Factors, AP-42

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation. For emergency generator and the emergency fire pump hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of consumption/production shall be kept on a daily basis.

12. Combined emission rate of PM₁₀+ NO_x + SO₂ shall not be greater than of 780.72 lb per any rolling 24-hour average at the stack exhaust (turbine and the duct burner)
Compliance to the above emission limitation shall be determined as follows:

NO_x from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in EPA reference Method 19 or other procedure approved by the Executive Secretary).

PM₁₀ from the gas turbine and the duct burner shall be from the latest emission test recorded data.

SO₂ from the gas turbine and the duct burner shall be from the latest emission test or if testing is not required by the other alternative method as approved by the Executive Secretary or Administrator.

To determine compliance with rolling 24-hour total the owner/operator shall calculate average hourly rate and sum them over 24-hour period. New 24-hour total shall be calculated by the noon of the next day. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation.

13. Emergency generators shall be used for electricity producing operation only during the periods when electric power from the public utilities is interrupted, or for regular maintenance of the generators. Records documenting generator usage and fire pump usage shall be kept in a log and they shall show the date the generator was used, the duration in hours of the generator usage, and the reason for each generator usage.

Fuels

14. The owner/operator shall use only natural gas, as fuel in the gas turbine and duct burner; fuel oil #2 or better in the emergency generator and the fire pump.

15. The sulfur content of any fuel oil or diesel burned shall not exceed:

0.5 percent by weight for diesel fuels

The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of other fuels shall be either by USA Power, LLC's own testing or test reports from the fuel marketer

Federal Limitations and Requirements

16. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18, Subpart GG, 40 CFR 60.330 to 60.334 (Standards of Performance for Stationary Gas Turbines) and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.
17. In addition to the requirements of this AO, all applicable provisions of 40 CFR Part 72, 73, 75, 76, 77, and 78 Federal regulations for the Acid Rain Program under Clean Air Act Title IV apply to this installation.

Limitations and Tests Procedures

18. Emissions to the atmosphere from the indicated emission points shall not exceed the following rates and concentrations:

Source: Turbine GE Frame 7-FA (PG7241FA)) and Duct Burner Exhaust Stack

<u>Pollutant</u>	<u>ppmvd*</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd**</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd</u> (15% O ₂ dry)
NO _x	2.....	2.....	***
CO.....	4.....	9.....	NA

*Total emissions concentration from the gas turbine under steady state operation not including startups and shutdowns

**Combined emissions concentration from the gas turbine and the duct burner under steady state operation not including startups and shutdowns

*** Emissions from the gas turbine (in accordance with 40 CFR 60 Subpart GG requirements)

19. Emissions testing, and compliance monitoring to the atmosphere from the duct burner shall be performed in accordance with all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.

20. Stack testing to show compliance with the emission limitations stated in the above condition shall be performed as specified below

<u>A.</u>	<u>Emissions Point</u>	<u>Pollutant</u>	<u>Testing Status</u>	<u>Test Frequency</u>
	Gas turbine only	NO _x	*, **	CEMs
		CO	*	CEMs
	Gas turbine & duct burner	NO _x	*	CEMs
		CO	*	CEMs
	Gas turbine	PM ₁₀	***	NA
	Gas turbine & duct burner	PM ₁₀	****	NA
	Duct Burner	*****		

*Initial compliance shall be demonstrated with Relative Accuracy Testing Audit.

**Initial compliance testing for NO_x for the gas turbine shall be performed in accordance with the 40 CFR 60 Subpart GG.

, *Initial test to establish emission rate value for the calculations in the Condition #12

***** Initial compliance testing for the Duct Burner shall be performed in accordance with the 40 CFR 60 Subpart Da.

Initial compliance testing shall be performed within 60 days after achieving the maximum production rate at which the affected facility will be operated and in no case later than 180 days after the start up of a new emission source.

B. Notification

The Executive Secretary shall be notified at least 30 days prior to conducting any required emission testing. A source test protocol shall be submitted to DAQ when the testing notification is submitted to the Executive Secretary.

The source test protocol shall be approved by the Executive Secretary prior to performing the test(s). The source test protocol shall outline the proposed test methodologies, stack to be tested, procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary.

C. Sample Location

The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

D. Volumetric Flow Rate

40 CFR 60, Appendix A, Method 2 or other testing methods approved by the Executive Secretary.

E. PM₁₀

For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201, 201a, 202 or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. All particulate captured shall be considered PM₁₀.

For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate, or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. The portion of the front half of the catch considered PM₁₀ shall be based on information in Appendix B of the fifth edition of the EPA document, AP-42, or other data acceptable to the Executive Secretary.

The back half condensibles shall not be used for compliance demonstration but shall be used for inventory purposes.

F. Calculations

To determine mass emission rates (lb/hr, etc) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the

volumetric flow rate and any necessary conversion factors determined by the Executive Secretary, to give the results in the specified units of the emission limitation.

G. New Source Operation

For a new source/emission point, the production rate during all compliance testing shall be no less than 90% of the production rate listed in this AO. If the maximum AO allowable production rate has not been achieved at the time of the test, the following procedure shall be followed:

1. Testing shall be at no less than 90% of the production rate achieved to date.
2. If the test is passed, the new maximum allowable production rate shall be 110% of the tested achieved rate, but not more than the maximum allowable production rate. This new allowable maximum production rate shall remain in effect until successfully tested at a higher rate.
3. The owner/operator shall request a higher production rate when necessary. Testing at no less than 90% of the higher rate shall be conducted. A new maximum production rate (110% of the new rate) will then be allowed if the test is successful. This process may be repeated until the maximum AO production rate is achieved.

H. Existing Source Operation

For an existing source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

Monitoring - Continuous Emissions Monitoring

21. The owner/operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides, oxygen and carbon monoxide emissions discharged to the atmosphere from each turbine stack and record the output of the system. The monitoring system shall be used for measuring and determining compliance. The continuous monitoring system shall comply with applicable provisions of UAC, R307-170 and applicable Federal regulations for the Acid Rain Program under Clean Air Act Title IV.
22. Spring Canyon Energy, LLC shall submit for review and Executive Secretary approval CEMs monitoring plan 45 days before the turbine become operational. The plan shall address the number of monitors to be used, the method of measuring the rate in tons per hour, and the method of calculating emissions during the CEMs breakdowns.

Records & Miscellaneous

- 23. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
- 24. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
- 25. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

Under R307-150-1, the Executive Secretary may require a source to submit an emission inventory for any full or partial year on reasonable notice.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site: http://www.deq.state.ut.us/eqair/aq_home.htm

The annual emission estimations below include point source and do not include fugitive emissions, fugitive dust, road dust, tail pipe emissions, etc. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

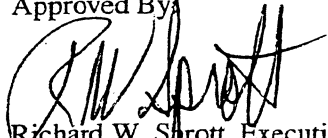
The Potential To Emit (PTE) emissions for this source (the entire plant, or specify what portion) are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	70.9
B.	SO ₂	5.3
C.	NO _x	66.4
D.	CO	97.5
E.	VOC.....	67.12

HAPs

Acetaldehyde.....	0.015
Acrolein.....	0.015
1,3 Butadiene	0.017
Benzene.....	0.17
Ethylbenzene.....	1.35
Formaldehyde	1.51
Naphthalene	0.01
PAH.....	0.002
Propylene Oxide.....	1.20
Toluene	1.12
Xylenes	0.26
Totals.....	5.7

Approved By



Richard W. Sprott, Executive Secretary
Utah Air Quality Board

FILED DISTRICT COURT
Third Judicial District

FEB 22 2008

SALT LAKE COUNTY
[Signature]
Deputy Clerk

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Attorneys for Plaintiffs and Appellants
USA POWER, LLC;
USA POWER PARTNERS, LLC;
SPRING CANYON ENERGY, LLC

IN THE THIRD JUDICIAL DISTRICT COURT OF SALT LAKE COUNTY

STATE OF UTAH

205

USA POWER, LLC, USA POWER)
PARTNERS, LLC, and SPRING)
CANYON ENERGY, LLC,)
)
Plaintiffs and Appellants,)
)
vs.)
)
PACIFICORP, JODY L. WILLIAMS and)
HOLME, ROBERTS & OWEN, LLP,)
)
Defendants and Appellees.)
)
)

JOINT NOTICE OF APPEAL

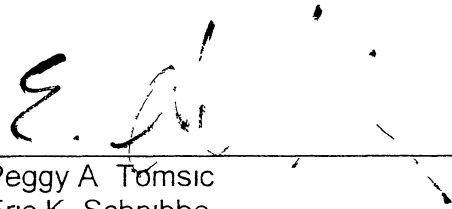
Civil No. 050903412
Judge Tyrone E. Medley

8147

Notice is hereby given that Plaintiffs USA Power, LLC, USA Power Partners, LLC, and Spring Canyon Energy, LLC jointly appeal to the Utah Supreme Court the final orders entered in the Third Judicial District Court, Judge Tyrone E Medley The appeal is from the entire judgment, which became final for purposes of appeal no sooner than January 25, 2008, together with all intermediate orders and events, including, but not limited to, the following the district court's ruling, entered October 15, 2007, the district court's Order, entered October 24, 2007, and the district court's Order, entered October 25, 2007

DATED February ²²__, 2008

TOMSIC & PECK ^{LLC}



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Attorneys for Plaintiffs and Appellants
USA POWER, LLC,
USA POWER PARTNERS, LLC,
SPRING CANYON ENERGY, LLC

Tab 3

0500-0M J-18

IN THE THIRD JUDICIAL DISTRICT COURT
IN AND FOR SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC,	:	Case No. 050903412 MP
	:	
Plaintiff,	:	Appellate Case No. 20080176-SC
	:	
v	:	Volume I of II
	:	
JODY L. WILLIAMS, et al.,	:	
	:	
Defendant.	:	With Keyword Index

MOTION HEARING ON SEPTEMBER 24 & OCTOBER 2, 2007

BEFORE

THE HONORABLE TYRONE E. MEDLEY

FILED DISTRICT COURT
Third Judicial District

APR 24 2008

By bm SALT LAKE COUNTY
Deputy Clerk

CAROLYN ERICKSON, CSR
CERTIFIED COURT TRANSCRIBER
1775 East Ellen Way
Sandy, Utah 84092
801-523-1186

ORIGINAL

8167
|

1 THE COURT: I don't, not at this point.

2 Ms. Tomsic?

3 MS. TOMSIC: Your Honor, while my media is warming
4 up, I want to start out - and I think it is very important,
5 Your Honor, to keep something in mind here with all due
6 respect to Mr. Karrenberg, this is a Motion for Summary
7 Judgment and the real issue before this Court is whether the
8 plaintiffs have presented evidence from which a jury could
9 find that, in fact, Ms. Williams had confidential information
10 she gained through her representation and from which a jury
11 could find that Mr. Williams either used or disclosed
12 confidential information without USA Power's consent. That's
13 the issue before the Court.

14 And Your Honor, I want to start with the issue of
15 whether she had confidential information and the reason I
16 want to do that, while Mr. Karrenberg didn't specifically
17 address that in his motion, is I think the fact that Holme
18 Roberts and Ms. Williams have moved for summary judgment on
19 that ground that Ms. Williams, who, there is evidence in this
20 record from which a jury could find that she represented USA
21 Power for over two and a half years and did so with regard to
22 their power plant development in Northern Utah, Spring
23 Canyon, did not, during that two and a half years and
24 \$100,000 acquire any confidential information. I think it's
25 important because it shows you the tone and the

1 characterization of this record of having no evidence. And
2 again, they're claiming no evidence, Your Honor, and it is
3 not our burden as plaintiffs to come in and disprove every
4 defense that Holme Roberts and Ms. Williams present. The
5 question is - and I don't want to minimize the record we've
6 put in because the record is substantial as Your Honor is
7 aware of, unfortunately from having to read it, whether there
8 is a fact, a piece of testimony or a document or an inference
9 from a document from which a jury could find one, that Ms.
10 Williams - and if you don't mind Your Honor, just to shortcut
11 this I'm going to refer to Ms. Williams and Holme Roberts as
12 Ms. Williams.

13 THE COURT: That's fine.

14 MS. TOMSIC: Whether they had confidential
15 information and whether there is evidence presented from
16 which a jury could find that Ms. Williams either used it
17 herself in representing Pacific Corp or disclosed that
18 information, Mr. Karrenberg's entire argument is predicated
19 on his position that to demonstrate a breach of
20 confidentiality claim, the only basis for doing it is to show
21 the actual imparting of confidential information and that's
22 not the law.

23 The question is, did Ms. Williams use information
24 she had during the course of - that she acquired during the
25 course of representation without my client's consent or,

1 or/and did she disclose it to Pacific Corp? It's a two-part
2 question, Your Honor, and second, when I get to the issue of
3 what is the law in Utah with regard to proving disclosure?
4 Mr. Karrenberg again, with all due respect, misstates the
5 Kilpatrick case and I know that unfortunately because I was
6 there trying it for three months and I want to address that
7 when I get there.

8 But the first thing I want to do, Your Honor, is as
9 you know, their two grounds as I said are there's no evidence
10 that she obtained information or that she communicated or
11 used it. I mean in their motion at least they acknowledge
12 it's a two-part test. Well, Your Honor, there's no question
13 that as a fiduciary, attorneys have a legal duty to preserve
14 the client's confidences and to disclose any material matters
15 bearing upon the representation of the client. What is
16 important before you even begin to look at the evidence
17 presented both by the plaintiffs and the defendants on this
18 motion is what the heck is confidential information and in
19 their moving papers and their memorandum, you will notice
20 that Ms. Williams' lawyers have narrowed the scope of
21 confidential information to what was actually said to Ms.
22 Williams. Well, even under that standard we could
23 demonstrate an issue of fact but the point is, that is not
24 what confidential information is for purposes of the
25 attorney/client relationship and breach of the fiduciary

1 duty.

2 Confidential information extends not only to
3 matters communicated in confidence by the client but also to
4 all information relating to the representation, whatever its
5 source. That's what we're talking about here. And, Your
6 Honor, confidential information just relying on the sources,
7 legal sources that define what constitutes confidential
8 information saying it includes all information whether in
9 oral, documentary, electronic or other forms; information
10 gathered from any source including sources not protected by
11 the attorney/client privilege; work product that the lawyer
12 develops in representing the client whether or not the
13 information is immune from discovery; information a lawyer
14 learns personally or through an agent. Judge, that's what
15 we're talking about here.

16 Now let's look in terms of that definition, have
17 the plaintiffs presented evidence from which a jury could
18 find that Ms. Williams had confidential information? Your
19 Honor, there is a dispute but there is evidence as to the
20 scope of Ms. Williams' representation, and it's important
21 here because there is a clear record in this case that Ms.
22 Williams represented USA Power with regard to its development
23 of a power plant in Mona, Utah, the Spring Canyon plant. It
24 was a broad, enduring representation that started before Mona
25 was selected and went all the way through - and you've seen

1 the bills - it went through until September 2003 and
2 according to her own information sheet, her representation
3 was with regard to a power plant and the Retainer Agreement
4 itself demonstrates the breadth of her representation. She
5 agreed to represent them on advising about business
6 strategies, advising about transaction structures,
7 negotiating and preparing agreements, drafting filings and
8 pleadings, researching legal issues and relevant facts,
9 preparing for and participating in hearings and conferences
10 and a variety of other matters. There is no limitation in
11 that Retainer Agreement with regard to the services she would
12 provide. And that's important because not only did she agree
13 she was their lawyer on the power plant but the record of
14 what she actually did demonstrates the scope of that
15 representation as was noted by our ethics expert, John
16 Morris, and all you have to do is just pull out some of her
17 bills. This is one that demonstrates that she actually
18 created Spring Canyon, the entity that was to ultimately sell
19 most of the assets and would have been the entity that would
20 have been awarded the RFP.

21 Just looking at a few of her other bills. She was
22 involved - let me go back there because I think it's
23 important. You can see the breadth of it, Endangered Species
24 Act, Conference on Nephi Project, meeting with Nephi and USA
25 Power Team, zoning application, marketing book, marketing

1 letter, air credits. I mean, her representation was not
2 limited. She obtained information regarding annexation of
3 property in Mona, Utah because obviously she worked on it.
4 She obtained information regarding the option to purchase
5 real property, organizing and forming Spring Canyon,
6 obtaining Conditional Use Permit Juab, County; water rights
7 issues, business strategy, structures, selecting Mona as the
8 development site, Endangered Species Act issues, real estate
9 purchases, air permits, transmission issues, actions taken by
10 USA Power's competitor, Panda, and public relations.

11 Your Honor, it was broad representation and as Mr.
12 Banashevits testified in his deposition, the members of that
13 development team, that was the USA Power Team, always
14 included the three members of USA Power which would be Mrs.
15 Banashevits, Mr. Graber and Mr. Banashevits, membership
16 always included Ms. Williams. Those are factual records,
17 Your Honor. Mr. Karrenberg may disagree and want to convince
18 the jury to the contrary, but we have evidence of that.

19 Mr. Banashevits also testified when he was asked,
20 "And how often would you have these development meetings?"

21 "They varied throughout the development but generally
22 multiple times per month and if they were not conducted by an
23 in-person meeting, they would be conducted by a telephone
24 conference."

25 His clear testimony, they met regularly, she as on

1 the team and what did they discuss? They had these meeting
2 and Mr. Banashevits testified to discuss all the issues
3 associated with the project that were then current and to
4 determine how we would move on to the next step with each
5 issue. As he said, Your Honor, I think this sums it up, "We
6 did not make a move in Utah without asking Ms. Williams for
7 her opinion on any issue and Ms. Williams gave her opinion on
8 those issues."

9 Now the question on summary judgment Judge, just
10 looking at the issue of did she have confidential information
11 is have we presented one inference, one document or sworn
12 testimony suggesting Williams, HRO received information
13 relating to the representation of USA Power whatever its
14 source. There is no question we have met that burden.

15 Now, Mr. Karrenberg argues that it's undisputed
16 that the information that plaintiffs now claim is
17 confidential, clearly was not. Plaintiffs have not shown
18 that the unspecified information Williams supposedly obtained
19 was not generally known to the public. There's a problem
20 with that, Your Honor. That's their defense, it's not us
21 putting on the confidential information and that's clear from
22 Utah cases that we do not have to disprove their factual
23 defenses but more importantly, they get it wrong in terms of
24 what is generally known information and whether or not we
25 have presented evidence to go to a jury, even if we had

1 disputed it as to whether it was generally known and the
2 question is whether - first of all it depends on all the
3 circumstance relevant in obtaining the information. You've
4 got to look at everything to determine whether or not it was
5 disclosed.

6 But more important, the definition of whether or
7 not it is generally available or public information - and
8 this is right out of the Restatement of Law Governing Lawyers
9 which is one of the foremost authorities in this area, Your
10 Honor, "Information is not generally known when a person
11 interested in knowing the information could obtain it only by
12 means of special knowledge or substantial difficulty or
13 expense." That's the standard, Your Honor. And the record
14 in this case would permit a jury to find that in fact it took
15 substantial expense for Ms. Williams to acquire this
16 information. All we have to do is look at some of her bills.
17 Look at what she was charging USA Power to obtain this
18 information and it totals up to almost \$100,000, Your Honor.

19 And in addition our expert in reviewing this and in
20 reviewing all the time of actual development, testified or
21 had the opinion that it took substantial time and an
22 estimated \$3 million to develop the Spring Canyon project.
23 Indeed Mr. Banashevits testified that Mr. Thurgood, the
24 Pacific Corp employee with whom he had all of his dealings,
25 admitted that it took substantial time and money to get there

1 and this is Mr. Banashevits' deposition. He testified,
2 "Thurgood felt that we have attained a competitive advantage
3 that would take him two to three years to duplicate and
4 several million dollars." Those are his words in that
5 meeting.

6 So, not only have we demonstrated that there was a
7 significant amount of time and money but according to Pacific
8 Corp's own witness, they admit that it's not generally
9 available information. But not only that - so the point I'm
10 at, Your Honor, is that they haven't even established that
11 it's undisputed, uncontroverted; that it's generally
12 available information. Even if we had to meet that burden
13 they haven't demonstrated that the information that Ms.
14 Williams had would meet that definition.

15 Second, when USA - or excuse me, when Williams and
16 Holme Roberts asserted it's undisputed - and again remember
17 they're saying it's undisputed that USA Power's air permit
18 application and water application made everything Williams
19 learned public knowledge. Again, that's their defense and
20 they haven't established it. It's literally impossible.

21 The air permit was filed on August 16 and at the
22 very latest in 2002. According to Ms. Williams, the water
23 change application was filed in September of 2002. Well,
24 let's look at the dates of these bills and I'm just picking a
25 couple. This is after we supposedly revealed everything in

1 our air permit. This is after we supposedly revealed
2 everything. All you have to do is just go through these
3 bills and you will see that it's literally impossible that
4 those permits disclosed everything that she knew that was
5 confidential information. And what isn't included within
6 those that is confidential that Ms. Williams had is the
7 negotiating history with potential water rights sellers in
8 Juab County including the level of interest, price levels and
9 psychological barriers. The public relation history with
10 local officials in Juab County necessary to garner public
11 support for the project, the negotiating of procedural
12 history to have real property in Juab County rezoned. And it
13 goes on and on and on and on, Your Honor. I'm just going to
14 skip over these. There's plenty of evidence in this record.

15 The fact that we shared our confidential
16 information with Pacific Corp subject to a strict
17 Confidentiality Agreement doesn't embrace the confidential
18 nature of the information Ms. Williams had and let me tell
19 you why. First of all, when you have a situation where you
20 have a lawyer representing you and she has got confidential
21 information and you take some of that information and
22 disclose it to a party pursuant to a Confidentiality
23 Agreement that requires them to maintain the confidentiality,
24 it does not mean that your lawyer can then go out and
25 disclose and use the information. That would be absurd and

1 there's not a single case that Mr. Karrenberg has cited for
2 that proposition.

3 But more importantly, the record demonstrates that
4 before USA Power met with Pacific Corp and gave them
5 confidential information, they met with Ms. Williams and
6 talked to her about the fact they were going to disclose this
7 confidential information, some of their confidential
8 information to Pacific Corp and as Ms. Banashevits testified,
9 she, being Ms. Williams, made sure that we were going to have
10 Pacific Corp sign a Confidentiality Agreement before we
11 provided that information. So Ms. Williams herself knew that
12 the existence of the Confidentiality Agreement was critical
13 and that nothing was going to be disclosed to Pacific Corp
14 without - and she knew that agreement and that disclosure
15 did nothing to impact whether her information was
16 confidential. These are the notes of her meeting showing
17 that they discussed the Confidentiality Agreement.

18 The law, Your Honor, moreover, is that a lawyer may
19 not use even publically known information to the detriment of
20 a current client, whether to further a personal interest of
21 the lawyer or to further the interests of another client.

22 Now I want to turn to the element that Mr.
23 Karrenberg spent most of his time in oral argument on and
24 that is that there is no evidence in this record from which a
25 jury could find that Ms. Williams used or disclosed

1 confidential information of USA Power without its consent.
2 And the first point that they hang their hat on is that Ms.
3 Williams has affirmatively testified that she did not
4 disclose any confidential information to any plaintiff to
5 Pacific Corp. Well, Your Honor, if you look at her
6 testimony, not her affidavit drafted by her lawyers, but her
7 testimony when I asked her at her deposition whether she had
8 discussed anything about USA Power - and this is just at the
9 first meeting with Pacific Corp - and this is her response,
10 "In trying to recall the events of 3-4-03," and that's the
11 date where there was the first in-person meeting with Rand
12 Thurgood that we're aware of, "I do not recall discussing the
13 quantity of water for Power Partners plant." She refers to
14 them as Power Partners but it's USA Power. "And I can't tell
15 you if for sure it wasn't discussed." So when she is under
16 oath and in a deposition, she can't even testify whether she
17 talked about USA Power."

18 THE COURT: Excuse me. If you don't have this on
19 your presentation, that's fine, that is an answer, correct?

20 MS. TOMSIC: Yes, it is.

21 THE COURT: Do you have the question up there?

22 MS. TOMSIC: I don't have it but I've got the
23 deposition.

24 THE COURT: That's fine. I know it exists. I just
25 wanted to know if you had it.

1 MS. TOMSIC: I don't have it on here.

2 THE COURT: Okay, go forward.

3 MS. TOMSIC: Now the other thing that's important,
4 Your Honor, is not only does Ms. Williams' own testimony
5 dispute that she never discussed any confidential information
6 with Pacific Corp but Pacific Corp's documents demonstrate to
7 the contrary and I want to start out with the notes of Ian
8 Andrews -

9 MR. KARREBERG: Objection, Your Honor. I need to
10 object at this point. This is a supplemental affidavit and
11 there's no foundation for these documents. In fact, these
12 are not notes of Ian Andrews so counsel has just made a
13 misstatement of fact but there's a motion on this.

14 THE COURT: That was going to be my question. When
15 was that - give me the title of the motion.

16 MR. KARREBERG: They filed a Motion to File a
17 Supplemental Affidavit of Peggy Tomsic which was - and these
18 exhibits were attached to it. Both parties have opposed it.

19 THE COURT: And it's been submitted to me for a
20 decision?

21 MR. KARREBERG: Yes, I think in a motion.

22 THE COURT: I've not considered that motion at this
23 point.

24 MR. KARREBERG: Right.

25 THE COURT: I'm going to allow her to make her

1 argument and allow this argument subject to the Court ruling
2 on that motion.

3 MR. KARREBERG: Thank you, Your Honor.

4 THE COURT: Go ahead.

5 MS. TOMSIC: Thank you. And, Your Honor, just in
6 addressing that, I want to demonstrate here, regardless of
7 how Your Honor rules on our supplemental affidavit, we've
8 already put evidence in the record to demonstrate basically
9 the same points but this just clarifies and I think ties this
10 up very well and that is these are handwritten notes, at
11 least they come out of a notebook that was identified by
12 Pacific Corp as Ian Andrews notes. It says, "Jody Williams,
13 possibilities. Don Jones, north of Nephi, \$4000 plus, Utah
14 Lake" I can't read that word, "pipeline to project, Nephi
15 Irrigation Company for their water, \$4000." So according to
16 the Pacific Corp's own notes Jody Williams is discussing
17 possibilities with Pacific Corp in February of 2003 while
18 she's representing USA Power about possible sources of water
19 for Current Creek. She identifies Don Jones, she identifies
20 the amount and she identifies Nephi Irrigation Company and
21 \$4000. And why is that significant, Judge? Because the
22 agreement that she negotiated with the people from whom USA
23 Power bought, in this case, Mr. Garrett, Mr. Keats and Mr.
24 Garrett was for \$4000. Now the record in this case is that
25 that amount, the amount you pay for water was confidential

1 information. It was not public information. You can't go
2 down to the public recorder's office and say, "Oh gee, how
3 much did they pay?" In fact, Mr. Banashevits testified in
4 his deposition that in fact the price of water was something
5 that they agreed with the sellers they would not disclose and
6 if you look, just comparing those, the amount that she's
7 telling Pacific Corp in February is the amount that she had
8 negotiated. That is a disclosure of confidential
9 information. But that's not the only evidence Your Honor.
10 This is not in my supplemental affidavit. This is in the
11 record before Your Honor, when Rand Thurgood sought to obtain
12 Pacific Corp's authorization to purchase water in April of
13 2003 he drafted a memorandum asking Pacific Corp and
14 explaining why the investment committee should approve it and
15 he sent a draft of this document to Ms. Williams and I showed
16 this to her in her deposition and she said, "Yes, this is the
17 document Rand was drafting and I was giving some help on."
18 Well, why is that important Your Honor? It's important
19 because when Mr. Thurgood is discussing and Ms. Williams is
20 helping him prepare a memo discussing why Pacific Corp should
21 go out and buy water, it says, "However, of more importance
22 is the current market price for water in this area. This
23 water is agricultural and it runs between \$4000 and \$4500 per
24 square foot." Well, Your Honor, Mr. Karrenberg says, "Geez,
25 we've got this other evidence that says that Ms. Williams

1 knew water was running from \$2000 to \$8000 an acre-foot and
2 we expected her to know generally what the price was."

3 Well, Your Honor, Mr. Karrenberg can argue that to
4 a jury but it does not demonstrate the exact price that was
5 paid for the water we purchased that Ms. Williams knew and
6 was confidential and it doesn't demonstrate the knowledge and
7 information she obtained in negotiating with potential
8 purchasers on our nickel, as our lawyer, in terms of what the
9 market would actually bear. That was our information, Your
10 Honor, and there is nothing in this record that demonstrates
11 that that information came from any other source. But even
12 if there was, this evidence presents an issue of fact for the
13 jury because a reasonable inference from this is Ms. Williams
14 is the source of this information.

15 In addition, Your Honor, Mr. Banashevits in his
16 deposition testified that one of the people from whom USA
17 Power purchased water, Michael Keats, called him on the phone
18 irrate and this is what Mr. Banashevits said, "Michael was
19 upset that Pacific Corp had offered to buy some water rights
20 from another water right owner in Juab County for the precise
21 amount of money that we had negotiated with him. If you
22 recall, that amount was to be kept secret and there were a
23 limited number of parties who were aware of that price."

24 And Your Honor, not only is there evidence from
25 which a jury can find that Ms. Williams disclosed

1 confidential information in terms of the price, but there's
2 clear information that Ms. Williams back in at least February
3 - we're looking at these same notes again - and disclosed the
4 people with whom she had negotiated on behalf of USA Power.
5 This isn't a question of just going down to the public office
6 and getting who owns water rights. She is identifying people
7 after she had spent a year and a half going through those
8 records and negotiating with people of people-

9 THE COURT: This is the same note that's subject of
10 the Motion to Strike?

11 MS. TOMSIC: It is, Your Honor, absolutely.

12 THE COURT: Just so I'm clear on this point because
13 I haven't considered that motion -

14 MS. TOMSIC: Fair enough.

15 THE COURT: - you're maintaining that this document
16 is someone else's notes, correct?

17 MS. TOMSIC: What I'm maintaining is this, is one
18 of the documents that Pacific Corp produced in this case -

19 THE COURT: No, this document that you're
20 displaying now is someone else's, not Ms. Williams' notes,
21 correct?

22 MS. TOMSIC: No. These are Pacific Corp's
23 documents and notes from a Pacific Corp employee.

24 THE COURT: Okay, go ahead.

25 MS. TOMSIC: And it's not only the price that this

1 demonstrates disclosure of, it demonstrates that she
2 disclosed the people that she had narrowed down as possible
3 sellers during the year and a half she had spent dealing with
4 all the possible people down in that area who might sell
5 water. So this is basically the knowledge she acquired in
6 going through that process and in the negotiation she had on
7 behalf of USA Power and this document is not in my supplement
8 affidavit, it's part of the record, this is a bill of Ms.
9 Williams with regard to her work for USA Power. You can see
10 she spent extensive time dealing with Mr. Jones on behalf of
11 USA Power for USA Power and again, this slide just
12 demonstrates, this is clearly one of the individuals she
13 spent a considerable period of time negotiating with on our
14 behalf.

15 In addition, she identifies Nephi Irrigation
16 Company and again, Your Honor, this is someone that she
17 negotiated with on behalf of USA Power.

18 Finally, Your Honor, there's also - these are Ms.
19 Williams' notes -

20 THE COURT: Just one second. Go ahead.

21 MS. TOMSIC: In addition Your Honor, these are Ms.
22 Williams notes that she took of conversations or meetings she
23 had with Mr. Thurgood and I asked her that and this is
24 Exhibit 100 as you see. "Is Exhibit 100 your handwritten
25 note?"

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"Yes.

"And was that conversation relative to your representation of Pacific Corp on a model water matter?

Yes."

And you'll see, she identifies the very person from whom we find out, or USA Power purchased water. It says, (inaudible). So Your Honor, if you look at the evidence in this record, there is clearly evidence from which a jury could find that Ms. Williams disclosed confidential information, that is information she learned during the time she represented USA Power with regard to price, with regard to real potential sellers and what their level of interest might be and what they might be willing sell the water for.

But it's not just those three individuals, Your Honor. These are Ms. Williams notes of a meeting that she attended with Kennecott on behalf of Pacific Corp and then if you look, these are her notes of a meeting that she attended on behalf of USA Power negotiating with Kennecott. She bills us for her meetings and she bills Pacific Corp for her meetings. Again Your Honor, a jury can infer from this evidence that Ms. Williams was using information she obtained during the course of her representation without my client's consent.

THE COURT: How does that last note demonstrate that?

1 MS. TOMSIC: What that demonstrates, Your Honor, is
2 that Ms. Williams spent quite a bit of time meeting and
3 negotiating with Kennecott on behalf of USA Power and then
4 when she was retained by Pacific Corp she went out and
5 negotiated with them as well and I think that what a jury can
6 reasonably conclude is that the information she gathered
7 during that process of negotiations which was all
8 confidential information and really could not be disclosed
9 without my client's consent was information that she utilized
10 in trying to develop water rights for Pacific Corp.

11 THE COURT: I was going to ask you how you can do
12 that but I guess your position is that that's sufficient to
13 support a reasonable inference?

14 MS. TOMSIC: It is, and it's not our only - it's
15 not our only piece of evidence. I think what it does is it
16 shows the litany of the few people she met with and discussed
17 with, were on the catalogue that she narrowed for us.

18 THE COURT: So, and I understand your linking all
19 these items together but you're suggesting that you can draw
20 the reasonable inference because she met with the same
21 prospective seller, let's say, on the nickel of two different
22 clients, that that's sufficient to support a reasonable
23 inference that she used or disclosed confidential
24 information?

25 MS. TOMSIC: It's more than that, Your Honor. I

1 think when you get to Kennecott, that would be an accurate
2 description. But when you look at the three people she
3 narrows it down to in those notes from Pacific Corp in
4 February -

5 THE COURT: Again, I know you're linking them
6 altogether -

7 MS. TOMSIC: Right.

8 THE COURT: - but my question - and eventually I
9 will get there, but my question is to this particular item of
10 evidence. Did I hear you correctly, you're suggesting that
11 because she had this meeting with Kennecott that she must
12 have disclosed confidential - used or disclosed confidential
13 information?

14 MS. TOMSIC: Yes, Your Honor, and I think it's more
15 the used category than that confidential.

16 THE COURT: I want you to know and when I come to
17 making this decision, I'm going to look at it all
18 collectively but I really struggle with how that can support
19 such a reasonable inference -

20 MS. TOMSIC: In the -

21 THE COURT: - particularly this note. It seems
22 like, and I'm sorry I'm cutting you off but -

23 MS. TOMSIC: No, that's okay. I don't mean to -

24 THE COURT: - I want to make sure -

25 MS. TOMSIC: - cut you off.

1 THE COURT: I'm not offended by it at all. I hope
2 you aren't either.

3 MS. TOMSIC: No, certainly not.

4 THE COURT: But I'm struggling with this concept.
5 It seems like a leap to me and not sufficient to support a
6 reasonable inference, at least when you isolate this
7 particular note.

8 MS. TOMSIC: And, Your Honor, I think in all candor
9 if this was the only thing we had, I would agree with you but
10 I think what it does is it just is one more piece of
11 evidence—

12 THE COURT: Carried to the end, I mean I guess a
13 lawyer can only represent one client. I mean it would
14 certainly narrow the field of clients a lawyer would be able
15 to represent.

16 MS. TOMSIC: Well, and I think it's fair to say,
17 Judge, if our entire case was predicated on the Kennecott
18 representation, we'd be on a very thin reed.

19 THE COURT: I know it's not and I don't want to get
20 into an argument with you but you just stood before me and
21 said that this would support a reasonable inference
22 sufficient to create a genuine issue of material fact. I
23 mean, I don't think I'm miss hearing.

24 MS. TOMSIC: Not in and of itself - as linked to
25 the other items of evidence.

1 THE COURT: Okay.

2 MS. TOMSIC: I don't disagree with you if this were
3 the only thing, Judge, I would not be standing here before
4 you arguing that we have presented evidence of disclosure and
5 use of confidential information.

6 THE COURT: And again, I don't want to get in an
7 argument with you either but if you link together - and I'm
8 not saying you are, but the reason why I started this
9 dialogue with you obviously is because if you link together
10 10 facts like that, there is a risk that you're still in the
11 same position, you've not presented sufficient evidence that
12 would support a reasonable inference to create a genuine
13 issue of material fact for a jury.

14 MS. TOMSIC: And I hear you and I guess what I'm
15 willing to say, Judge, is I'm willing to throw out Kennecott
16 stuff and stand on the other.

17 THE COURT: I don't want you now to throw out -

18 MS. TOMSIC: No, all I'm saying is -

19 THE COURT: - you stood on it just a moment ago
20 before I had -

21 MS. TOMSIC: No, what I'm saying is I'm willing to
22 throw it out and make the same argument because -

23 THE COURT: All right. Okay.

24 MS. TOMSIC: Our position does not stand and fall
25 on Kennecott.

1 THE COURT: All right.

2 MS. TOMSIC: Now, the other thing is - and I will
3 get to the question of inference, but the evidence in this
4 case is sufficient for a jury to infer use and disclosure in
5 addition to the evidence of actual disclosure and the reason
6 I say that Your Honor is if you look at Mr. Banashevits
7 deposition - let me go back and get the question.

8 "Did she also develop confidential information on
9 your behalf?

10 "Yes.

11 "Did she use that information to benefit Pacific
12 Corp?

13 "Yes.

14 "What is your basis for saying so?

15 "She duplicated efforts for Pacific Corp in 20
16 percent of the time that it took her to perform those efforts
17 for us."

18 And, Your Honor, the facts bear that out. If you
19 look at when Ms. Williams first started looking for water
20 rights for Pacific Corp, it was March of 2003. In August of
21 2003 she had an agreement. The reason that's important in
22 terms of confidentiality is it's one thing if you have to
23 start at the beginning and go through everybody who may have
24 water rights, figure out what the temperature down there is
25 and get the water rights. It's another thing to take all the

1 information you learned in those negotiations, in that
2 process and immediately go to the people who you know on that
3 work, may have a real interest in what their level of
4 interest is, and if you look at how long it took her to do
5 our information, she's starting in April of 2001 and wasn't
6 able to even do an agreement until August of 2002.

7 But it's not just the water rights that's we're
8 talking about. If you look at the record before Your Honor
9 of Ms. Williams notes of the meeting she had with Mr.
10 Thurgood on the development of Current Creek, Ms. Williams
11 was really becoming part of the development team for Pacific
12 Corp as she had for USA Power. I want to just show you a
13 couple of her notes of those meetings. With her there they
14 were discussing the air permits. They were talking about the
15 integrated resource plan. They were talking about Utah
16 County being a non-attainment area and the need every five
17 years beginning in 2005 for 500 megawatts. They're talking
18 about the RFP being out. They're talking about Pacific
19 Corp's plant being the cost based alternative. They're
20 talking about emission credits and dry cooling and air
21 credits, and our expert has testified that Pacific Corp did
22 not perform any analysis of the costs and technical
23 feasibility of the use of dry cooling until May of 2003.
24 Shaw, Stone and Webster - and these are the EPC contractors -
25 submitted its cost estimates and design for the plant on or

1 about June 9, 2003. And you remember from reviewing the
2 record Your Honor that Pacific Corp submitted its bid on I
3 believe it was the 17th of July 2003. So shortly after a
4 month.

5 And what our expert concludes - and this is in the
6 record - it is work that could not have been directed or
7 completed within that 4-month period without knowledge and
8 use of plaintiffs confidential information.

9 And my point is again, there is evidence in this
10 record from which a jury could find that not only could Ms.
11 Williams not have obtained the water for Pacific Corp in that
12 period of time necessary to submit the bid but there is
13 evidence from which a jury could find that her participation
14 as a member of that development team on the exact project and
15 the exact competition for the project that she had for USA
16 Power, they can infer that she used or disclosed confidential
17 information, whether it was intentionally or inadvertent.

18 And Your Honor, Mr. Karrenberg says that under Utah
19 law there is no question that for a plaintiff to bring a
20 breach of confidentiality case, in this case, USA Power must
21 show that that lawyer actually went over and handed the
22 confidential information to the second client. Well, Your
23 Honor, the Utah Supreme Court in Kilpatrick, the Utah Court
24 of Appeals in Shaw, the Utah Supreme Court in the Gildia case
25 did not address the issue. It has not been ruled upon by a

1 court in this state whether under circumstances of adverse
2 representation from the circumstances where a lawyer does the
3 same thing for client A, does the same thing for client B,
4 those two clients at the same time are competing for one
5 contract, an inference cannot be drawn of use or disclosure.

6 And I want to just look at a couple of cases from other
7 jurisdictions and then come back to the Kilpatrick case, the
8 Shaw case and the Gildia case. Cases from other
9 jurisdictions when faced with the issue, when they had the
10 precise issue before them, said an attorney is presumed to be
11 using confidential information of a prior client - this is a
12 prior client, not even a current client - if the matter in
13 which he represented the former client is substantially
14 related to the present action. And this is a situation where
15 the Court said, Look, we're not going to hold an irrebuttable
16 presumption but we believe where you have a breach of
17 fiduciary duty case and you have a lawyer representing two
18 clients which create a conflict, a jury can presume that
19 there was use and disclosure and the defendant then can come
20 forward and put forth his defense and it's up to the jury to
21 make that decision.

22 But it's not only the cases on presumption, Judge.
23 There are cases in other jurisdictions that have squarely
24 addressed the question of inference and in this particular
25 case, the Chrysler case which is probably the cornerstone

1 case, the court held, "The evidence of a relationship or lack
2 thereof between the cases are facts that the jury may
3 consider in determining whether it should draw an inference
4 that confidential information was used. Neither party is
5 entitled to summary judgement."

6 Another case that said an inference was proper, it
7 says, "In a claim of legal malpractice a showing of a
8 substantial relationship between the matter for which the
9 attorney represented the former client and the subsequent
10 materially adverse representation may allow a reasonable
11 juror to draw the inference that the client's confidences
12 have been used against him in contravention of the attorney's
13 continuing duties of confidentiality and loyalty." And Your
14 Honor, I want to say that we have put in sufficient evidence
15 of actual disclosure and what I'm saying is, there is
16 additional evidence in this case from which a jury can either
17 presume or infer use and disclosure which I've gone through.

18 And I want to talk about the cases that Mr.
19 Karrenberg talks about and I want to talk about the Shaw
20 Resource case first and I think the most critical thing, Your
21 Honor, if you read Shaw - and I know that Mr. Karrenberg
22 represented the defendants in that case -

23 MR. KARRENBERG: Only one.

24 MS. TOMSIC: - but I think what's important from
25 that case is, Your Honor, before the court ever, ever

1 addressed the issue of confidentiality, the Court of Appeals
2 expressly held there was not adverse conflicting
3 representation. In this case there is absolutely a
4 foundation - and we'll deal with it in the breach of loyalty
5 claim - of adverse conflicting representation.

6 The second thing that's important about Shaw is in
7 Shaw, the plaintiff consented to the fact that the lawyers
8 were going to represent the other defendants. Not the case
9 here, uncontroverted.

10 And the other thing that's important, is unlike
11 Shaw, we do have evidence that Ms. Williams used or disclosed
12 plaintiff's confidential information. So the Shaw Resource
13 case, Your Honor, has nothing to do with whether the court
14 should infer or presume, excuse me, whether a jury should be
15 allowed to infer or presume use or disclosure of confidential
16 information because the court held it was an adverse,
17 conflicting representation.

18 I want to talk to you about the Kilpatrick case.
19 There's two cases. There's Kilpatrick 1 which is the Court
20 of Appeals case and the court in Kilpatrick 1 never addressed
21 the issue of confidentiality. The only issue was a question,
22 whether there was a question of fact regarding causation and
23 the court held there was and reversed the district court's
24 ground on the judgment.

25 Kilpatrick 2, there's no question there's language

1 in Kilpatrick 2 that the defendants have grasped onto and
2 frankly, if I were in their position I'd do the same thing
3 but if you read Kilpatrick 2, the supreme court did not have
4 before it the issue of whether there could be an inference or
5 a presumption. The only issue before the Utah Supreme Court
6 was whether the trial court had erred in finding that as a
7 matter of law there was an attorney/client relationship at
8 the time of these events. The supreme court said you can't
9 do that, it's an issue of fact for the jury, you've got to
10 send it back and reverse and remand it and in the course of
11 doing that, the Court said, Well, gee, this is pretty
12 complicated, let me look at a couple of things and maybe we
13 can help the trial court but there is not a ruling in that
14 case, not a holding, as to what the rule is on inference or
15 presumption.

16 More importantly, if you actually look at the
17 discussion which with all respect for them is dicta, if you
18 look at their discussion on confidential information it's
19 important to understand what the facts of that case were and
20 Mr. Karrenberg is wrong in terms of what the adverse
21 representation was and I know it because I represented Wiley,
22 (inaudible) and Fielding and I handled the trial on the
23 appeal. The issue in that case - and you can look at the
24 opinion - was whether or not my clients disclosed financial
25 information to North Star, another client, in the course of

1 negotiations between the two parties to obtain financing to
2 buy the license for Channel 13. North Star and the
3 plaintiffs were not competing for the same license. It's a
4 situation where you've got negotiations. The only claim the
5 client had in terms of confidential information was that
6 Wiley, (inaudible) Fielding gave confidential information to
7 North Star that North Star used to leverage them in the
8 negotiations and the court said when it was discussing
9 guidance, it said, Look, the only evidence that there is
10 right now is the confidential information that you the
11 plaintiffs gave to them. You've got to have more than that.
12 But the court never addressed the issue of whether, where you
13 have simultaneous advise representation of a client doing
14 everything for both parties, an inference would be proper or
15 a presumption would be proper. That is not ruled upon at
16 court and it was not presented to the court and even though
17 the supreme court said, Gee, the only evidence it seems you
18 have is evidence you gave to North Star, it said, send it
19 back to the trial court. It didn't rule as a matter of law
20 that there was no breach of the duty of confidentiality.

21 And again, unlike Kilpatrick, we have identified
22 information Ms. Williams used or disclosed that was not given
23 to Pacific Corp. And in addition, unlike in the Kilpatrick
24 case, the information that we did share was subject to a
25 strict Confidentiality Agreement which was not the case with

1 North Star.

2 The Gildea case really has nothing to do with this,
3 Your Honor. In Gildea, the Utah Supreme Court simply ruled
4 that there was no attorney/client relationship between the
5 plaintiff and the defendant. Accordingly, the defendant did
6 not owe the plaintiff any fiduciary duty whatsoever. There
7 as no analysis addressing whether a jury could infer use or
8 disclosure of confidential information based on an attorney's
9 simultaneous adverse representation. So in truth, in Gildea
10 again, the Court did not address this issue.

11 And finally, Your Honor, Mr. Karrenberg alleges -

12 THE COURT: I'll limit you to five more minutes.

13 Can you do that?

14 MS. TOMSIC: This is it.

15 THE COURT: All right, go ahead.

16 MS. TOMSIC: In terms of the Pacific Corp
17 information disclosure, first of all what was disclosed to
18 Pacific Corp didn't include everything. Potential sellers
19 (inaudible) spent almost two years waiting with the
20 negotiating with, the negotiating tactics in the
21 negotiations, all of the analysis, research and efforts in
22 selecting the numerous power plant ingredients while she was
23 a member of their team; and second, we have evidence she
24 still used or disclosed it and the fact that Ms. Williams and
25 Pacific Corp can point fingers at each other is legally

1 irrelevant and does not remove liability from either.

2 Let me give you an analogy. If we had two surgeons
3 in an operating room, suppose to take off Mr. 'X' right leg.
4 He comes out, his left leg is missing. Both surgeons said, I
5 didn't do it. Does that mean they're both relieved of
6 liability, Your Honor? That's not the situation. Where you
7 have two people with duties and you can demonstrate harm,
8 they're both liable or one is liable and it's up to the jury
9 to make that decision, not a court as a matter of law.

10 So in sum, Your Honor, based on the evidence -
11 again this is a Motion for Summary Judgment. We've presented
12 evidence from which a jury could find that Ms. Williams had
13 confidential information and we have presented evidence from
14 which a jury could find that she used or disclosed it without
15 my client's permission.

16 THE COURT: Thank you, counsel.

17 Mr. Karrenberg?

18 MR. KARREBERG: Thank you, Your Honor. Am I
19 obligated to use the same amount of time? I'm just kidding.

20 THE COURT: I know you are.

21 MS. TOMSIC: Your Honor, let me introduce you.
22 This is Chad Peterson my co-counsel.

23 MR. PETERSON: Your Honor, Chad Peterson may it
24 please the Court.

25 THE COURT: Thank you, counsel.

1 The first point is in demonstrating adverse
2 representation, Your Honor, is when Pacific Corp retained Ms.
3 Williams they made it clear to her what they wanted her to
4 do. It wasn't just go find us water for some abstract power
5 plant - and this is her testimony. I'm asking her what Mr.
6 Thurgood said to her in the conversation where he's calling
7 her and asking her to represent Pacific Corp on Current
8 Creek. "I don't recall the exact conversation but the
9 substance was that Pacific Corp was considering building a
10 power plant in the Mona area."

11 There is no question when she was approached by
12 Pacific Corp that she knew she was being asked to assist them
13 in getting water for a plant in Mona, Utah, no question about
14 it.

15 And Mr. Karrenberg called my clients liars because
16 he said more than one plant could be built down in Mona.
17 Well, Judge, there's certainly in this evidence to the
18 contrary and you know, using (inaudible) doesn't mean it's
19 entitled to summary judgment and it certainly doesn't reflect
20 the state of (inaudible) or the character of my clients.

21 If you look at Ms. Williams' notes of the meeting,
22 Exhibit 61, Pacific Corp tells her there's no plans to even
23 do the 7500 megawatt plant, air won't allow an additional
24 plant.

25 Then if you look at Ms. Williams testimony when I

1 showed her those notes, she said, "In the meetings that I
2 attended with Pacific Corp my recollection was that they
3 weren't planning to do a second 500 megawatt power plant at
4 the site." Her own testimony based on what her stated
5 knowledge was and what Pacific Corp intentions were,
6 demonstrate there was not an intent and there wasn't an
7 intent because of the air permit issues.

8 Then if you look at Ms. Williams' memorandum to Mr.
9 Thurgood in September of 2003 she states, "Pacific Corp or
10 someone else will build a plant near Mona and well need
11 water." This comes from the in-house counsel of Pacific
12 Corp, Mr. Jenkins in his deposition and I asked him, "And
13 during 2003 did you also understand that once Pacific Corp
14 made the decision to build Current Creek that it was not
15 going to accept any other proposals submitted by USA Power
16 relative to the Spring Canyon Project?"

17 Let's go to what Mr. Jenkins says, "My
18 understanding was that once the Current Creek Project was
19 selected that no other responses to that RFP would be
20 selected."

21 Now the other thing that Mr. Karrenberg says is,
22 Gee, you know, Ms. Williams went out and got water, but if
23 you get water, water's not a big deal, it doesn't make it
24 adverse. Well, it does, Your Honor. Not only is there
25 evidence that only one plant could be built, but there's

1 was going to compete in the RFP and Ms. Williams never told
2 them she was representing Pacific Corp in their competing
3 power plant and never said, Well heh, I don't represent you
4 any more. Evidence from (inaudible) simultaneous, she was
5 simultaneously representing both USA Power and Pacific Corp
6 on competing power plant developments when she knew only one
7 power project was feasible and only one project would be
8 selected and she acquired water rights for Pacific Corp when
9 she knew there as a distinct possibility for water rights.
10 Pacific Corp was applying (inaudible) USA Power's water
11 rights and representing Pacific Corp even though she was
12 simultaneously representing USA Power in its negotiations
13 with USA Power.

14 Causation. Judge, you know, it's always a good
15 thing to look at the law to see what the risk standard is and
16 in Kilpatrick, the court set forth what the causation
17 standard is in a legal malpractice action predicated on
18 breach of fiduciary duty and this is what they said, "But for
19 defendants breach of fiduciary duty a reasonable likelihood
20 existed that the plaintiffs would have benefitted." That's
21 the legal scenario for causation, Judge.

22 The Kilpatrick Court went on to say, "Generally
23 causation cannot be resolved as a matter of law. Proximate
24 cause is an issue of fact; thus, only if there is no evidence
25 upon which a reasonable jury could infer causation is summary

1 judgement appropriate. Because proximate cause is an issue
2 of fact, we refuse to take it from the jury if there is any
3 evidence upon which a reasonable juror could infer causation"
4 and it's not a question of just one little piece of evidence
5 demonstrating causation. Let's look at what Mr. Karrenberg
6 says - never mind.

7 First of all look at the key material facts
8 regarding causation that we put forth in this record and then
9 I want to deal with what Mr. Karrenberg says is undisputed.
10 USA Power was identified by Pacific Corp as owning the only
11 viable project site - and these are all facts from which a
12 jury can find causation. Pacific Corp wanted to purchase USA
13 Power's development for \$3 million plus a joint development
14 agreement. Williams switch sides and simultaneously
15 represented Pacific Corp on a competing power plant
16 development without USA Power's knowledge or consent.
17 Pacific Corp's plant couldn't be built without water.
18 Pacific Corp couldn't win the RFP without water. Williams
19 assured Pacific Corp she could secure water in accordance
20 with Pacific Corp's artificially short time frame. Pacific
21 Corp terminated negotiations with USA Power when they secured
22 the water necessary for Pacific Corp's competing plant and
23 helped Pacific Corp in the RFP and CC&N process. Pacific
24 Corp awarded itself the sole RFP process. USA Power's RFP
25 bid was second. Those are all facts in this record that they

1 may dispute but they're there, that demonstrate causation,
2 Your Honor.

3 And let's look at what Mr. Karrenberg says is
4 undisputed. It's undisputed that Holme Roberts assisting
5 Pacific Corp to find water for Current Creek could not have
6 caused the circuit court to reject Spring Canyon's assets.
7 Not true.

8 Let's look at the record. USA Power at the time
9 Ms. Williams was retained by Pacific Corp, according to
10 Pacific Corp was the only viable power project that could
11 meet the 2005 peaking demand contract. And I'm quoting from
12 their memos. The only viable project site that was capable
13 of meeting a 2005 online deadline. Pacific Corp was "unaware
14 of other entities capable of meeting that April 2005 date,
15 the only project that has any possibility of meeting the
16 peaking for 2005 or even in 2006 commercial date.

17 USA Powers. USA Power had obtained - and this is
18 what Mr. Thurgood told Mr. Banashevits - "USA Power has
19 obtained a competitive advantage that would take Pacific Corp
20 two to three years to duplicate and several million dollars"
21 and that was in August of 2002, Your Honor. USA Power had
22 done so much work on the project that nobody stood a chance
23 to beat it, that's what Mr. Thurgood told him when he said,
24 we're not going to buy your assets, we're going to issue this
25 RFP but you guys are the ones. Evidence is that USA Power

1 and Pacific Corp had an agreement in principle.

2 Ted Banashevits. "We came to a conclusion we would
3 sell the assets to Pacific Corp for \$3 million and there
4 would be a long-term consulting agreement. We scheduled a
5 meeting in Portland to complete the transaction." They go to
6 Portland and Pacific Corp ends the negotiations. She starts
7 working for them the beginning of March, he terminates March
8 17.

9 Your Honor, that demonstrates causation, that is a
10 piece of evidence or pieces of evidence from which a jury
11 could find that Ms. Williams breached her fiduciary
12 obligation by representing conflicting adverse interests,
13 caused the sale to fail.

14 Now what else is undisputed that shows no
15 causation? That there was nothing unique or special about
16 the services Holme Roberts performed. She did nothing more
17 than any other water lawyer could have done. Well Judge,
18 that's their theory of the case. That's their theory and
19 what we have is if Ms. Williams had not been available, who
20 would have been the person they would have used? This was
21 the question posed to Mr. Thurgood who actually contacted Ms.
22 Williams and hired her. And they say, Oh, anybody could have
23 done this. Well, we asked him, Well, who would you have used
24 if Ms. Williams couldn't have done it?

25 "I don't know.

1 "Have you ever used another attorney on any water
2 issues besides Ms. Williams?"

3 Mr. Thurgood: "No."

4 "Have you, for example, ever interviewed another
5 attorney?"

6 Mr. Thurgood: "No."

7 Another lawyer could not have - and these are from
8 the record - told Pacific Corp the exact same price that USA
9 Power had confidentially paid for its water rights,
10 negotiated with the same pool of potential purchasers
11 Williams contacted as USA Power's lawyer and it's not the
12 list you get from the public record, it's the few individuals
13 she had honed down who might really be interested, what their
14 level of interest was and what their price levels were,
15 achieved results from Pacific Corp in a fraction of the time
16 it took Ms. Williams to accomplish the same results for USA
17 Power, relied on the relationships Williams had previously
18 established. And Your Honor, remember, Ms. Williams was
19 working on USA Power's behalf for over two years. She was
20 down dealing with the people in Mona. She'd established
21 relationships.

22 Now if Pacific Corp knew Ms. Williams had
23 represented USA Power and Pacific Corp discussed Williams
24 conflict with its in-house counsel and created an issue, why
25 didn't they just hire another lawyer if somebody else could

1 have done it? They didn't, Judge, and Mr. Jenkins affidavit
2 we'd move to strike because it's three paragraphs. There's a
3 paragraph that says, Geez, I was prepared to hire somebody
4 else who would have done the same thing.

5 Well, Judge, that's inadmissible. There are no
6 specific factual foundation for it, it's conclusory and in
7 any event, the person who hired didn't consider anybody else
8 and there's clearly evidence that nobody else could have done
9 it which is why they didn't hire another lawyer. Again,
10 we've already seen these demonstrating how important her
11 participation was.

12 And again, back to Mr. Karrenberg's point on
13 causation is they say there's no disputed issue of fact
14 because Pacific Corp - and (inaudible) weren't competitors
15 why. Because Pacific Corp's decision to build a plant did
16 not defeat our plan and it's undisputed that plaintiffs
17 should be free to build a plant and sell power to
18 (inaudible). Judge, that's their arguments to the jury. The
19 question is, is there sufficient evidence in this record in
20 which a jury could find that once she switched sides and
21 helped Pacific Corp get the RFP, what did that do? Well,
22 according to the evidence, there wasn't going to be a second
23 power plant. The air permits couldn't be obtained.

24 Ted was asked whether construction impacted their
25 ability to develop the project. He said absolutely. And he

1 was asked where and he says, there are several critical
2 aspects of a power plant and each of those are limited.
3 There is a finite amount of room in that Mona switching
4 station, there is a finite amount of water in the county,
5 there's finite amount of room in the air shed in order to
6 (inaudible). The answer to your question is absolutely.

7 That's in the record, Judge, and it's not only is
8 opinion. Our expert witness, Mr. Koltic who is experienced
9 in the development of power projects, testified in the case
10 of - excuse me, let me go back. In the case of Spring
11 Canyon, Pacific Corp's decision to build a 7500 megawatt
12 Current Creek Project near Mona essentially terminated the
13 viability of the Spring Canyon project because of many
14 factors including transmission restrictions, market
15 limitations and water use issues. If Mr. Karrenberg wants to
16 cross examine him and disagree with him before the jury,
17 great, but there's evidence in the record.

18 Not only is it a matter of the physical ability and
19 restrictions, Mr. Olive who I've introduced to the Court also
20 an expert in this case, in his report testified and it's his
21 opinion, USA Power's responsible business did not actively
22 pursue any other opportunities in the market for the Spring
23 Canyon Project during that year plus time. It did not do so
24 to show its good faith intention to consummate a deal with
25 Pacific Corp. It did not do so because all it's time and

1 economic resources were required to pursue the Pacific Corp
2 opportunity. After Pacific Corp in November 2003 announced
3 it had selected Current Creek as the winner of the 2003 ARP
4 and the Public Service Commission awarded the CC&N to Pacific
5 Corp for Current Creek in approximately April 2004, the
6 window of opportunity for the Spring Canyon project has
7 essentially closed.

8 And Your Honor, he goes on to testify in his report
9 - and also in his deposition - that they tried to find a
10 buyer but the bottom line was, Pacific Corp wasn't a
11 (inaudible) it was built with the specific idea of meeting a
12 power demand using the Mona switching station. And if you
13 look in Volume 10 or Exhibit 10, Volume 1 of the confidential
14 information, there's a marketing study in there that targets
15 Pacific Corp as the most likely purchaser of power from that
16 plant. So that window of opportunity was not only an
17 economic targeted window of opportunity but it also was not
18 feasible from the constraints, the environmental constraints,
19 public relations standpoint.

20 Mr. Karrenberg says again it's undisputed that
21 Pacific Corp's bid was (inaudible). You heard him say that
22 not only in his papers but today. And they say they decided
23 to build a second 500 megawatt plant and that's back in
24 September of 2003. Well, Judge, there's no second plant
25 there and according to what they told Ms. Williams, they had

1 no intention of building it and this idea of suddenly
2 attaching an RFP that was put out in June 2007, never
3 disclosed to the parties, only attached to their (inaudible)
4 which we move to strike, doesn't make it any different.
5 We're talking, let's see, five years after the fact they
6 decide to put out a bid. It doesn't mean any plant is going
7 to be built. It doesn't mean that we weren't caused damage
8 in 2003. We're not required to sit around five, six, seven,
9 eight years until Pacific Corp decides it wants to do
10 something else.

11 THE COURT: Counsel, I'm going to give you five
12 more minutes and then we're going to recess until 1:30.

13 MS. TOMSIC: Okay. I want to look at the only
14 evidence that they put in for their position. It's an
15 evidence report. This is the only evidence for their
16 position. This is what it says. "The result of these
17 discussions was the final ranking of offers relative to the
18 (inaudible) was captured in the round four ranking summary."
19 So this is this round four ranking summary shows how are they
20 ranked in response to the 2003 RFP. Well, what does it say?
21 Here's their ranking and defendant's own documents, sole
22 documents. Spring Canyon Energy not only placed second, it
23 also placed third on this bid. But look at the documents
24 that they ignore.

25 Ms. Banashevits testified in her affidavit that

1 when the application was submitted to the Utah Public Service
2 Commission, there was a data room, Pacific Corp's document
3 and one of the documents that were in the data room is this
4 document, Judge. This is one of the documents demonstrating
5 what they did with the bids, Pacific Corp. If you look at
6 the bid number, we're ranked second. So again - and that's
7 in July of 2003. If you look at their own emails, Spring
8 Canyon came in second. They're not being pursued because the
9 peaking (inaudible) is the most economic choice in the
10 peaking category. So they are disputed.

11 And, Judge, what isn't disputed are very critical.
12 Number one, Williams never disclosed her representation of
13 Pacific Corp to USA Power. She clearly admits it as does the
14 other lawyer who worked on the matters. Williams never
15 obtained USA Power's consent for adverse representation,
16 clearly demonstrated. Three, USA Power contacted Williams as
17 soon as it discovers her adverse representation. Dave
18 Graber's email of 11-6-2003 in which he said, "In reviewing
19 the recent water rights activities going on the Juab County
20 specifically regarding Pacific Corp's competing power plant
21 which they announced yesterday, it appears that you may be in
22 a conflicting position as our attorney. I think that this is
23 a serious matter and I'm surprised and extremely disappointed
24 that you did not contact us regarding this possible conflict
25 before accepting such an engagement. Would you please call

1 me to discuss this matter and answer my concerns?"

2 Well, what did Ms. Williams do when she got this?
3 She contacted Pacific Corp. Here are notes of Pacific Corp
4 dated 11-7, the day after this email and what did Ms.
5 Williams tell them? Spring Canyon is really mad, worked for
6 competitor.

7 Well, I'll tell you what she didn't do and it's
8 undisputed, she never responded. She never responded to the
9 email. Look at her answer to our request for admissions.
10 Williams believed that Dave Graber's November 6, 2003 email
11 was simply an attempt by USA Power Partners to avoid paying
12 its account at HRO and therefore she did not communicate with
13 Dave Graber relative to that email. Well, look at the amount
14 of this. \$310 that she claims that's why he sent the email
15 after they'd paid \$100,000. There's a good reason that she
16 didn't respond to this email, Judge, and it goes back to our
17 theme, she who has two masters to serve must lie to one of
18 them. Thank you. You've been very patient.

19 THE COURT: We'll recess and reconvene at 1:30.

20 (Whereupon a noon recess was taken)

21 THE COURT: Mr. Karrenberg?

22 MR. KARRENBERG: Your Honor, just two questions.

23 First, you mentioned this morning planning to announce your
24 ruling on October 5. The implication was you were going to
25 announce it in court. Do you want us to reserve some time in

1 your house and we have the evaporative kind, the kind that
2 Spring Canyon said they were going to put on theirs is the
3 air conditioner kind where the air (inaudible) type of
4 cooling that goes on here and cools the air going in. Rather
5 than get rid of the hot exhaust that comes out of the back of
6 this huge engine, they make additional electricity with it
7 and the way that they do that is they heat water into steam.
8 There's a piece of equipment that's a big boiler and it heats
9 water into steam. They call it a heat recovery steam
10 generator or they abbreviate it in the industry as a HRSG and
11 the hot exhaust comes out of the back of this great big jet
12 airplane engine and heats water into steam here and the steam
13 goes through piping, literally. It's piping like this with
14 about eight or nine inches of insulation around it and that
15 goes over to a steam turbine generator that generates even
16 more electricity and the electricity runs from this generator
17 over to the switching station and into our transmission
18 lines.

19 After the steam has been used here, they
20 recirculate it but they have to get water back into water
21 droplets and there are two different ways that they can do
22 that. One is to route the steam through a big piece of
23 equipment called an air cooled condenser and it's just like a
24 radiator on a car. You know how on your car you look down at
25 the radiator and little leaves will get stuck in there and if

1 you run your thumb across you can snag on the pins on your
2 automobile radiator. This thing has a radiator that looks
3 just like that only it's huge and instead of having a 15 or
4 an 18 inch fan like you'd have on your car, it has 30 of them
5 and they're 34 feet across. They blow a tremendous amount of
6 air up into this radiator and the steam is cooled into water
7 droplets and it's collected in the tank and the water simply
8 goes back through the system.

9 There are two different ways of cooling the steam.
10 One is to have this air cooled condenser that's just like a
11 radiator in your automobile and the other way to do is having
12 pieces of equipment that they call cooling towers. They have
13 water circulating in it and the steam comes into contact with
14 these chilled coils and it's condensed back into water
15 droplets that way.

16 Ours has an air cooled condenser. After the water
17 runs through this cycle several times it gets cruddy and so
18 they have to drain it out and it has what I liken to a spit
19 valve on a trumpet or a trombone. They get rid of some of
20 the water that's been running through the cycle in order to
21 get rid of the crud that's accumulated in it. There are a
22 couple different ways to get rid of this cruddy water. One
23 is to discharge it into a lake or a river. The government
24 has something to say about that and you have to get a permit
25 if you want to do it. The other way to do it is to dig a

1 clusters, that was absolutely confidential information and I
2 note that Mr. Racine in his deposition stated he considered
3 his work product to be confidential and he was not at liberty
4 to share it. The transactional details, I think we've had
5 exhaustive testimony that we considered those details
6 negotiated by Ms. Williams to be confidential and as to the
7 financial details, I believe we have testimony that we
8 considered all of that to be proprietary, work product and
9 indeed it was all stated confidential.

10 THE COURT: How would you describe your client's
11 burden of proof in the context of this Motion for Summary
12 Judgment?

13 MR. PETERSON: Your Honor, under Rule 56 I don't
14 see us having - I think we have to identify that we have a
15 trade secret and that's what I'm prepared to do today. We
16 have to show there's a contested material fact regarding the
17 existence of that trade secret and I'm prepared to do that
18 today. I think in the case of the Utah Medical Products in
19 Munia cases, you had fact specific inquiries in which you
20 have a doctor that left a medical practice - and there was
21 affirmative evidence that in one case - well, let's take the
22 medical products case. In the medical products case which is
23 decided under Utah law, you had a doctor that left a medical
24 practice and took with him three boxes of information. It's
25 like 17,000 documents but there as inventory taken, there as

1 no representation that this is confidential information but
2 for him taking that, he would not have otherwise known it.
3 The facts were very vague (inaudible) Utah Products and the
4 Court looked at it and said you know what, you have
5 delineated a trade secret per se, you haven't stated a prima
6 facie case. In the Munia you had a doctor who had left a
7 medical practice and basically, using preexisting knowledge
8 and he published academic articles on the medical device,
9 continued to sell and market medical device that he had
10 knowledge of before he had his medical practice. So, in
11 those two situations I think you have unique facts. This,
12 Your Honor, is different in that it's a commercial
13 transaction. You have two commercial players coming
14 together, you have a confidentiality agreement signed and you
15 have information that's transferred that is marked
16 confidential and once I get to my presentation I'll be able
17 to show the time line.

18 THE COURT: Go ahead.

19 MR. PETERSON: Anyway Your Honor, that was
20 (inaudible) and let me get started here.

21 Your Honor, once again, one of the summary
22 judgement standards, as I said, we don't need to disprove the
23 factual defenses of the defendants although we're prepared to
24 address those. We need just to show there is a contested
25 issue of fact supporting our claims.

1 relying on than the air cooling that you say meets the
2 definition of a trade secret?

3 MR. PETERSON: Well, Your Honor, once again, I
4 think it also goes back to the financial assumptions because
5 as you'll see -

6 THE COURT: Well, I know, but I was asking you
7 about the items listed on Lines 10 through 17, not the
8 financial data or that information. I recognize that's a
9 different category. I'm trying to - I'm looking at what I'm
10 assuming to be the, you know, the hard mechanics of the power
11 plant and you're maintaining that this combination is an
12 aspect of your client's trade secrets.

13 MR. PETERSON: I guess what I'm saying is, Your
14 Honor, the hardware in the ground is not a trade secret.
15 What is -

16 THE COURT: Well okay. Let's start there -

17 MR. PETERSON: The hardware in the ground -

18 THE COURT: The hardware in the ground is not -

19 MR. PETERSON: - that's not the trade secret.

20 THE COURT: Nor is the manner in which the hardware
21 in the ground is configured a trade secret?

22 MR. PETERSON: That can be because as I said -

23 THE COURT: Not can be, I want to know what your
24 maintaining to be a trade - I hope you're not bothered by my
25 questioning -

1 MR. PETERSON: Oh no.

2 THE COURT: - my questioning exemplifies my
3 struggles with this particular issue.

4 MR. PETERSON: Your Honor, the essence of our trade
5 secret is the evaluation, the testing, the modeling, the work
6 product that we put in to pull together this combination of
7 factors, okay? Like I said, Your Honor, the hardware in the
8 ground, that in and of itself is not unique but the method in
9 which it's pulled together, the way one fit piece fits with
10 the other, that work product that underlies that decision,
11 that evaluation, that is absolutely a trade secret and that
12 is why, by the way -

13 THE COURT: Again, and I'm not - I'm sorry for
14 splitting hairs here, I'm just trying to enlighten myself.

15 MR. PETERSON: Yes, sir.

16 THE COURT: Do I hear you saying then that the
17 physical connection of the items that are listed in Lines 10
18 through 17 which make the physical components of this power
19 plant, are not one of the trade secrets that you are claiming
20 because these technologies are known in the industry or
21 readily assessable in the industry by Pacific Corp.

22 MR. PETERSON: Your Honor, I guess I'd analogize it
23 this way, if you go -

24 THE COURT: Can you answer that question first
25 before you give me the analogy?

1 MR. PETERSON: Yes, sir. I guess what I'm saying -

2 THE COURT: Is it a bad question?

3 MR. PETERSON: No, it's a good question. They're
4 all good questions when it comes to the bench. Your Honor, I
5 think once again, the combination of the details, the
6 combination of the different components -

7 THE COURT: I'm looking at the components that are
8 listed in 10 through 17.

9 MR. PETERSON: Right.

10 THE COURT: I'm not talking about any other
11 factors, I'm looking at the components -

12 MR. PETERSON: Yes, sir.

13 THE COURT: - and I'm trying to understand what it
14 is about the organization of those items that constitute a
15 trade secret if you are claiming this to be one of the trade
16 secrets that was misappropriated.

17 MR. PETERSON: Your Honor, let me answer the
18 question this way. What is the trade secret is the financial
19 viability, the viability of these factors put together. The
20 factors themselves are not extraordinary. Air cooling is
21 unusual but they themselves are nothing that's novel, for
22 example, but it's the work product that was put in to pull
23 these factors together, that is the trade secret. It's the
24 viability. It's the proof of viability. That's the trade
25 secret. I'll get to this in a second, Your Honor, we showed

1 that this type of plant would be successful at that site, at
2 that location and that, Your Honor, that is the information,
3 that is the value that we gave to Pacific Corp.

4 Now this is our expert report that speaks to this
5 issue and this talks about, once again this is the
6 similarities, dry cooling, zero water discharge, natural gas
7 source, transmission - one thing I want to talk about, the
8 zero waste water discharge and the dry cooling. These two
9 elements were the subject of continual testing by our
10 engineer team for a year to 18 months both due to performance
11 evaluations, gate cycle test, the water tables that were put
12 together and in order to find the correct configuration with
13 the air cooling, 500 megawatts, G7FA, all of these
14 combinations put together, we tested different types of
15 turbines. We tested air cooling versus water cooling. We
16 tested all different types of combinations of these details.
17 We put it together. We did that after literally years of
18 testing by our engineers and this is the combination that we
19 came up with and so, Your Honor, once again, individually the
20 parts may not be a trade secret but the testing to put them
21 together in the assuming combination, that is the trade
22 secret, Your Honor.

23 Your Honor, this is once again just restating the
24 tests from 3M vs. (inaudible), the courts have found
25 sufficient circumstantial evidence of misappropriation based

1 then May 2003 they formally decide to use dry cooling.

2 Once again, Your Honor, if I could back to the
3 Learning Curve Toys case, Pacific Corp was caught with a
4 challenge, how do we develop a plant that can be online by
5 2005? Well, we know Mona is a pretty good location but man,
6 there's no water there and that elevation makes it so
7 difficult to do an air cooled plant, we've never done an air
8 cooled plant. We came forward to them with the solution. We
9 showed them that it could be viable and that's what we did
10 and based upon that after they received that information,
11 suddenly they knew about Panda for years, suddenly they
12 turned on a dime and they (inaudible) site and suddenly
13 they're moving forward at that location without any other
14 options.

15 And then in June of 2003 Pacific Corp obtains a
16 project cost analysis. Okay. Despite the fact that we don't
17 have any smoking gun documents that we can put forward
18 saying, Gee, isn't great that we stole Spring Canyon's
19 information, the bottom line is put forward a web of
20 evidence, we put forward an issue of material fact as for a
21 trier fact could determine that they misappropriated the
22 confidential information we gave them, particularly regarding
23 the feasibility of a project at Mona, Utah, the site specific
24 feasibility.

25 THE COURT: And again, the most important factor

1 you're relying on for that site specific evaluation is the
2 feasibility of the dry cooling process at Mona?

3 MR. PETERSON: Yes, sir.

4 THE COURT: Is that your strongest point?

5 MR. PETERSON: Yes.

6 THE COURT: Is it your only point that you're
7 relying on in identifying it as the trade secret?

8 MR. PETERSON: No, Your Honor, because as I said,
9 the overall combination of details is the fact we showed that
10 project to be profitable. It's the air cooling -

11 THE COURT: Profitable as a dry cooling facility.

12 MR. PETERSON: As a dry cooling facility, yes, Your
13 Honor. I mean, we showed that basically the entire project
14 would be viable but the dry cooling is as I said, that's
15 where you need to have specific testing, precise testing and
16 we were the only ones that did it.

17 THE COURT: Move on. Thank you.

18 MR. PETERSON: Now let's talk about the four
19 undisputed facts that Pacific Corp has raised.

20 THE COURT: How much longer do you think you have?

21 MR. PETERSON: Can I do it in 20 minutes, Your
22 Honor?

23 THE COURT: Can you do it in 10?

24 MR. PETERSON: I'll do it in 10. All right.

25 (Inaudible) four undisputed facts. These are core

1 plant.

2 Okay, once again - I think in reference to the work
3 of Shaw Stone, the work of Shaw Stone happened after the
4 fact. The work of Shaw Stone came after the site had been
5 selected and after they had already decided they could go
6 forward with an air cooled plant.

7 Okay, so you can see this starts in April 2003.
8 Once again, this is after they had already made a decision to
9 go for it exclusively at the Mona site. So this is really
10 after the fact. And just once again to stress the dry
11 cooling (inaudible), you saw that.

12 (Going rapidly through slides).

13 Okay, this is once again whether or not our trade
14 secret was really a secret or whether or not this
15 information, the work product involved in our project was
16 actually in the public view. The question is, could you have
17 found out all this information from public sources? Looking
18 at the Notice of Intent, once again, despite the fact they
19 had Notice of Intent in hand by August 15, three weeks later
20 they signed a non-disclosure agreement with us. So, either
21 they were getting very bad advice or else they just said,
22 heh, we want to learn more about these guys project.

23 And this is information we looked at earlier.

24 This is an interesting bit of - from the deposition
25 "did you evaluate the (inaudible) of the project? We began a

1 process." This is Rand Thurgood's deposition, talking about
2 his review of Spring Canyon. "We looked at the (inaudible)
3 file and we took it into consideration that they had said at
4 the meetings that if you turn that evaluation, that's as far
5 as it went.

6 "Did you actually reach a conclusion at that point?

7 "Answer. No, we didn't have sufficient
8 information."

9 These are things that were not disclosed in the
10 application, the NOI, the feasibility of using an air cooled
11 plant, feasibility of two on one combined cycle, operate at
12 Spring Canyon, restrictions of the air permit, within the
13 boundaries of the water supply, in other words, the water
14 tables; the fatal flaw analysis showing the transferability
15 of the electric power. These are all items that were not in
16 the NOI. Sales contracts; the contractual terms for the land
17 and water in Juab County; the opinions from Jody Williams
18 regarding water rights that we had under contract; all the
19 economic assumptions; preliminary cost breakdowns; detailed
20 economic analysis, 40 pages of single spaced calculations
21 amortized investments; factory cost of fuel supply; financing
22 for long term power purchase agreement and (inaudible) we
23 showed the overall value of the project based on the price of
24 gas, all the input costs and how it could actually be a
25 viable project.

1 This is just my client's words, all the items that
2 were not in the Notice of Intent.

3 Once again, this gets back to an interesting case
4 we found from Coca Cola and the formula for Coca Cola is one
5 of the best known trade secrets in the world even though it's
6 printed on the back of every can, like right there. But the
7 question is, how is it put together? And all of that public
8 information, you could not from that public information
9 reverse engineer the project to see whether or not it would
10 be successful. You could not have a feel for whether or not
11 you had a viable project. That was something you actually
12 had to go and do the research, do the evaluations and
13 evaluate the different configurations and that's what we did
14 and we did that so we could be first in the market with a
15 successful plant at that site. No one else had showed that a
16 plant could be successful at that site. We shared that
17 position with Pacific Corp and like I said, it turned on a
18 dime and they went ahead and built a plant there and they did
19 that without doing the type of preliminary analysis and
20 comprehensive analysis that you would need to do to site the
21 plant at that location and the plant that they did build was
22 identical in all meaningful aspects to what we had shown them
23 when we first met with them in the fall of 2002. Thank you.

24 THE COURT: Thank you.

25 MR. PETERSON: Thank you, Your Honor.



CONFIDENTIAL

NAVIGANT CONSULTING'S
FINAL REPORT ON
PACIFICORP'S RFP 2003-A



February 11, 2004



Notice of Confidentiality

Navigant Consulting, Inc. ("CI") has prepared this report for PacifiCorp regarding its RFP 2003-A process. Information contained herein is privileged and confidential and is intended for review only within PacifiCorp and by the appropriate regulatory agencies under confidentiality protections.

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IV. RESULTS OF THE PROPOSAL REVIEW PROCESS

that they would offer their product under WSPP Schedule C with liquidated damage provisions for all hours of delivery, something that PacifiCorp had requested of them. However, discussions in the context of the RFP ended in part because TECO could not obtain firm delivery for their product for the years proposed. In effect, the firm transmission rights that were needed to support the proposed transaction could not be secured. They could only secure one year (i.e., 2004). Additionally, the pricing for their revised offer for the firmness afforded by their updated product offer made it economically unattractive. As such, discussions with TECO within the RFP were concluded.

Bidder: Celerity
Bid Number: 420
Discussion: Celerity's offer was for a unit contingent daily fixed price strike option involving capacity and energy delivery at Four Corners. Total capacity offered was 7 MW with firming reserves provided by Public Service of New Mexico. The proposed product would have been set under WSPP Schedule C with reserves that would have created a firm product for PacifiCorp. The biggest hurdle relating to their offer was the fixed capacity charge, which was priced such that the unit would be out of the money 95% of the time. Even when modeled just looking at July and August, the frequency of dispatch would not have allowed PacifiCorp to adequately cover the fixed capacity payments that would have had to be made. Due to these unattractive economics, discussions with Celerity were concluded.

ii. Peaker Offers

The peaker bid category offers ran the gamut of equipment configurations, heat rates, and delivery points. Out of the 28 offers received, 10 of them were short listed for further clarification based on their ranking according to the RFP screening criteria. Initially, only two offers, the offer from Encore and one from Duke were viewed as being more economic than PacifiCorp's NBA. In spite of this fact, NCI recommended to PacifiCorp that it hold clarifying discussions with three to five potential counterparties assuming the indicative economics of their offers warranted further consideration, i.e., that they were within a reasonable range of the NBA's relative economics. Clarifying discussions were then held with the five bidders behind the top ten offers. At the conclusion of these discussions, PacifiCorp prepared a revised ranking of the offers (Round II Ranking) that reflected PacifiCorp's most current understanding and valuation of the offers (See Table G). Several of the offers were dropped from further consideration for reasons described below, but the more important result was that no offers were found to be more economically attractive than the Company's NBA. At this point, with NCI having validated these results, PacifiCorp could have chosen to cease any further discussion with these counterparties and simply moved forward with its cost-based alternative at Currant Creek. Two intervening

Bidder Name	Bid Number
Duke Energy North America	401
Wartsila	301
Wartsila	122
Spring Canyon Energy	135
Wartsila	263
Centennial Power/CEM	940
Colorado Energy Management	351
Encore Power Development	495
Duke Energy North America	198
Duke Energy North America	877

IV. RESULTS OF THE PROPOSAL REVIEW PROCESS

factors in this decision, however, were the fact that the super peak bid category offers did not look promising and that the Company had issued a revised load forecast indicating a load and resource imbalance in the Eastern portion of its system in 2005 that was projected to be nearly two times as large as what had been identified in the IRP. Building the peaker bid category NBA would not completely create a balance between projected loads and committed resources. Under the assumption that this revised load forecast was accurate, it was decided that a new NBA was needed for benchmarking purposes (since the Currant Creek peaker NBA was effectively not a future alternative any longer) and that the Company would go back to the top bidders – Duke, Wartsila, and Spring Canyon – to see whether or not another opportunity to revise their offers would result in something more economic relative to the next NBA. The smaller list of counterparties was driven by the interest in having a manageable number of companies with whom the Company potentially could engage in more detailed negotiations.

PacifiCorp then prepared another NBA, which NCI validated, before reviewing revised bids from these three companies. In short, the NBA consisted of forward market purchases for two years and an expansion at the Currant Creek site for the remaining eighteen-year period. This is what the revised Round III offers were benchmarked against (See Table H). Once PacifiCorp received these offers, summarized them and prepared revised economics, additional clarifying discussions were held with the bidders to ensure that the Company accurately modeled what the bidder was presenting. In addition, PacifiCorp provided feedback to the bidders about what terms and options would be most attractive to the Company. The bidders responded to this request by providing slight permutations of their offers including various terms and financing arrangements. The result of these discussions was the final ranking of offers relative to the NBA and was captured in the Round IV ranking summary (See Table I). Upon review of these best and final offers no offer was found to be economically superior to the NBA. Consequently, discussions with all bidders in this bid category were ceased.

The remainder of this section walks through each of the offers and the evolution of discussions with each of the bidders about their respective offers in each round. A brief description of the offer is provided first followed by a discussion of the primary issues that arose during the clarifying discussions with bidders regarding each of their offers..

Bidder Name	Bid Number
Spring Canyon Energy	135
Wartsila	122-2
Wartsila	122-4
Wartsila	122-1
Wartsila	122-3
Duke Energy North America	401

Bidder Name	Bid Number
Spring Canyon Energy	135-Base
Spring Canyon Energy	135-Base+DF
Wartsila	122-5
Wartsila	122-2
Wartsila	122-4
Wartsila	122-1
Wartsila	122-3
Duke Energy North America	401-Moapa Equity
Duke Energy North America	401-20 yr
Duke Energy North American	401-10 yr
Duke Energy North America	401-5 yr

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SALT LAKE COUNTY

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IN THE THIRD DISTRICT COURT

SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER
PARTNERS, LLC; and SPRING
CANYON ENERGY, LLC,

Plaintiffs,

vs

PACIFICORP; JODY L. WILLIAMS and
HOLME, ROBERTS & OWEN, LLP,

Defendants.

**MEMORANDUM IN SUPPORT OF
PACIFICORP'S MOTION FOR
SUMMARY JUDGMENT**

Civil No. 050903412
Judge Tyrone E. Medley

2555

that the Public Service Commission of Utah approved and oversaw the detailed process which resulted in PacifiCorp's decision to build Carrant Creek. Never mind that the Public Service Commission of Utah's "Order Granting a Certificate of Convenience and Necessity" that allowed Carrant Creek to be built, over USA Power's vigorous objections, was only issued after USA Power participated fully in the Public Service Commission hearings. Never mind. It sounds too absurd.

Based on the undisputed facts, each of plaintiffs' claims fail as a matter of law because (1) none of plaintiffs' supposedly "misappropriated" information was secret and (2) PacifiCorp did not use any of plaintiffs' information in any event.

UNDISPUTED MATERIAL FACTS

Panda Energy

1 In late 2000 and early 2001 a successful power plant developer from Texas, known as Panda Energy,¹ began its development of a combined cycle power plant site immediately adjacent to PacifiCorp's switching station near the town of Mona, in Juab County, Utah. The Deseret News reported Panda's plans in an article published July 19, 2001. Panda Energy's David Barlow Deposition taken September 6, 2006, at pp. 28-35, 40-41, 51, 83-86, 92-102, attached hereto as Exhibit A. See, newspaper article about Panda produced by plaintiffs from their files, Bates Nos. USA 7341-7342, attached as Exhibit "B", see also, Panda Monthly Report, dated October 2001, deposition exhibit 292, attached hereto as Exhibit "C."

¹ For a listing of Panda Energy's successful projects, see <http://www.pandaenergy.com>

2 By the end of April 2001, Panda had secured options to purchase 240 acres of land next to PacifiCorp's Mona switching station. The site was ideal for a combined cycle plant because of its immediate proximity to PacifiCorp's transmission system and high pressure natural gas transmission pipelines owned by Questar Pipeline Company ("Questar") and Kern River Gas Transmission Company ("Kern River"). *See, id*, Barlow depo at pp 35, 135-138

3. In addition to acquiring land, Panda took the following steps to develop its power plant, among others

a. hired a market consultant (R W Beck) to prepare a report assessing the electric power market within the state of Utah,

b. hired environmental and air quality firms to prepare an Environmental Site Evaluation and Planning Report and erect an on-site meteorological/monitoring station to gather meteorological data to support Panda's application to the Utah Division of Air Quality for an air permit,

c. met with PacifiCorp's transmission group in Portland, Oregon, to arrange for an Interconnection Study at Panda's cost to provide an analysis of the cost of interconnecting Panda's power plant to PacifiCorp's transmission system at the Mona switching station,

d. hired a lobbyist to lobby state and local officials,

e. visited the Mona switching station with its engineers to design a transmission path from the power plant site to the switching station,

f. located the nearby Questar Mainline 104 and Kern River natural gas transmission pipelines using available maps and visible markers,

g. mapped out two alternate routes to place lateral gas lines to transport natural gas from Questar's and Kern River's gas transmission pipelines, and,

h. hired a water lawyer to pursue the acquisition of water from at least three sources

Barlow depo at pp , 36-39, 42-67, 70-72, 74-77, 81-82, 90-91, 94-99, 118-119, 123-125, and 133-138, *see also*, deposition exhibits 284, 287, 292, 290, 291, 294, 295, 296, attached hereto as Exhibits D, E, C, F, G, H, I, and J, respectively

4 After all of these pieces of its power plant development were in place, Panda contacted PacifiCorp's Managing Director of Resource Development, Rand Thurgood, PhD², and set up a meeting in Salt Lake City, Utah Barlow depo at pp 102-116 Panda's hope at the time was that PacifiCorp would be interested in purchasing the power generated from Panda's power plant under a long term power purchase contract *See, Id*

5 The meeting between Panda and Rand Thurgood took place June 19, 2001, at PacifiCorp's offices at One Utah Center Panda, with its maps and engineering design drawings in hand, made a full blown, detailed presentation to Mr Thurgood, explaining the size, location and design of Panda's power plant Barlow depo at pp 69-70, 102-115

6 Panda explained the intended combustion technology of its plant based on Panda's standard plant design using General Electric 7FA gas turbines in a "2 on 1" (also

² Rand Thurgood holds a doctorate in chemical engineering from Brigham Young University His dissertation addressed power plant combustion Rand Thurgood deposition, taken January 19 20, 2006 (hereafter Thurgood depo) attached hereto as Exhibit "K" at page 8 Mr Thurgood was formerly the director of power plant engineering for the whole PacifiCorp system *Id* at page 12 In June, 2004 he was promoted to Vice President of Resource Development and Construction *Id* at page 482

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referred to as 2x1) configuration. Panda explained how it was gathering a year's worth of meteorological data to support its application for an air permit. It explained how the electricity from the power plant would flow over PacifiCorp's transmission system from an interconnect at the Mona switching station. It explained how and where the natural gas would be transported to the plant from a new lateral pipeline connected to Questar's and Kern River's transmission pipelines along one of two routes that Panda had mapped out. It explained how water could be acquired from Kennecott and piped to the plant. And, it touted the positive attitude of local zoning officials to a proposed zoning change and the enthusiastic response that Panda had received from legislative and community leaders. Barlow depo at pp 102-115, Rand Thurgood deposition, taken January 19-20, 2006 (hereafter "Thurgood depo"), at pp 115-135, attached hereto as Exhibit "K"

7. Although PacifiCorp did not have an interest in acquiring power from Panda's power plant under a long term contract, PacifiCorp did have an interest in acquiring the Panda project as a potential power plant site for PacifiCorp's electric generation system. Barlow depo at pp 142-146, Thurgood depo at pp 137-141

8. PacifiCorp periodically published its Integrated Resource Plans outlining the anticipated needs for electric power generation throughout PacifiCorp's system. As Managing Director of Asset Optimization (later as Director of Resource Development in 2001) Rand Thurgood had been given the task beginning in 2000, of assembling as many new resource (i.e., power plant) options as he could so that PacifiCorp could select from among the best resources to serve its customers' increasing demand for electricity. Thurgood depo at pp 26-28, 51-58, 67-68, 80-81

9 Mr Thurgood considered all available resource options, not just Panda He met with Mirant Corporation (“Mirant”) as early as 2001 about a possible equity interest in Mirant’s Apex 1 combined cycle power plant in Las Vegas In June 2002, while it was still under construction, Mr Thurgood visited the Apex 1 plant and he and his team of PacifiCorp engineers investigated Apex 1’s combined cycle equipment, plant layout and design Thurgood depo at pp 99-103 While nothing further came of Mr Thurgood’s discussions with Mirant, his discussions with Panda were in the same vein, i e , to assemble as many options for PacifiCorp as he could for possible new generation resources Thurgood depo at pp 99-109, 397, 465-466

10 Mr Thurgood spoke with Panda several times between June 2001 and July 2002, inquiring each time whether Panda would sell its project to PacifiCorp Panda consistently rebuffed Mr Thurgood’s inquiries until finally, on July 31, 2002, Panda communicated to Mr Thurgood that Panda would entertain selling its project to PacifiCorp Barlow depo at pp 78, 142-153, 229-230, Thurgood depo at pp 137-141

11 Negotiations and due diligenc e followed, and on February 20, 2003, PacifiCorp acquired Panda’s project for approximately \$1 0 million *Id* , Barlow depo at pp 77-80, 142-147 154-158 PacifiCorp acquired the following Panda assets (a) Option Agreements and Purchase Contracts to purchase 240 acres of land, (b) Environmental Site Evaluation and Planning Report, (c) Ground Water Study Feasibility Screening Study Report, (d) Meteorological and Air Quality Monitoring Quality Assurance Plan and (e) Dispersion Modeling Protocol -approved by Utah Division of Environmental Quality, (f) Air Quality PSD Monitoring

Protocol, (g) 1-year Audited Meteorological data from plant site property, (h) Meteorological Tower and associated equipment, (i) Market Study from R W Beck, (j) Transmission Study from R W Beck and (k) PacifiCorp Interconnect Study Report Barlow depo at pp 156-157, Thurgood depo at pp 138-140, *See*, deposition exhibits 301 and 302, attached hereto as Exhibits L and M, respectively

Spring Canyon Energy

12 In February 2002, plaintiff Spring Canyon Energy filed a Notice of Intent (NOI) with the Utah Department of Environmental Quality, Division of Air Quality, seeking an air permit for a combined cycle power plant to be located on a 40 acre parcel located ½ mile north of the Panda plant site. The NOI immediately became a public document. Ted Banasiewicz deposition, taken March 6-9, 2006, at pp 803, 814-816, 821-826, attached hereto as Exhibit N, *see*, Affidavit of Ian Andrews, including the NOI attached thereto, filed concurrently herewith, *see also*, Utah Division of Air Quality file for Spring Canyon Energy marked as deposition exhibit 168, attached hereto as Exhibit O, at Bates No UDAQ0108, UDAQ0110, UDAQ0115-0117, UDAQ0147-0175

13 Spring Canyon's NOI not only identified the location of Spring Canyon's plant site, it laid out many of the details of the proposed plant. For instance, it identified the plant's combustion technology based on General Electric 7FA gas turbines, and it confirmed that the Spring Canyon plant would have heat recovery steam generators equipped with selective catalytic reduction systems, supplemental duct firing and a steam turbine generator. The NOI explained that the proposed plant would take natural gas from the two high pressure natural gas

transmission sources in the area, meaning the Questar Mainline 104 and Kern River transmission pipelines, and that the proposed plant would interconnect to PacifiCorp's transmission system at the Mona switching station. The NOI identified the manufacturer of the proposed plants' pollution control equipment, the heat input rate for the gas turbine and the duct burners, and the expected capacities of the gas turbine generator and the steam turbine generator. According to Spring Canyon's public filing, Spring Canyon selected an air cooled condenser to air cool, rather than wet cool, the condensed steam from its plant, because an air cooled condenser uses less water. *See*, Ian Andrews Affidavit and the NOI attached thereto, Ted Banasiewicz depo at pp 800-813.

14 As part of the air permitting process, a notice of Spring Canyon's application for an air permit was published in the Nephi Times on October 16, 2002. Like the NOI, the published notice laid out many of the details of the project concept. *See*, newspaper notice in deposition exhibit 168 (Exhibit O hereto) at Bates No. UDAQ0032-0034, Ted Banasiewicz depo at pp 812-814.

15 The NOI ultimately culminated in the issuance of an Approval Order (i.e., air permit) to Spring Canyon from the Executive Secretary of the Utah Air Quality Board on November 27, 2002. Like the NOI and the newspaper notice, the publicly available Approval Order laid out many of the details of the proposed Spring Canyon plant. *See*, Approval Order attached to Ian Andrews Affidavit, *See also*, deposition exhibit 168 (Exhibit O hereto) at Bates No. UDAQ001-0018.

16 The first meeting between PacifiCorp and USA Power occurred on August 22, 2002. This first meeting occurred (a) more than a year after Panda made its detailed presentation

to PacifiCorp, (b) two months after Mr. Thurgood had toured the Apex 1 plant in Las Vegas, and (c) three weeks after Panda had told PacifiCorp that Panda would consider selling its Mona project assets. Ted Banasiewicz depo. at pp. 155-156; *See*, Undisputed Facts ¶¶ 5, 9-10, above.

17. A week prior to the August 22, 2002 meeting, PacifiCorp's Ian Andrews requested and immediately received a faxed copy of Spring Canyon's NOI from the Division of Air Quality. He immediately e-mailed Rand Thurgood outlining details of the NOI. Ian Andrews Aff. at ¶¶ 3-4, including e-mail dated August 15, 2002 (Bates No. 31456) attached thereto; Ian Andrews deposition taken February 15, 2006 at pp. 79-82, attached hereto as Exhibit P.

18. USA Power met with PacifiCorp a second time on September 11, 2002. At the beginning of the meeting Mr. Thurgood signed a Confidentiality and Non-Disclosure Agreement with USA Power Partners, LLC. Thurgood depo. at pp. 288-289; Confidentiality and Non-Disclosure Agreement, deposition exhibit 9, attached hereto as Exhibit Q.

19. On August 21, 2002, the day before their first meeting with PacifiCorp, the USA Power principals met with Tom Florence of Utah Associated Municipal Power System (UAMPS) in Salt Lake City, Utah. They handed Mr. Florence a copy of the same volume of information that they later gave to PacifiCorp. Mr. Florence and UAMPS did not sign a confidentiality agreement. *See*, Affidavit of Tom Florence, filed concurrently herewith.

Currant Creek Power Plant

20. PacifiCorp utilized the project assets that Panda had started assembling in late 2000 and early 2001, including land options and purchase contracts, environmental studies, and

most significantly a year's worth of meteorological data, to apply for and obtain an air permit and construct the Currant Creek power plant on the Panda site Thurgood depo at pp 111-112, 124-125, 163-164, Bob Van Engelenhoven deposition, taken September 29, 2006, at pp 74-75, attached hereto as Exhibit R, Ian Andrews depo at pp 160-161

21 Currant Creek was designed, engineered and constructed for PacifiCorp by Shaw/Stone & Webster, which designed, engineered and constructed the Apex 1 plant for Mirant Corporation in Las Vegas, Nevada Apex 1 was completed in 2003 Affidavit of Mark Green filed concurrently herewith at ¶ 5

22 Like the Apex 1 plant and many other combined cycle plants, Currant Creek is a 2x1 combined cycle design, meaning it has two natural gas turbine generators and a single steam turbine generator Currant Creek and Apex 1 were both designed and engineered based on Shaw/Stone & Webster's standard plant design for a 2x1 combined cycle power plant with air cooling Currant Creek, like Apex 1, is based on a recognized and proven 2x1 combined cycle configuration that is well understood and widely utilized in the electric power plant industry *Id* at ¶ 8

23 Although there are minor differences in output rating between Apex 1 and Currant Creek,³ the plants are essentially sisters Both plants utilize two General Electric 7FA7241 gas turbines with almost identical nominal ratings, both plants have two similarly sized heat recovery steam generators equipped with selective catalytic reduction systems, both plants have a single similarly sized steam turbine generator, both plants have duct firing with similar capability, both

³ The minor differences are due primarily to differences in elevation, and higher expected temperatures and the use of steam injection at Apex 1

plants are 100% dry (air) cooled, and both plants are designed for zero wastewater discharge *Id* at ¶ 7

24 In 2002, a combined cycle plant in a 2x1 configuration was not a secret A combined cycle plant with General Electric 7FA gas turbines was not a secret A combined cycle plant with heat recovery steam generators was not a secret A combined cycle plant with additional duct burner capacity was not a secret, a combined cycle plant with a steam turbine generator was not a secret A combined cycle plant with air cooling was not a secret A combined cycle plant designed for zero wastewater discharge was not a secret All of these features of a combined cycle power plant were openly used in the electric generation industry well before 2002 *Id* at ¶ 8

25 At PacifiCorp's request, Shaw/Stone & Webster assembled a detailed project cost analysis for Currant Creek, which was a second-level design (i.e., beyond the conceptual or preliminary design), so that PacifiCorp would have available a cost estimate that was worthy of consideration for budgetary purposes and in a Public Service Commission process Shaw/Stone & Webster's employees began their work on the project cost analysis in late April 2003 and submitted the project cost analysis to PacifiCorp in a large binder on or about June 9, 2003 Completing this work during the period from late April to early June was not unusual for Shaw/Stone & Webster The detailed project cost analysis utilized Shaw/Stone & Webster's in-house databases and reference plant designs, and was a normal part of Shaw/Stone & Webster's regular business designing and engineering combined cycle power plants like Currant Creek, Apex 1, and other combined cycle plants in the United States and around the world *Id* at ¶¶ 9, 11, Thurgood depo at p 182

26 PacifiCorp used Shaw/Stone & Webster's project cost analysis, plus operational and maintenance information that was furnished by General Electric, as well as operational and maintenance studies that PacifiCorp had already performed on its gas fired Gadsby plant, and manpower requirements that PacifiCorp developed from its Hermiston combined cycle plant in Oregon, and put this information together with financial information compiled by its financial analyst, to form its Currant Creek project See, Ian Andrews depo at pp 227-231

27 Currant Creek is located adjacent to the Mona switching station, where Currant Creek interconnects to PacifiCorp's transmission system The Mona switching station is connected to three transmission lines that are operated at 345 kV and run north and south along the eastern edge of the Oquirrh Mountains through Juab County Green Aff at ¶ 4, see also *CH2MHill Critical Issues Analysis Mona Site*, deposition exhibit 363 at Bates No PAC004986, attached hereto as Exhibit S

28 The route of the 20" lateral gas line to bring natural gas to Currant Creek from Questar's Mainline 104 gas transmission pipeline was designed by Questar Pipeline Company Questar not only designed the route of the lateral line, it performed the environmental work, obtained the necessary permits and rights of way, did all of the necessary engineering, and hired a contractor to construct the lateral line Questar paid for all of the costs and maintains ownership of the lateral line PacifiCorp has entered into long term contracts to re pay Questar for the lateral line over time Deposition of Lynn Arnold, taken on September 28, 2006 at pp 4-6, 18-21, 24, 26, 31-32, attached hereto as Exhibit T

29 The design, engineering and construction of Currant Creek represents Shaw/Stone & Webster's own efforts Shaw/Stone & Webster did not use any information from, or about,

USA Power, USA Power Partners, Spring Canyon Energy, or the Spring Canyon Energy project, in any aspect of the Currant Creek power plant, whatsoever Green Aff at ¶ 14

ARGUMENT

I. SUMMARY JUDGMENT IS APPROPRIATE WHEN THERE ARE NO GENUINE ISSUES OF MATERIAL FACT AND THE MOVANT IS ENTITLED TO JUDGMENT AS A MATTER OF LAW

Summary judgment is appropriate upon a showing "that there is no genuine issue as to any material fact and that the moving party is entitled to a judgment as a matter of law " Utah R Civ P 56(c), *see also, e g, Kearns-Tribune Corp v Salt Lake County Comm'n*, 2001 UT 55, ¶ 7, 28 P 3d 686 The moving party has the burden of presenting evidence to demonstrate that no genuine issue of material facts exists and that judgment as a matter of law is proper Utah R Civ P 56(e) However, once the moving party challenges an element of the nonmoving party's case on the basis that no genuine issue of material fact exists, the burden then shifts to the nonmoving party to present evidence that is sufficient to establish a genuine issue of material fact Utah R Civ P 56(e), *Orvis v Johnson*, 2006 UT App 394, ¶¶ 11,16, fn 7, 146 P 3d 886, *Shaw Resources, Ltd L L C v Pruitt, Gushee & Bachtell, P C*, 2006 UT App 313, 142 P 3d 560, *Waddoups v Amalgamated Sugar Co*, 2002 UT 69, 54 P 3d 1054 (Utah 2002) The nonmoving party "may not rest upon the mere allegations or denials of his pleading, but his response, by affidavits or as otherwise provided in this rule, must set forth specific facts showing that there is a genuine issue for trial " Utah R Civ P 56(e), *see e g, Grand County*, 2002 UT 25 at ¶ 21, 44 P 3d 734 The nonmoving party must submit more than just conclusory assertions that an issue of material fact exists to establish a genuine issue *Orvis v Johnson*, *supra* at ¶ 11

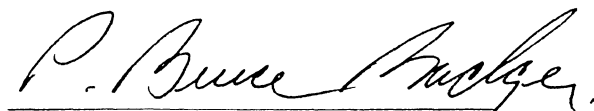
But the reason PacifiCorp is entitled to summary judgment is much more simple than this equitable principle. To establish an unjust enrichment cause of action, plaintiffs must meet three elements: First, there must be a benefit conferred on one person by another. Second, the conferee must appreciate or have knowledge of the benefit. Finally, there must be the acceptance or retention by the conferee of the benefit under such circumstances as to make it inequitable for the conferee to retain the benefit without payment of its value. *Bluffdale City v. Smith*, 2007 WL 270422, 2007 UT App ____.

Summary judgment should be granted for PacifiCorp on the unjust enrichment claim because there are not facts in the record- and a reasonable juror could not find - that PacifiCorp made any use of plaintiffs' "Confidential Information." Thus, there could not possibly be any benefit conferred on PacifiCorp in satisfaction of the first element. Accordingly, there is no reason to analyze the additional elements further; plaintiffs cannot sustain a claim for unjust enrichment as a matter of law. PacifiCorp is entitled to summary judgment on this point as well.

CONCLUSION

For the reasons set forth, PacifiCorp's Motion for Summary Judgment should be granted.

Dated this 30th day of April, 2007.



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COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA POWER PARTNERS, LLC; and SPRING CANYON ENERGY, LLC,	)	Deposition of:
Plaintiffs,	)	<u>DAVID J. BARLOW</u>
vs.	)	No. 050903412
PACIFICORP; JODY L. WILLIAMS and HOLME, ROBERTS & OWEN, LLP,	)	Judge Medley
Defendants.)	

September 6, 2006 * 9:05 a.m.

Location: Fabian & Clendenin
215 South State Street, 12th Floor
Salt Lake City, Utah 84111

Reporter: Lisa D'Elia, CSR, RPR
Notary Public in and for the State of Utah



CitiCourt, LLC
THE REPORTING GROUP

170 South Main Street, Suite 300
Salt Lake City, Utah 84101

8/10/06

1 on the community and all of this, and we asked him to
2 keep it very confidential because this is just one of
3 several sites that we were looking at. He was very
4 helpful in telling us who all we might need to talk
5 to. So we at some point told him that, yes, we were
6 looking at building a power project. Of course, I
7 gave him my business card on one of these occasions
8 and it was pretty evident what business we were in.

9 Q. Do you know when you would have met with
10 him?

11 A. That would have been in the 2000...

12 Q. Time frame?

13 A. Yes.

14 Q. By that time, did you have a vision of
15 what kind of a plant you wanted to propose for Mona?

16 A. Definitely.

17 Q. What kind of a plant did you want to
18 propose?

19 MS. TOMSIC: Bruce, are you saying him
20 personally or Panda?

21 Q. (By Mr. Badger) You understand my
22 question, don't you?

23 A. Yes.

24 Q. Go ahead.

25 A. Panda had a standard footprint for a plant

1 like we developed in Texas. One of the reasons that
2 we were so effective in coming up with the
3 engineering for these things is we stuck with a
4 single model and didn't vary from it too much except
5 where it was necessary for the -- for where the
6 facility was located. A lot of that was driven by
7 what water was available. We always preferred
8 water-cooled condensers.

9 Q. When you say "we," you mean Panda?

10 A. Panda. And some places we needed well
11 water. Other places, if we had access to other
12 water, then we would do that. And during this same
13 time that I was talking to the city dads, I was
14 making a tour of all of the different resources for
15 water that I saw out here in Utah and I --

16 Q. Go back to tell me what kind of a plant
17 you envisioned.

18 A. Oh, yeah. Well, our typical plant was a
19 thousand megawatt or larger facility, 2-on-1. We
20 used the GE7FA technology. We had an order in for a
21 number of turbines with GE on these, and kind of --
22 as a company, Panda would go and they would negotiate
23 delivery of these turbines and, as you may be aware,
24 there were hundreds of companies all trying to
25 reserve manufacturing time slots, and timing, when

1 you were going to be able to take delivery of these,
2 along with actually developing the project was kind
3 of an art, and Panda was excellent at that Of
4 course, where we had a number of turbines that we had
5 scheduled, one of the other things that we did is we
6 talked to other companies that had projects that they
7 were developing and if they ran into problems and
8 they had some of these turbines reserved, then we
9 would negotiate some sort of purchase of these --
10 their slots for this GE didn't like people doing
11 that They wanted to control all of that process
12 themselves and, of course, take all the profit that
13 they possibly could out of that

14 Q. Well, by the time you met with Glen
15 Greenhalgh, by that time did you already have in mind
16 a combined-cycle combustion turbine plant?

17 A. Yes

18 Q. For Mona?

19 A. Yes Towards doing that, you know, I
20 started talking to a number of sources for water
21 Strawberry Water Users was one of them, the CUP, the
22 Conservancy District, and --

23 Q. Were you thinking of an air-cooled or a
24 water-cooled plant at that point?

25 MS. TOMSIC I'm going to object to the

1 question on the grounds that you are not letting him
2 finish his answers before you ask the next question,
3 and I just think it is important for the record that
4 you make sure he's concluded his answer before you
5 ask your next question.

6 Q. (By Mr. Badger) Were you thinking of a
7 water-cooled or air-cooled design at that point?

8 A. It was water-cooled. We did some in-house
9 analyses for air-cooled. We had some people in-house
10 that -- one fellow that had worked for PacifiCorp and
11 developed an air-cooled facility up in someplace, I
12 can't recall, but --

13 Q. WYODAK?

14 A. I believe so. A coal-fired facility. And
15 he was very good with this stuff. He actually headed
16 up some of our engineering group at that time. We
17 did some analyses and we determined, you know, that
18 the air-cooled was just going to be too expensive.
19 We ended up -- you know, of course, I was searching
20 for water for this thing and Panda let me know that
21 that was the way that I should probably go, just
22 because to keep the cost of operating this facility
23 within something that the power was a good price and
24 we could make some money on it. So I continued to
25 talk to a number of these different options. There

1 was a mine, the Burgin Mine, that wasn't too far from
2 that site. We talked to them about getting water.
3 Their water was filling up this mine and they were
4 mining salt out of that, among other things, and this
5 water was something that they just didn't need. They
6 needed a place to send that. The complication we
7 found with that was that there were some groups that
8 had water rights in Utah Lake that said that this
9 water was actually coming from Utah Lake, and they
10 had a geological analysis to support their side, the
11 Burgin Mine said, no, it was different, the quality
12 of the water was different, yada, yada, yada. And so
13 -- but since that was all tied up, we went actually
14 to the state and tried to get a feel from people at
15 the state that were going to be making a
16 determination on whose water it actually was to see
17 what they were probably going to rule.

18 We continued to search for other sources
19 of water, including looking at well water. We had
20 some studies done to see what would be possible down
21 there. One of the problems we found with the well
22 water is that it was considered ag water and we would
23 need basically twice as much rights to twice as much
24 water as we actually were going to use for the
25 facility to allow for it to replenish the aquifer in

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	30(b)(6) Examination:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>RAND THURGOOD</u>
)	
Plaintiffs,)	
)	
vs.)	
	)	Civil No. 050903412
PACIFICORP, JODY L.)	
WILLIAMS and HOLME,	)	Judge Tyrone E. Medley
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

September 28 , 2006 * 9:30 a.m.

Location: TOMSIC & PECK
Attorneys at Law
136 East South Temple, Suite 800
Salt Lake City, Utah 84111

Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



170 South Main Street Suite 300
Salt Lake City Utah 84101

1 believe we were given permission to do so.

2 Q. Okay. And once you all received that
3 permission, did you actually obtain the water or what
4 happened with that?

5 A. No. Up and to that point we had been
6 talking to Geneva. If you go back into the Panda
7 records, you'll see that they had talked to Kennecott
8 and Geneva for procurement of water. We had used
9 their initial preliminary design in looking at a
10 wet-cooled plant at that site and had hoped that we
11 could achieve it.

12 What Panda had basically proposed was to
13 purchase water out of Utah Lake and to pipe it to the
14 site. And at this time we had Hansen, Allen & Luce
15 working on what it would cost to pipe that water to
16 the site. We did not have an answer as to that yet.
17 And we had hoped that we would be able to talk with
18 Geneva, if not Kennecott, to get the water. And
19 that's what this was all about.

20 Q. Okay. What happened with that effort to
21 pipe the water from Utah Lake?

22 A. Hansen, Allen & Luce determined that the
23 cost of that pipeline was going to be very expensive.
24 It was, I'm trying to remember, it was some 20-odd
25 miles at a cost of over a million dollars a mile, and

1 that it would be very difficult to do because of the
2 area that you had to go through to get right-of-way.
3 And it was at that point we started to wonder whether
4 this was really going to be a viable option for us to
5 have a water-cooled plant.

6 We also ran into problems with Geneva. In
7 purchasing the water, they were very, very slow, they
8 had bankruptcy proceedings to go through, and we were
9 just basically going nowhere.

10 Q. The Geneva water, would that also have
11 been piped from a remote location?

12 A. Yes.

13 Q. Where?

14 A. Utah Lake.

15 Q. Okay. So basically whoever the seller
16 was, it would have been piped in from Utah Lake?

17 A. Correct. So it was at that point in time
18 that we realized that the expectation of Panda was
19 just not economically realistic.

20 Q. And when did you come to this realization?

21 A. I don't recall the exact time frame. I do
22 recall that we determined to go to an air-cooled
23 project in about the middle of May. So we were
24 evaluating these things with Stone & Webster and with
25 Hansen, Allen & Luce and with Jody Williams in terms

1 of how much water we could acquire, and that was all
2 just coming to a head in the May time frame.

3 Q. Other than what you've testified to, and
4 you've already testified as to the Geneva and the
5 Kennecott situation, was there any other reason that
6 you -- well, strike that. Let me rephrase it.

7 Did there come a time that you actually
8 switched from wet to dry cooling for the Mona Power
9 Plant?

10 A. I think, as I've said, it was in May.

11 Q. And what was the reason for that switch?

12 A. Just the accumulation of all of the
13 answers that we had been seeking.

14 Q. When you switched from wet to dry, what
15 did that mean for the future of the project on the
16 site?

17 A. It meant that we would have to expend a
18 little bit more capital to purchase the water.
19 Excuse me, an air-cooled facility. We would also
20 have the advantage of not having to build the
21 pipeline for large amounts of water. We could
22 procure about 10 percent of the amount of water that
23 would be needed for a water-cooled plant. So there
24 were both positive and negative implications of that
25 decision.

1 record. Mr. Thurgood, I'm going to hand you what is
2 marked as 371 and ask if you can identify that
3 document?

4 A. It is an e-mail from Ian Andrews to Steve
5 Rottinghaus of Burns & McDonnell with respect to wet
6 versus dry at Mona dated May 7, 2003.

7 Q. Okay. And you had talked earlier about
8 some work that had been done by Burns & Mac, I think
9 you called it, on the project?

10 A. Yes.

11 Q. Does this refresh your recollection as to
12 what work Burns & Mac did?

13 A. Well, it refreshes my memory in that we
14 asked them to do something. I had not gotten into
15 the specifics of what they were trying to -- were
16 being asked to do by Ian.

17 Q. Okay. What was your recollection of what
18 they had been asked to do?

19 A. To give us an independent evaluation of
20 the project position at that site on wet versus dry
21 and what the differences would be.

22 Q. And I don't know if we actually have these
23 performance numbers. I notice if you go down it
24 talks about various configurations. Do you see that?

25 A. Yes.

1 Q. And then it talks about the Provo weather
2 data. Do you see that?

3 A. Yes.

4 Q. Any reason why you used Provo?

5 A. It's data that's close to the site and
6 readily available.

7 Q. Had you all done the net capacity and heat
8 rate runs at this point?

9 A. In general terms, as I've talked about in
10 prior testimony before, yes.

11 Q. Had you done it using -- what weather data
12 had you all used?

13 A. I do not know which data they used.

14 Q. Did you all pay Burns & Mac to do this?

15 A. Yes.

16 Q. Do you see where it says below the Provo
17 weather data, "I have attached Wayne Micheletti's
18 article on wet versus dry cooling"?

19 A. Yes.

20 Q. "For your information as well as an
21 estimate of degradation of simple/combined-cycle
22 frame machines"; do you see that?

23 A. Yes.

24 Q. Do you understand what Burns & Mac was
25 trying to do was actually to get at the efficiency

1 loss?

2 A. To get at the cost differences vis-a-vis
3 the efficiency and losses of wet versus dry, yes.

4 Q. Going back up to the top where it says,
5 "Here is to confirm what we're looking for," it says
6 "Equations" and then it has in parentheses, "2nd
7 order" with a question mark. Do you know what that
8 referred to?

9 A. There are a number of general equations
10 that can be used and then there are other equations
11 that hopefully get to more specificity. And I think
12 that's what it's referring to, but I couldn't answer
13 that for a fact.

14 Q. Do you know when Burns & Mac actually did
15 this performance testing for you?

16 A. Not specifically. I do know that we
17 concluded our decisions in mid May on whether it
18 would be wet versus dry. So it was a very cursory
19 study done very quickly, so a week or two's time
20 frame.

21 (EXHIBIT-372 MARKED.)

22 Q. (BY MR. PETERSEN) All righty. I hand you
23 what is 372 and once again ask if you can identify
24 this document?

25 A. An e-mail from Ian Andrews to Jim Lacey

COPY OF TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
OF SALT LAKE COUNTY, STATE OF UTAH

USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	Deposition of:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>THEODORE BANASIEWICZ</u>
)	
Plaintiffs,	)	VOLUME IV
)	
vs.)	
	)	Civil No. 050903412
PACIFICORP, JODY L.)	
WILLIAMS and HOLME,	)	Judge Tyrone E. Medley
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

March 9, 2006 * 9:31 a.m.

Location: SUROVELL, MARKLE, ISAACS & LEVY
Attorneys at Law
4010 University Drive, Suite 200
Fairfax, Virginia 22030

Videographer: David Voitsberger
Reporter: LANETTE SHINDURLING, RPR, CRR
Notary Public in and for the State of Utah



170 South Main Street, Suite 300
Salt Lake City Utah 84101

1 air-cooled condenser?

2 A. Correct.

3 Q. And that's referred to sometimes as dry
4 cooling; would you agree?

5 A. I would.

6 Q. And an air-cooled condenser is really like
7 a radiator in an automobile; would you agree?

8 A. I would.

9 Q. The steam goes through tubing and it's
10 surrounded by fins just like a radiator in a car.
11 And just like a radiator in a car that has a fan
12 blowing the air over the radiator, an air-cooled
13 condenser has that configuration with tubing, fins
14 and fans; would you agree?

15 A. I would agree.

16 Q. Spring Canyon -- let me -- strike that.
17 If it's water cooled it has cooling towers; true?

18 A. True.

19 Q. And would you agree with me that a
20 water-cooled plant, all other things being equal, the
21 same plant water cooled versus dry cooled, the water
22 cooled takes more water for the plant?

23 A. I would agree.

24 Q. In fact, it takes considerably more than
25 an air-cooled plant; would you agree?

1 A. I would agree.

2 Q. Spring Canyon determined that it would go
3 with an air-cooled condenser for the Spring Canyon
4 Energy Project because of the scarcity of water in
5 the Mona area; true?

6 A. I believe that's an oversimplification of
7 the answer.

8 Q. Well, you testified that Mona is arid?

9 A. It is. The answer to your question is
10 that the ideal situation would not be to use dry
11 cooling. The ideal situation is to find a site that
12 has access to sufficient water resources so that you
13 could use the much more traditional wet-cooled
14 facility. There are many power plants that are in
15 arid areas that utilize wet cooling.

16 The analysis that was performed by our
17 consultants and by Ms. Williams identified that there
18 is enough water in the Juab Valley to utilize wet
19 cooling. A small firm such as ours did not have the
20 time nor the financial resources to go out and
21 acquire all of that at risk during the development of
22 a project. A larger corporation would have those
23 financial resources and if it had taken the time to
24 acquire those resources could very well have used a
25 wet-cooled facility.

1 Q. You testified --

2 A. So I think that -- is that a complete
3 answer to your question?

4 Q. Yeah. But I don't think you've completely
5 summarized what you testified about the other day.
6 So let me see if I can help you. You said that in
7 addition to the fact that you couldn't afford all of
8 the water, you were too small and didn't have the
9 money to do it, that the other consideration was that
10 it would dry up Mona and would affect agricultural
11 events?

12 A. It would.

13 Q. And that was all part of Spring Canyon
14 Energy's consideration of going with air cooled;
15 would you agree?

16 A. It's part of the answer, yes.

17 Q. In your view that was a rational justified
18 business decision, was it not?

19 A. Yes.

20 Q. If PacifiCorp decided to go with air
21 cooled because Mona is arid and to take all of the
22 water would have an impact on the farmers in Mona,
23 that would be a rational, legitimate business
24 decision, don't you agree?

25 A. It would be.

CONDENSED TRANSCRIPT

IN THE THIRD JUDICIAL DISTRICT COURT
SALT LAKE COUNTY, STATE OF UTAH

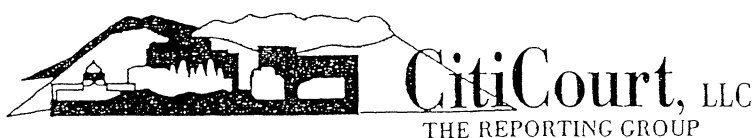
USA POWER, LLC; USA)	
POWER PARTNERS, LLC;	)	Deposition of:
and SPRING CANYON)	
ENERGY, LLC,	)	<u>Lois Banasiewicz</u>
	)	Volume I
Plaintiffs,)	
)	
vs.)	
	)	Civil No. 050903412
PACIFICORP, JODY L)	
WILLIAMS and HOLME	)	Hon. Tyrone E. Medley
ROBERTS & OWEN, LLP,)	
)	
Defendants.)	

CONTAINS CONFIDENTIAL INFORMATION PURSUANT TO
CONFIDENTIALITY AGREEMENT

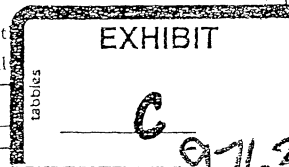
August 1, 2006 * 9:19 a.m.

Location: Anderson & Karrenberg
50 West Broadway, Suite 700
Salt Lake City, Utah

Reporter: Susette M. Snider, CSR, RPR, CRR
Notary Public in and for the State of Utah



170 South
Salt Lake City, Utah



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1 understand it. Take your time and look this over.
 2 MS. TOMSIC: There's something attached.
 3 THE WITNESS: Oh, there is attached? Is
 4 it the file that's attached?
 5 MS. TOMSIC: It's -- it is what it is, but
 6 that's what's attached. Just look at the whole
 7 document.
 8 (A discussion was held off the record.)
 9 THE WITNESS: Okay. I've read this,
 10 Mr. Call.
 11 Q. (By Mr. Call) And this --
 12 A. **I just want to identify it. It's the**
 13 **chronology of actions to acquire water sources for**
 14 **the Current Creek project starting March 2003.**
 15 Q. Right. And this --
 16 A. **And ending February 2004.**
 17 Q. This purports to be actions undertaken by
 18 PacifiCorp to acquire water, doesn't it?
 19 A. **It does.**
 20 Q. And there is no mention of the price paid
 21 or the price that -- excuse me -- that you folks
 22 agreed to pay either Mr. Keyte or Mr. Garrett for
 23 water in this memo, is there?
 24 MS. TOMSIC: Object to the question on the
 25 grounds the document speaks for itself and is the

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1 best evidence.
 2 THE WITNESS: No, but it does speak to the
 3 phone call based on the information Michael Keyte
 4 talked to Ted Banasiewicz, PacifiCorp offering to buy
 5 water and enter in a purchase agreement with two
 6 individuals in Juab County.
 7 Q. (By Mr. Call) And is that what leads you
 8 to believe that confidential information may have
 9 been disclosed?
 10 A. **Confidential information was disclosed.**
 11 **Whether it was PacifiCorp or whether it was Jody**
 12 **Williams, it was disclosed. You don't start out with**
 13 **\$4,000 an acre-foot, what took us months to reach on**
 14 **that price.**
 15 MR. CALL Move to strike as
 16 nonresponsive.
 17 Q. (By Mr. Call) There's no reference to
 18 \$4,000 an acre-foot put in this memo, is there?
 19 MS. TOMSIC. Objection on the grounds it's
 20 argumentative, been asked and answered, on the
 21 grounds the document speaks for itself and is the
 22 best evidence of what the document contains
 23 THE WITNESS This is a memo to Rand
 24 Thurgood regarding --
 25 MS. TOMSIC Lois, you need to listen to

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1 his question and answer it.
 2 THE WITNESS. Okay.
 3 Q. (By Mr. Call) There's no reference to
 4 \$4,000 an acre-foot in this memo, is there?
 5 A. **Not on this memo, no, sir.**
 6 Q. Do you know where PacifiCorp obtained its
 7 water?
 8 A. **Just based on this --**
 9 MS. TOMSIC: Are you saying for the
 10 Current Creek Plant?
 11 MR. CALL: Yes. Thank you.
 12 THE WITNESS Um-hum. This memo is
 13 referencing the WW Ranch, LLC.
 14 Q. (By Mr. Call) And do you know what the
 15 source of the water rights that WW Ranches was
 16 selling to PacifiCorp is? I'm not asking for you to
 17 find it in the document.
 18 A. **Oh, it's not in the document? Okay.**
 19 Q. I'm just asking you whether you know what
 20 the geographic source of the water rights that
 21 WW Ranches sold to Pacific were?
 22 A. **I know it was maybe 20, 30, 40 miles from**
 23 **the actual Current Creek.**
 24 Q They didn't originate in Juab County, did
 25 they?

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1 A. **No, it did not.**
 2 Q. And PacifiCorp didn't buy any water for
 3 the Current Creek plant from anyone that you folks
 4 had contacted with respect to selling -- potentially
 5 selling water to you, did they?
 6 A. **No, they did not.**
 7 Q Well, Mrs. Banasiewicz --
 8 A. **Yes.**
 9 Q. -- I think at this time I don't have any
 10 further questions
 11 A. **Okay.**
 12 MR. BADGER: But I do. Should I get
 13 going?
 14 MR. CALL: It's up to you folks
 15 (A discussion was held off the record)
 16 EXAMINATION
 17 BY MR. BADGER:
 18 Q. While we're on the topic of this telephone
 19 call from Michael Keyte to your husband --
 20 A. **Um-hum.**
 21 Q -- tell me who at PacifiCorp made an offer
 22 to someone in Juab County to buy their water for
 23 \$4,000 an acre-foot
 24 A. **I don't know who made that particular**
 25 **offer.**

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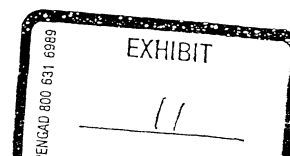
USA Power Partners LLC

**Supplemental Due Diligence Information
To
Preliminary Offering Memorandum
Volume 2**

Spring Canyon Energy LLC
450 Mw Natural Gas Fired,
Combined-Cycle Power Facility,
With Duct-Firing Capability for an
Additional 80 MW

Located in Juab County, Utah
With interconnection to the Western US RTO
Via the Mona (PacifiCorp) Substation

September 2002



P173

9843

**Supplemental Due Diligence Information
To
Preliminary Offering Memorandum
Volume 2**

Table of Contents

1. Land Purchase Agreement
2. Land Rezoning Ordinance - Juab County Commissioners Court, Utah
3. Water Rights Issues - Holme, Roberts & Owen
 - A. Water Rights Opinion
 - B. Due Diligence Memorandums
 - C. Water Rights Option and Purchase Agreements
4. Draft Air Permit - Utah DAQ
5. PacifiCorp Interconnect Study and System Impact Analysis
6. Natural Gas Issues - Questar
 - A. Letter Regarding Natural Gas Service
 - B. Rocky Mountain Natural Gas Pricing Analysis
7. Exempt Wholesale Generator Application - Baker & McKenzie
8. Spring Canyon Energy LLC – Articles of Organization



REAL ESTATE PURCHASE CONTRACT

This is a legally binding contract. Utah law requires real estate licensees to use this form. Buyer and Seller however may agree to alter or delete its provisions or to use a different form. If you desire legal or tax advice, consult your attorney or tax advisor.

EARNEST MONEY RECEIPT

Buyer USA Power Partners LLC offers to purchase the Property described below and hereby delivers to the Brokerage, as Earnest Money, the amount of ~~\$5,000.00~~ \$7,500.00 in the form of check which, upon Acceptance of this offer by all parties (as defined in Section 23), shall be deposited in accordance with state law.

Received by Jody L Williams on 12-19-01 (Date)
(Signature of agent/broker acknowledges receipt of Earnest Money)
Law Firm Attorney
Brokerage Fruse, Landa & Maycock Phone Number (801) 531-7090

OFFER TO PURCHASE

1 PROPERTY Property description shown in Addendum "A"

also described as _____
City of _____, County of Juab, State of Utah, Zip 84645 (the "Property")

1.1 Included items Unless excluded herein, this sale includes the following items if presently attached to the Property: plumbing, heating, air conditioning fixtures and equipment, ceiling fans, water heater, built-in appliances, light fixtures and bulbs, bathroom fixtures, curtains, draperies and rods, window and door screens, storm doors and windows, window blinds, awnings, installed television antenna, satellite dishes and system, permanently affixed carpets, automatic garage door opener and accompanying transmitter(s), fencing, and trees and shrubs. The following items shall also be included in this sale and conveyed under separate Bill of Sale with warranties as to title N/A

1.2 Excluded items The following items are excluded from this sale N/A

1.3 Water Rights The following water rights are included in this sale none

1.4 Survey (Check applicable boxes) A survey WILL WILL NOT be prepared by a licensed surveyor. The Survey Work will be Property corners staked Boundary Survey Boundary & Improvements survey Other (specify) Alta. Responsibility for payment Buyer Seller Buyer and Seller share equally. Buyer's obligation to purchase under this Contract IS IS NOT conditioned upon Buyer's approval of the Survey Work. If yes, the terms of the attached Survey Addendum apply.

2 PURCHASE PRICE The Purchase Price for the Property is \$ Two Hundred Thousand Dollars (\$200,000)

2.1 Method of Payment The Purchase Price will be paid as follows:

\$ 7,500.00 (a) Earnest Money Deposit Under certain conditions described in this Contract, THIS DEPOSIT MAY BECOME TOTALLY NON REFUNDABLE

\$ _____ (b) New Loan Buyer agrees to apply for a new loan as provided in Section 2.3. Buyer will apply for one or more of the following loans: CONVENTIONAL FHA VA OTHER (specify) _____

If an FHA/VA loan applies, see attached FHA/VA Loan Addendum

If the loan is to include any particular terms, then check below and give details

SPECIFIC LOAN TERMS _____

\$ _____ (c) Loan Assumption (see attached Assumption Addendum if applicable)

\$ _____ (d) Seller Financing (see attached Seller Financing Addendum if applicable)

\$ _____ (e) Other (specify) _____

192,500.00 (f) Balance of Purchase Price in Cash at Settlement

\$ 200,000.00 PURCHASE PRICE Total of lines (a) through (f)

Page 1 of 6 pages Seller's Initials MLK Date 1-4-02 Buyer's Initials TB Date 1/4/02

9850

2.2 Financing Condition. (check applicable box)

- (a) Buyer's obligation to purchase the Property IS conditioned upon Buyer qualifying for the applicable loan(s) referenced in Section 2.1(b) or (c) (the "Loan") This condition is referred to as the "Financing Condition"
- (b) Buyer's obligation to purchase the Property IS NOT conditioned upon Buyer qualifying for a loan Section 2.3 does not apply

2.3 Application for Loan

(a) Buyer's duties No later than the Application Deadline referenced in Section 24(a), Buyer shall apply for the Loan "Loan Application" occurs only when Buyer has (i) completed, signed, and delivered to the lender (the "Lender") the initial loan application and documentation required by the Lender, and (ii) paid all loan application fees as required by the Lender Buyer agrees to diligently work to obtain the Loan Buyer will promptly provide the Lender with any additional documentation as required by the Lender

(b) Procedure if Loan Application is denied If Buyer receives written notice from the Lender that the Lender does not approve the Loan (a "Loan Denial"), Buyer shall, no later than three calendar days thereafter, provide a copy to Seller Buyer or Seller may, within three calendar days after Seller's receipt of such notice, cancel this Contract by providing written notice to the other party In the event of a cancellation under this Section 2.3(b) (i) if the Loan Denial was received by Buyer on or before the _____ day of _____, _____, the Earnest Money Deposit shall be returned to Buyer, (ii) if the Loan Denial was received by Buyer after that date, Buyer agrees to forfeit, and Seller agrees to accept as Seller's exclusive remedy, the Earnest Money as liquidated damages A failure to cancel as provided in this Section 2.3(b) shall have no effect on the Financing Condition set forth in Section 2.2(a) Cancellation pursuant to the provisions of any other section of this Contract shall be governed by such other provisions

2.4 Appraisal of Property Buyer's obligation to purchase the Property IS IS NOT conditioned upon the Property appraising for not less than the Purchase Price If the appraisal condition applies and the Property appraises for less than the Purchase Price, Buyer may cancel this Contract by providing written notice to Seller no later than three calendar days after Buyer's receipt of notice of the appraised value In the event of such cancellation, the Earnest Money Deposit shall be released to Buyer A failure to cancel as provided in this Section 2.4 shall be deemed a waiver of the appraisal condition by Buyer

SETTLEMENT AND CLOSING Settlement shall take place on the Settlement Deadline referenced in Section 24(d), or a date upon which Buyer and Seller agree in writing "Settlement" shall occur only when all of the following have been completed (a) Buyer and Seller have signed and delivered to each other or to the escrow/closing office all documents required by this Contract, by the Lender, by written escrow instructions or by applicable law, (b) any monies required to be paid by Buyer under these documents (except for the proceeds of any new loan) have been delivered by Buyer to Seller or to the escrow/closing office in the form of collected or cleared funds, and (c) any monies required to be paid by Seller under these documents have been delivered by Seller to Buyer or to the escrow/closing office in the form of collected or cleared funds Seller and Buyer shall each pay one half (1/2) of the fee charged by the escrow/closing office for its services in the settlement/closing process Taxes and assessments for the current year, rents, and interest on assumed obligations shall be prorated at Settlement as set forth in this Section Tenant deposits (including, but not limited to, security deposits, cleaning deposits and prepaid rents) shall be paid or credited by Seller to Buyer at Settlement Prorations set forth in this Section shall be made as of the Settlement Deadline date referenced in Section 24(d), unless otherwise agreed to in writing by the parties Such writing could include the settlement statement The transaction will be considered closed when Settlement has been completed, and when all of the following have been completed (i) the proceeds of any new loan have been delivered by the Lender to Seller or to the escrow/closing office, and (ii) the applicable Closing documents have been recorded in the office of the county recorder The actions described in parts (i) and (ii) of the preceding sentence shall be completed within four calendar days of Settlement

4 POSSESSION. Seller shall deliver physical possession to Buyer within _____ hours _____ days after Closing, Other (specify) on closing

5 CONFIRMATION OF AGENCY DISCLOSURE At the signing of this Contract.

Seller's Initials Buyer's Initials

The Listing Agent, _____, represents Seller Buyer both Buyer and Seller as a Limited Agent,
 The Selling Agent, _____, represents Seller Buyer both Buyer and Seller as a Limited Agent,
 The Listing Broker _____, represents Seller Buyer both Buyer and Seller as a Limited Agent,
 Selling Broker _____, represents Seller Buyer both Buyer and Seller as a Limited Agent

The Seller is not represented by a Broker

6 TITLE INSURANCE At Settlement, Seller agrees to pay for a standard coverage owner's policy of title insurance insuring Buyer in the amount of the Purchase Price

SELLER DISCLOSURES No later than the Seller Disclosure Deadline referenced in Section 24(b), Seller shall provide to Buyer the following documents which are collectively referred to as the "Seller Disclosures"

- (a) a Seller property condition disclosure for the Property, signed and dated by Seller;
- (b) a commitment for the policy of title insurance,
- (c) a copy of any leases affecting the Property not expiring prior to Closing,
- (d) written notice of any claims and/or conditions known to Seller relating to environmental problems and building or zoning code violations, and
- (e) Other (specify) _____

8 BUYER'S RIGHT TO CANCEL BASED ON EVALUATIONS AND INSPECTIONS Buyer's obligation to purchase under this Contract (check applicable boxes)

- IS IS NOT conditioned upon Buyer's approval of the content of all the Seller Disclosures referenced in Section 7,
- IS IS NOT conditioned upon Buyer's approval of a physical condition inspection of the Property,
- IS IS NOT conditioned upon Buyer's approval of the following tests and evaluations of the Property (specify) _____

See Addendum "A" attached hereto and made a part hereof

If any of the above items are checked in the affirmative, then Sections 8 1, 8 2, 8 3 and 8 4 apply, otherwise, they do not apply. The items checked in the affirmative above are collectively referred to as the "Evaluations & Inspections." Unless otherwise provided in this Contract, the Evaluations & Inspections shall be paid for by Buyer and shall be conducted by individuals or entities of Buyer's choice. Seller agrees to cooperate with the Evaluations & Inspections and with the walk-through inspection under Section 11.

8 1 Evaluations & Inspections Deadline. No later than the Evaluations & Inspections Deadline referenced in Section 24(c) Buyer shall (a) complete all Evaluations & Inspections, and (b) determine if the Evaluations & Inspections are acceptable to Buyer.

8 2 Right to Cancel or Object If Buyer determines that the Evaluations & Inspections are unacceptable, Buyer may, after than the Evaluations & Inspections Deadline, either (a) cancel this Contract by providing written notice to Seller, whereupon the Earnest Money Deposit shall be released to Buyer; or (b) provide Seller with written notice of objections.

8 3 Failure to Respond If by the expiration of the Evaluations & Inspections Deadline, Buyer does not (a) cancel this Contract as provided in Section 8 2, or (b) deliver a written objection to Seller regarding the Evaluations & Inspections, the Evaluations & Inspections shall be deemed approved by Buyer.

8 4 Response by Seller If Buyer provides written objections to Seller, Buyer and Seller shall have seven calendar days after Seller's receipt of Buyer's objections (the "Response Period") in which to agree in writing upon the manner of resolving Buyer's objections. Seller may, but shall not be required to, resolve Buyer's objections. If Buyer and Seller have not agreed in writing upon the manner of resolving Buyer's objections, Buyer may cancel this Contract by providing written notice to Seller no later than three calendar days after expiration of the Response Period, whereupon the Earnest Money Deposit shall be released to Buyer. If this Contract is not canceled by Buyer under this Section 8 4, Buyer's objections shall be deemed waived by Buyer. This waiver shall not affect those items warranted in Section 10.

9 ADDITIONAL TERMS There ARE ARE NOT addenda to this Contract containing additional terms. If there are the terms of the following addenda are incorporated into this Contract by this reference Addendum No. "A"
 Survey Addendum Seller Financing Addendum FHAVA Loan Addendum Assumption Addendum
 Lead Based Paint Addendum (in some transactions this addendum is required by law)
 Other (specify) _____

10 SELLER WARRANTIES & REPRESENTATIONS

10 1 Condition of Title Seller represents that Seller has fee title to the Property and will convey good and marketable title to Buyer at Closing by general warranty deed unless the sale is being made pursuant to a real estate contract which provides for title to pass at a later date. In that case title will be conveyed in accordance with the provisions of that contract. Buyer agrees however to accept title to the Property subject to the following matters of record: easements, deed restrictions, CC&R's (meaning covenants, conditions and restrictions) and rights of way and subject to the contents of the Commitment

for Title Insurance as agreed to by Buyer under Section 8. Buyer also agrees to take the Property subject to existing leases affecting the Property and not expiring prior to Closing. Buyer agrees to be responsible for taxes, assessments, homeowners association dues, utilities, and other services provided to the Property after Closing. Except for any loan(s) specifically assumed by Buyer under Section 2.1(c), Seller will cause to be paid off by Closing all mortgages, trust deeds, judgments, mechanic's liens, tax liens and warrants. Seller will cause to be paid current by Closing all assessments and homeowners association dues.

10.2 Condition of Property Seller warrants that the Property will be in the following condition ON THE DATE SELLER DELIVERS PHYSICAL POSSESSION TO BUYER

- (a) the Property shall be broom-clean and free of debris and personal belongings. Any Seller or tenant moving-related damage to the Property shall be repaired at Seller's expense,
- (b) the heating, cooling, electrical, plumbing and sprinkler systems and fixtures, and the appliances and fireplaces will be in working order and fit for their intended purposes,
- (c) the roof and foundation shall be free of leaks known to Seller;
- (d) any private well or septic tank serving the Property shall have applicable permits, and shall be in working order and fit for its intended purpose, and
- (e) the Property and improvements, including the landscaping, will be in the same general condition as they were on the date of Acceptance.

11. WALK-THROUGH INSPECTION. Before Settlement, Buyer may, upon reasonable notice and at a reasonable time, conduct a "walk-through" inspection of the Property to determine only that the Property is "as represented," meaning that the items referenced in Sections 1.1, 8.4 and 10.2 ("the items") are respectively present, repaired/changed as agreed, and in the warranted condition. If the items are not as represented, Seller will, prior to Settlement, replace, correct or repair the items or, with the consent of Buyer (and Lender if applicable), escrow an amount at Settlement to provide for the same. The failure to conduct a walk-through inspection, or to claim that an item is not as represented, shall not constitute a waiver by Buyer of the right to receive, on the date of possession, the items as represented.

12. CHANGES DURING TRANSACTION. Seller agrees that from the date of Acceptance until the date of Closing, none of the following shall occur without the prior written consent of Buyer: (a) no changes in any existing leases shall be made, (b) no new leases shall be entered into, (c) no substantial alterations or improvements to the Property shall be made or undertaken, and (d) no further financial encumbrances to the Property shall be made.

13. AUTHORITY OF SIGNERS. If Buyer or Seller is a corporation, partnership, trust, estate, limited liability company, or other entity, the person executing this Contract on its behalf warrants his or her authority to do so and to bind Buyer and Seller.

14. COMPLETE CONTRACT. This Contract together with its addenda, any attached exhibits, and Seller Disclosures, constitutes the entire Contract between the parties and supersedes and replaces any and all prior negotiations, representations, warranties, understandings or contracts between the parties. This Contract cannot be changed except by written agreement of the parties.

15. DISPUTE RESOLUTION. The parties agree that any dispute, arising prior to or after Closing, related to this Contract [] SHALL [X] MAY (upon mutual agreement of the parties) first be submitted to mediation. If the parties agree to mediation, the dispute shall be submitted to mediation through a mediation provider mutually agreed upon by the parties. Each party agrees to bear its own costs of mediation. If mediation fails, the other procedures and remedies available under this Contract shall apply. Nothing in this Section 15 shall prohibit any party from seeking emergency equitable relief pending mediation.

16. DEFAULT. If Buyer defaults, Seller may elect either to retain the Earnest Money Deposit as liquidated damages, or to return it and sue Buyer to specifically enforce this Contract or pursue other remedies available at law. If Seller defaults, in addition to return of the Earnest Money Deposit, Buyer may elect either to accept from Seller a sum equal to the Earnest Money Deposit as liquidated damages, or may sue Seller to specifically enforce this Contract or pursue other remedies available at law. If Buyer elects to accept liquidated damages, Seller agrees to pay the liquidated damages to Buyer upon demand. It is agreed that denial of a Loan Application made by the Buyer is not a default and is governed by Section 2.3(b).

17. ATTORNEY FEES AND COSTS. In the event of litigation or binding arbitration to enforce this Contract, the prevailing party shall be entitled to costs and reasonable attorney fees. However, attorney fees shall not be awarded for participation in mediation under Section 15.

NOTICES. Except as provided in Section 23, all notices required under this Contract must be: (a) in writing; (b) signed by a party giving notice; and (c) received by the other party or the other party's agent no later than the applicable date referenced in this Contract.

19. ABROGATION. Except for the provisions of Sections 10.1, 10.2, 15 and 17 and express warranties made in this Contract, the provisions of this Contract shall not apply after Closing.

20. RISK OF LOSS. All risk of loss to the Property, including physical damage or destruction to the Property or its improvements due to any cause except ordinary wear and tear and loss caused by a taking in eminent domain, shall be borne by Seller until the transaction is closed.

21. TIME IS OF THE ESSENCE. Time is of the essence regarding the dates set forth in this Contract. Extensions must be agreed to in writing by all parties. Unless otherwise explicitly stated in this Contract: (a) performance under each Section of this Contract which references a date shall absolutely be required by 5:00 PM Mountain Time on the stated date; and (b) the term "days" shall mean calendar days and shall be counted beginning on the day following the event which triggers the timing requirement (i.e., Acceptance, receipt of the Seller Disclosures, etc.). Performance dates and times referenced herein shall not be binding upon title companies, lenders, appraisers and others not parties to this Contract, except as otherwise agreed to in writing by such non-party.

22. FAX TRANSMISSION AND COUNTERPARTS. Facsimile (fax) transmission of a signed copy of this Contract, any addenda and counteroffers, and the retransmission of any signed fax shall be the same as delivery of an original. This Contract and any addenda and counteroffers may be executed in counterparts.

23. ACCEPTANCE. "Acceptance" occurs when Seller or Buyer, responding to an offer or counteroffer of the other: (a) signs the offer or counteroffer where noted to indicate acceptance; and (b) communicates to the other party or to the other party's agent that the offer or counteroffer has been signed as required.

CONTRACT DEADLINES. Buyer and Seller agree that the following deadlines shall apply to this Contract:

(a) Application Deadline	<u>N/A</u>	(Date)
(b) Seller Disclosure Deadline	<u>January 25, 2002</u>	(Date)
(c) Evaluations & Inspections Deadline	<u>See Addendum "A"</u>	(Date)
(d) Settlement Deadline	<u>See Addendum "A"</u>	(Date)

25. OFFER AND TIME FOR ACCEPTANCE. Buyer offers to purchase the Property on the above terms and conditions. If Seller does not accept this offer by: 5:00 [] AM [X] PM Mountain Time on January 4, 2002 (Date), this offer shall lapse; and the Brokerage shall return the Earnest Money Deposit to Buyer.

[Signature] (Buyer's Signature) _____ (Offer Date) _____ (Buyer's Signature) _____ (Offer Date)

The later of the above Offer Dates shall be referred to as the "Offer Reference Date"

Therese T. Benasiewicz USA Power Partners LLC, PO 774000-359 Steamboat Springs, CO 80477
 (Buyers' Names) (PLEASE PRINT) (Notice Address) (Phone)
 970-871-9135

Addendum "A"
To Real Estate Purchase Contract

1 Property Description NW 1/4 of the SE 1/4 of Section 23, T 11S, R 1W, SLB&M, containing 40 acres more or less, together with a 75 foot wide access road easement and easement(s) for a natural gas pipeline, water line and well, and electrical transmission line through Seller's remaining property in the SE 1/4 of Section 23 to the specified 40 acre parcel Exact legal description of 40 acre parcel and easements to be determined by survey A reasonable time after Seller's acceptance of this offer, Buyer will locate said easements by survey If Seller sells his remaining property in the SE 1/4 of Section 23 to others than Buyer, said sale shall be subject to Buyer's easements

2 It is understood by Seller that Buyer has to do a substantial amount of preliminary investigation and study to determine whether the property is suitable for Buyer's proposed use Buyer will have a period of one (1) year from date of Seller's acceptance to perform such studies, tests, feasibility, and analysis as Buyer, in its/his sole discretion, may deem necessary to evaluate the feasibility of utilizing this property for its/his proposed uses (the "Feasibility Period") All such studies and investigations will be done at Buyer's sole expense Buyer's representatives will have reasonable access to the property to perform surveys, topographical studies, environmental, soil, and percolation tests, and any other study which Buyer in its/his sole discretion may deem necessary

3 Buyer and its purchasers or assigns agree to negotiate in good faith with Seller for access easements across the purchased 40 acre parcel in order for Seller to connect to electric, gas and water lines to provide utility service to Seller's remaining 120 acres in Section 23, T 11S, R 1W, SLB&M, provided that said access easements do not interfere with the construction, operation or maintenance of Buyer's project Buyer may determine, in its sole discretion, whether the access easements interfere with said construction, operation or maintenance, however, Buyer shall not unreasonably deny said access easements Any connection costs shall be at Seller's sole expense Seller shall be solely responsible to negotiate for the utility service to be provided by the access easements with the electricity, natural gas and water suppliers

4 The Feasibility Period may be extended up to four (4) times in increments of ninety (90) days each at Buyer's sole discretion by written notice to Seller prior to the end of the then existing Feasibility Period and payment of Five Thousand Dollars (\$5,000 00) of Earnest Money (down payment) for each extension

5 All Earnest Money (down payment) paid to Seller by Buyer under this Contract and any extension of the Feasibility Period shall be applied to the balance of the purchase price due at the Closing

6 Buyer may terminate the Contract at any time during the Feasibility Period or any extension thereof by giving Seller written notice In that event, the Seller may retain all Earnest Money (down payment) previously paid, and upon such termination, this Contract will be void, and the parties will have no obligation to each other If Buyer either fails to (a) pay additional Earnest Money (down payment) or (b) approve the contingencies and continue with the purchase of the property prior to the end of each additional Feasibility Period, then the Contract will automatically terminate and all of the Earnest Money (down payment) will be retained by Seller as the complete and full amount of liquidated damages, and the Contract will be void and the parties will have no further obligation to each other

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7. Seller understands that Buyer's proposed use would likely require moderate industrial or heavy industrial zoning. Seller agrees to cooperate with Buyer in applying for said zoning with all costs to be at Buyer's expense. Seller will cooperate with Buyer by signing any requisite forms or applications that may be necessary to process zoning or other permits that are required by Buyer.

8. Buyer may assign this contract at any time prior to closing.

9. Seller has not entered into any mineral leases on the property, and will not do so during the term of this Contract. Seller does not have nor will enter into any agricultural, grazing or other lease that can not be cancelled upon 30 days notice.

10. There are no condemnation proceedings pending or contemplated against the property.

11. Closing of this Contract will be set for 10 days after Buyer submits written approval of all matters and conditions precedent to closing of the purchase, including but not limited to securing any permits that may be required to operate the proposed improvements on the property.

12. The Title Commitment will be delivered to Seller within fifteen (15) days from Contract acceptance. If the Title Commitment shows any easements, Seller will retain a surveyor acceptable to Buyer to locate said easements on a scaled drawing of the property.

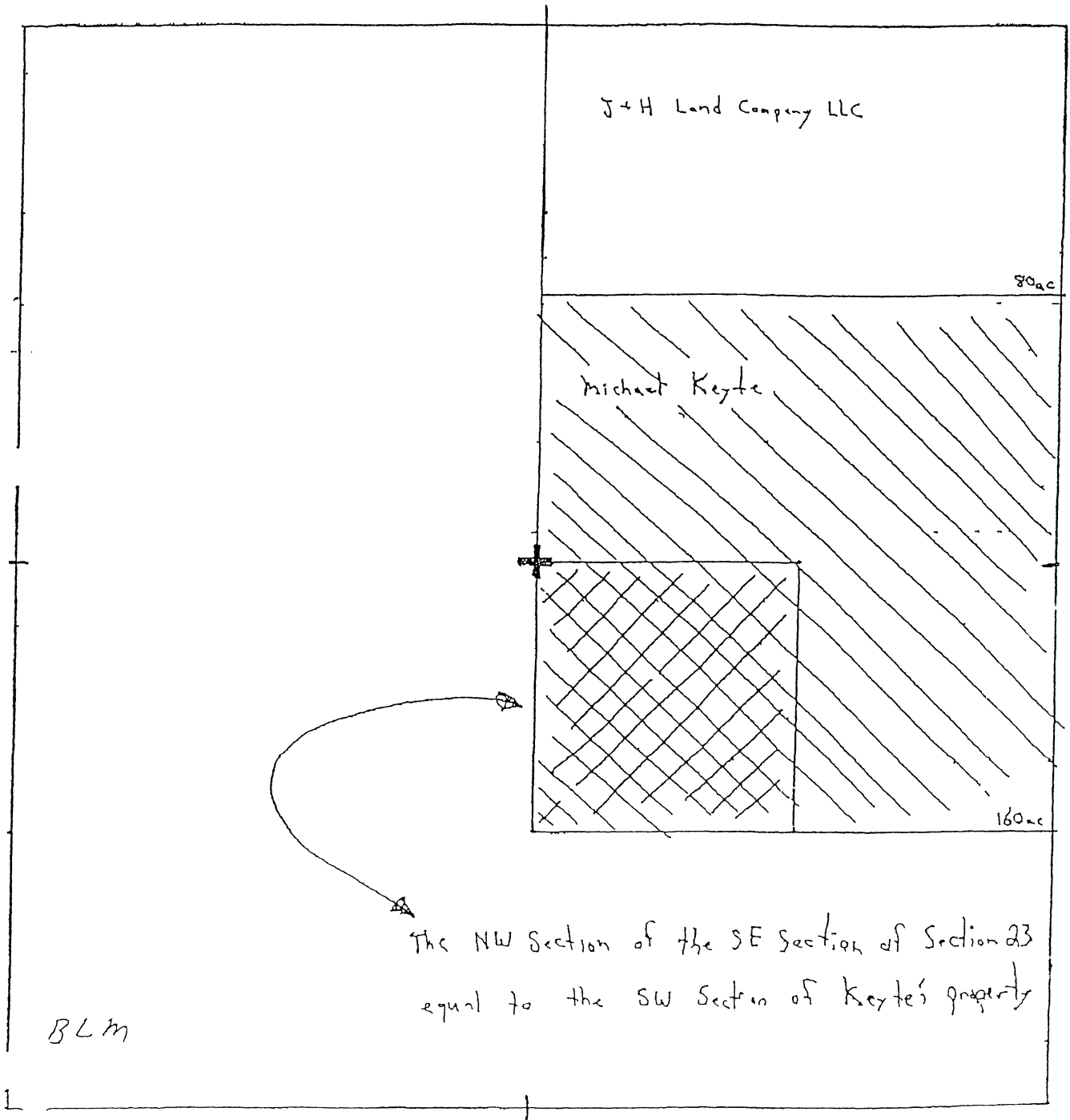
Sellers Initials: M. A. K 1-4-07

Buyer's Initials: TB 1/4/02

Date: _____

Date: _____

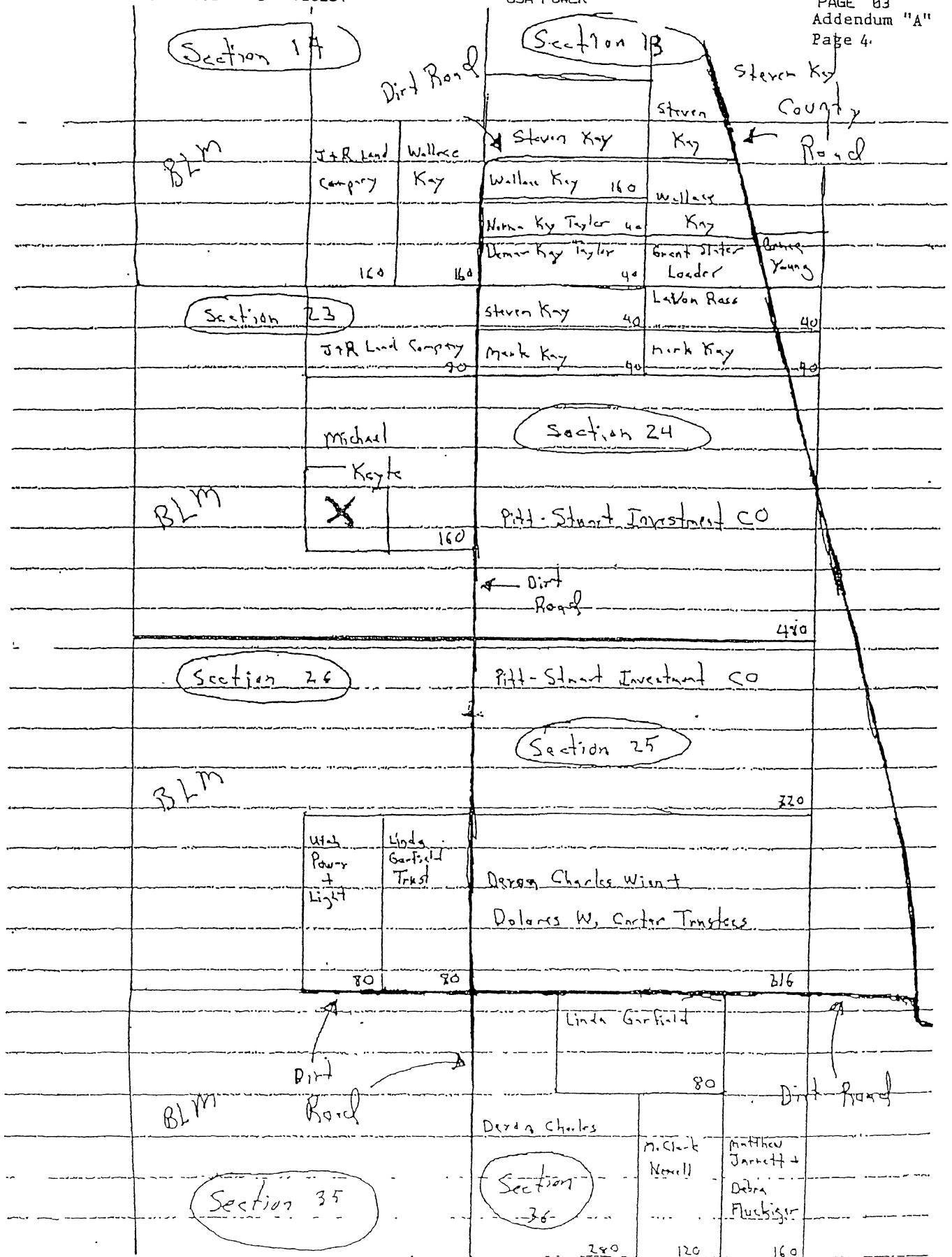
Section 23 T11S, R1W



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M. S. K 1-4-02

ACCEPTANCE/COUNTEROFFER/REJECTION

CK ONE:

ACCEPTANCE OF OFFER TO PURCHASE: Seller Accepts the foregoing offer on the terms and conditions specified above.

COUNTEROFFER: Seller presents for Buyer's Acceptance the terms of Buyer's offer subject to the exceptions or modifications as specified in the attached ADDENDUM NO. _____.

Michael S. Korte 1-4-02 5:00 PM.
(Seller's Signature) (Date) (Time) (Seller's Signature) (Date) (Time)

Michael S. Korte P.O. Box 274, Alton, Utah 84645 435-628-0520
(Sellers' Names) (PLEASE PRINT) (Notice Address) (Phone)

REJECTION: Seller Rejects the foregoing offer.

(Seller's Signature) (Date) (Time) (Seller's Signature) (Date) (Time)

DOCUMENT RECEIPT

State law requires Broker to furnish Buyer and Seller with copies of this Contract bearing all signatures. (Fill in applicable section below.)

I acknowledge receipt of a final copy of the foregoing Contract bearing all signatures:

(Buyer's Signature) (Date) (Buyer's Signature) (Date)

(Seller's Signature) (Date) (Seller's Signature) (Date)

B. I personally caused a final copy of the foregoing Contract bearing all signatures to be faxed mailed hand delivered on _____ (Date), postage prepaid, to the Seller Buyer.

Sent/Delivered by (specify) _____

THIS FORM APPROVED BY THE UTAH REAL ESTATE COMMISSION AND THE OFFICE OF THE UTAH ATTORNEY GENERAL, EFFECTIVE SEPTEMBER 30, 1999. IT REPLACES AND SUPERSEDES ALL PREVIOUSLY APPROVED VERSIONS OF THIS FORM.

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Addendum "A"
To Real Estate Purchase Contract

This Addendum revises and replaces Addendum "A" of the Real Estate Purchase Contract dated January 4, 2002 (the "Agreement") between USA Power Partners, L.L.C. ("Buyer") and Michael S. Keyte ("Seller"). With the exception of the terms set forth in this Addendum, all other terms of the Agreement remain unchanged. The following terms are hereby incorporated as part of the Agreement:

1. **Property Description:** NE 1/4 of the SE 1/4 of Section 23, T 11S, R 1W, SLB&M, containing 40 acres more or less, together with a 75 foot wide access road easement and easement(s) for a natural gas pipeline, water line and well, and electrical transmission line through Seller's remaining property in the SE 1/4 of Section 23 to the specified 40 acre parcel. Exact legal description of 40 acre parcel and easements to be determined by survey. A reasonable time after Seller's acceptance of this offer, Buyer will locate said easements by survey. If Seller sells his remaining property in the SE 1/4 of Section 23 to others than Buyer, said sale shall be subject to Buyer's easements.

2. It is understood by Seller that Buyer has to do a substantial amount of preliminary investigation and study to determine whether the property is suitable for Buyer's proposed use. Buyer will have a period of one (1) year from date of Seller's acceptance to perform such studies, tests, feasibility, and analysis as Buyer, in its/his sole discretion, may deem necessary to evaluate the feasibility of utilizing this property for its/his proposed uses (the "Feasibility Period"). All such studies and investigations will be done at Buyer's sole expense. Buyer's representatives will have reasonable access to the property to perform surveys, topographical studies, environmental, soil, and percolation tests, and any other study which Buyer in its/his sole discretion may deem necessary.

3. Buyer and its purchasers or assigns agree to negotiate in good faith with Seller for access easements across the purchased 40 acre parcel to provide Seller with road access and in order for Seller to connect to electric, gas and water lines to provide utility service to Seller's remaining 120 acres in Section 23, T 11S, R 1W, SLB&M, provided that said access easements do not interfere with the construction, operation or maintenance of Buyer's project. Buyer may determine, in its sole discretion, whether the access easements interfere with said construction, operation or maintenance; however, Buyer shall not unreasonably deny said access easements. Any construction or maintenance costs for access roads or any utility connection costs shall be at Seller's sole expense. Seller shall be solely responsible to negotiate for the utility service to be provided by the access easements with the electricity, natural gas and water suppliers.

4. The Feasibility Period may be extended up to four (4) times in increments of ninety (90) days each at Buyer's sole discretion by written notice to Seller prior to the end of the then existing Feasibility Period and payment of Five Thousand Dollars (\$5,000.00) of Earnest Money (down payment) for each extension.

5. All Earnest Money (down payment) paid to Seller by Buyer under this Contract and any extension of the Feasibility Period shall be applied to the balance of the purchase price due at the Closing.

6. Buyer may terminate the Contract at any time during the Feasibility Period or any

Seller's Initials MSK Date 2/17/02 Buyer's Initials JB Date 2/15/02

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Addendum "A"
Page 2

extension thereof by giving Seller written notice. In that event, the Seller may retain all Earnest Money (down payment) previously paid, and upon such termination, this Contract will be void, and the parties will have no obligation to each other. If Buyer either fails to (a) pay additional Earnest Money (down payment) or (b) approve the contingencies and conditions with the purchase of the property prior to the end of each additional Feasibility Period, then the Contract will automatically terminate and all of the Earnest Money (down payment) will be retained by Seller as the complete and full amount of liquidated damages, and the Contract will be void, and the parties will have no further obligation to each other.

7. Seller understands that Buyer's proposed use would likely require moderate industrial or heavy industrial zoning. Seller agrees to cooperate with Buyer in applying for said zoning with all costs to be at Buyer's expense. Seller will cooperate with Buyer by signing any requisite forms or applications that may be necessary to process zoning or other permits that are required by Buyer.

8. Buyer may assign this contract at any time prior to closing.

9. Seller has not entered into any mineral leases on the property, and will not do so during the term of this Contract. Seller does not have nor will enter into any agricultural, grazing or other lease that can not be cancelled upon 30 days notice.

10. There are no condemnation proceedings pending or contemplated against the property.

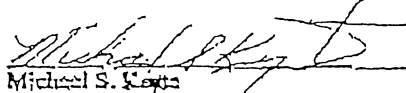
11. Closing of this Contract will be set for 10 days after Buyer submits written approval of all matters and conditions precedent to closing of the purchase, including but not limited to securing any permits that may be required to operate the proposed improvements on the property.

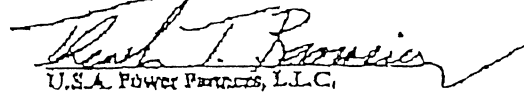
12. The Title Commitment will be delivered to Seller within fifteen (15) days from Contract acceptance. If the Title Commitment shows any easements, Seller will retain a surveyor acceptable to Buyer to locate said easements on a scaled drawing of the property.

Executed on the dates set forth below.

SELLER

BUYER


Michael S. Kruse


U.S.A. Power Partners, L.L.C.
Theodore F. Bausziewicz, Managing Partner

Date: 2-7-02

Date: 2-5-02

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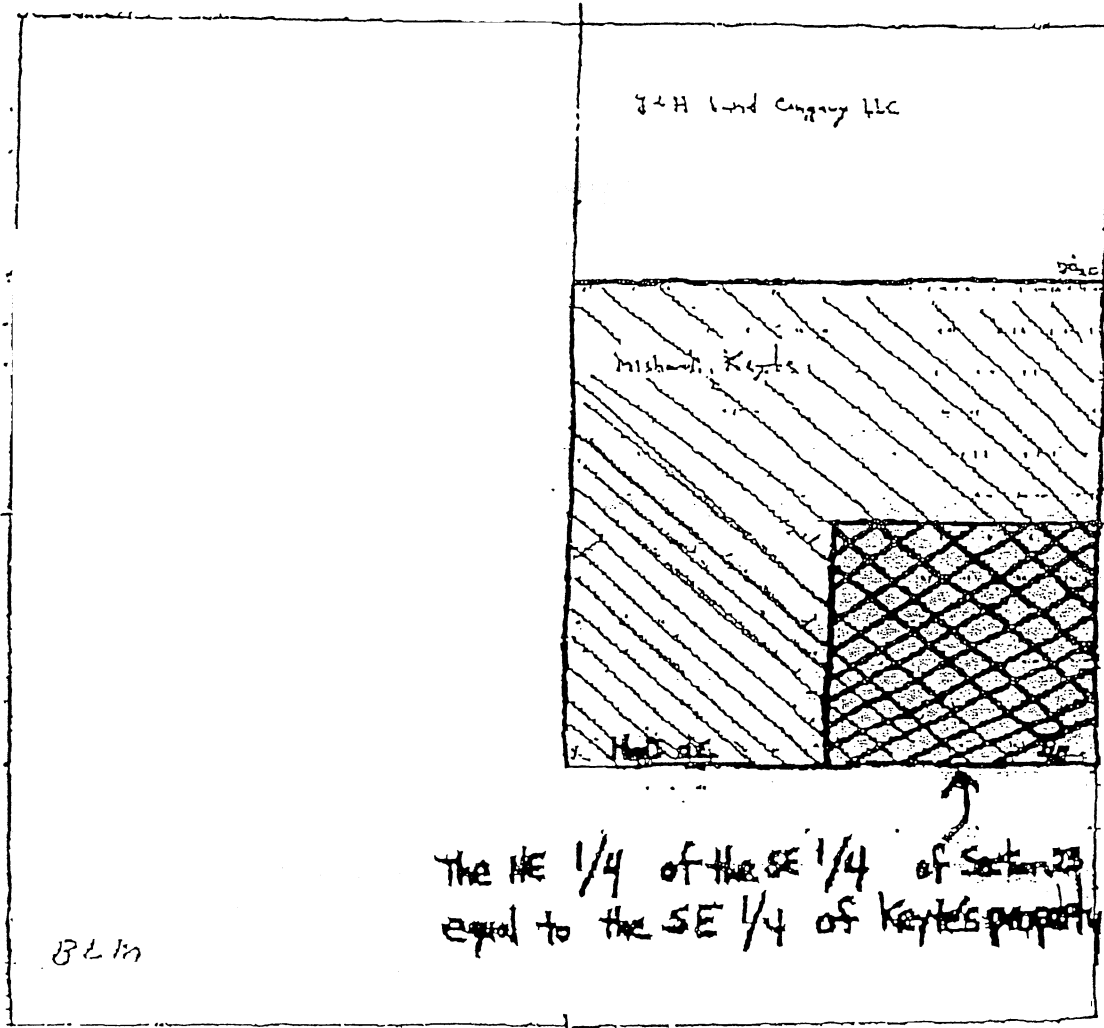
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Page 3'

Section 23 T11S, R1W

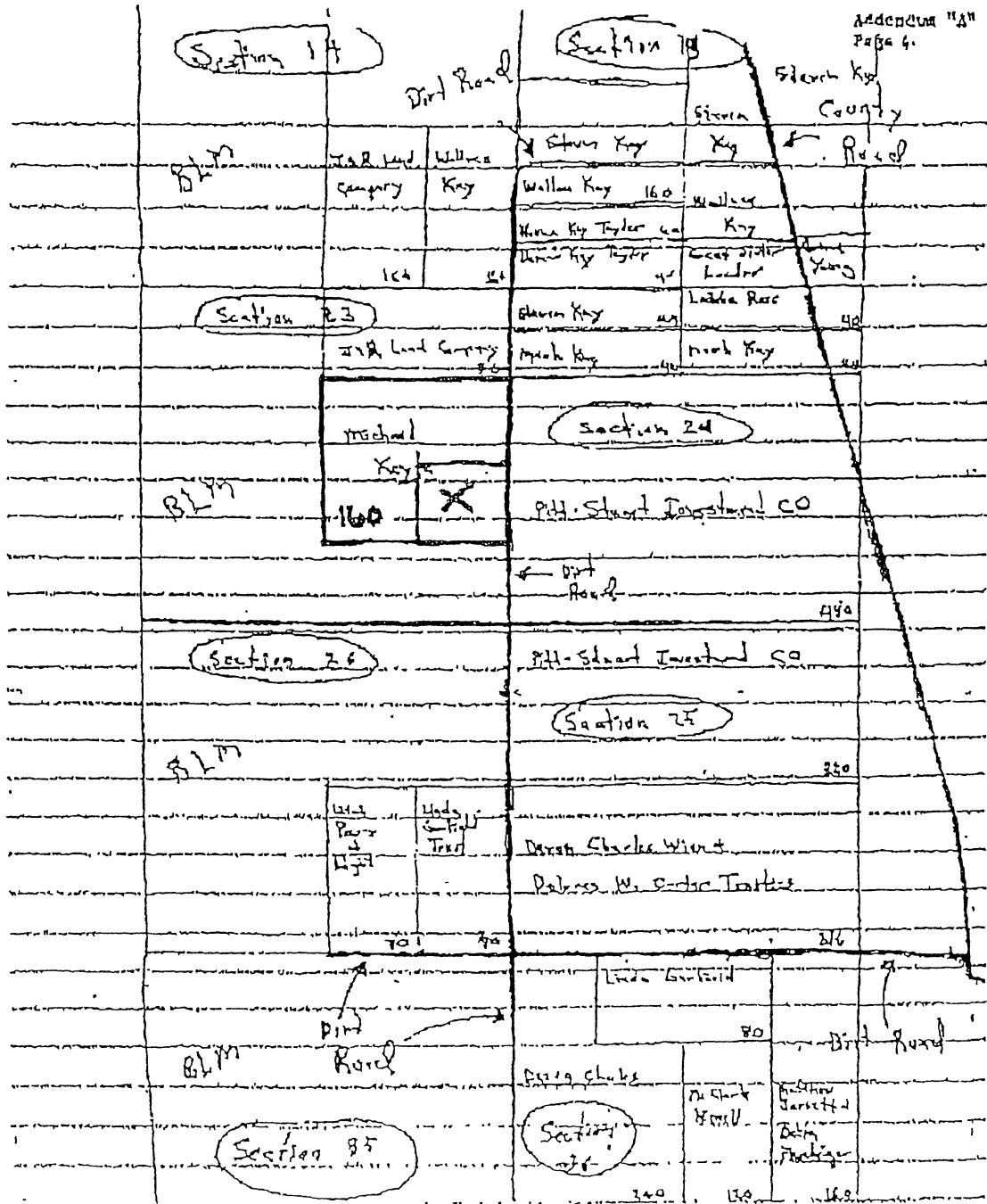


BLM

The NE 1/4 of the SE 1/4 of Section 23
equal to the SE 1/4 of Keyes property

M.P.K. 2/7/02

TB



M. S. T. 2/7/02

AB

ORDINANCE NO. 7-01-02

AN ORDINANCE CHANGING THE ZONING FOR CERTAIN PROPERTIES IN SECTION 23, TOWNSHIP 11 SOUTH, RANGE 1 WEST FROM GMRF TO ID.

WHEREFORE, after a duly noticed public hearing and in conformity with the Juab County General Plan, the subject property is found suited for industrial development.

BE IT ORDAINED BY THE BOARD OF JUAB COUNTY COMMISSIONERS AS FOLLOWS:

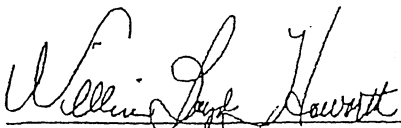
The zoning of the following described property is hereby changed from GMRF to ID:

NE ¼ of the SE ¼ of Section 23, Township 11 S Range 1 West, Salt Lake Baseline and Meridian, containing an area of 40 acres more or less.

The Juab County Zoning Map shall be amended accordingly.

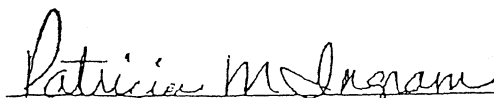
EFFECTIVE DATE: This ordinance shall take effect within 30 days or upon publication, whichever is shorter.

Passed and approved this 1st day of July, 2002.



William Boyd Howarth, Commission Chairman

Attest:



Patricia M. Ingram, Juab County Clerk

A. Water Rights Opinion

Holme Roberts & Owen LLP

September 18, 2002



Mr. David Graeber
Spring Canyon Energy, LLC
10440 North Central Expressway, Suite 1400
Dallas TX 75231

Re: Spring Canyon Energy Project Water Rights

Dear Mr. Graeber:

You have retained us to aid you in acquiring water rights for the Spring Canyon Energy Project (the "Project"), located near the town of Mona in Juab County, Utah. After investigation with your local water engineering firm, we identified the following Utah water rights for acquisition by Spring Canyon Energy, LLC (the "Company") for use in the Project:

*Jody L. Williams
williajo@hro.com*

Attorneys at Law

*299 South Main Street
Suite 1800
Salt Lake City, Utah
84111-2263
Tel (801)521-5800
Fax (801)521-9639
www.hro.com*

*Salt Lake City
Denver
Boulder
Colorado Springs
London
San Francisco*

Water Right No. 53-1431, Application No. D6919 and approved Change Application No. a21754, quantified by the Utah State Engineer's Office ("State Engineer") as yielding 163.22 acre feet annually, owned by Michael Keyte (the "Keyte Water Right"); and

Water Right No. No. 53-97, Certificate No. 11837 quantified by the State Engineer as yielding 384.0 acre-feet annually, owned by Blake Garrett (the "Garrett Water Right"). (Collectively, the Keyte and Garrett Water Rights are referred to as the "Water Rights.")

Together the Water Rights are approved for an annual yield of 547.22 acre feet of water annually. An acre foot of water is that volume of water which would cover one acre of land one foot deep. One acre foot of water contains 325,900 gallons of water, or 43,560 cubic feet of water.

The Company entered into the Water Right Option and Purchase Agreement (the "Options") for the Garrett Water Right on August 5, 2002 and for the Keyte Water Right on August 14, 2002. The agreed-upon purchase price for the Water Rights is \$4,000.00 per acre foot of water. The Options are secured by payment of Initial Option Fees of one percent of the total purchase price, which secure the Company's right to purchase the Water Rights for six months. The Options are renewable for up to thirty-six months in six month increments by the payment of one percent of the total purchase price into an established escrow account for each

Holme Roberts & Owen LLP

September 18, 2002

Page 2

six month increment. The Initial Option Fees may be withdrawn from the escrow accounts by each seller upon completion of the following conditions precedent:

- (a) acceptance of the Water Right by the Company after completion of due diligence in a sixty day due diligence period;
- (b) filing of a permanent change application ("Change Application") with the State Engineer as provided for under Utah Code Annotated § 73-3-3 seeking authorization for the Water Right to be diverted and used from the Project's proposed underground water wells;
- (c) delivery of an executed Water Right deed into the escrow account established for the purchase of the Water Right;
- (d) delivery of an executed Memorandum of Water Right Option into the escrow account established for the purchase of the Water Right and recordation of said Memorandum in the Office of the Juab County Recorder;
- (e) delivery to the escrow agent of any required approval to the transaction by a holder of any lien or encumbrance against the Water Right.

The remaining Option payments will be held in the interest bearing escrow account and applied against the purchase price for each Water Right at the closing.

The Water Rights previously have been used for irrigation. It is generally accepted among Utah water regulators that irrigation consumes one-half of the water that is diverted and applied to the growing crops. The other one-half of the water diverted ultimately returns to the groundwater aquifer or to surface flows to be used by other water rights owners. We have advised the Company that only the portions of the Water Rights that historically have been consumed by crops may be consumed by the Project. Further, we have advised the Company that it is necessary to acquire each Water Right in its entirety and consume only that volume of water previously consumed in order to avoid unlawful interference to other water rights in the aquifer.

The Company and the Sellers must secure permission from the State Engineer to make the following changes to the Water Rights so that they may be used by the Project by receiving approval of the Change Applications.

Holme Roberts & Owen LLP

September 18, 2002

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- (i) change the use of the Water Rights from irrigation to industrial and other incidental uses, including domestic;
- (ii) change the points of diversion from the existing Keyte and Garrett wells to new wells to service the Project;
- (iii) change the place of use of the Water Rights from the Keyte and Garrett agricultural fields to the Project site; and
- (iv) change the season of use from the irrigation season to year round.

After filing, the Change Applications are advertised once a week for two consecutive weeks in a local newspaper, after which those objecting have twenty days in which to file a protest. Following the protest period, the State Engineer will either schedule a hearing, upon twenty days notice, or will issue a memorandum decision approving or denying the Change Applications. The Change Application applicants or protestants may file a request for reconsideration within twenty days from the State Engineer's memorandum decision or file an appeal with Utah District Court within thirty days from the State Engineer's memorandum decision. Many Change Applications are protested in Utah, but only a minute percentage of protests result in appeals to the Utah District Court.

Both Keyte and Garrett signed the Change Applications we prepared for their Water Rights. The Keyte Change Application, a27051, was filed on September 3, 2002. The Garrett Change Application, a27090, was filed September 17, 2002. Prior to receipt of protests, applicants or their attorneys may consult with or seek advice regarding Change Applications from the State Engineer. We have met with the State Engineer regarding both Change Applications and incorporated his suggestions into the documents. We requested the State Engineer to expedite processing and approval of the Change Applications. The earliest the Company can expect to receive the State Engineer's memorandum decision is four months from the date of filing.

At this point, we believe that the State Engineer's approval of the Change Applications is likely. The Water Rights are recognized as valid by the State Engineer and our preliminary due diligence found nothing to indicate that the Change Applications will not be approved. We do expect to receive protests to the Change Applications from the United States Bureau of Reclamation and the Central Utah Water Conservancy District. Both parties routinely protest all Change Applications in the Project area. Their protests generally request that accurate records of use be provided to the State Engineer and that consumption of water

Holme Roberts & Owen LLP

September 18, 2002

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made available by the Water Rights does not increase over historical consumption. By statute, any interested person may protest and it is possible that others may file a protest to the Change Applications.

Although we have reviewed the files at the State Engineer's office and all documents provided to us by the title companies acting as escrow agents for the Options, and attempted to anticipate likely protestants and the substance of the protests, it is not possible to predict with certainty all issues which may be raised. If the Change Applications are protested, we intend to respond in writing to the protests and meet with the protestants to attempt to resolve the protests without a hearing. Based on our experience, our review to date of the Water Rights, and our meetings with the State Engineer's office, we believe the Change Applications will be promptly approved.

If you have further questions regarding the Water Rights, the Options, or the approval process for use of the Water Rights by the Project, please do not hesitate to contact us.

Sincerely,



Jody L. Williams

JLW/bjw

B. Due Diligence Memorandums



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MEMORANDUM

To: Mr. David Graeber
From: Jody L. Williams and Steven J. Vuyovich
Date: September 30, 2002
Re: Michael S. Keyte Water Right

INTRODUCTION

The following Memorandum addresses the issues pertaining to the due diligence undertaken for Water Right No. 53-1431 (a21754) which is the subject of the Option and Purchase Agreement executed between Spring Canyon Energy, L.L.C. and Michael S. Keyte on August 14, 2002 (the "Water Right"). Based upon the records available in the file for the Water Right at the Utah Division of Water Rights, and a preliminary title report, conveyance documents, and a Utah District Court judgment supplied to us by Juab Title and Abstract Company of Mona, Utah, the Water Right is owned by Michael S. Keyte.

The Water Right is a diligence claim filed by Michael S. Keyte for the use of surface water prior to 1903. The Water Right allows the sole supply annual diversion of 163.22 acre feet of water with a priority date of March 1879 from three underground water wells located N 2300 feet and E 1300 feet; N 2000 feet and E 1300 feet; and N 2010 feet and E 1300 feet all from the SW corner of Section 30, T 11S, R 1E, SLBM. The Water Right is used for the irrigation of 40 acres, the stockwatering of 83 head of cattle or equivalent, and the domestic use of 2 families. The water may be used for irrigation from April 1 to October 31 of each year. Stockwatering and domestic uses are year round uses. The Water Right is discussed in more detail below.

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DISCUSSION

The Water Right is designated as Water Right No. 53-1431 in the records of the Utah Division of Water Rights ("Division of Water Rights"). The underlying basis of the Water Right is a diligence claim meaning that the water was put to beneficial use prior to 1903 when Utah began requiring written applications for water right appropriations. Documentation of prior 1903 use of the water is required to acquire a water right number or to file an application to change the use of a water right. That documentation was first filed on September 29, 1992.

The Water Right originally was a part of Water Right No. 53-1297 (Diligence Claim No. D6213), filed in the name of *Collective Water User Property Owners*, claiming a priority date of March, 1879 for use of water diverted from West Ponds and springs in the Current Creek drainage. More specifically, the claim stated, "[t]he West canal collects water from 6 or more unnamed springs and 2 named ponds" and "[i]n the past, ponds were called West Pond Springs, Willow Creek Meadow Springs, East Fish Spring, & Middle Pond & West Pond." The claim stated that "100% of water has been used without interruption" and that "[e]arly users felt it was not necessary to file because water was used on patented land granted by US Govt." The original claim was for 7 cfs of water for the sole supply irrigation of 100 acres and stockwatering of 350 cattle or equivalent.

Water Right No. 53-1297 (Diligence Claim No. D6213) was amended by a subsequent filing on October 19, 1992. The corrected filing was for 7.9 cfs of water for the irrigation of 122 acres and the stockwatering of 350 cattle or equivalent. The corrected claim included 40 acres in Section 30, T 11S, R 1E, SLBM as a portion of the place of use of the water: 10 acres in the NE of the SW; 20 acres in the NW of the SE; and 10 acres in the SW of the NE. In addition to other listed claimants, the corrected claim was signed by the Erma Keyte Trust and Marilyn Keyte. The claim had been prepared for Michael Keyte's signature, but Michael's name was crossed out and Marilyn signed the claim.

Claims to the relevant irrigated acreage were as follows: Erma Keyte (2 acres in the NW of the NE), Marilyn Keyte (10 acres in the NE of the SW and 20 acres in the NW of the SE), and Erma Keyte (10 acres in the SW of the NE). Marilyn Keyte then filed a change application on June 19, 1996 for 30 acres and 35 head of stock that she claimed under the corrected claim. The change application was designated as Water Right No.

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53-1385 (a20136). Attorney Steven Clyde protested Change Application No. a20136 for Michael Keyte, claiming that Marilyn had "nothing that will show title to this land and the water rights appurtenant to that land as vesting in her.... Marilyn Keyte has no right, title or interest in this proportionate share of Diligence Claim D6213 (53-1297)." Mr. Clyde stated that Michael Keyte had unequivocal title to the "land and the water right appurtenant to it" and that Michael's ownership was "by clear and unbroken chain of title."

A hearing on Change Application a20136 was held on July 29, 1997 in Spanish Fork, Utah. Marilyn Keyte had passed away and her heirs attended the hearing. The Change Application was subsequently rejected by the State Engineer in a Memorandum Decision dated October 21, 1997 on the grounds that the applicant did not own the property that was historically irrigated and "could not and did not establish a water right on the property." A Request for Reconsideration was filed by Larry Ellertson. The Request for Reconsideration was two days late and was denied because it was late and because no title documents could be submitted to show a claim of ownership to the water right. The 30 acres of irrigation and 35 head of stock under Change Application No. a20136 were moved back to underlying Water Right No. 53-1297.

Michael S. Keyte and Tyler P. Keyte filed Change Application No. a21754 (Water Right No. 53-1409 (a portion of Water Right No. 53-1297)) on December 16, 1997 (the "Change Application"). Tyler P. Keyte's name has subsequently been removed from the Change Application by assignment dated May 30, 2002. The Change Application was filed on 163.22 acre feet of water for the irrigation of 40 acres and the stockwatering of 115 head of cattle or equivalent. The Change Application proposed to change the point of diversion, place and nature of use of the water. The point of diversion was changed from the West Ponds and Springs in Section 6, T12S, R1E, SLBM of the Current Creek drainage to three underground water wells in Section 30, T 11S, R1E, SLBM. The place of use was changed to the S1/2 of the NW and the N1/2 of the SW of Section 30. The nature of use was changed to the irrigation of 40 acres, the stockwatering of 83 cattle or equivalent, and the domestic purposes of 2 families.

On December 1, 1998 Michael Keyte filed his own diligence claim for the use of water prior to 1903. The diligence claim was designated as D71856 (Water Right No 53-1431) and claimed a flow of .95 cfs for the irrigation of 45.06 acres and the stockwatering of 150 cattle or equivalent.

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On March 5, 1999, Change Application No. a21754 (Water Right No. 53-1431) was approved for the irrigation of 40 acres, the stockwatering of 83 cattle or equivalent, and the domestic purposes of 2 families. The maximum allowable annual diversion amount is 163.22 acre feet of water. Water Right No. 53-1409 was removed from the records of the State Engineer and Water Right No. 53-1297 was reduced by 40 acres of irrigation and 100 head of livestock.

The following inconsistencies are evident when the above documents are analyzed in detail:

1. The place of use of the water under Water Right No. 53-1297 (D6213), Change Application No. a21754 (heretofore), and Water Right No. 53-1431 (D71856) are inconsistent. See the attached Exhibits "A," "B," and "C." Exhibit "A" shows the place of use of Michael Keyte's water under Water Right No. 53-1297 (D6213); Exhibit "B" shows the heretofore place of use of the Change Application; and Exhibit "C" shows the place of use of Water Right No. 53-1431 (D71856).
2. The amount of water reduced from Water Right No. 53-1297 is 162.8 acre feet. The amount of water approved under the Change Application is 163.22 acre feet. Finally, the amount of water claimed under Water Right No. 53-1431 (D71856) is 188.44 acre feet.
3. The point of diversion of the Water Right does not perfectly match the point of diversion set forth in Water Right No. 53-1297 and the point of diversion set forth in the heretofore of the change application. The Diligence Claim lists a point of diversion of S 350 feet and E 1760 feet from the NW corner of Section 6, T 11S, R 1E, SLBM. Water Right No. 53-1297 and the heretofore of Change Application No. a21754 show a point of diversion of S 200 feet and E 1900 feet from NW corner of Section 6, T 11S, R 1E, SLBM.

Diligence Claim No. 71856 was examined closely by the Division of Water Rights prior to the approval of the Change Application. It is not clear why these discrepancies were not corrected or why Diligence Claim No. 71856 contained more water than was included in the Change Application. Representatives of the Division of

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Water Rights could not tell us. It could be that additional acreage was included in the claim when the proof engineer mapped it, but the acreage was not recognized as continuously irrigated since 1903. It is not likely to matter now because the controlling document is the approved Change Application, which claims the lesser amount of water. Although Diligence Claim No. D71856 was filed for more water than what was approved in the Change Application, the change amended the diligence claim and was not appealed by Michael Keyte. Consequently, the 163.22 acre feet of water and the beneficial uses set forth in the Change Application are the annual diversion limitations of the Water Right presently recognized by the State of Utah.

The approved place of use for the Water Right under the Change Application includes the SW and the SE of the NW and the NW and the NE of the SW of Section 30, T 11S, R 1E, SLBM. Michael Keyte's deeded land is located in the SE of the NW and the NE of the SW of Section 30 (see the attached Exhibit "D" where the land is shown in a checkered pattern). Michael does not own any land in the SW of the NW or the NW of the SW of Section 30, so it is not clear why this property was included as part of the hereafter place of use of the water. We asked Michael about this and he did not know. It is likely that an error was made in the preparation of the Change Application.

A preliminary title report and commitment for title insurance issued by Juab Title & Abstract Company on September 4, 2002 (attached to this Memorandum as Exhibit "E") states that Michael S. Keyte and Nila Keyte own fee simple title to the land depicted in Exhibit "D." An examination of the deeds included with the diligence claim filing reveals that Michael Keyte has a record chain of title to the property shown in Exhibit "D" dating from March 11, 1935 where F.A. Keyte conveyed the property to Rachel Keyte, his wife. Juab Title and Abstract Company stated in a letter dated January 15, 1997, that it was unable to locate a recorded deed from Ephraim Ellertson to F.A. Keyte. Ephraim Ellertson was the recipient of the original United States patent incorporating the property now owned by Michael Keyte. The original patent was recorded on June 19, 1907. Pursuant to the Utah Marketable Title Act, "an unbroken chain of title of record to any interest in land for forty years or more" is sufficient to convey record title to the land free of third party claims "existing prior to the effective date of the root of title."

Prior to the approval of the Change Application, only a small portion of the water was used to irrigate Michael Keyte's deeded land. Historically, most of the water under the Water Right has been used to irrigate land that Michael does not and has never owned. Michael Keyte related to us that the land had belonged to F.A. Keyte and was

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condemned by Utah Lake Land, Water and Power Company, but the Water Right was not Included in the condemnation take. We contacted Juab Title and Abstract Company and were subsequently supplied with a preliminary title report, some deeds and a 1916 recorded court judgment in *Utah Lake Land, Water and Power Company v. Frederick A. Keyte* (the "Judgment"). The deeds and the Judgment establish that Frederick A. Keyte had title to the land in 1916 when the Fifth Judicial District Court of Utah issued an Order of Condemnation for four parcels of land in Sections 30 and 31 of T 11S, R 1E, SLBM for use as a reservoir (Now Mona Reservoir). Three of the condemned parcels are part of the historic place of use of the Water Right (see attached Exhibit "F"). The condemned parcels were flooded regularly when water was impounded. The Judgment stated that the condemnation "shall not carry with it the right to fence the lands herein condemned" or "carry any title to any water rights heretofore owned by defendants and used upon the said lands condemned." We instructed Juab Title and Abstract Company to search for documents purporting to convey water without land. No such documents were located and supplied to us. Michael Keyte informed us that the reason he filed his change application to move the irrigation water covered by his water right to his deeded land is because the flooding still occurs on a regular basis and he wanted to use all of his water on his deeded land.

One remaining issue requiring consideration is whether the Water Right has been lost to forfeiture or abandonment. Since all water in the State of Utah is "the property of the public," a person holding title to a water right actually owns only the right to the use of water which has been approved for use under the water right, and a failure to continually put that water to beneficial use may result in a loss of a water right due to forfeiture or abandonment. Forfeiture is the deprivation or destruction of the right to use water as a result of a failure to put water that was available in priority under the water right to beneficial use. Abandonment is the voluntary relinquishment of a right to use water with the intention of not reclaiming it. Generally, non-use of water under a water right for any five-year period causes the water right to cease and the water to revert to the public, unless an Application for Non-use of Water is filed with the Utah Division of Water Rights and approved by the State Engineer. We have made no independent investigation of the continuous use of the Water Right, although we know of no facts which would lead us to believe the Water Right has been abandoned or forfeited.

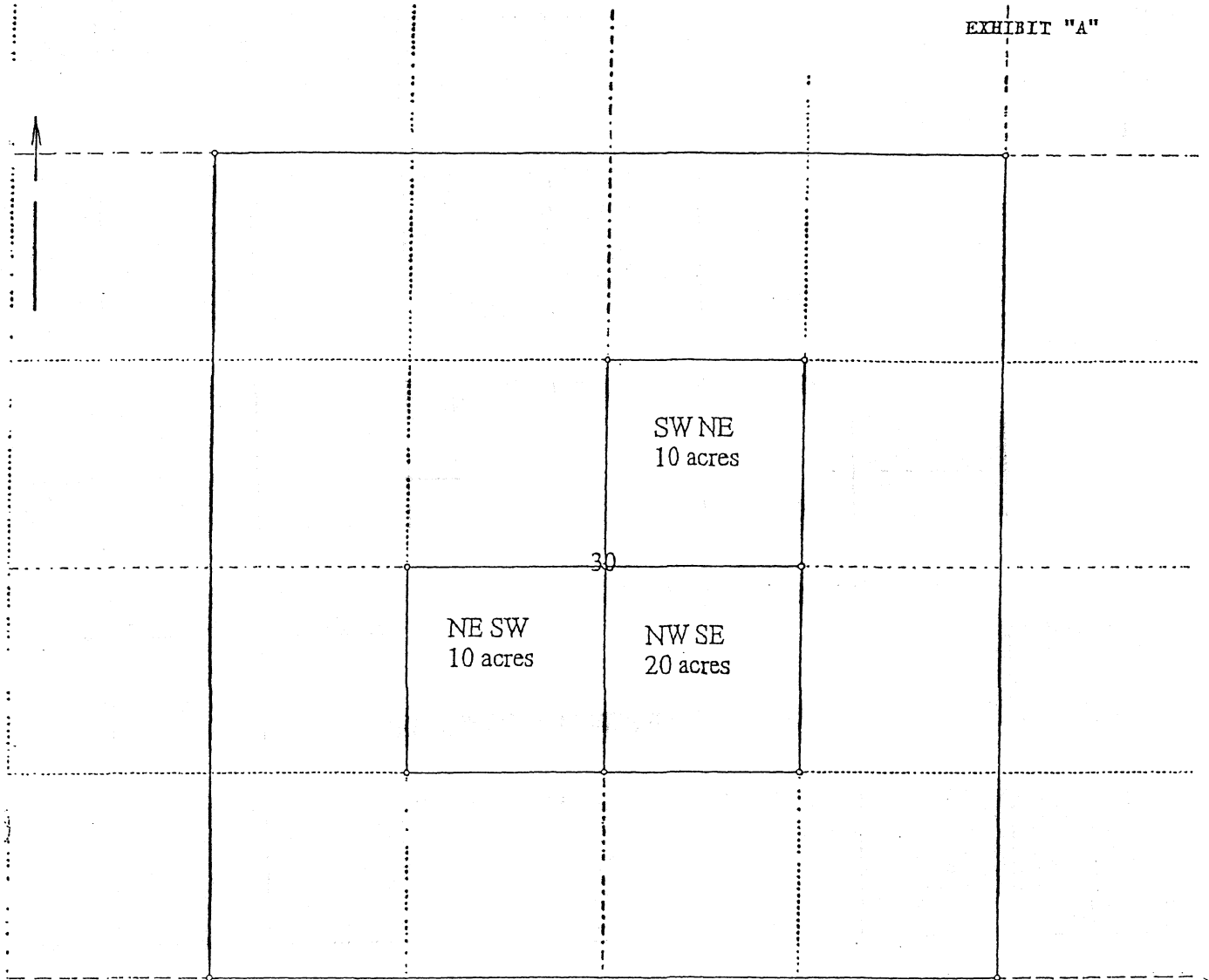
As a protection against loss of the Water Right from forfeiture or abandonment, the Water Right Option and Purchase Agreement executed by Spring Canyon Energy, L.L.C. and Michael Keyte contains the following Representation and Warranty by the Seller which is applicable as of the closing date and which specifically survives the closing date:

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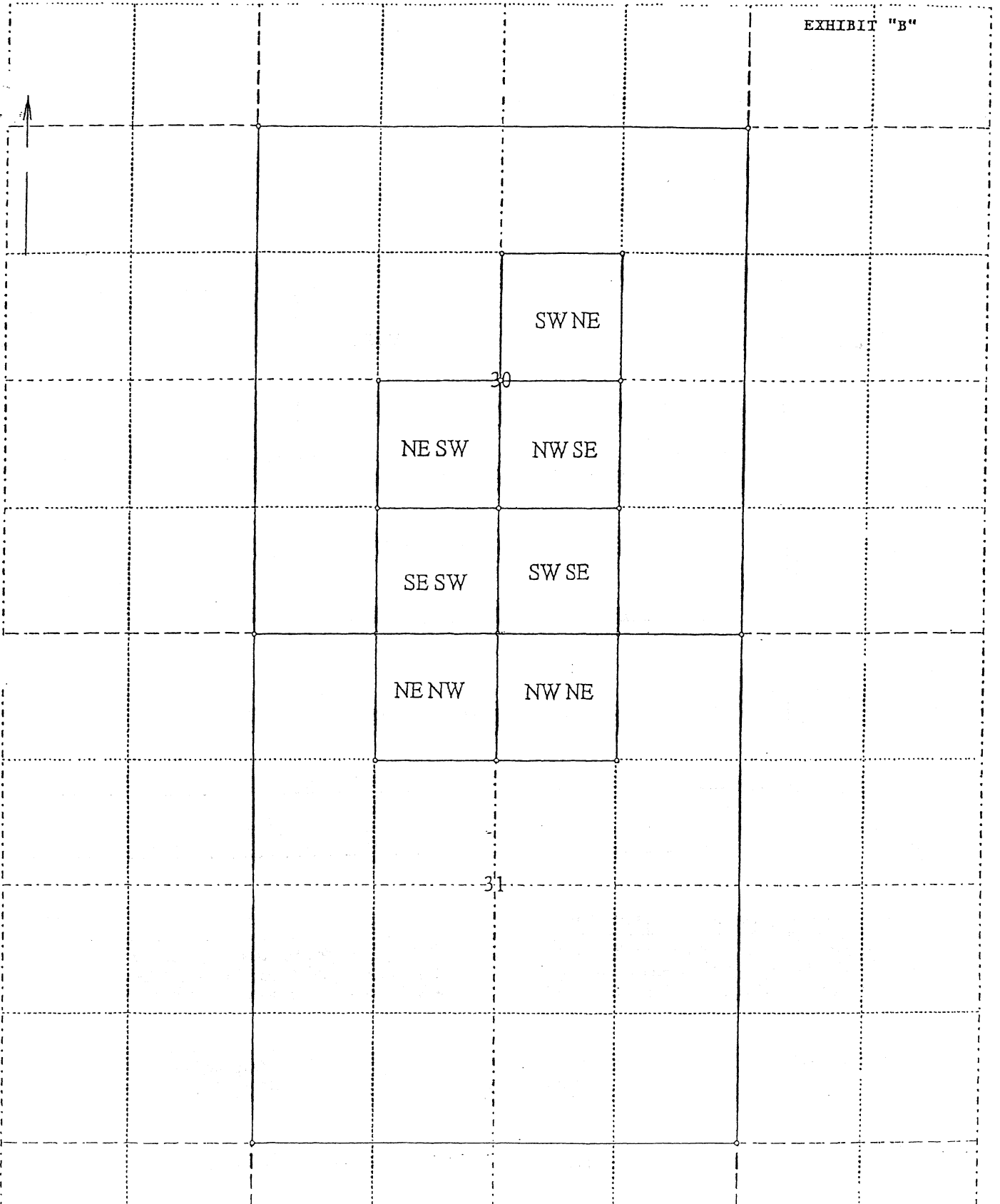
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No Forfeiture or Abandonment. The water right is in good standing in the State Engineer's Office; the use of the Water Right has been consistent with the water right as on record in the State Engineer's Office; the water right has been used beneficially within the last five (5) years; and neither the water right nor any part thereof is subject to forfeiture or abandonment for non use.

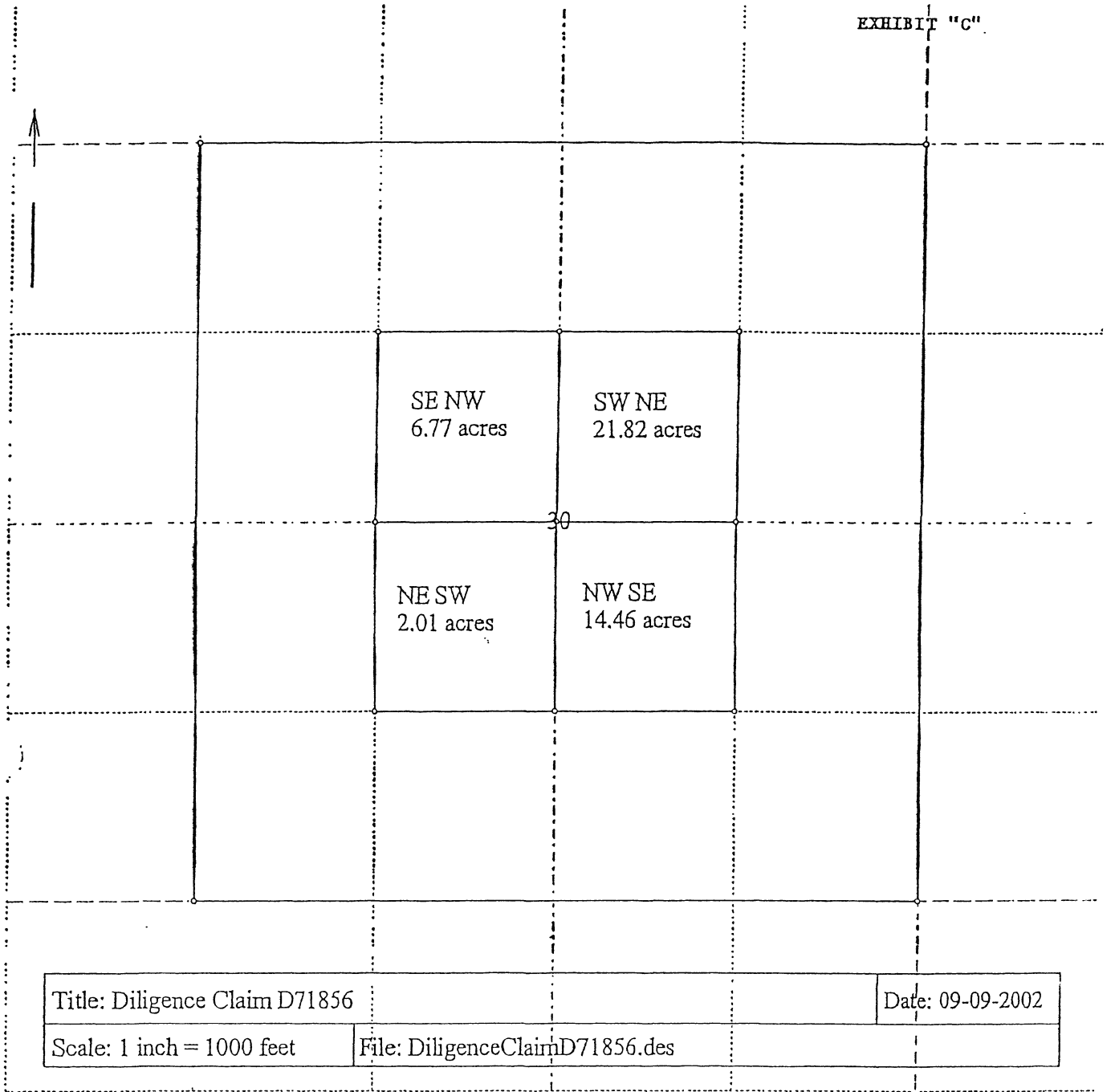
Based upon the foregoing, we believe the Water Right is in good standing in the Office of the State Engineer and titled in the name of Michael S. Keyte.

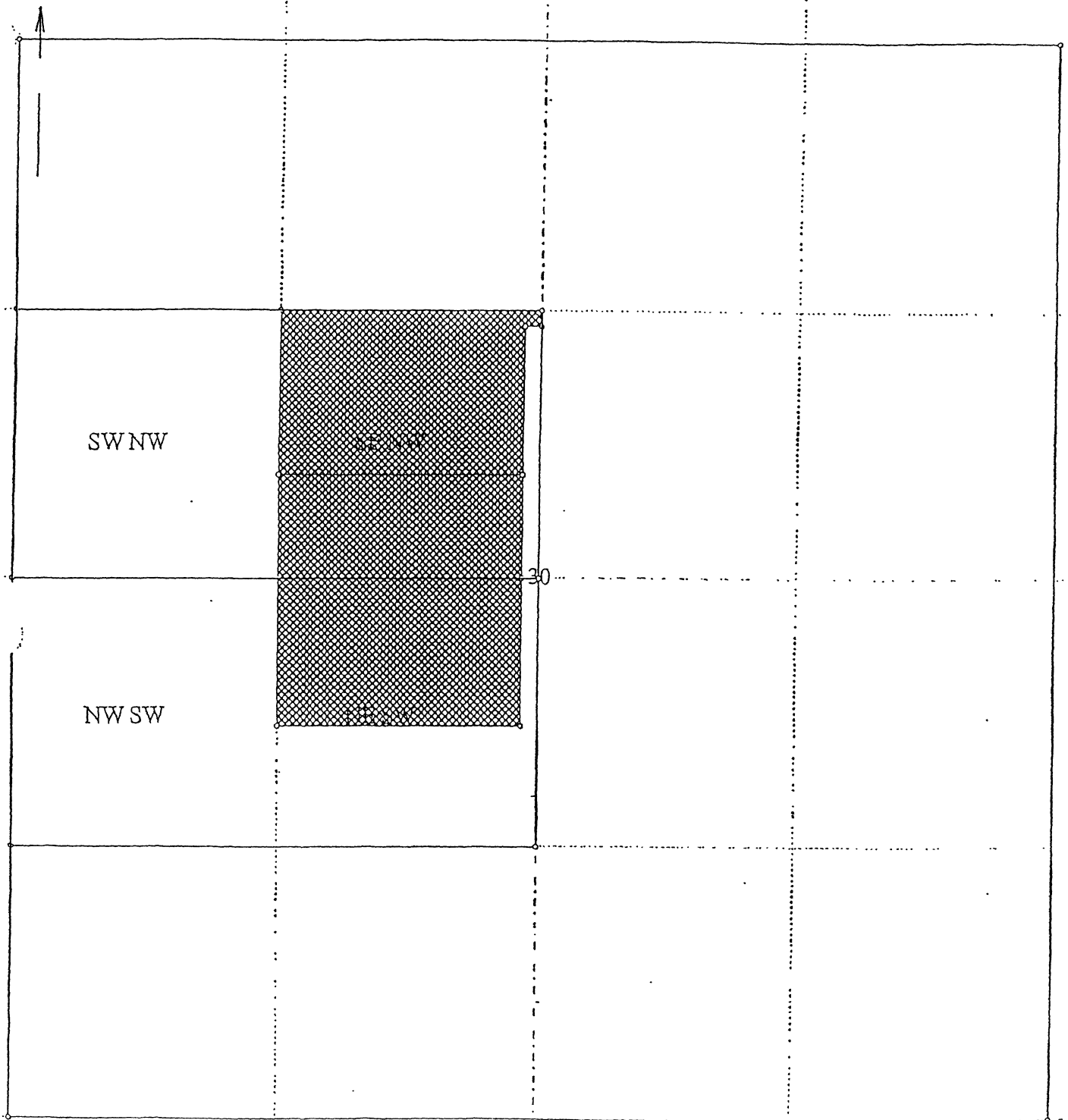


Title: Place of Use Water Right No. 53-1297		Date: 09-09-2002
Scale: 1 inch = 1000 feet	File: 53-1297pou.dwg	
Tract 1: 40.000 Acres: 1742400 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 5280 Feet Tract 2: 40.000 Acres: 1742400 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 5280 Feet Tract 3: 40.000 Acres: 1742400 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 5280 Feet Tract 4: 640.000 Acres: 27878400 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 21120 Feet		
001=/SE,SE,SE,30,11S,1E	012=S00W 1320.00	023=N90E 1320.00
002=/N00E 2640.00	013=N90W 1320.00	024=@0 all,30,11s,1e
003=/N90W 2640.00	014=N00E 1320.00	025=/SE,SE,SE,30,11S,1E
004=S00W 1320.00	015=N90E 1320.00	026=/N00E 5280.00
005=N90W 1320.00	016=@0 sw,ne,30,11s,1e	027=/N90W 0.00
006=N00E 1320.00	017=/SE,SE,SE,30,11S,1E	028=S00W 5280.00
007=N90E 1320.00	018=/N00E 3960.00	029=N90W 5280.00
008=@0 nw,se,30,11s,1e	019=/N90W 1320.00	030=N00E 5280.00
009=/SE,SE,SE,30,11S,1E	020=S00W 1320.00	031=N90E 5280.00
010=/N00E 2640.00	021=N90W 1320.00	
011=/N90W 1320.00	022=N00E 1320.00	



Title: Place of Use Heretofore Change a21754		Date: 09-09-2002
Scale: 1 inch = 1333 feet	File:	





Title: Place of Use Change Application No. a21754	Date: 08-27-2002
Scale: 1 inch = 667 feet	File: Change pou.des

P207
9882

Form No. 1343 (Utah) - 90
ALTA Plain Language Commitment

EXHIBIT "E"

COMMITMENT FOR TITLE INSURANCE

ISSUED BY

Order No. 20761

JUAB TITLE & ABSTRACT COMPANY

240 North Main • P.O. Box 246 • Nephi, Utah 84648

(435) 623-0387 • Fax (435) 623-1000

Holme Roberts & Owen LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

Re: Michael S. Keyte and Nila Keyte

Attention: Steven J. Vuyovich

We agree to issue a policy to you according to the terms of this Commitment. When we show the policy amount and your name as the proposed Insured in Schedule A, this Commitment becomes effective as of the Commitment Date shown in Schedule A.

If the Requirements shown in this Commitment have not been met within six months after the Commitment Date, our obligation under this Commitment will end. Also, our obligation under this Commitment will end when the Policy is issued and then our obligation to you will be under the Policy.

Our obligation under this Commitment is limited by the following:

- The Provisions in Schedule A.
- The Requirements in Schedule B-1.
- The Exceptions in Schedule B-2.
- The Conditions on the inside cover page.

The Commitment is not valid without SCHEDULE A and Sections 1 and 2 of SCHEDULE B.

First American Title Insurance Company



BY *Gary L. Kerwood* PRESIDENT

ATTEST *Mark R. Anderson* SECRETARY

BY *Mary Lou Gray* COUNTERSIGNED

9883

SCHEDULE A

- | | | | |
|----|--|----------------------|----------|
| 1. | Commitment Date: September 4, 2002 at 8:00 A.M. | Commitment No: 20761 | |
| 2. | Policy or Policies to be issued: | Amount | Premium |
| | (a) Owner's Policy | \$ | \$ |
| | Proposed Insured: | | |
| | (b) Loan Policy | \$ | \$ |
| | Proposed Insured: | | |
| | (c) <input checked="" type="checkbox"/> Title Report | | \$200.00 |

3. Fee simple interest in the land described in this Commitment is owned, at the Commitment Date by:
- MICHAEL S. KEYTE and NILA KEYTE,
 husband and wife,
 as joint tenants with full right of survivorship
4. The land referred to in this commitment is situated in the County of Juab, State of Utah, and is described as follows:
- Parcel No. XB-1693-1: Beginning 5 rods West and 31 rods North of the Southeast corner of the Northwest quarter of Section 30, Township 11 South, Range 1 East, Salt Lake Meridian, thence West 75 rods, thence North 49 rods, thence East 80 rods, thence South 80.3 feet, thence West 5 rods, thence South 44 rods 3 links to the place of beginning.
- Parcel No. XB-1693-2: Beginning 5 rods West of the center of Section 30, Township 11 South, Range 1 East, Salt Lake Meridian, thence South 44 rods, thence West 75 rods, thence North 75 rods, thence East 75 rods, thence South 31 rods to the place of beginning.

-0-0-0-0-

SCHEDULE B - Section 1

Requirements

The following requirements must be met:

- (a) Pay the agreed amounts for the interest in the land and/or the mortgage to be insured.
- (b) Pay us the premiums, fees and charges for the policy.
- (c) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded.
- (d) You must tell us in writing the name of anyone not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or exceptions.
- (e) Releases(s) or Reconveyance(s) of item(s) none.
- (f) Other

- (g) You must give us the following information:
 - 1. Any off record leases, surveys, etc.
 - 2. Other

-0-0-0-0-

SCHEDULE B - Section 2

Exceptions

Any policy we issue will have the following exceptions unless they are taken care of to our satisfaction.

PART I:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. Unpatented mining claims: reservations or exceptions in patents or in acts authorizing the issuance thereof: water rights, claims, or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.
7. Taxes for the year 2002 now a lien not yet due (Serial No. XB-1693-1 and XB-1693-2). Taxes for the year 2001 in the amount of \$18.08 paid in full.
8. Reservoir purposes and rights granted to Utah Lake Land, Water and Power Company, a corporation, and to their successors in interest, as shown and described in Judgment recorded on May 15, 1916, as Entry No. 21178, in Book 84, Page 292, and in other instruments, of the records of Juab County, Utah (affects Parcel XB-1693-1).
9. The effect of the 1969 Farmland Assessment Act, wherein there is a five year roll-back provision with regard to assessment and taxation, which becomes effective upon a change in the use of all or part of eligible land, by reason of those certain Applications for Assessment and Taxation of Agricultural Land, recorded on December 8, 1975, as Entry No. 139066, in Book 244, Page 411, of the records of Juab County, Utah, and recorded on December 23, 1992, as Entry No. 198374, in Book 355, Page 262, of the records of Juab County, Utah (affects Parcel XB-1693-2).
10. The effect of the 1969 Farmland Assessment Act, wherein there is a five year roll-back provision with regard to assessment and taxation, which becomes effective upon a change in the use of all or part of eligible land, by reason of that certain Application for Assessment and Taxation of Agricultural Land, recorded on December 13, 1976, in Book 252, Page 415 and 416, of the records of Juab County, Utah, and recorded on August 23, 1993, in Book 358, Page 558, of the records of Juab County, Utah (affects Parcel XB-1693-1).

-0-0-0-

(continued)

The following numbered exceptions _____ will be eliminated in an ALTA Extended Coverage Policy

Continuation of SCHEDULE B - Section 2
Exceptions

No. 20761

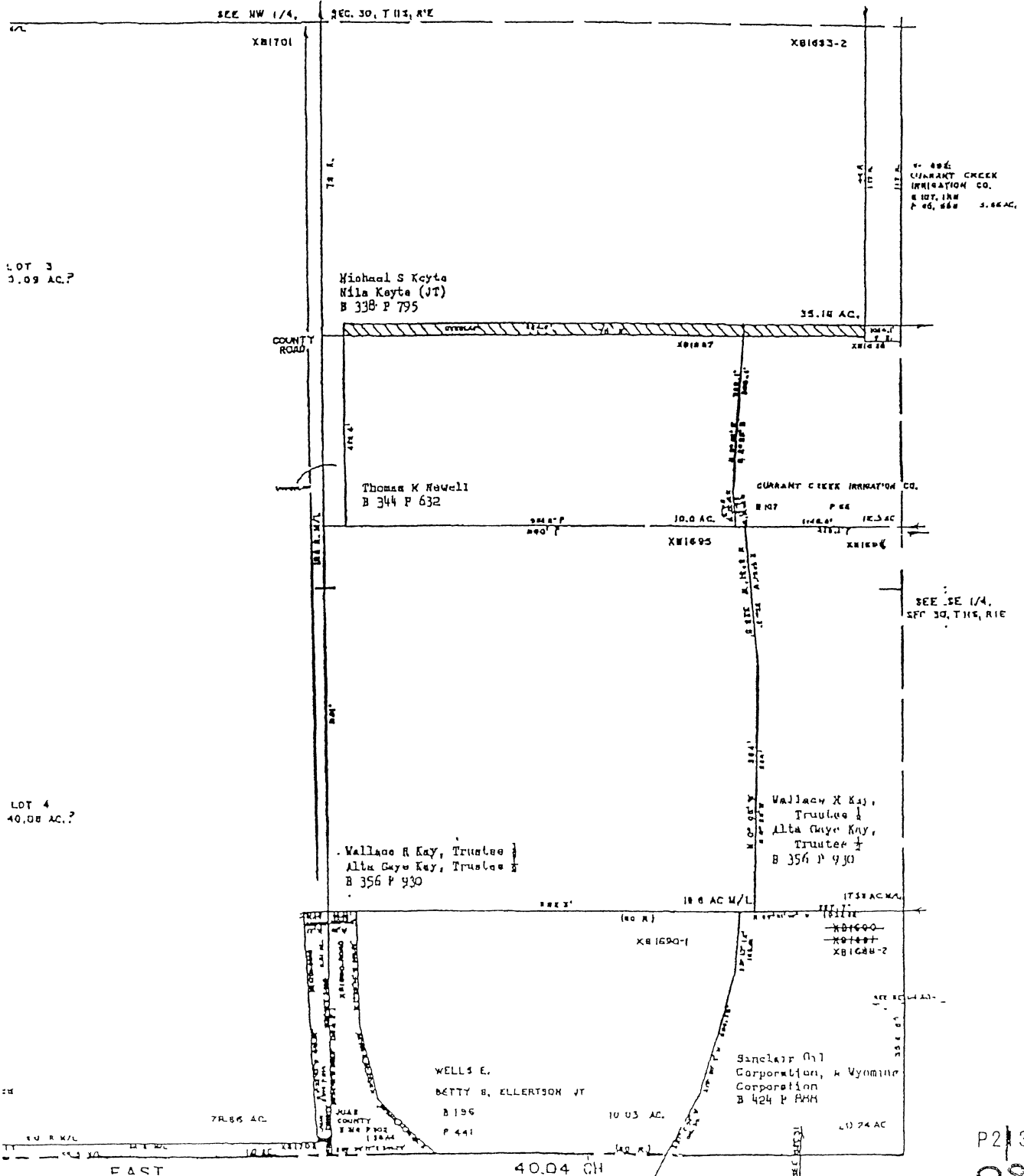
Note: The names of Michael S. Keyte and Nila Keyte have been checked for judgments and those found of record are referenced above.

Note: The policy to be issued as a result of this Commitment contains an Arbitration Clause set forth in the Conditions and Stipulations section. The following is included for the information of the proposed insured;

ANY MATTER IN DISPUTE BETWEEN YOU AND THE COMPANY MAY BE SUBJECT TO ARBITRATION AS AN ALTERNATIVE TO COURT ACTION PURSUANT TO THE RULES OF THE AMERICAN ARBITRATION ASSOCIATION OR OTHER RECOGNIZED ARBITRATOR. A COPY OF WHICH IS AVAILABLE ON REQUEST FROM THE COMPANY. ANY DECISION REACHED BY ARBITRATION SHALL BE BINDING UPON BOTH YOU AND THE COMPANY. THE ARBITRATION AWARD MAY INCLUDE ATTORNEY'S FEES IF ALLOWED BY STATE LAW AND MAY BE ENTERED AS A JUDGMENT IN ANY COURT OF PROPER JURISDICTION.

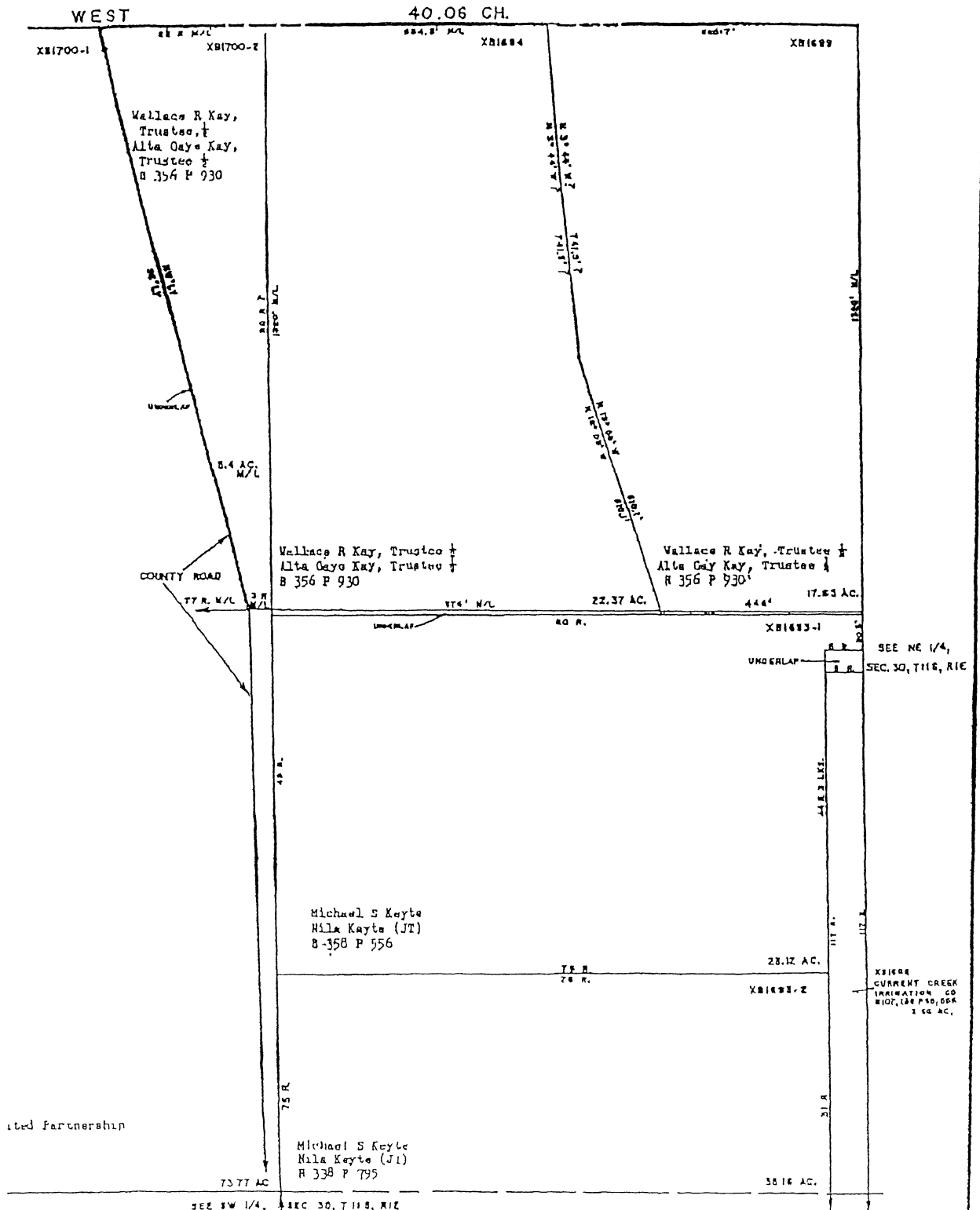
XB 1493-1-12775

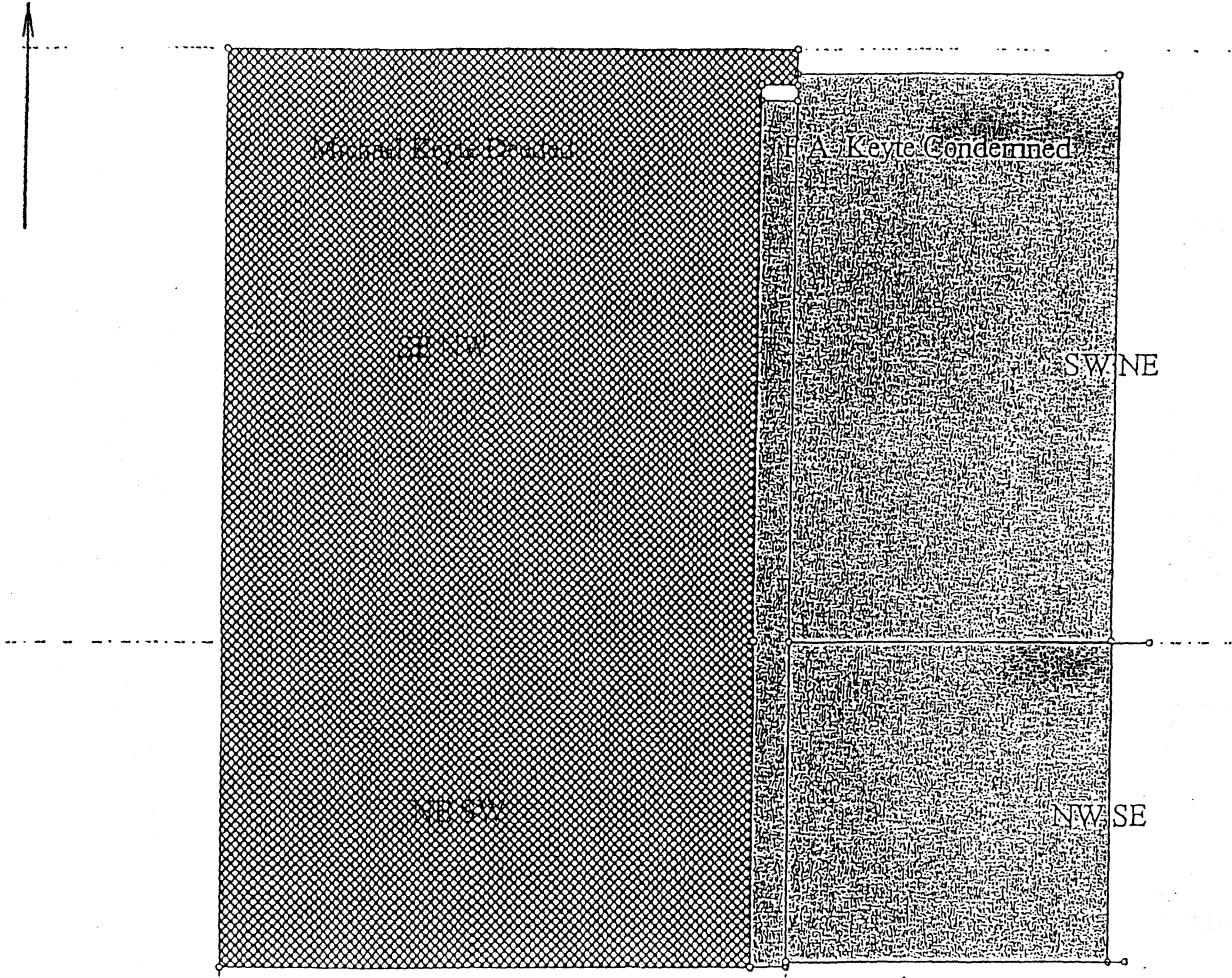
SECTION 30, T 11 S, R 1 E, S.L.B. & M.



P2 | 3
98881

SECTION 30, T 11 S, R 1 E, S.L.B.&M.





Title:		Date: 09-10-2002
Scale: 1 inch = 400 feet	File: MergedUtahLakevKeyteParcels.des	
Tract 1: 0.000 Acres: 0 Sq Feet: Closure = n90.0000w 825.00 Feet: Precision =1/ 1: Perimeter = 825 Feet Tract 2: 0.000 Acres: 0 Sq Feet: Closure = n47.2134w 1054.21 Feet: Precision =1/ 1: Perimeter = 1490 Feet Tract 3: 22.652 Acres: 986728 Sq Feet: Closure = s90.0000e 89.10 Feet: Precision =1/46: Perimeter = 4093 Feet Tract 4: 3.656 Acres: 159266 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 4026 Feet Tract 5: 58.247 Acres: 2537226 Sq Feet: Closure = s00.0000w 2.20 Feet: Precision =1/3059: Perimeter = 6730 Feet Tract 6: 12.100 Acres: 527064 Sq Feet: Closure = s88.4506e 0.00 Feet: Precision >1/999999: Perimeter = 2904 Feet		
001=/nw,se,30,11s,1e	013=/se,sw,30,11s,1e	025=n90e 80p
002=n90e 50p	014=/n0e 116p2l	026=s0w 80.3
003=@0 /nw,se,30,11s,1e	015=s90w 5p	027=s90w 5p
004=s0w 43p7l	016=n0e 117p	028=s0w 75p
005=n90e 47p	017=n90e 5p	029=@0 Tract drawn with mouse
006=@0 Merge 1	018=s0w 117p	030=N4.000 E736.000
7=/sw,ne,30,11s,1e	019=@0 Merge 1	031=s00.0000w 718.12
008=n0e 76p18l	020=/se,nw,30,11s,1e	032=n90.0000w 736.00
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010=s0w 76p18l	022=s0w 44p	034=n89.4119e 736.01
011=s90w 50p	023=s90w 75p	
012=@0 Merge 1	024=n0e 124p	

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Holme Roberts & Owen LLP

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MEMORANDUM

To: Mr. David Graeber

From: Jody L. Williams and Steven J. Vuyovich

Date: September 30, 2002

Re: R. Blake Garrett Water Right

INTRODUCTION

The following Memorandum addresses the issues pertaining to the due diligence undertaken for Water Right No. 53-97 (A26780) which is the subject of the Option and Purchase Agreement executed between Spring Canyon Energy, L.L.C. and R. Blake Garrett on August 5, 2002 (the "Water Right"). Based upon the records available in the file for the Water Right at the Utah Division of Water Rights, and a preliminary title report and conveyance documents supplied to us for Mr. Garrett by First American Title Company of Fillmore, Utah, the Water Right is owned by R. Blake Garrett.

The Water Right is a perfected Application to Appropriate which is evidenced by Certificate No. 11837 (the "Certificate"). The Certificate was issued in the name of R. Blake Garrett and allows the diversion of 3 cfs of water with a priority date of March 25, 1955 from an underground water well located N 1354 feet and W 48 feet from the S1/4 corner of Section 31, T 12S, R 1E, SLBM. The Water Right is used with 70 shares of Nephi Irrigation Company water to irrigate 107 acres as follows: 17 acres in the NW1/4 of the NW 1/4 and 10 acres in the SW1/4 of the NW 1/4 all in Section 31, T 12S, R 1E, SLBM; and 40 acres in the SE1/4 of the NE 1/4 and 40 acres in the SW1/4 of the NE1/4 all in Section 36, T 12S, R 1W, SLBM (see the attached Exhibit "A"). The sole supply of the Water Right is limited to the irrigation requirements of 96 acres which is quantified as the maximum diversion of 384 acre feet of water annually. The water may be used for irrigation from April 1 to October 31 of each year. The Water Right is discussed in more detail below.

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DISCUSSION

The application was originally filed by Herbert H. Winn on March 25, 1955, for the irrigation of 160 acres located in the NW1/4 of Section 25, T 12S, R 1 W, SLBM from April 1 to October 31 of each year and incidental stockwatering from January 1 to December 31 of each year. A flow of 5 cfs of water was to be diverted from a 16 inch underground water well to supply the beneficial uses set forth in the application. The application was approved by the Utah State Engineer ("State Engineer") on May 13, 1960 and proof of beneficial use was first due on October 31, 1961. A Statement of Water User's Claim for the General Determination of Rights in the Utah Lake and Jordan River drainage was filed by Mr. Winn in the Third Judicial District Court of Salt Lake County on November 19, 1971.

Seven Applications for Extension of Time in which to Submit Proof of Beneficial Use ("Extension Requests") were filed by Mr. Winn between May 13, 1960 and May 13, 1974. The State Engineer granted all seven Extension Requests. The last Extension Request was granted to October 31, 1977.

A Segregation Application (Water Right No. 53-596 (A26780)) was filed in the name of Fenton Broadhead on March 23, 1977 and 2 cfs of the 5 cfs of water approved under the Water Right was segregated from the Water Right on June 22, 1977, leaving 3 cfs of water in the original Water Right.

The remaining 3 cfs of the Water Right was assigned to R. Blake Garrett on October 17, 1977, who filed Change Application No. a8787 to change the point of diversion and place of use of the water. An eighth Extension Request filed by Blake Garrett was granted until October 31, 1979.

Blake Garrett filed a Statement of Water User's Claim in his name in the Third Judicial District Court of Salt Lake County for the General Determination of Water Rights in the Utah Lake and Jordan River drainage on October 15, 1979, replacing the Water User's Claim filed by Mr. Winn.

The final corrected Proof of Beneficial Use for the permanent change application filed by Blake Garrett was submitted to the Division of Water Rights on November 8,

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1982, and Certificate No. 11837 was issued on November 24, 1982 for the supplemental irrigation of 107 acres. The issuance of a certificate is the final step in completing an appropriation of water under Utah law and is the evidence that a water right has been perfected.

Under Utah law, an *approved* water right application may be conveyed by assignment or by deed. A *perfected* water right application is conveyed by deed as real property. Generally, an appurtenant water right is conveyed with the land unless the water right is specifically reserved by the grantor in the deed.

Based upon a preliminary title report supplied by First American Title Company of Fillmore, Utah which is attached to this Memorandum as Exhibit "B," five parcels of land in Sections 31 and 36 of T 12S, R 1E, SLBM are owned by the following individuals and entities: R. Blake Garrett and Susan K. Garrett, husband and wife, as joint tenants as to Parcel 1; Nephi City, a municipal corporation, as to Parcel 2; Roscoe R. Garrett as to Parcel 3; Nephi City, a municipal corporation, as to Parcel 4; and R. Blake Garrett and Susan K. Garrett, as joint tenants, as to Parcel 5. See the attached Exhibit "C" for a visual representation of the five parcels.

Based upon the Certificate, the Water Right is used to irrigate 17.698 acres in Parcel 3; 9.302 acres in Parcel 4; and 80 acres in Parcel 5. Based upon the deeds supplied to us by First American Title Company of Fillmore, Utah, Roscoe R. Garrett and Aleen L. Garrett received title to Parcels 3, 4 and 5 by general warranty deed on September 22, 1965; R. Blake Garrett and Susan K. Garrett received title to Parcel 5 by general warranty deed from Roscoe R. Garrett on April 7, 1978; and Nephi City, a municipal corporation, received title to Parcel 4 by general warranty deed on October 15, 2001. As set forth above, R. Blake Garrett was assigned the Water Right application on October 17, 1977. There were no reservations of water in the deed conveying Parcel 5 from Roscoe R. Garrett to R. Blake Garrett and Susan K. Garrett; therefore, even if the Water Right was appurtenant to Parcel 5 and Roscoe R. Garrett could prove he owned an interest in the Water Right at the time of the conveyance, the interest to any water used to irrigate Parcel 5 would have been conveyed to R. Blake Garrett and Susan K. Garrett with the land in that deed. Blake Garrett has never owned Parcels 3 and 4. These parcels were owned by Roscoe R. Garrett at the time the proof was filed on the Water Right. Based upon the documents we have reviewed, Roscoe R. Garrett has never owned an interest in any portion of the Water Right; therefore, unity of title between the owners of the land and the Water Right has never existed in connection with Parcels 3 and 4 and Roscoe R. Garrett

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could not legally pass title to any portion of the Water Right.¹ Despite this fact, Roscoe R. Garrett reserved any and all appurtenant water in the deed conveying Parcel 4 to Nephi City and therefore, Nephi City can have no possible claim of ownership to any portion of the Water Right.

On February 24, 1984, a deed of trust was executed by R. Blake Garrett and Susan Kay F. Garrett in favor of the Federal Land Bank of Sacramento covering the right to use 2.4 cfs of water under Water Right for the irrigation of 80 acres in the South 1/2 of the NE1/4 of Section 36, T 12S, R 1E, SLBM (Parcel 5). On March 29, 1989, the Western Farm Credit Bank (formerly the Federal Land Bank of Sacramento) released and reconveyed to R. Blake Garrett and Susan Kay F. Garrett all of the interest formerly acquired by the trust deed. On February 24, 1989, R. Blake Garrett and Susan Kay Garrett aka Susan Kay F. Garrett executed a Trust Deed with Valley Bank and Trust Company as trustee and beneficiary using the entire Water Right as collateral to secure a loan in the amount of \$179,012.91. The Water Right was assigned to Bank One, Utah (formerly Valley Bank and Trust) and a security agreement was executed in the name of Bank One, Utah on September 15, 1993.

Don Jones leased all of the water which may be diverted under the Water Right during the 1985 and 1988 irrigation seasons. An Application for Temporary Change ("Temporary Change") was filed and approved on the Water Right for the 1985 irrigation season. The Temporary Change allowed the water to be diverted from a different well to irrigate land in Section 20, T 12S, R 1E, SLBM. The Temporary Change expired on October 30, 1985.

One remaining issue requiring consideration is whether the Water Right has been lost to forfeiture or abandonment. Since all water in the State of Utah is "the property of

¹ While a perfected water right is appurtenant to its place of use and may be conveyed with the land it is appurtenant to without specific recitation in the conveyance document, for a conveyance of a water right to occur by appurtenance there is one more condition that must be satisfied. That condition is called "Unity of Title." Unity of Title means that the title to the water right and the title to the land are held by the same owner(s).

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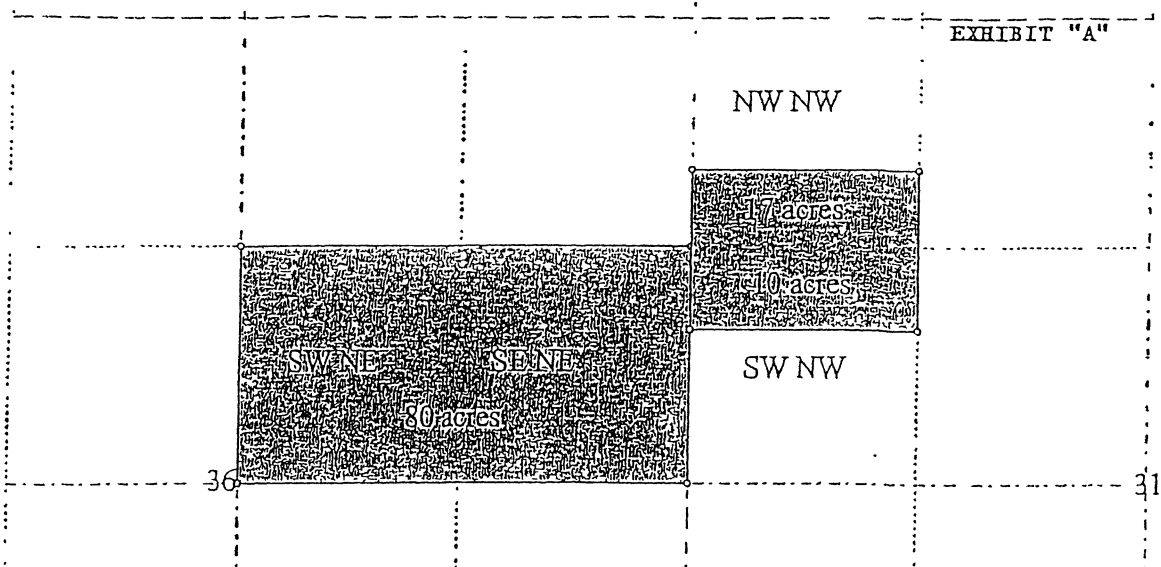
***Privileged and Confidential
Attorney Work-Product***

the public," a person holding title to a water right actually owns only the right to the use of water which has been approved for use under the water right, and a failure to continually put that water to beneficial use may result in a loss of a water right to forfeiture or abandonment. Forfeiture is the deprivation or destruction of the right to use water as a result of a failure to put water that was available in priority under the water right to beneficial use. Abandonment is the voluntary relinquishment of a right to use water with the intention of not reclaiming it. Generally, non-use of water under a water right for any five-year period causes the water right to cease and the water to revert to the public, unless an Application for Non-use of Water is filed with the Utah Division of Water Rights and approved by the State Engineer. We have made no independent investigation of the continuous use of the Water Right, although we know of no facts which would lead us to believe the Water Right has been abandoned or forfeited.

As a protection against loss of the Water Right from forfeiture or abandonment, the Water Right Option and Purchase Agreement executed by Spring Canyon Energy, L.L.C. and Blake Garrett contains the following Representation and Warranty by the Seller which is applicable as of the Closing date and which specifically survives the closing date:

No Forfeiture or Abandonment. The water right is in good standing in the State Engineers Office; the use of the Water Right has been consistent with the water right as on record in the State Engineer's Office; the water right has been used beneficially within the last five (5) years; and neither the water right nor any part, thereof is subject to forfeiture or abandonment for non use.

Based upon the foregoing, we believe the Water Right is in good standing in the Office of the State Engineer and titled in the name of R. Blake Garrett.



Title:		Date: 09-10-2002
Scale: 1 inch = 1000 feet	File: Blake GarrettIrrigatedLand.des	
Tract 1: 80.000 Acres: 3484800 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision > 1/999999: Perimeter = 7920 Feet		
Tract 2: 27.000 Acres: 1176120 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision > 1/999999: Perimeter = 4422 Feet		
001=/SE,SE,SE,36,12S,1W	006=N00E 1320.00	011=n90e 80p
002=/N00E 3960.00	007=N90E 2640.00	012=s0w 54p
003=/N90W 0.00	008=@0 Merge 1	013=s90w 80p
004=S00W 1320.00	009=/nw,nw,31,12s,1e	014=n0e 54p
005=N90W 2640.00	010=/s0w 54p	

Form No. 1344-A (1982)
Plain Language Commitment

SCHEDULE A

ORDER/REFERENCE NO.: 00147327

ESCROW/CLOSING INQUIRIES should be directed to your Escrow officer: Rob Sherman (152), (435) 743-6213. Located at 90 North Main, Fillmore, UT 84631.

1. Effective Date: August 27, 2002 at 7:00 a.m.
2. Policy or Policies to be issued: NONE
3. The estate or interest in the land described or referred to in this commitment and covered herein is fee simple and title thereto is at the effective date hereof vested in:

R. BLAKE GARRETT AND SUSAN KAY F. GARRETT,
Husband and wife, as joint tenants,
As to PARCEL 1,

NEPHI CITY,
A Municipal Corporation Of The State Of Utah,
As to PARCEL 2,

ROSCOE R. GARRETT,
As to PARCEL 3,

NEPHI CITY,
A Municipal Corporation,
As to PARCEL 4,

R. BLAKE GARRETT AND SUSAN KAY F. GARRETT,
Husband and wife, as joint tenants,
As to PARCEL 5

Form No. 1344-A (1982)
 ALTA Plain Language Commitment

Order No. 00147327

4. The land referred to in this commitment is situated in the County of Juab, State of UTAH, and is described as follows:

PARCEL 1: Beginning at the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence East 80 rods; thence South 54 rods; thence West 80 rods; thence North 54 rods, more or less, to the point of beginning. (XB-2034-1)

LESS THE FOLLOWING: Beginning at a point North 89°49'39" East 885.65 feet along the Section line from the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence North 89°49'39" East 438.96 feet along the Section line to the Northeast corner of the Northwest quarter of the Northwest quarter of Section 31; thence South 0°01'29" East 894.99 feet along the East line of the Northwest quarter of the Northwest quarter; thence South 90°00'00" West 443.92 feet; thence North 0°17'35" East 893.68 feet, more or less, to the point of beginning.

EXCEPTING THEREFROM all coal, oil, gas and all other minerals.

PARCEL 2: Beginning at a point North 89°49'39" East 885.65 feet along the Section line from the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence North 89°49'39" East 438.96 feet along the Section line to the Northeast corner of the Northwest quarter of the Northwest quarter of Section 31; thence South 0°01'29" East 894.99 feet along the East line of the Northwest quarter of the Northwest quarter; thence South 90°00'00" West 443.92 feet; thence North 0°17'35" East 893.68 feet, more or less, to the point of beginning. (XB-2034-2)

EXCEPTING THEREFROM all coal, oil, gas and all other minerals.

PARCEL 3: Beginning 54 rods South of the Northwest corner of the Northwest quarter of Section 31, Township 12 South, Range 12 East, Salt Lake Base and Meridian; thence East 80 rods; thence South 54 rods; thence West 80 rods; thence North 54 rods, more or less, to the point of beginning. (XB-2035-1)

LESS THE FOLLOWING: Beginning at a point South 0°01'11" East 891 feet along the Section line and North 90°00'00" East 880.77 feet from the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence North 90°00'00" East 443.92 feet to the East line of the Northwest quarter of the Northwest quarter; thence South 0°01'29" East 907.68 feet along said East line; thence South 90°00'00" West 448.95 feet; thence North 0°17'35" East 907.69 feet, more or less, to the point of beginning.

EXCEPTING THEREFROM all coal, oil, gas and all other minerals.

PARCEL 4: Beginning at a point South 0°01'11" East 891 feet along the Section line and North 90°00'00" East 880.77 feet from the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence North 90°00'00" East 443.92 feet to the East line of the Northwest quarter of the Northwest quarter; thence South

Tab 4

Form No. 1344-A (1982)
ALTA Plain Language Commitment

Order No. 00147327

0°01'29" East 907.68 feet along said East line; thence South 90°00'00" West 448.95 feet; thence North 0°17'35" East 907.69 feet, more or less, to the point of beginning. (XB-2035-2)

EXCEPTING THEREFROM all coal, oil, gas and all other minerals.

PARCEL 5: The South half of the Northeast quarter of Section 36, Township 12 South, Range 1 West, Salt Lake Base and Meridian. (XC-2881)

EXCEPTING THEREFROM all coal, oil, gas and all other minerals.

Form No. 1344-A (1982)
ALTA Plain Language Commitment

Order No. 00147327

**SCHEDULE B - Section 1
Requirements**

The following are the requirements to be complied with:

- (A) Pay the agreed amounts for the interest in the land and/or the mortgage or deed of trust to be insured.
- (B) Pay us the premiums, fees and charges for the policy. In the event the transaction for which this commitment is furnished cancels, the minimum cancellation fee will be \$200.00.
- (C) Documents satisfactory to us creating the interest in the land and/or the mortgage or deed of trust to be insured must be signed, delivered and recorded.
- (D) You must tell us in writing the name of anyone not referred to in this commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or exceptions.
- (E) Release(s), reconveyance(s), and/or other instrument(s), acceptable to the company, including payment(s) of any amount(s) due, for the purpose of clearing encumbrances shown in Schedule B-2, attached hereto, which are objectionable to the proposed insured.
- (F) Other: NONE.

Form No. 1344-A (1982)
Plain Language Commitment

Order No.00147327

SCHEDULE B - Section 2
Exceptions

The policy or policies to be issued will contain exceptions to the following unless the same are disposed of to the satisfaction of the Company.

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easements or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments and any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof, water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.
7. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires of record for value the estate or interest or mortgage thereon covered by this commitment.

THE FOLLOWING AFFECTS PARCELS 1 AND 2:

8. General property taxes for the year 2002 now a lien, not yet due. Tax ID No.XB-2034-1 AND XB-2034-2.

2001 general property taxes were paid in the amount of \$8.14 AND \$0.
9. The effect of the 1969 Farmland Assessment Act, wherein there is a five (5) year roll-back provision with regard to assessment and taxation, by reason of that certain Application for Assessment and Taxation of Agricultural Land.
10. Subject to Easements and right-of-ways of record or enforceable in law and equity.
11. The right, privilege, and authority given to The Mountain States Telephone and Telegraph Company to construct, operate, and maintain its lines of Telephone and Telegraph, including the necessary pole, wires and fixtures upon, over and across the property herein, by instruments dated February 12, 1947 and recorded on March 25, 1947 in Book 132 at page 527 of the records of Juab County, Utah.
12. A Conveyance of Easement granted to NEPIII IRRIGATION COMPANY, for the placement, construction, use, operation, repair, replacement, inspection, and maintenance of a water conveyance and distribution system and appurtenant works, recorded AUGUST 26, 1999 as Entry No. 217938 in Book 405 at page 758 of Official Records.

Form No. 1344-A (1982)
ALTA Plain Language Commitment

Order No. 00147327

13. SUBJECT to the County Road right of way,

THE FOLLOWING AFFECTS PARCELS 3 AND 4:

14. General property taxes for the year 2002 now a lien, not yet due. Tax ID No. XB-2035-1 AND XB-2035-2
- 2001 general property taxes were paid in the amount of \$8.14 AND \$0.
15. The effect of the 1969 Farmland Assessment Act, wherein there is a five (5) year roll-back provision with regard to assessment and taxation, by reason of that certain Application for Assessment and Taxation of Agricultural Land.
16. Subject to Easements and right-of-ways of record or enforceable in law and equity.
17. *Right of ways, easements, roadways, power lines, ditches, canals, pipelines, encroachments and conflicts in boundary lines or other lines or other items which could be determined by and inspection and/or on accurate survey of property herein.*
18. The right, privilege and authority given to The Mountain States Telephone and Telegraph Company to construct, operate and maintain its lines of Telephone and Telegraph, including the necessary pole, wires and fixtures upon, over and across the property herein, by instruments dated February 27, 1947; and recorded on March 25, 1947, in Book 132 at page 537 of the records of Juab County, Utah.
19. A right of way and easement, for utility use, as granted to NEPHI CITY, A MUNICIPAL CORPORATION by Instrument recorded APRIL 7, 1987 as Entry No. 184302 in Book 325 at page 839 of Official Records.
20. A Right of way and easement conveyed unto NEPHI CITY, A MUNICIPAL CORPORATION, for utility use, and particularly for: A. Digging a trench or trenches across said right of way, to lay, maintain, operate, repair, remove and replace pipelines, valves, gates and gate boxes, for the transportation of sewage through and across property herein 10 feet on each side of the following described center line: Beginning at a point which lies South 1754.22 feet and east 31.72 feet from the Northwest corner of Section 31, Township 12 South, Range 1 East, Salt Lake Base and Meridian; thence North 89°16'46" East 307.90 feet along the North 20 feet property herein. Recorded on December 10, 1996 as Entry No. 208971, in Book 381 at page 103 of the records of Juab County, Utah.
21. A Conveyance of Easement granted to NEPHI IRRIGATION COMPANY, for the placement, construction, use, operation, repair, replacement, inspection, and maintenance of a water conveyance and distribution system and appurtenant works, recorded AUGUST 26, 1999 as Entry No. 217938 in Book 405 at page 758 of Official Records.
22. SUBJECT to the County Road right of way.

Form No. 1344-A (1982)
ALTA Plain Language Commitment

Order No. 00147327

THE FOLLOWING AFFECTS PARCEL 5:

- 23. General property taxes for the year 2002 now a lien, not yet due. Tax ID No.XC-2881.

2001 general property taxes were paid in the amount of \$168.73.
- 24. The effect of the 1969 Farmland Assessment Act, wherein there is a five (5) year roll-back provision with regard to assessment and taxation, by reason of that certain Application for Assessment and Taxation of Agricultural Land.
- 25. Subject to Easements and right-of-ways of record or enforceable in law and equity.
- 26. The right, privilege and authority given to The Mountain States Telephone and Telegraph Company to construct, operate and maintain its lines of Telephone and Telegraph, including the necessary pole, wires and fixtures upon, over and across the property herein, by instruments dated February 27, 1947, and recorded on March 25, 1947, in Book 132 at page 537 of the records of Juab County, Utah.
- 27. A right of way and easement for distribution, appurtenant facilities and incidental purposes, as granted to UTAH WATER AND POWER BOARD by Instrument recorded MAY 22, 1954 as Entry No. 86988 in Book 158 at page 347 of Official Records.
- 28. A right of way and easement for digging a trench or trenches across said right of way, to lay, maintain, operate, repair, remove, and replace pipelines, valves, gates and gate boxes for the transportation of sewage through and across the hereinafter described property, as granted to NEPHI CITY, A MUNICIPAL CORPORATION by Instrument recorded APRIL 7, 1987 as Entry No. 184303 in Book 325 at page 41 of Official Records.
- 29. SUBJECT to the County Road right of way.

* * *

Form No. 1344-A (1982)
ALTA Plain Language Commitment

Order No. 00147327

NOTE: The names of R. BLAKE GARRETT, SUSAN KAY F. GARRETT, AND ROSCOE R. GARRETT, have been checked for Judgments and Tax Liens, etc., in the appropriate offices and if any were found would appear as Exceptions to title under Schedule B, Section 2 herein.

Title inquiries should be directed to GARY DAY (435) 283-4900.

* * *

NOTE: The policy (ies) to be issued as a result of this Commitment contain an Arbitration Clause set forth in the Conditions/Conditions and Stipulations Section. The following is included for the information of the proposed insured(s):

Any matter in dispute between you and the company may be subject to arbitration as an alternative to court action pursuant to the rules of the American Arbitration Association or other recognized arbitrator, a copy of which is available on request from the company. Any decision reached by arbitration shall be binding upon both you and the company. The arbitration award may include attorney's fees if allowed by state law and may be entered as a judgment in any court of proper jurisdiction.

* * *

Exceptions 1-7 will be omitted on lenders policy

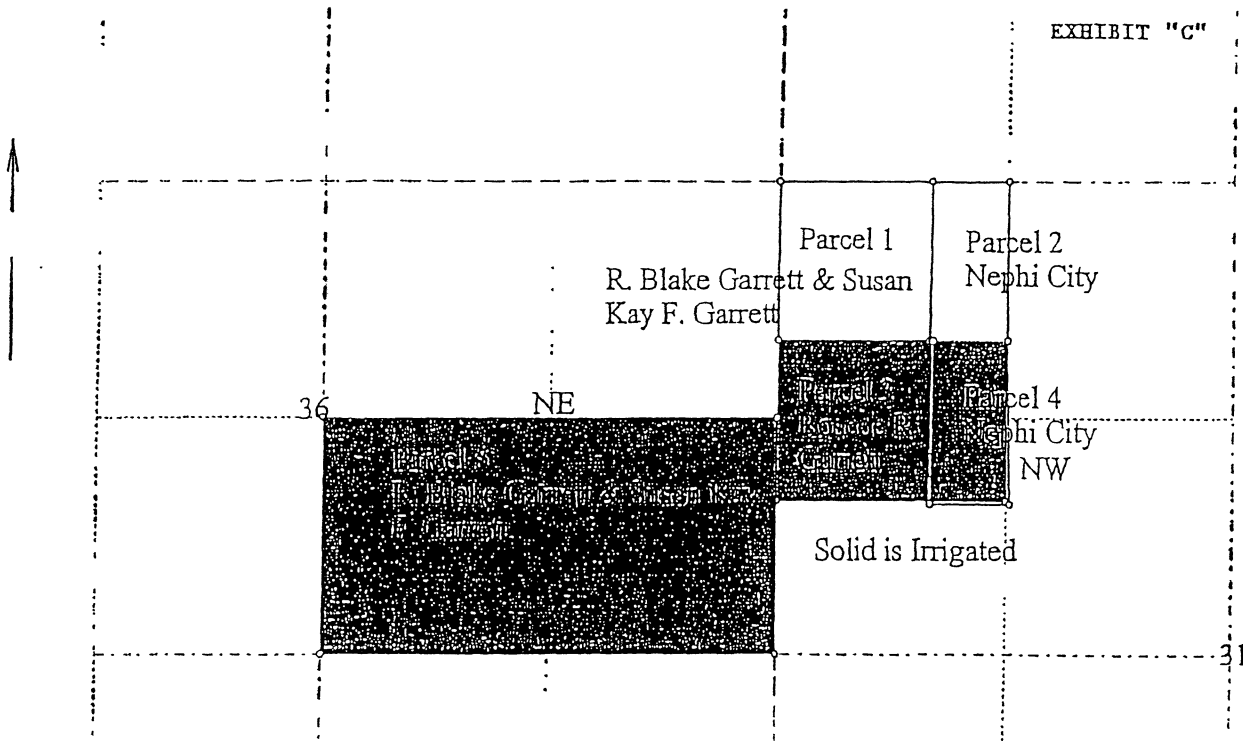
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In the event the transaction for which this commitment was ordered "cancels", please refer to paragraph b under Schedule B, Section 1 for required cancellation fee.

* * *

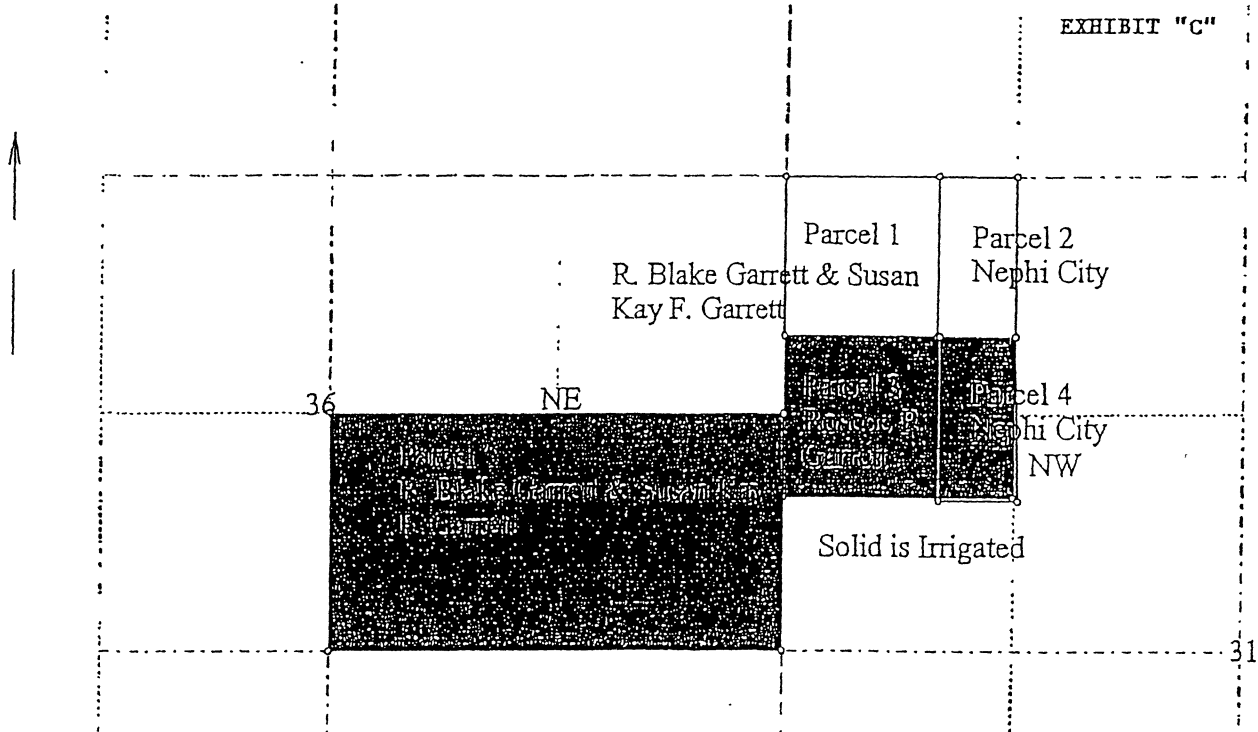
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8/2002

EXHIBIT "C"



Title:		Date: 09-10-2002
Scale: 1 inch = 1000 feet	File: BlakeGarrettParcel1-5.dwg	
+Tract:1: 27.000 Acres: 1176120 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 4422 Feet -Tract:2: 9.063 Acres: 394790 Sq Feet: Closure = n89.3527e 0.00 Feet: Precision =1/550277: Perimeter = 2672 Feet Tract:3: 27.000 Acres: 1176120 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 4422 Feet -Tract:4: 9.302 Acres: 405201 Sq Feet: Closure = s89.2855w 15.85 Feet: Precision =1/171: Perimeter = 2708 Feet Tract:5: 80.000 Acres: 3484800 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 7920 Feet Net Area= 8.635 Acres: 376129 Sq Feet		
001=/nw,31,12s,1e	013=/nw,nw,31,12s,1e	025=n0.1735e 907.69
002=n90e 80p	014=/s0w 54p	026=@0 Merge 1
003=s0w 54p	015=n90e 80p	027=/SE,SE,SE,36,12S,1W
004=s90w 80p	016=s0w 54p	028=/N00E 3960.00
005=n0e 54p	017=s90w 80p	029=/N90W 0.00
006=@1-/nw,31,12s,1e	018=n0e 54p	030=S00W 1320.00
007=/n89.4939e 885.65	019=@0 -nw,31,12s,1e	031=N90W 2640.00
008=n89.4939e 438.96	020=/s0.0111e 891	032=N00E 1320.00
009=s0.0129e 894.99	021=/n90.0000e 880.77	033=N90E 2640.00
010=s90.0000w 443.92	022=n90.0000e 443.92	
011=n0.1735e 893.68	023=s01.0129e 907.68	
012=@0 Merge 1	024=s90.0000w 448.95	

EXHIBIT "C"



Title:		Date: 09-10-2002
Scale: 1 inch = 1000 feet	File: BlakeGarrettParcel1-5.des	
+Tract 1: 27.000 Acres: 1176120 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 4422 Feet -Tract 2: 9.063 Acres: 394790 Sq Feet: Closure = n89.3527e 0.00 Feet: Precision =1/550277: Perimeter = 2672 Feet Tract 3: 27.000 Acres: 1176120 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 4422 Feet -Tract 4: 9.302 Acres: 405201 Sq Feet: Closure = s89.2855w 15.85 Feet: Precision =1/171: Perimeter = 2708 Feet Tract 5: 80.000 Acres: 3484800 Sq Feet: Closure = n00.0000e 0.00 Feet: Precision >1/999999: Perimeter = 7920 Feet Net Area= 8.635 Acres: 376129 Sq Feet		
001=/nw,31,12s,1e	013=/nw,nw,31,12s,1e	025=n0.1735e 907.69
002=n90e 80p	014=/s0w 54p	026=@0 Merge 1
003=s0w 54p	015=n90e 80p	027=/SE,SE,SE,36,12S,1W
004=s90w 80p	016=s0w 54p	028=/N00E 3960.00
005=n0e 54p	017=s90w 80p	029=/N90W 0.00
006=@1-/nw,31,12s,1e	018=n0e 54p	030=S00W 1320.00
007=/n89.4939e 885.65	019=@0 -nw,31,12s,1e	031=N90W 2640.00
008=n89.4939e 438.96	020=/s0.0111e 891	032=N00E 1320.00
009=s0.0129e 894.99	021=/n90.0000e 880.77	033=N90E 2640.00
010=s90.0000w 443.92	022=n90.0000e 443.92	
011=n0.1735e 893.68	023=s01.0129e 907.68	
012=@0 Merge 1	024=s90.0000w 448.95	

C. Water Rights Option and Purchase Agreements

WATER RIGHT OPTION AND
PURCHASE AGREEMENT

THIS WATER RIGHT OPTION AND PURCHASE AGREEMENT ("Agreement") is entered into as of the 14th day of August, 2002, by and between MICHAEL S. KEYTE, whose mailing address is P.O. Box 274, Mona, UT 84645 ("Seller") and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company whose mailing address is P.O. Box 774000, #359, Steamboat Springs, CO 80477 ("Buyer"). The Seller and Buyer are referred to collectively in this Agreement as the "Parties."

RECITALS

A. Seller owns Water Right No. 53-1431, Application No. D6919 and approved Change Application No. a21754 (the "Water Right") and desires to sell the Water Right to Buyer. Seller represents that the Water Right has been quantified by the Utah State Engineer's Office ("State Engineer") as yielding 163.22 acre feet annually.

B. Buyer desires to purchase the Water Right from Seller for industrial use at a facility (the "Facility") to be constructed according to the following terms and conditions. Seller desires to sell the Water Right to Buyer under the same terms and conditions.

C. Buyer and Seller entered into a Water Right Option and Purchase Agreement on May 30, 2002 for the Water Right. The Parties desire that this Agreement replace and supersede the May 30, 2002 Water Right Option and Agreement in its entirety.

AGREEMENT TERMS

In consideration of the mutual promises, covenants, and conditions of this Agreement, the Parties agree as follows:

1. Option to Purchase. Seller hereby sells, gives and grants to Buyer, and its assigns, the exclusive option to purchase (the "Option"), for the price hereinafter set forth, all of Seller's right, title, estate and interest in and to the Water Right. The Option becomes effective when this Agreement has been signed by the Parties and the Initial Option Fee provided for in Section 2 has been deposited with the escrow agent designated in Section 4 below (the "Escrow Agent").

1.1. Purchase Price. The price to be paid for the Water Right shall be Four Thousand Dollars (\$4,000.00) for each acre-foot presently approved for diversion under the Water Right, for a total purchase price of Six Hundred Fifty-Two Thousand Eight Hundred Eighty Dollars (\$652,880.00) (the "Purchase Price").

2. Consideration for Option. As consideration for the Option, Buyer shall pay to Seller Six Thousand Five Hundred Twenty-Eight and Eighty Hundredths Dollars (\$6,528.80) as the

initial option fee (the "Initial Option Fee"). If Buyer elects to extend the Option beyond the initial 6-month period, Buyer shall make the additional Option payments for each extension as further described herein.

2.1. The Buyer shall within 10 days from the date this Agreement is signed by the Parties deposit the Initial Option Fee in escrow in an interest-bearing account to be held by the Escrow Agent. The Initial Option Fee, together with all accrued interest thereon, shall be released to Seller and become non-refundable to Buyer upon Buyer's written notice to Seller and Escrow Agent that all of the conditions precedent set forth in Sections 7.1 through 7.6 of this Agreement have been satisfied. The Initial Option Fee is in addition to, and shall not be credited against, the Purchase Price.

2.2. Buyer may extend the Option for up to 36 months from the date the Parties sign this Agreement by depositing an additional Option payment with the Escrow Agent in the amount of Six Thousand Five Hundred Twenty-Eight and Eighty Hundredths Dollars (\$6,528.80) (a "Deposit") for each six (6) months that Buyer elects to extend the Option, and by giving notice as set out in Section 3. The first such Deposit shall be made, if at all, within six months from the date Seller executes this Agreement. Each time Buyer elects to extend the Option period, as further provided in Section 3, Buyer shall, within six (6) months of the previous Deposit, deliver another Deposit to the Escrow Agent. Each Deposit shall be paid into the interest-bearing escrow account established by the Escrow Agent and administered by it in conformance with the terms and provisions of this Agreement. For example, if the Initial Option Fee was deposited into Escrow on August 1, 2002 and Buyer thereafter gives written notice of an election to extend this Option, Buyer must give the notice as provided in Section 3 and deliver a Deposit to the Escrow Agent on or before the first business day after February 1, 2003. If the Option is again extended, another Deposit must be delivered to the Escrow Agent on or before August 1, 2003.

2.3. If Buyer exercises its Option as hereinafter provided, the principal amount of the Deposits, together with all accrued interest thereon, shall be credited to the Purchase Price.

3. Period of Option and Extension. The initial period of duration of this Option is six (6) months from the date the Parties sign this Agreement (the "Option Period"). At any time during the Option Period, Buyer has the right to exercise its Option to purchase the Water Right or, at its sole discretion, terminate the Option. The Option Period may be extended in accordance with the following:

3.1. At the end of the initial Option Period, Buyer may elect to extend the Option for additional six (6) month periods upon written notice to Seller and payment of a Deposit in the same amount and frequency as described in Section 2.2 hereof for each additional six-month period.

3.2. If Buyer elects to extend the Option, it shall provide Seller with written notice of its intention no later than ten (10) days prior to the expiration of the Option period together with payment of the required Deposit to the Escrow Agent as set forth in Section 2.2. Buyer shall pay an additional Deposit for each six (6) month period that Buyer elects to extend the Option.

3.3. Buyer may extend the Option to a maximum of thirty-six (36) months. The Option shall expire upon failure of Buyer to extend the Option strictly on the terms set out in this Agreement, upon expiration of 36 months from the date the Parties sign this Agreement, or upon exercise of the Option by Buyer, whichever occurs first.

4. Escrow Agent and Opening of Escrow. The parties hereby designate Juab Title and Abstract Company of 240 North Main Street, P.O. Box 246, Nephi, Utah 84648¹ as the Escrow Agent and closing agent for all purposes under this Agreement. Buyer shall, within 10 days from the date this Agreement is signed by the Parties deposit the Initial Option Fee with the Escrow Agent and deliver an executed copy of this Agreement to the Escrow Agent.

5. Alienation of Interests; Encumbrances; Leases. As further consideration for the sum paid for this Option, Seller shall not sell, convey, or otherwise encumber the Water Right, in any way, during the Option Period and if applicable, any additional extension(s). Seller further agrees that he will not lease the Water Right or any part thereof during either the Option Period or any extension of the Option Period without first securing the written approval of the Buyer.

5.1. Notice of Default; Trustee's Sale; Repossession; Foreclosure; Civil Litigation. In the event of any notice of default, trustee's sale, repossession, foreclosure, civil litigation or other action to enforce a lien or encumbrance against the Water Right, Buyer may take any reasonable steps necessary to prevent or forestall such action if such action would impair Buyer's rights under this Agreement. Such action by Buyer may include, but shall not be limited to, directing that any portion of the Initial Option Fee or any Deposit(s) paid into escrow may be paid to any lienholder or creditor initiating action against Seller or the Water Right. Any amounts paid by Buyer on behalf of Seller under this Section may be offset against the Purchase Price, at Buyer's election.

6. Right of Entry. During the Option Period or any applicable extension, Seller shall permit Buyer, its employees and agents, to enter upon the property of Seller to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

7. Conditions Precedent. Sections 7.1 through 7.6 shall be express conditions precedent to the release of the Initial Option Fee, except that completion of Buyer's obligations under Section 7.3 shall not be a condition precedent to release of the Initial Option Fee.

7.1. The Initial Option Fee shall be placed into escrow with the Escrow Agent for up to a sixty (60) day due diligence period during which Buyer will investigate and confirm the nature of the Water Right (the "Due Diligence Period"). To assist Buyer in the Due Diligence Period, Seller shall, within two weeks of the execution of this Agreement, deliver at his expense, a preliminary title report, together with legible copies of all documents referred to therein, including, but not limited to, the real property that is shown as the place of use of the Water Right in the records of the State of Utah, Division of Water Rights. If, prior to the end of the

¹ Items should be sent to the attention of Mary Lou Sperry. Telephone number: (435)623-0387. Email: juabtitle@nebonet.com
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Due Diligence Period, Buyer objects to the nature, sufficiency, or title to the Water Right, Seller shall have up to sixty (60) days after written notice to cure said deficiency. During such cure period, the Initial Option Fee shall continue to be held in escrow. If deficiencies are not cured by the end of the cure period or such additional time as may be approved by Buyer, the Initial Option Fee shall be returned to Buyer and this Agreement shall terminate.

7.2. Seller shall file with the State Engineer a permanent change application as provided for under Utah Code Annotated § 73-3-3 seeking authorization for the Water Right to be diverted from Buyer's proposed underground water well(s) and used at Buyer's Facility to be constructed in the NE¼ of the SE¼ of Section 23, Township 11 South, Range 1 West, SLBM or such other location within the Utah Lake basin upstream of Mona Dam specified by Buyer (the "Change Application"). In this regard, the Parties are obligated as follows:

(a) As soon as possible following the execution of this Agreement, but in no case later than August 15, 2002, or such later date as may be approved by Buyer, Seller shall prepare and file the Change Application with the State Engineer to facilitate Buyer's intended use of the Water Right by Buyer. The Change Application shall show Buyer as the co-applicant and shall be filed at the sole expense of Buyer. It is anticipated that the approved Change Application will be conveyed by the same deed conveying the Water Right at closing.

(b) Seller shall throughout processing of the Change Application give good faith cooperation and assistance to Buyer regarding the Change Application. Such good faith assistance and cooperation shall be a continuing obligation under this Agreement, but shall not be a condition precedent to release of the Initial Option Fee.

7.3. Documents evidencing Seller's and Buyer's authority, including powers of attorney, if needed, and such other evidence, as required, of Seller's and Buyer's authority to consummate the transaction contemplated herein.

7.4. Delivery by Seller to the Escrow Agent of a duly executed and acknowledged Water Right Deed, in the form attached hereto as Exhibit "A," conveying title to the Water Right and Change Application to Buyer and any and all other documentation reasonably required by Buyer's counsel to consummate this transaction. Such delivery shall be a conditional delivery conditioned upon Buyer's exercise of the Option and completion of closing as set out in this Agreement.

7.5. Execution and delivery to the Escrow Agent by the Parties of a Memorandum of *Water Right Option in substantially the form attached hereto as Exhibit "B" and recordation of said Memorandum in the office of the Juab County Recorder of Juab County, Utah.*

7.6. Delivery to the Escrow Agent of any approvals of this Agreement required by the holder of any lien or encumbrance against the Water Right.

7.7. If the conditions precedent set forth in Sections 7.1 through 7.6 have been reasonably satisfied, Buyer shall notify Seller and the Escrow Agent of such in writing and the

Initial Option Fee shall become non-refundable to Buyer at that time. The non-refundable Initial Option Fee shall then be released to Seller.

8. Water Rights Approvals. Buyer's use of the Water Right requires that the State Engineer approve the Change Application provided in Section 7.2. Buyer's use also requires that at least fifty percent (50%), or 81.61 acre feet of the 163.22 acre feet of water presently approved for diversion annually under the Water Right, be approved as depletion under the approved Change Application described in 7.2 hereof. In that regard:

8.1. Seller shall diligently prosecute the Change Application to a final non-appealable approval by either the State Engineer or by the courts on appeal of any decision of the State Engineer. If the State Engineer issues a decision that rejects the Change Application, or approves the Change Application but limits depletion to less than 81.61 acre feet per year, the Buyer may elect to either terminate this Option or to seek judicial review of the State Engineer's decision. The Buyer may also elect to terminate this Agreement if the State Engineer issues a favorable decision (a decision approving the Change Application and designating at least 81.61 acre feet of depletion), but a third party appeals the favorable decision and the appeal is not resolved within 60 days. If a judicial review action is filed by a third party and Buyer does not terminate this Agreement, or if Buyer elects to seek judicial review of a decision from the State Engineer, Buyer shall bear the expense of the judicial review action.

8.2. If the State Engineer approves less than 81.61 acre feet as depletion under said approved Change Application, or if a third party appeals a favorable decision of the State Engineer, Buyer may unilaterally withdraw from this Agreement upon written notice and any Deposits and all interest thereon placed in escrow pursuant to Section 2, (which by definition do not include the Initial Option Fee), shall be immediately refunded to Buyer. Seller shall be entitled to retain the Initial Option Fee if Buyer withdraws under this Section 8.2.

8.3. If Buyer fails to exercise its Option hereunder, Seller may withdraw the Change Application at any time after termination of the Option.

9. Exercise of Option. The Buyer and Seller each shall use their best efforts in accomplishing the conditions precedent in Section 7 and the approval of the Change Application as described in Section 8. If Buyer elects to exercise the Option, the Option shall be exercised by Buyer giving written notice to Seller.

10. Closing of Purchase. If Buyer exercises the Option, the closing of such purchase ("Closing") shall be completed in accordance with this Section. The Parties may also provide additional written instructions if the instructions are consistent with this Agreement. The Parties instruct and authorize the Escrow Agent to close the purchase transaction as directed in this Section and any consistent written instructions provided by the Parties.

10.1. Closing Date. The transaction contemplated herein shall close ninety (90) days from the date that Buyer exercises this Option as set forth in Section 9 above, at the Escrow Agent's office, or at such other time and place as may be mutually agreed upon by the Parties. In no event, however, shall Buyer be obligated to close the transaction unless the conditions

precedent as set forth in Sections 7.1 through 7.6 herein shall have first been satisfied, and the Change Application approved as provided in Section 8, or if Buyer elects at its sole discretion, for any reason whatsoever, to not exercise the Option and thereby decides to terminate the Agreement. The Closing Date and Closing are terms used herein to mean the date the Purchase Price is paid into escrow and the Water Right Deed and other instruments of conveyance of the Water Right, if necessary, are filed for recordation in the office of the Juab County Recorder, Juab County, Utah.

10.2. Buyer's Closing Deliveries. At the Closing, Buyer shall deliver to Seller the following:

10.2.1. Payment of the balance of the Purchase Price in cash or by certified or cashier's check payable to Seller or Seller's designee, plus Buyer's share of the Closing costs.

10.2.2. The documents evidencing the authority of Buyer to consummate the transaction contemplated herein that were deposited with the Escrow Agent as provided for in Section 7.3.

10.2.3. Any and all other documentation reasonably required by Seller's legal counsel to consummate this transaction.

10.3. Seller's Closing Deliveries. At the Closing, Seller shall deliver to Buyer the following:

10.3.1. The duly executed and acknowledged Water Right Deed deposited with the Escrow Agent prior to disbursement of the Initial Option Fee as provided for in Section 7.4 herein. Such execution and delivery prior to the disbursement of the Initial Option Fee shall be deemed complete delivery by Seller to the Escrow Agent, subject to the provisions of this Section 10, for the purposes of Closing the sale of the Water Right and Change Application. Such execution and delivery shall be deemed irrevocable except upon termination of this Agreement in accordance with the terms hereof. Seller shall nevertheless, if requested by Buyer, execute and deliver at the time of the Closing a good and sufficient Water Right Deed in the form attached hereto as Exhibit "A," conveying title to the Water Right and approved Change Application to Buyer showing any changes as necessary at the time of Closing.

10.3.2. The documents evidencing the authority of Seller to consummate the transaction contemplated herein that were deposited with the Escrow Agent as provided for in Section 7.3.

10.3.3. Any and all other documentation reasonably required by Buyer's and Seller's counsel to consummate this transaction.

10.4. Costs and Expenses. Seller and Buyer shall pay and be responsible for the following costs and expenses:

10.4.1. Seller's Costs Seller shall pay the costs incurred by him for legal, accounting and other consultants' services together with all other costs incurred by Seller in the satisfaction

of Seller's obligations under this Agreement, plus one-half of the Escrow Agent's fees and expenses incurred by the Parties in completing the Closing.

10.4.2. Buyer's Costs. Buyer shall pay the costs incurred by it for legal, accounting and other consultants' services, together with all other costs incurred by it in the satisfaction of its obligations under this Agreement, plus one-half of the Escrow Agent's fees and expenses incurred by the Parties in completing the Closing. Buyer shall pay all recordation fees for recording the Memorandum of Water Right Option provided for in Section 7.5 and the Water Right Deed upon Closing.

10.5. Possession. Seller shall cause such reconveyances of trust deed, mortgage releases, cancellation of financing statements, and any other instruments as necessary to represent release of any liens or encumbrances against the Water Right and approved Change Application to be removed prior to Closing, and Buyer shall be entitled to actual and exclusive right and possession of the Water Right and approved Change Application, free of any person or other entity having or claiming any possessory right, title or interest with respect thereto, as of the Closing.

10.6. The Escrow Agent shall record all documents necessary to release liens and encumbrances against the Water Right and approved Change Application; and record the Water Right Deed from Seller to Buyer at the time of Closing.

10.7. The Escrow Agent shall disperse the Purchase Price proceeds first to pay Seller's share of Closing costs, tax prorations and other such Closing Costs; second to retire any liens or encumbrances against the Water Right and Change Application; and third, to Seller or to such persons as Seller designates.

11. Seller's Representations and Warranties. Seller hereby makes the following representations and warranties, (it being understood and agreed by the Parties that all references herein to representations and warranties pertaining to the Water Right itself, and including the Change Application shall be applicable as of the Closing Date) and agrees that such representations and warranties shall survive the Closing:

11.1. Marketable Title. Seller shall have, as of the date of Closing, good and marketable title to the Water Right, subject to no liens, taxes, encumbrances, restrictions or adverse easements or interests of any kind or nature whatsoever.

11.2. No Forfeiture or Abandonment. The Water Right is in good standing in the State Engineer's office; the use of the Water Right has been consistent with the Water Right as on record in the State Engineer's office; the Water Right has been used beneficially within the last five (5) years; and neither the Water Right nor any part thereof is subject to forfeiture or abandonment for non use.

11.3. Authority. Seller and the person executing this Agreement on behalf of Seller have the full right, power and authority to enter into this Agreement and to consummate the transactions contemplated herein.

11.4. Defaults. Seller is not in default in respect of any judgment, order, writ, injunction, decision, law, ordinance or regulation of any court or governmental authority or under any lease, mortgage, or other agreement to which it, or the Water Right, Change Application, or any portion thereof, is or might be subject which might prohibit, delay, or interfere with the consummation of the transaction contemplated hereby or affect the right, title, and interest or the condition of the Water Right and Change Application; and the execution and delivery of this Agreement. Further, the performance by Seller of its obligations hereunder will not (i) result in the breach or termination of or violate or constitute a default under any such lease, mortgage, or other agreement, or (ii) result in the creation or imposition of any lien, charge, or encumbrance upon the Water Right or Change Application or any portion thereof, or (iii) violate any law, regulation, judgment, or order of any governmental entity.

11.5. Documents. All documents delivered to Buyer pursuant hereto are, to the best of Seller's knowledge, true, correct, and complete copies of the original documents. The Water Right and Change Application will not at Closing be subject to any unrecorded instruments affecting the title to or the right to the use of the Water Right for the Buyer's purposes as set forth herein.

11.6. Maintenance Pending Closing. From and after the date of execution hereof and until Closing, Seller shall maintain and manage the Water Right so as to do nothing which might damage the value or condition of the Water Right and Change Application. Seller shall protect the Water Right from forfeiture or abandonment. Seller will not knowingly engage in any conduct that will adversely affect the likelihood of a favorable decision on the Change Application. If necessary to prevent forfeiture or abandonment of the Water Right, at Buyer's sole discretion, Seller will, upon Buyer's request, file an Application for Nonuse of Water on any unused portion of the Water Right.

11.7. Litigation and Claims. Seller has not received any notice of or is otherwise not aware of any claims, actions, suits or other proceedings, whether pending, threatened, or to the best of his knowledge, contemplated by any governmental department or agency or any corporation, partnership or other entity or person whatsoever, or to the best of his knowledge, after due inquiry, any facts which could constitute the basis for any claim or litigation which might prohibit, delay or interfere with the consummation of the transaction contemplated hereby or which, if adversely determined, might affect the right, title and interest which may be acquired by the Buyer in and to the Water Right and Change Application, or the condition or the value of the Water Right and Change Application.

11.8. Available Data. At all reasonable times hereafter, up to and including the Closing, Seller and his accountants, engineers, and agents shall make available to Buyer, its counsel and/or accountants or other consultants, for examination at reasonable times, all reports, studies and all other relevant documents reasonably pertaining to the Water Right and Change Application.

11.9. Water Right. The Water Right has been accurately and completely described in this Agreement. All necessary approvals for use of the Water Right for Seller's present uses have

been obtained by or on behalf of Seller and are in full force and effect. The Water Right is titled in Seller's name at the Utah Division of Water Rights.

12. Buyer's Representations and Warranties. In order to induce Seller to execute this Agreement, and to enter in the transaction contemplated hereby, Buyer hereby represents and warrants that:

12.1. Full Power and Authority. Buyer is a limited liability company organized and existing under the laws of the State of Utah and possesses the capability, power, and legal authority to perform all acts and obligations required of it hereunder.

12.2. No Conflict. The execution, delivery, and performance of this Agreement by the Buyer and the consummation of the transactions contemplated herein will not (i) result in a breach or acceleration of or constitute a default or event of termination under the provisions of any agreement or instrument to which Buyer is a party or bound; or (ii) constitute or result in the violation or breach by Buyer of any judgment, order, writ, injunction, or decree issued against or imposed upon Buyer or result in the violation of any applicable law, ordinance, rule or regulation of any governmental authority.

13. Risk of Loss. Risk of loss to the Water Right shall be Seller's until Closing and transfer of title as herein provided, except any loss or reduction, subject to the provisions of Section 8.2 hereof, that occurs as a result of any decision on the Change Application.

14. 1031 Tax Free Exchange. Buyer agrees to allow Seller to convey the Water Right and Change Application through a like kind exchange pursuant to Section 1031 of the Internal Revenue Code and agrees to reasonably cooperate with Seller in accomplishing such exchange, so long as the exchange will not injure or prejudice the interests of Buyer in any way. Seller shall be solely responsible for making the arrangements necessary for such an exchange. Buyer shall not be obligated to participate in any transaction under this Section which imposes any cost or any liability whatsoever on Buyer. The Parties acknowledge that the arrangement of a like kind exchange under this Section would be done solely for Seller's convenience and that any such arrangement shall not constitute part of the consideration paid by Buyer for the Water Right and Change Application or Option under this Agreement. Any exchange shall not delay the Closing date without Buyer's prior written consent or increase the cost of Closing to Buyer. Buyer shall not be required to acquire in its own name or in the name of an agent such property as may be acquired by Seller to effectuate such an exchange.

15. Lease of Water Right and Change Application. The Parties acknowledge that the ninety (90) day period between the exercise of the Option and the Closing Date is for the sole purpose of facilitating Seller's like kind exchange described in Section 14 (the "Exchange Period") and that Buyer may need to divert and use the water made available under the Water Right and Change Application during the Exchange Period. If requested by Buyer, Seller shall lease the water available under the Water Right and Change Application to Buyer for One Dollar (\$1.00) during the Exchange Period. No interest on the Purchase Price of the Water Right and Change Application shall be charged to Buyer during the Exchange Period.

16. Remedies in the Event of Default.

16.1. Seller's Default. In the event of Seller's default hereunder for any reason, Buyer shall deliver written notice hereof to Seller. If Seller does not cure such default within ten (10) days after receiving written notice thereof, Buyer shall be entitled to pursue all rights or remedies allowed to it at law or in equity.

16.2. Buyer's Default. The Parties recognize that Seller will incur expense in connection with the transaction contemplated by this Agreement and that it is extremely difficult and impractical to ascertain the extent of the detriment to Seller caused by Buyer's breach of this Agreement and the failure of the consummation of the transaction contemplated herein or the amount of compensation Seller should receive as a result of Buyer's breach or default. In the event of Buyer's default hereunder for any reason, Seller shall deliver written notice thereof to Buyer. If Buyer does not cure within ten (10) days after receiving written notice and the sale of the Water Right and Change Application is not consummated because of Buyer's default, then the retention of the sums in the escrow account shall be Seller's sole and exclusive remedy and not a penalty, and shall be in lieu of any other monetary or other relief.

17. Brokerage. Seller shall pay and be solely responsible for the payment of any and all brokerage commissions or other compensation due to any person or entity on account of the execution or performance of this Agreement or the consummation of the transaction contemplated hereby, if any. Seller hereby indemnifies Buyer from any and all liabilities, damages, losses and expenses (including, without limitation, reasonable attorney's fees and disbursements) arising out of any and all claims made by any person or other entity with whom Seller has dealt.

18. Indemnity.

18.1. By Seller. Seller shall indemnify, and hold Buyer, its officers, employees and agents harmless from all loss, expense (including reasonable attorney's fees), damage and liability resulting from or otherwise arising out of (i) claims of whatever nature (including without limitation claims for personal injury, wrongful death or property damage) based on causes of action arising prior to the Closing Date, (ii) claims by consultants, contractors under service contracts, and utility companies, if any, all with respect to matters that occurred prior to the Closing Date, and (iii) the inaccuracy of any representation or the breach of any covenant or agreement made by Seller under this Agreement. This indemnity agreement shall survive the Closing.

18.2. By Buyer. Buyer shall indemnify and hold Seller, his partners, officers, employees and agents harmless from all loss, expense (including reasonable attorney's fees), damage and liability resulting from (i) claims of whatever nature including without limitation claims for personal injury, wrongful death or property damage) against Seller or the Water Right based on causes of action arising after the Closing Date, (ii) claims by consultants, contractors under

service contracts and utility companies, if any, all with respect to matters that occurred after the Closing Date, (iii) the inaccuracy of any representation or the breach of any covenant or agreement made by Buyer under this Agreement. This indemnity agreement shall survive the Closing.

19. Notices. Any and all notices, demands, or other communications required or desired to be given hereunder by Buyer and Seller shall be in writing and shall be validly given or made to another Party if served either personally or if deposited in the United States mail, certified or registered, or postage prepaid, return receipt requested.

To Seller:
Michael S. Keyte
P.O. Box 274
Mona, UT 84645

To Buyer:
Spring Canyon Energy, L.L.C.
P. O. Box 774000, #359
Steamboat Springs, CO 80477

With a copy (which shall not constitute notice) to:

With a copy (which shall not constitute notice) to:

Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, UT 84111-5233

Either Party hereto may change its address for the purpose of receiving notices, demands and other communications as herein provided by a written notice given in the manner aforesaid to the other parties.

20. Further Assurances. Each of the parties hereto shall execute and deliver any and all additional papers, documents, and other assurances, and shall do any and all acts and things reasonably necessary in connection with the performance of their obligations hereunder and to carry out the intent of the parties hereto.

21. Attorney's Fees. In the event any action or negotiation is instituted by a Party to enforce any of the terms and provisions contained herein, each Party shall pay its own attorney's fees, costs and expenses.

22. Modification or Amendments. No amendment, change or modification of this Agreement shall be valid unless in writing and signed by the parties hereto.

23. Integration. This Agreement and the attachments hereto constitutes the entire understanding and agreement of the parties with respect to the purchase of the Water Right and any and all prior agreements, understandings or representations are hereby terminated and canceled in their entirety and are of no force and effect.

24. Waiver. The waiver by any Party to this Agreement of a breach of any provision of this Agreement shall not be deemed a continuing waiver or waiver of any subsequent breach whether of the same or another provision of this Agreement.

25. Applicable Law. This Agreement shall be governed by the laws of the State of Utah.

26. Survival. The covenants, warranties, representations and indemnities contained herein shall survive the Closing.

27. Construction. All terms and words used in this Agreement, regardless of the number and gender in which they are used, shall be deemed and construed to include any other number, singular or plural; any gender, either masculine or feminine; and any corporation, partnership or other business entity and any persons acting in a representative capacity, as the context or sense of this Agreement or any section or clause herein may require.

28. Captions and Section Numbers. The captions and section numbers appearing in this Agreement are inserted only as a matter of convenience and in no way shall be construed as defining or limiting the scope or intent of the provisions of this Agreement nor as affecting the interpretation of the provisions hereof.

29. Condemnation. In the event that condemnation by a qualifying entity of all or a portion of the Water Right and Change Application shall be instituted or threatened prior to Closing, Buyer shall have the right to terminate this Agreement, and upon such termination Escrow Agent shall return all Deposits and interest thereon held in the escrow account and neither Seller nor Buyer shall have any rights or obligations hereunder. In the alternative, Buyer, at its sole discretion, shall have the right to purchase the portion of the Water Right not subject to condemnation, in which event the Purchase Price shall be reduced in proportion to that part of the Water Right acquired.

30. Binding Effect. This Agreement shall be binding upon and inure to the benefit of the Parties hereto, and to their respective heirs, personal representatives, administrators, executors, successors and assigns.

31. Assignment. Buyer shall have the right to assign this Agreement and all of Buyer's right, title and interest in this Agreement without restriction, but notice of any such assignment shall be given in writing to Seller.

32. Counterpart Execution. This Agreement may be executed as one instrument signed by both Parties or in separate counterparts hereof, each of which counterparts shall be considered an original and all of which shall be deemed to be one instrument, and any signed counterpart shall be deemed signed and delivered by the Party signing it if sent to any other Party hereto by electronic facsimile transmission.

33. May 30, 2002 Option Superseded. That Water Right Option and Purchase Agreement executed by Buyer and Seller for purchase of the Water Right dated May 30, 2002, is hereby superseded in totality by this Agreement, and hereafter it shall be void and of no further effect. Upon satisfaction of the conditions precedent set forth in Sections 7.1 through 7.6 of this Agreement, the check in the amount of Six Thousand Five Hundred Twenty-Eight and Eighty Hundredths Dollars (\$6,528.80) dated July 30, 2002 and deposited to Juab Title and Abstract shall be deemed to be the Initial Option Fee described in this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first written above.

MICHAEL S. KEYTE

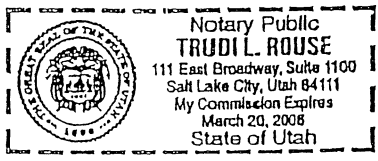
Michael S. Keyte

STATE OF *Utah*)
:SS.
COUNTY OF *Salt Lake*

On this 14th day of August 2002, before me, the undersigned, a notary public in and for said state, personally appeared Michael S. Keyte, known to me to be the person whose name is subscribed to the within instrument, who duly acknowledged to me that he executed the same.

WITNESS my hand and official seal.

Trudi L. Rouse
Notary Public



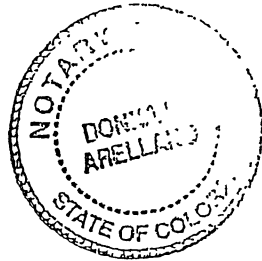
SPRING CANYON ENERGY, L.L.C.

By: *Ms Dinosiewicz*

Its: Principal - manager

STATE OF Colorado)
 : ss.
COUNTY OF Front)

On the 20 day of August, 2002, personally appeared before me LOIS BANASIEWICZ, who, being by me duly sworn, did say, that (s)he is the manager of SPRING CANYON ENERGY, L.L.C., a Utah limited liability Company and that the above Water Right Option And Purchase Agreement was signed by (him)(her) in behalf of said limited liability company.



Donna A. Arellano
Notary Public

My commission expires 9/23/2004

EXHIBIT "A"

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

WATER RIGHT DEED

MICHAEL S. KEYTE, an individual, with an address of P.O. Box 274, Mona, Utah 84645, Grantor, hereby conveys and warrants against all persons claiming by, through or under him, but not otherwise, to SPRING CANYON ENERGY, L.L.C., a Utah limited liability company, with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477, Grantee, for the sum of Ten and No/100 Dollars, the following described water right used and diverted in Juab County, State of Utah:

Water Right No. 15-1431 for the irrigation of 40 acres and stock watering of 115 cattle or equivalent; and approved Change Application No. a21754 for the irrigation of 40 acres, the stock watering of 83 cattle or equivalent and the domestic use of 2 families; and Change Application No. _____.

WITNESS the hand of said Grantor this _____ day of _____, 2002.

Michael S. Keyte, Grantor

By: _____
Michael S. Keyte

STATE OF UTAH)
)ss.
COUNTY OF)

On this ____ day of _____, 2002, personally appeared before me Michael S. Keyte, the signer of the within instrument, who duly acknowledged to me that he/she executed the same.

Notary Public

EXHIBIT "B"

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

MEMORANDUM OF WATER RIGHT OPTION

THIS MEMORANDUM OF WATER RIGHT OPTION ("Memorandum") dated _____, 2002 is by and between MICHAEL S. KEYTE an individual with an address of P.O. Box 274, Mona, Utah 84645 and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477 ("Buyer")

Recitals

A. Seller owns Water Right No. 53-1431 and approved Change Application No. a21754 (the "Water Right") in Juab County, State of Utah which is more particularly described as a water right with a maximum diversion of 163.22 acre-feet of water for the sole supply irrigation of 40 acres and stock watering of 115 cattle or equivalent under the water right and sole supply irrigation of 40 acres, stock watering of 83 cattle or equivalent, and domestic use of 2 families under the approved change application.

B. Seller and Buyer have entered into a Water Right Option and Purchase Agreement (the "Agreement"), dated _____, 2002 (the "Effective Date"), pursuant to which Seller has granted an option to Buyer to purchase all of the Water Right.

C. Seller and Buyer are entering into this Memorandum to confirm and provide record notice of Buyer's rights under the Agreement.

Memorandum

In exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller and Buyer agree and acknowledge as follows:

1. Grant of Option.

(a) Subject to the terms and conditions of this Memorandum and the Agreement, Seller has granted and hereby grants to Buyer, and Buyer has accepted and hereby accepts from Seller, an option (the "Option") to purchase the Water Right.

(b) The Agreement provides that unless the Option terminates earlier pursuant to the Agreement, the Option will be exercisable for a 6-month period (the "Option Period") which begins on the Effective Date and ends at midnight on the last day of the Option Period. The Agreement permits Buyer, subject to the terms and conditions thereof, to extend the Option Period for additional 6-month periods commencing on the termination date of the Option Period and ending at midnight on the last day of the extended period. The closing date for the purchase of the Water Right is ninety (90) days from the date that the Buyer exercises the Option. The Option may be extended to a maximum of 36 months from the Effective Date.

2. Access to Subject Property. Pursuant to the Agreement, Seller is required to provide Buyer and Buyer's contractors reasonable access at any time and from time to time during the Option Period and Extended Option to enter upon any property of Seller to which the Water Right is appurtenant in order to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

3. Conveyance Prohibitions. The Agreement prohibits Seller from transferring, conveying or assigning to any person or entity other than to Buyer pursuant to the Agreement, any right, title or interest in the Water Right, or encumbering the Water Right by any mortgage, deed of trust, or other instrument creating any lien or security interest or otherwise securing any debt or obligation, or creating or allowing to be created any exception, defect, or adverse claim against Seller's title to the Water Right other than the rights of Buyer under the Agreement.

4. Parties in Interest. This Memorandum shall be binding upon, and shall inure to the benefit of, the parties and their respective successors and assigns.

5. Rights of Parties Subject to Terms of Agreement. The rights and obligations of the parties under this Memorandum are subject to all of the terms and conditions of the Agreement. To the extent of any inconsistency between this Memorandum and the Agreement, the Agreement shall govern.

IN WITNESS WHEREOF, Buyer and Seller have executed this Memorandum to be effective as of the date first above written.

SELLER:

MICHAEL S. KEYTE

Michael S. Keyte

BUYER:
SPRING CANYON ENERGY, L.L.C., a Utah limited
liability company

By: _____

Its: _____

STATE OF UTAH)
 : ss
COUNTY OF)

On the _____ day of _____, 2002, before me personally appeared Michael S. Keyte, known to me to be the person that executed the within and foregoing instrument, who duly acknowledged to me that he executed the same.

NOTARY PUBLIC

STATE OF)
 : ss.
COUNTY OF)

On the _____ day of _____, 2002, personally appeared before me _____, who, being by me duly sworn, did say, that (s)he is the managing member of SPRING CANYON ENERGY, L.L.C., a Utah limited liability Company and that the above Water Right Option And Purchase Agreement was signed by (him)(her) in behalf of said limited liability company.

Notary Public

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

MEMORANDUM OF WATER RIGHT OPTION

THIS MEMORANDUM OF WATER RIGHT OPTION ("Memorandum") dated August 14, 2002 is by and between MICHAEL S. KEYTE an individual with an address of P.O. Box 274, Mona, Utah 84645 and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477 ("Buyer")

Recitals

A. Seller owns Water Right No. 53-1431 and approved Change Application No. a21754 (the "Water Right") in Juab County, State of Utah which is more particularly described as a water right with a maximum diversion of 163.22 acre-feet of water for the sole supply irrigation of 40 acres and stock watering of 115 cattle or equivalent under the water right and sole supply irrigation of 40 acres, stock watering of 83 cattle or equivalent, and domestic use of 2 families under the approved change application.

B. Seller and Buyer have entered into a Water Right Option and Purchase Agreement (the "Agreement"), dated August 14, 2002 (the "Effective Date"), pursuant to which Seller has granted an option to Buyer to purchase all of the Water Right.

C. Seller and Buyer are entering into this Memorandum to confirm and provide record notice of Buyer's rights under the Agreement.

Memorandum

In exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller and Buyer agree and acknowledge as follows:

1 Grant of Option

(a) Subject to the terms and conditions of this Memorandum and the Agreement, Seller has granted and hereby grants to Buyer, and Buyer has accepted and hereby accepts from Seller, an option (the "Option") to purchase the Water Right

(b) The Agreement provides that unless the Option terminates earlier pursuant to the Agreement, the Option will be exercisable for a 6-month period (the "Option Period") which begins on the Effective Date and ends at midnight on the last day of the Option Period

The Agreement permits Buyer, subject to the terms and conditions thereof, to extend the Option Period for additional 6-month periods commencing on the termination date of the Option Period and ending at midnight on the last day of the extended period. The closing date for the purchase of the Water Right is ninety (90) days from the date that the Buyer exercises the Option. The Option may be extended to a maximum of 36 months from the Effective Date.

2. Access to Subject Property Pursuant to the Agreement, Seller is required to provide Buyer and Buyer's contractors reasonable access at any time and from time to time during the Option Period and Extended Option to enter upon any property of Seller to which the Water Right is appurtenant in order to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

3. Conveyance Prohibitions. The Agreement prohibits Seller from transferring, conveying or assigning to any person or entity other than to Buyer pursuant to the Agreement, any right, title or interest in the Water Right, or encumbering the Water Right by any mortgage, deed of trust, or other instrument creating any lien or security interest or otherwise securing any debt or obligation, or creating or allowing to be created any exception, defect, or adverse claim against Seller's title to the Water Right other than the rights of Buyer under the Agreement.

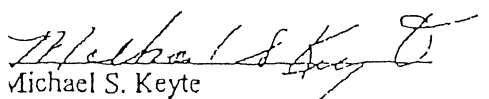
4. Parties in Interest. This Memorandum shall be binding upon, and shall inure to the benefit of, the parties and their respective successors and assigns.

5. Rights of Parties Subject to Terms of Agreement. The rights and obligations of the parties under this Memorandum are subject to all of the terms and conditions of the Agreement. To the extent of any inconsistency between this Memorandum and the Agreement, the Agreement shall govern.

IN WITNESS WHEREOF, Buyer and Seller have executed this Memorandum to be effective as of the date first above written.

SELLER:

MICHAEL S. KEYTE

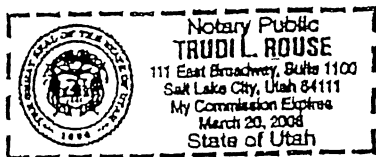

Michael S. Keyte

BUYER:
SPRING CANYON ENERGY, L.L.C., a Utah limited liability company

By: Michael S. Keyte
Its: PERSONAL MEMBER

STATE OF UTAH)
 :SS
COUNTY OF Salt Lake

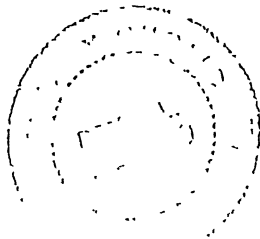
On the 14th day of August 2002; before me personally appeared Michael S. Keyte, known to me to be the person that executed the within and foregoing instrument, who duly acknowledged to me that he executed the same.



Trudi L. Rouse
NOTARY PUBLIC

STATE OF Colorado)
 : ss.
COUNTY OF Front)

On the 20 day of August, 2002, personally appeared before me LOIS BANASIEWICZ, who, being by me duly sworn, did say, that (s)he is the managing member of SPRING CANYON ENERGY, L.L.C., a Utah limited liability Company and that the above Water Right Option And Purchase Agreement was signed by (him)(her) in behalf of said limited liability company.



Stephanie G. Palermo
Notary Public

My commission expires 7/27/11

WATER RIGHT OPTION AND
PURCHASE AGREEMENT

THIS WATER RIGHT OPTION AND PURCHASE AGREEMENT ("Agreement") is entered into as of the 5th day of August, 2002, by and between R. BLAKE GARRETT, whose mailing address is North Airport Road, Nephi, UT 84648 ("Seller") and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company whose mailing address is P.O. Box 774000, #359, Steamboat Springs, CO 80477 ("Buyer"). The Seller and Buyer are referred to collectively in this Agreement as the "Parties."

RECITALS

A. Seller owns Water Right No. 53-97, Certificate No. 11837 (the "Water Right") and desires to sell the Water Right to Buyer. Seller represents that the Water Right has been quantified by the Utah State Engineer's Office ("State Engineer") as yielding a sole supply for the irrigation of 96 acres (384 acre feet annually).

B. Buyer desires to purchase the Water Right from Seller for industrial use at a facility (the "Facility") to be constructed according to the following terms and conditions. Seller desires to sell the Water Right to Buyer under the same terms and conditions.

AGREEMENT TERMS

In consideration of the mutual promises, covenants, and conditions of this Agreement, the Parties agree as follows:

1. Option to Purchase. Seller hereby sells, gives and grants to Buyer, and its assigns, the exclusive option to purchase (the "Option"), for the price hereinafter set forth, all of Seller's right, title, estate and interest in and to the Water Right. The Option becomes effective when this Agreement has been signed by the Parties and the Initial Option Fee provided for in Section 2 has been deposited with the escrow agent designated in Section 4 below (the "Escrow Agent").

1.1. Purchase Price. The price to be paid for the Water Right shall be Four Thousand Dollars (\$4,000.00) for each acre-foot presently approved for diversion under the Water Right, for a total purchase price of One Million Five Hundred Thirty-Six Thousand Dollars (\$1,536,000.00) (the "Purchase Price").

2. Consideration for Option. As consideration for the Option, Buyer shall pay to Seller Fifteen Thousand Three Hundred Sixty Dollars (\$15,360.00) as the initial option fee (the "Initial Option Fee"). If Buyer elects to extend the Option beyond the initial 6-month period, Buyer shall make the additional Option payments for each extension as further described herein.

2.1. The Buyer shall within 10 days from the date this Agreement is signed by the Parties deposit the Initial Option Fee in escrow in an interest-bearing account to be held by the Escrow Agent. The Initial Option Fee, together with all accrued interest thereon, shall be released to Seller and become non-refundable to Buyer upon Buyer's written notice to Seller and Escrow Agent that all of the conditions precedent set forth in Sections 7.1 through 7.6 of this Agreement have been satisfied. The Initial Option Fee is in addition to, and shall not be credited against, the Purchase Price.

2.2. Buyer may extend the Option for up to 36 months from the date the Parties sign this Agreement by depositing an additional Option payment with the Escrow Agent in the amount of Fifteen Thousand Three Hundred Sixty Dollars (\$15,360.00) (a "Deposit") for each six (6) months that Buyer elects to extend the Option, and by giving notice as set out in Section 3. The first such Deposit shall be made, if at all, within six months from the date Seller executes this Agreement. Each time Buyer elects to extend the Option period, as further provided in Section 3, Buyer shall, within six (6) months of the previous Deposit, deliver another Deposit to the Escrow Agent. Each Deposit shall be paid into the interest-bearing escrow account established by the Escrow Agent and administered by it in conformance with the terms and provisions of this Agreement. For example, if the Initial Option Fee was deposited into Escrow on August 1, 2002 and Buyer thereafter gives written notice of an election to extend this Option, Buyer must give the notice as provided in Section 3 and deliver a Deposit to the Escrow Agent on or before the first business day after February 1, 2003. If the Option is again extended, another Deposit must be delivered to the Escrow Agent on or before August 1, 2003.

2.3. If Buyer exercises its Option as hereinafter provided, the principal amount of the Deposits, together with all accrued interest thereon, shall be credited to the Purchase Price.

3. Period of Option and Extension. The initial period of duration of this Option is six (6) months from the date the Parties sign this Agreement (the "Option Period"). At any time during the Option Period, Buyer has the right to exercise its Option to purchase the Water Right or, at its sole discretion, terminate the Option. The Option Period may be extended in accordance with the following:

3.1. At the end of the initial Option Period, Buyer may elect to extend the Option for additional six (6) month periods upon written notice to Seller and payment of a Deposit in the same amount and frequency as described in Section 2.2 hereof for each additional six-month period.

3.2. If Buyer elects to extend the Option, it shall provide Seller with written notice of its intention no later than ten (10) days prior to the expiration of the Option period together with payment of the required Deposit to the Escrow Agent as set forth in Section 2.2. Buyer shall pay an additional Deposit for each six (6) month period that Buyer elects to extend the Option.

3.3. Buyer may extend the Option to a maximum of thirty-six (36) months. The Option shall expire upon failure of Buyer to extend the Option strictly on the terms set out in this Agreement, upon expiration of 36 months from the date the Parties sign this Agreement, or upon exercise of the Option by Buyer, whichever occurs first.

4. Escrow Agent and Opening of Escrow. The parties hereby designate First American Title Insurance Agency, Inc. of 90 South Main, Fillmore, Utah 84631¹ as the Escrow Agent and closing agent for all purposes under this Agreement. Buyer shall, within 10 days from the date this Agreement is signed by the Parties deposit the Initial Option Fee with the Escrow Agent and deliver an executed copy of this Agreement to the Escrow Agent.

5. Alienation of Interests; Encumbrances; Leases As further consideration for the sum paid for this Option, Seller shall not sell, convey, or otherwise encumber the Water Right, in any way, during the Option Period and if applicable, any additional extension(s). Seller further agrees that he will not lease the Water Right or any part thereof during either the Option Period or any extension of the Option Period without first securing the written approval of the Buyer.

5.1. Notice of Default; Trustee's Sale; Repossession; Foreclosure; Civil Litigation. In the event of any notice of default, trustee's sale, repossession, foreclosure, civil litigation or other action to enforce a lien or encumbrance against the Water Right, Buyer may take any reasonable steps necessary to prevent or forestall such action if such action would impair Buyer's rights under this Agreement. Such action by Buyer may include, but shall not be limited to, directing that any portion of the Initial Option Fee or any Deposit(s) paid into escrow may be paid to any lienholder or creditor initiating action against Seller or the Water Right. Any amounts paid by Buyer on behalf of Seller under this Section may be offset against the Purchase Price, at Buyer's election.

6. Right of Entry. During the Option Period or any applicable extension, Seller shall permit Buyer, its employees and agents, to enter upon the property of Seller to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

7. Conditions Precedent. Sections 7.1 through 7.6 shall be express conditions precedent to the release of the Initial Option Fee, except that completion of Buyer's obligations under Section 7.3 shall not be a condition precedent to release of the Initial Option Fee.

7.1. The Initial Option Fee shall be placed into escrow with the Escrow Agent for up to sixty (60) day due diligence period during which Buyer will investigate and confirm the nature of the Water Right (the "Due Diligence Period"). To assist Buyer in the Due Diligence Period, Seller shall, within two weeks of the execution of this Agreement, deliver at his expense, a preliminary title report, together with legible copies of all documents referred to therein, including, but not limited to, the deed of condemnation concerning the Water Right and the real property that is shown as the place of use of the Water Right in the records of the State of Utah, Division of Water Rights. If, prior to the end of the Due Diligence Period, Buyer objects to the nature, sufficiency, or title to the Water Right, Seller shall have up to sixty (60) days after written notice to cure said deficiency. During such cure period, the Initial Option Fee shall continue to

¹ Items should be sent to the attention of Rob Sherman Telephone number 435 743 6213 or 800 300 8344
Deposit information Wells Fargo Bank Account No 061 0026825, ABA No 121 000 248, e-mail -
rsherman@firstam.com
#119797 v3

be held in escrow. If deficiencies are not cured by the end of the cure period or such additional time as may be approved by Buyer, the Initial Option Fee shall be returned to Buyer and this Agreement shall terminate.

7.2. Seller shall file with the State Engineer a permanent change application as provided for under Utah Code Annotated § 73-3-3 seeking authorization for the Water Right to be diverted from Buyer's proposed underground water well(s) and used at Buyer's Facility to be constructed in the NE¼ of the SE¼ of Section 23, Township 11 South, Range 1 West, SLBM or such other location specified by Buyer (the "Change Application"). In this regard, the Parties are obligated as follows:

(a) As soon as possible following the execution of this Agreement, but in no case later than August 15, 2002, or such later date as may be approved by Buyer, Seller shall prepare and file the Change Application with the State Engineer to facilitate Buyer's intended use of the Water Right by Buyer. The Change Application shall show Buyer as the co-applicant and shall be filed at the sole expense of Buyer. It is anticipated that the approved Change Application will be conveyed by the same deed conveying the Water Right at closing.

(b) Seller shall throughout processing of the Change Application give good faith cooperation and assistance to Buyer regarding the Change Application. Such good faith assistance and cooperation shall be a continuing obligation under this Agreement, but shall not be a condition precedent to release of the Initial Option Fee.

7.3. Documents evidencing Seller's and Buyer's authority, including powers of attorney, if needed, and such other evidence, as required, of Seller's and Buyer's authority to consummate the transaction contemplated herein.

7.4. Delivery by Seller to the Escrow Agent of a duly executed and acknowledged Water Right Deed, in the form attached hereto as Exhibit "A," conveying title to the Water Right and Change Application to Buyer and any and all other documentation reasonably required by Buyer's counsel to consummate this transaction. Such delivery shall be a conditional delivery conditioned upon Buyer's exercise of the Option and completion of closing as set out in this Agreement.

7.5. Execution and delivery to the Escrow Agent by the Parties of a Memorandum of Water Right Option in substantially the form attached hereto as Exhibit "B" and recordation of said Memorandum in the office of the Juab County Recorder of Juab County, Utah.

7.6. Delivery to the Escrow Agent of any approvals of this Agreement required by the holder of any lien or encumbrance against the Water Right.

7.7. If the conditions precedent set forth in Sections 7.1 through 7.6 have been reasonably satisfied, Buyer shall notify Seller and the Escrow Agent of such in writing and the Initial Option Fee shall become non-refundable to Buyer at that time. The non-refundable Initial Option Fee shall then be released to Seller.

8. Water Rights Approvals. Buyer's use of the Water Right requires that the State Engineer approve the Change Application provided in Section 7.2. Buyer's use also requires that at least fifty percent (50%), or 192 acre feet of the 384 acre feet of water presently approved for diversion annually under the Water Right, be approved as depletion under the approved Change Application described in 7.2 hereof. In that regard:

8.1. Seller shall diligently prosecute the Change Application to a final non-appealable approval by either the State Engineer or by the courts on appeal of any decision of the State Engineer. If the State Engineer issues a decision that rejects the Change Application, or approves the Change Application but limits depletion to less than 192 acre feet per year, the Buyer may elect to either terminate this Option or to seek judicial review of the State Engineer's decision. The Buyer may also elect to terminate this Agreement if the State Engineer issues a favorable decision (a decision approving the Change Application and designating at least 192 acre feet of depletion), but a third party appeals the favorable decision and the appeal is not resolved within 60 days. If a judicial review action is filed by a third party and Buyer does not terminate this Agreement, or if Buyer elects to seek judicial review of a decision from the State Engineer, Buyer shall bear the expense of the judicial review action.

8.2. If the State Engineer approves less than 192 acre feet as depletion under said approved Change Application, or if a third party appeals a favorable decision of the State Engineer, Buyer may unilaterally withdraw from this Agreement upon written notice and any Deposits and all interest thereon placed in escrow pursuant to Section 2, (which by definition do not include the Initial Option Fee), shall be immediately refunded to Buyer. Seller shall be entitled to retain the Initial Option Fee if Buyer withdraws under this Section 8.2.

8.3. If Buyer fails to exercise its Option hereunder, Seller may withdraw the Change Application at any time after termination of the Option.

9. Exercise of Option. The Buyer and Seller each shall use their best efforts in accomplishing the conditions precedent in Section 7 and the approval of the Change Application as described in Section 8. If Buyer elects to exercise the Option, the Option shall be exercised by Buyer giving written notice to Seller.

10. Closing of Purchase. If Buyer exercises the Option, the closing of such purchase ("Closing") shall be completed in accordance with this Section. The Parties may also provide additional written instructions if the instructions are consistent with this Agreement. The Parties instruct and authorize the Escrow Agent to close the purchase transaction as directed in this Section and any consistent written instructions provided by the Parties.

10.1. Closing Date. The transaction contemplated herein shall close ^{90 days} ~~one (1) year~~ from the date that Buyer exercises this Option as set forth in Section 9 above, at the Escrow Agent's office, or at such other time and place as may be mutually agreed upon by the Parties. In no event, however, shall Buyer be obligated to close the transaction unless the conditions precedent as set forth in Sections 7.1 through 7.6 herein shall have first been satisfied, and the Change Application approved as provided in Section 8, or if Buyer elects at its sole discretion, for any reason whatsoever, to not exercise the Option and thereby decides to terminate the Agreement.

The Closing Date and Closing are terms used herein to mean the date the Purchase Price is paid into escrow and the Water Right Deed and other instruments of conveyance of the Water Right, if necessary, are filed for recordation in the office of the Juab County Recorder, Juab County, Utah.

10.2. Buyer's Closing Deliveries. At the Closing, Buyer shall deliver to Seller the following:

10.2.1. Payment of the balance of the Purchase Price in cash or by certified or cashier's check payable to Seller or Seller's designee, plus Buyer's share of the Closing costs.

10.2.2. The documents evidencing the authority of Buyer to consummate the transaction contemplated herein that were deposited with the Escrow Agent as provided for in Section 7.3.

10.2.3. Any and all other documentation reasonably required by Seller's legal counsel to consummate this transaction.

10.3. Seller's Closing Deliveries. At the Closing, Seller shall deliver to Buyer the following:

10.3.1. The duly executed and acknowledged Water Right Deed deposited with the Escrow Agent prior to disbursement of the Initial Option Fee as provided for in Section 7.4 herein. Such execution and delivery prior to the disbursement of the Initial Option Fee shall be deemed complete delivery by Seller to the Escrow Agent, subject to the provisions of this Section 10, for the purposes of Closing the sale of the Water Right and Change Application. Such execution and delivery shall be deemed irrevocable except upon termination of this Agreement in accordance with the terms hereof. Seller shall nevertheless, if requested by Buyer, execute and deliver at the time of the Closing a good and sufficient Water Right Deed in the form attached hereto as Exhibit "A," conveying title to the Water Right and approved Change Application to Buyer showing any changes as necessary at the time of Closing.

10.3.2. The documents evidencing the authority of Seller to consummate the transaction contemplated herein that were deposited with the Escrow Agent as provided for in Section 7.3.

10.3.3. Any and all other documentation reasonably required by Buyer's and Seller's counsel to consummate this transaction.

10.4. Costs and Expenses. Seller and Buyer shall pay and be responsible for the following costs and expenses:

10.4.1. Seller's Costs. Seller shall pay the costs incurred by him for legal, accounting and other consultants' services together with all other costs incurred by Seller in the satisfaction of Seller's obligations under this Agreement, plus one-half of the Escrow Agent's fees and expenses incurred by the Parties in completing the Closing.

10.4.2. Buyer's Costs. Buyer shall pay the costs incurred by it for legal, accounting and other consultants' services, together with all other costs incurred by it in the satisfaction of its obligations under this Agreement, plus one-half of the Escrow Agent's fees and expenses incurred by the Parties in completing the Closing. Buyer shall pay all recordation fees for recording the Memorandum of Water Right Option provided for in Section 7.5 and the Water Right Deed upon Closing.

10.5. Possession. Seller shall cause such reconveyances of trust deed, mortgage releases, cancellation of financing statements, and any other instruments as necessary to represent release of any liens or encumbrances against the Water Right and approved Change Application to be removed prior to Closing, and Buyer shall be entitled to actual and exclusive right and possession of the Water Right and approved Change Application, free of any person or other entity having or claiming any possessory right, title or interest with respect thereto, as of the Closing.

10.6. The Escrow Agent shall record all documents necessary to release liens and encumbrances against the Water Right and approved Change Application; and record the Water Right Deed from Seller to Buyer at the time of Closing.

10.7. The Escrow Agent shall disperse the Purchase Price proceeds first to pay Seller's share of Closing costs, tax proration and other such Closing Costs; second to retire any liens or encumbrances against the Water Right and Change Application; and third, to Seller or to such persons as Seller designates.

11. Seller's Representations and Warranties. Seller hereby makes the following representations and warranties, (it being understood and agreed by the Parties that all references herein to representations and warranties pertaining to the Water Right itself, and including the Change Application shall be applicable as of the Closing Date) and agrees that such representations and warranties shall survive the Closing:

11.1. Marketable Title. Seller shall have, as of the date of Closing, good and marketable title to the Water Right, subject to no liens, taxes, encumbrances, restrictions or adverse easements or interests of any kind or nature whatsoever.

11.2. No Forfeiture or Abandonment. The Water Right is in good standing in the State Engineer's office; the use of the Water Right has been consistent with the Water Right as on record in the State Engineer's office; the Water Right has been used beneficially within the last five (5) years; and neither the Water Right nor any part thereof is subject to forfeiture or abandonment for non use.

11.3. Authority. Seller and the person executing this Agreement on behalf of Seller have the full right, power and authority to enter into this Agreement and to consummate the transactions contemplated herein.

11.4. Defaults. Seller is not in default in respect of any judgment, order, writ, injunction, decision, law, ordinance or regulation of any court or governmental authority or under any lease,

mortgage, or other agreement to which it, or the Water Right, Change Application, or any portion thereof, is or might be subject which might prohibit, delay, or interfere with the consummation of the transaction contemplated hereby or affect the right, title, and interest or the condition of the Water Right and Change Application; and the execution and delivery of this Agreement. Further, the performance by Seller of its obligations hereunder will not (i) result in the breach or termination of or violate or constitute a default under any such lease, mortgage, or other agreement, or (ii) result in the creation or imposition of any lien, charge, or encumbrance upon the Water Right or Change Application or any portion thereof, or (iii) violate any law, regulation, judgment, or order of any governmental entity.

11.5. Documents. All documents delivered to Buyer pursuant hereto are, to the best of Seller's knowledge, true, correct, and complete copies of the original documents. The Water Right and Change Application will not at Closing be subject to any unrecorded instruments affecting the title to or the right to the use of the Water Right for the Buyer's purposes as set forth herein.

11.6. Maintenance Pending Closing. From and after the date of execution hereof and until Closing, Seller shall maintain and manage the Water Right so as to do nothing which might damage the value or condition of the Water Right and Change Application. Seller shall protect the Water Right from forfeiture or abandonment. Seller will not knowingly engage in any conduct that will adversely affect the likelihood of a favorable decision on the Change Application. If necessary to prevent forfeiture or abandonment of the Water Right, at Buyer's sole discretion, Seller will, upon Buyer's request, file an Application for Nonuse of Water on any unused portion of the Water Right.

11.7. Litigation and Claims. Seller has not received any notice of or is otherwise not aware of any claims, actions, suits or other proceedings, whether pending, threatened, or to the best of his knowledge, contemplated by any governmental department or agency or any corporation, partnership or other entity or person whatsoever, or to the best of his knowledge, after due inquiry, any facts which could constitute the basis for any claim or litigation which might prohibit, delay or interfere with the consummation of the transaction contemplated hereby or which, if adversely determined, might affect the right, title and interest which may be acquired by the Buyer in and to the Water Right and Change Application, or the condition or the value of the Water Right and Change Application.

11.8. Available Data. At all reasonable times hereafter, up to and including the Closing, Seller and his accountants, engineers, and agents shall make available to Buyer, its counsel and/or accountants or other consultants, for examination at reasonable times, all reports, studies and all other relevant documents reasonably pertaining to the Water Right and Change Application.

11.9. Water Right. The Water Right has been accurately and completely described in this Agreement. All necessary approvals for use of the Water Right for Seller's present uses have been obtained by or on behalf of Seller and are in full force and effect. The Water Right is titled in Seller's name at the Utah Division of Water Rights.

12. Buyer's Representations and Warranties. In order to induce Seller to execute this Agreement, and to enter in the transaction contemplated hereby, Buyer hereby represents and warrants that:

12.1. Full Power and Authority. Buyer is a limited liability company organized and existing under the laws of the State of Utah and possesses the capability, power, and legal authority to perform all acts and obligations required of it hereunder.

12.2. No Conflict. The execution, delivery, and performance of this Agreement by the Buyer and the consummation of the transactions contemplated herein will not (i) result in a breach or acceleration of or constitute a default or event of termination under the provisions of any agreement or instrument to which Buyer is a party or bound; or (ii) constitute or result in the violation or breach by Buyer of any judgment, order, writ, injunction, or decree issued against or imposed upon Buyer or result in the violation of any applicable law, ordinance, rule or regulation of any governmental authority.

13. Risk of Loss. Risk of loss to the Water Right shall be Seller's until Closing and transfer of title as herein provided, except any loss or reduction, subject to the provisions of Section 8.2 hereof, that occurs as a result of any decision on the Change Application.

14. 1031 Tax Free Exchange. Buyer agrees to allow Seller to convey the Water Right and Change Application through a like kind exchange pursuant to Section 1031 of the Internal Revenue Code and agrees to reasonably cooperate with Seller in accomplishing such exchange, so long as the exchange will not injure or prejudice the interests of Buyer in any way. Seller shall be solely responsible for making the arrangements necessary for such an exchange. Buyer shall not be obligated to participate in any transaction under this Section which imposes any cost or any liability whatsoever on Buyer. The Parties acknowledge that the arrangement of a like kind exchange under this Section would be done solely for Seller's convenience and that any such arrangement shall not constitute part of the consideration paid by Buyer for the Water Right and Change Application or Option under this Agreement. Any exchange shall not delay the Closing date without Buyer's prior written consent or increase the cost of Closing to Buyer. Buyer shall not be required to acquire in its own name or in the name of an agent such property as may be acquired by Seller to effectuate such an exchange.

RBG

90 days 15. Lease of Water Right and Change Application. The Parties acknowledge that the ~~one-year~~ period between the exercise of the Option and the Closing Date is for the sole purpose of facilitating Seller's like kind exchange described in Section 14 (the "Exchange Period") and that Buyer may need to divert and use the water made available under the Water Right and Change Application during the Exchange Period. If requested by Buyer, Seller shall lease the water available under the Water Right and Change Application to Buyer for One Dollar (\$1.00) during the Exchange Period. No interest on the Purchase Price of the Water Right and Change Application shall be charged to Buyer during the Exchange Period.

16. Remedies in the Event of Default.

16.1. Seller's Default. In the event of Seller's default hereunder for any reason, Buyer shall deliver written notice hereof to Seller. If Seller does not cure such default within ten (10) days after receiving written notice thereof, Buyer shall be entitled to pursue all rights or remedies allowed to it at law or in equity.

16.2. Buyer's Default. The Parties recognize that Seller will incur expense in connection with the transaction contemplated by this Agreement and that it is extremely difficult and impractical to ascertain the extent of the detriment to Seller caused by Buyer's breach of this Agreement and the failure of the consummation of the transaction contemplated herein or the amount of compensation Seller should receive as a result of Buyer's breach or default. In the event of Buyer's default hereunder for any reason, Seller shall deliver written notice thereof to Buyer. If Buyer does not cure within ten (10) days after receiving written notice and the sale of the Water Right and Change Application is not consummated because of Buyer's default, then the retention of the sums in the escrow account shall be Seller's sole and exclusive remedy and not a penalty, and shall be in lieu of any other monetary or other relief.

17. Brokerage. Seller shall pay and be solely responsible for the payment of any and all brokerage commissions or other compensation due to any person or entity on account of the execution or performance of this Agreement or the consummation of the transaction contemplated hereby, if any. Seller hereby indemnifies Buyer from any and all liabilities, damages, losses and expenses (including, without limitation, reasonable attorney's fees and disbursements) arising out of any and all claims made by any person or other entity with whom Seller has dealt.

18. Indemnity.

18.1. By Seller. Seller shall indemnify, and hold Buyer, its officers, employees and agents harmless from all loss, expense (including reasonable attorney's fees), damage and liability resulting from or otherwise arising out of (i) claims of whatever nature (including without limitation claims for personal injury, wrongful death or property damage) based on causes of action arising prior to the Closing Date, (ii) claims by consultants, contractors under service contracts, and utility companies, if any, all with respect to matters that occurred prior to the Closing Date, and (iii) the inaccuracy of any representation or the breach of any covenant or agreement made by Seller under this Agreement. This indemnity agreement shall survive the Closing.

18.2. By Buyer. Buyer shall indemnify and hold Seller, his partners, officers, employees and agents harmless from all loss, expense (including reasonable attorney's fees), damage and liability resulting from (i) claims of whatever nature including without limitation claims for personal injury, wrongful death or property damage) against Seller or the Water Right based on causes of action arising after the Closing Date, (ii) claims by consultants, contractors under service contracts and utility companies, if any, all with respect to matters that occurred after the Closing Date, (iii) the inaccuracy of any representation or the breach of any covenant or

agreement made by Buyer under this Agreement. This indemnity agreement shall survive the Closing.

19. Notices. Any and all notices, demands, or other communications required or desired to be given hereunder by Buyer and Seller shall be in writing and shall be validly given or made to another Party if served either personally or if deposited in the United States mail, certified or registered, or postage prepaid, return receipt requested.

To Seller:
R. Blake Garrett
North Airport Road
Nephi, UT 84648

To Buyer:
Spring Canyon Energy, L.L.C.
P. O. Box 774000, #359
Steamboat Springs, CO 80477

With a copy (which shall not constitute notice) to:
Warren H. Peterson
Waddingham & Peterson
362 West Main
Delta, UT 84624-9205

With a copy (which shall not constitute notice) to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, UT 84111-5233

Either Party hereto may change its address for the purpose of receiving notices, demands and other communications as herein provided by a written notice given in the manner aforesaid to the other parties.

20. Further Assurances. Each of the parties hereto shall execute and deliver any and all additional papers, documents, and other assurances, and shall do any and all acts and things reasonably necessary in connection with the performance of their obligations hereunder and to carry out the intent of the parties hereto.

21. Attorney's Fees. In the event any action or negotiation is instituted by a Party to enforce any of the terms and provisions contained herein, each Party shall pay its own attorney's fees, costs and expenses.

22. Modification or Amendments. No amendment, change or modification of this Agreement shall be valid unless in writing and signed by the parties hereto.

23. Integration. This Agreement and the attachments hereto constitutes the entire understanding and agreement of the parties with respect to the purchase of the Water Right and any and all prior agreements, understandings or representations are hereby terminated and canceled in their entirety and are of no force and effect.

24. Waiver. The waiver by any Party to this Agreement of a breach of any provision of this Agreement shall not be deemed a continuing waiver or waiver of any subsequent breach whether of the same or another provision of this Agreement.

25. Applicable Law. This Agreement shall be governed by the laws of the State of Utah.

26. Survival. The covenants, warranties, representations and indemnities contained herein shall survive the Closing.

27. Construction. All terms and words used in this Agreement, regardless of the number and gender in which they are used, shall be deemed and construed to include any other number, singular or plural; any gender, either masculine or feminine; and any corporation, partnership or other business entity and any persons acting in a representative capacity, as the context or sense of this Agreement or any section or clause herein may require.

28. Captions and Section Numbers. The captions and section numbers appearing in this Agreement are inserted only as a matter of convenience and in no way shall be construed as defining or limiting the scope or intent of the provisions of this Agreement nor as affecting the interpretation of the provisions hereof.

29. Condemnation. In the event that condemnation by a qualifying entity of all or a portion of the Water Right and Change Application shall be instituted or threatened prior to Closing, Buyer shall have the right to terminate this Agreement, and upon such termination Escrow Agent shall return all Deposits and interest thereon held in the escrow account and neither Seller nor Buyer shall have any rights or obligations hereunder. In the alternative, Buyer, at its sole discretion, shall have the right to purchase the portion of the Water Right not subject to condemnation, in which event the Purchase Price shall be reduced in proportion to that part of the Water Right acquired.

30. Binding Effect. This Agreement shall be binding upon and inure to the benefit of the Parties hereto, and to their respective heirs, personal representatives, administrators, executors, successors and assigns.

31. Assignment. Buyer shall have the right to assign this Agreement and all of Buyer's right, title and interest in this Agreement without restriction, but notice of any such assignment shall be given in writing to Seller.

32. Counterpart Execution. This Agreement may be executed as one instrument signed by both Parties or in separate counterparts hereof, each of which counterparts shall be considered an original and all of which shall be deemed to be one instrument, and any signed counterpart shall be deemed signed and delivered by the Party signing it if sent to any other Party hereto by electronic facsimile transmission.

EXHIBIT "A"

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

WATER RIGHT DEED

R. BLAKE GARRETT, an individual, with an address of North Airport Road, Nephi, Utah 84648, Grantor, hereby conveys and warrants against all persons claiming by, through or under him, but not otherwise, to SPRING CANYON ENERGY, L.L.C., a Utah limited liability company, with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477, Grantee, for the sum of Ten and No/100 Dollars, the following described water right used and diverted in Juab County, State of Utah:

384 acre-feet of Water Right No. 53-97, perfected for the irrigation of 96 acres (sole supply) and Change Application No. _____.

WITNESS the hand of said Grantor this _____ day of _____, 2002.

R. Blake Garrett

By: _____
R. Blake Garrett

STATE OF UTAH)
)ss.
COUNTY OF)

On this ____ day of _____, 2002, personally appeared before me R. Blake Garrett, the signer of the within instrument, who duly acknowledged to me that he/she executed the same.

Notary Public

EXHIBIT "B"

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

MEMORANDUM OF WATER RIGHT OPTION

THIS MEMORANDUM OF WATER RIGHT OPTION ("Memorandum") dated _____, 2002 is by and between BLAKE R. GARRETT an individual with an address of North Airport Road, Nephi, Utah 84645 and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477 ("Buyer")

Recitals

A. Seller owns Water Right No. 53-97 (the "Water Right") in Juab County, State of Utah which is more particularly described as a perfected water right with a maximum diversion of 384 acre-feet of water for the sole supply irrigation of 96 acres TIN# _____.

B. Seller and Buyer have entered into a Water Right Option and Purchase Agreement (the "Agreement"), dated _____, 2002 (the "Effective Date"), pursuant to which Seller has granted an option to Buyer to purchase all of the Water Right.

C. Seller and Buyer are entering into this Memorandum to confirm and provide record notice of Buyer's rights under the Agreement.

Memorandum

In exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller and Buyer agree and acknowledge as follows:

1. Grant of Option.

(a) Subject to the terms and conditions of this Memorandum and the Agreement, Seller has granted and hereby grants to Buyer, and Buyer has accepted and hereby accepts from Seller, an option (the "Option") to purchase the Water Right.

(b) The Agreement provides that unless the Option terminates earlier pursuant to the Agreement, the Option will be exercisable for an 18 month period (the "Option Period") which begins on the Effective Date and ends at midnight on the last day of the Option Period.

The Agreement permits Buyer, subject to the terms and conditions thereof, to extend the Option Period for an additional 18 month period (the "Extended Option Period") commencing on the termination date of the Option Period and ending at midnight on the last day of the Extended Option Period. The closing date for the purchase of the Water Right is one year from the date that the Buyer exercises the Option.

2. Access to Subject Property. Pursuant to the Agreement, Seller is required to provide Buyer and Buyer's contractors reasonable access at any time and from time to time during the Option Period and Extended Option to enter upon the property of Seller to which the Water Right is appurtenant in order to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

3. Conveyance Prohibitions. The Agreement prohibits Seller from transferring, conveying or assigning to any person or entity other than to Buyer pursuant to the Agreement, any right, title or interest in the Water Right, or encumbering the Water Right by any mortgage, deed of trust, or other instrument creating any lien or security interest or otherwise securing any debt or obligation, or creating or allowing to be created any exception, defect, or adverse claim against Seller's title to the Water Right other than the rights of Buyer under the Agreement.

4. Parties in Interest. This Memorandum shall be binding upon, and shall inure to the benefit of, the parties and their respective successors and assigns.

5. Rights of Parties Subject to Terms of Agreement. The rights and obligations of the parties under this Memorandum are subject to all of the terms and conditions of the Agreement. To the extent of any inconsistency between this Memorandum and the Agreement, the Agreement shall govern.

IN WITNESS WHEREOF, Buyer and Seller have executed this Memorandum to be effective as of the date first above written.

SELLER:

BLAKE R. GARRETT

By: _____

BUYER:

SPRING CANYON ENERGY, L.L.C., a Utah limited liability company

By: _____

Its _____

STATE OF UTAH)
 :ss
COUNTY OF)

On the ____ day of _____ 2002, before me personally appeared Blake R. Garrett, known to me to be the person that executed the within and foregoing instrument, who duly acknowledged to me that he executed the same.

NOTARY PUBLIC

STATE OF)
 :ss
COUNTY OF)

On the ____ day of _____ 2002, before me personally appeared _____, known to me to be the person that executed the within and foregoing instrument, who duly acknowledged to me that she executed the same.

NOTARY PUBLIC

After Recording Return to:
Jody L. Williams
Holme Roberts & Owen, LLP
111 East Broadway, Suite 1100
Salt Lake City, Utah 84111-5233

MEMORANDUM OF WATER RIGHT OPTION

THIS MEMORANDUM OF WATER RIGHT OPTION ("Memorandum") dated August 5, 2002 is by and between R. BLAKE GARRETT an individual with an address of North Airport Road, Nephi, Utah 84648 and SPRING CANYON ENERGY, L.L.C., a Utah limited liability company with an address of P.O. Box 774000, #359, Steamboat Springs, Colorado 80477 ("Buyer")

Recitals

A. Seller owns Water Right No. 53-97 (the "Water Right") in Juab County, State of Utah which is more particularly described as a perfected water right with a maximum diversion of 384 acre-feet of water for the sole supply irrigation of 96 acres.

B. Seller and Buyer have entered into a Water Right Option and Purchase Agreement (the "Agreement"), dated 5 August, 2002 (the "Effective Date"), pursuant to which Seller has granted an option to Buyer to purchase all of the Water Right.

C. Seller and Buyer are entering into this Memorandum to confirm and provide record notice of Buyer's rights under the Agreement.

Memorandum

In exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller and Buyer agree and acknowledge as follows:

1. Grant of Option.

(a) Subject to the terms and conditions of this Memorandum and the Agreement, Seller has granted and hereby grants to Buyer, and Buyer has accepted and hereby accepts from Seller, an option (the "Option") to purchase the Water Right.

(b) The Agreement provides that unless the Option terminates earlier pursuant to the Agreement, the Option will be exercisable for a 6-month period (the "Option Period") which begins on the Effective Date and ends at midnight on the last day of the Option Period. The Agreement permits Buyer, subject to the terms and conditions thereof, to extend the Option Period for additional 6-month periods commencing on the termination date of the Option Period.

and ending at midnight on the last day of the extended period. The closing date for the purchase of the Water Right is one year from the date that the Buyer exercises the Option. The Option may be extended to a maximum of 36 months from the Effective Date.

2. Access to Subject Property. Pursuant to the Agreement, Seller is required to provide Buyer and Buyer's contractors reasonable access at any time and from time to time during the Option Period and Extended Option to enter upon any property of Seller to which the Water Right is appurtenant in order to complete its due diligence or to perform other work connected to the Water Right or the filing of a permanent change application.

3. Conveyance Prohibitions. The Agreement prohibits Seller from transferring, conveying or assigning to any person or entity other than to Buyer pursuant to the Agreement, any right, title or interest in the Water Right, or encumbering the Water Right by any mortgage, deed of trust, or other instrument creating any lien or security interest or otherwise securing any debt or obligation, or creating or allowing to be created any exception, defect, or adverse claim against Seller's title to the Water Right other than the rights of Buyer under the Agreement.

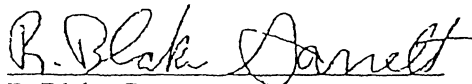
4. Parties in Interest. This Memorandum shall be binding upon, and shall inure to the benefit of, the parties and their respective successors and assigns.

5. Rights of Parties Subject to Terms of Agreement. The rights and obligations of the parties under this Memorandum are subject to all of the terms and conditions of the Agreement. To the extent of any inconsistency between this Memorandum and the Agreement, the Agreement shall govern.

IN WITNESS WHEREOF, Buyer and Seller have executed this Memorandum to be effective as of the date first above written.

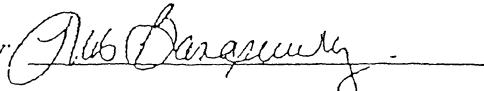
SELLER:

R. BLAKE GARRETT


R. Blake Garrett

BUYER:

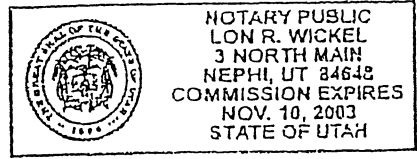
SPRING CANYON ENERGY, L.L.C., a Utah limited liability company

By: 
Its: Principal, MANAGER.

STATE OF UTAH)
) :ss
COUNTY OF Wasatch)

On the 26th day of July, 2002, before me personally appeared R. Blake Garrett, known to me to be the person that executed the within and foregoing instrument, who duly acknowledged to me that he executed the same.

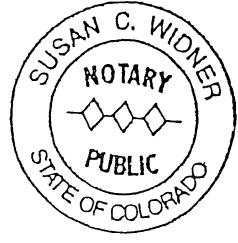
L. R. Wickel
NOTARY PUBLIC



STATE OF Colorado)
) : ss.
COUNTY OF Roout)

On the 5 day of August, 2002, personally appeared before me W. S. Banasiewicz, who being by me duly sworn, did say, that (s)he is the managing member of SPRING CANYON ENERGY, L.L.C., a Utah limited liability Company and that the above Water Right Option And Purchase Agreement was signed by (him)(her) in behalf of said limited liability company.

Susan C. Widner
Notary Public



My Commission Expires:
March 9, 2005

9952

USA POWER PARTNERS, LLC

ALPINE BANK
62-340/1021 339

3010

7/29/2002

PAY TO THE ORDER OF First American Title Insurance Agency, In

\$ **15,360.00

Fifteen Thousand Three Hundred Sixty and 00/100*****

DOLLARS

First American Title Insurance Agency, In

MEMO Blake Garrett Water Right Option

Details on Back
Security Features Included

USA POWER PARTNERS, LLC
First American Title Insurance Agency, In

Blake Garrett-Spring Canyon

7/29/2002

3010

15,360.00

Alpine Bank

Blake Garrett Water Right Option

15,360.00

P278

0953

UTAH DIVISION OF AIR QUALITY
NEW SOURCE PLAN REVIEW

Lois Banasiewicz
Managing Member
Spring Canyon Energy, LLC
P.O. Box 774000-359
Steamboat Springs, Colorado 80477

Project fee code: N2627-001

R/I: Power Generating Facility with One Natural Gas Fired Combined
Cycle Turbine Generator Set with Duct Burner
Juab County, CDS SM; ATT, NSPS, HAPs

REVIEW ENGINEER: Milka M. Radulovic
DATE: August 16, 2002
NOTICE OF INTENT SUBMITTED: August 15, 2002
PLANT CONTACT: Lois Banasiewicz
PHONE NUMBER: (970) 871-6223
FAX NUMBER: (970) 871-6234
SOURCE LOCATION: From Salt Lake take I-15 south approximately 77 miles to Hwy
54. Take exit and proceed west through Mona. Go 1/2 mile north
on Goshen Canyon Road; Plant site is 1/2 mile to the west.
Juab County

UTM COORDINATES: 4,410.042 km. Northing, 422.81 km. Easting. Zone 12
UTM datum NAD27

APPROVALS.
Peer Engineer John Jenks 10/10/02
John Jenks

DAQ requests that a company/corporation official read the attached draft/proposed Plan Review with Recommended Approval Order Conditions. If this person does not understand or does not agree with the conditions, the PLAN REVIEW ENGINEER should be contacted within five days after receipt of the Plan Review. Special attention needs to be addressed to the Recommended AO Conditions because they will be recommended for the final AO. If this person understands and the company/corporation agrees with the Plan Review or Recommended AO Conditions, this person should sign below and return (can use FAX # 801-536-4099) within 10 days after receipt of the conditions. If the Plan Review Engineer is not contacted within 10 days, the Plan Review Engineer shall assume that the Company/Corporation official agrees with this Plan Review and will process the Plan Review towards final approval. A 30-day public comment period will be required before the Approval Order can be issued.

Thank You

Applicant Contact Lois Banasiewicz 10/16/02
(Signature & Date)

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UTAH DIVISION OF AIR QUALITY
NEW SOURCE PLAN REVIEW

Lois Banasiewicz
Managing Member
Spring Canyon Energy, LLC
P.O. Box 774000-359
Steamboat Springs, Colorado 80477

Project fee code: N2627-001

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Cycle Turbine Generator Set with Duct Burner
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PLANT CONTACT: Lois Banasiewicz
PHONE NUMBER: (970) 871-6223
FAX NUMBER: (970) 871-6234
SOURCE LOCATION: From Salt Lake take I-15 south approximately 77 miles to Hwy 54.
Take exit and proceed west through Mona. Go ½ mile north on
Goshen Canyon Road; Plant site is ½ mile to the west.
Juab County

UTM COORDINATES: 4,410.042 km. Northing, 422.81 km. Easting, Zone 12
UTM datum NAD27

APPROVALS:

Peer Engineer _____
John Jenks

DAQ requests that a company/corporation official read the attached draft/proposed Plan Review with Recommended Approval Order Conditions. If this person does not understand or does not agree with the conditions, the PLAN REVIEW ENGINEER should be contacted within five days after receipt of the Plan Review. Special attention needs to be addressed to the Recommended AO Conditions because they will be recommended for the final AO. If this person understands and the company/corporation agrees with the Plan Review or Recommended AO Conditions, this person should sign below and return (can use FAX # 801-536-4099) within 10 days after receipt of the conditions. If the Plan Review Engineer is not contacted within 10 days, the Plan Review Engineer shall assume that the Company/Corporation official agrees with this Plan Review and will process the Plan Review towards final approval. A 30-day public comment period will be required before the Approval Order can be issued.

Thank You

Applicant Contact _____
(Signature & Date)

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TYPE OF IMPACT AREA

Attainment Area..... Yes
Non-attainment Area
 PM₁₀ No
 SO₂ No
 CO No
Maintenance Area
 Ozone No
 CO No

NSPS Yes
 40 CFR Part 60, Subparts A, Da and GG
NESHAP No
MACT No
Hazardous Air Pollutants (HAPs) Yes (from natural gas combustion)
Hazardous Air Pollutants Major Source No
New Major Source No
Major Modification No
PSD Permit No
PSD Increment (modeling) Yes
Operating Permit Program
 Minor Yes
 Major No

Send to EPA Yes
Comment period 30-days

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Abstract

Spring Canyon Energy, LLC (SCE) is proposing to construct, own, and operate a new power generating facility in the Juab valley, Juab County, just west of the Mona Reservoir. The facility will consist of one natural gas turbine generator set in a combined cycle configuration [with one heat recovery steam generator (HRSG) and one steam turbine-generator]. In addition, there will be one diesel fired emergency generator, one diesel-fired emergency fire pump, small diesel fuel storage tanks, an air-cooled condenser (to condense spent steam back into water for recycling to the HRSG), and aqueous ammonia storage and handling equipment. The HRSG duct burners will be fired with natural gas to augment waste heat from the gas turbine exhaust. The power facility will operate with a combined net maximum generating capacity of about 280 MW at 0°F. It is anticipated that the gas turbine will be purchased from General Electric with Dry Lo-NO_x combustion system. NO_x emissions from the gas turbine will be controlled to 2 ppmvd at 15% O₂ reference (by selective catalytic reduction system), CO to 4 ppmvd at 15% O₂ reference (9 ppmvd with duct firing), and ammonia slippage to 10 ppm. The turbine will not be designed to operate in a simple-cycle mode (i.e., bypassing the HRSG unit). Raw materials used at the Spring Canyon plant in addition to natural gas and air are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

Juab County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants.

New Source Performance Standards (NSPS) 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) applies to the proposed turbine. NSPS 40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) applies to the duct burners.

Estimated annual emissions from the entire facility, in tons per year, will be no more than: 66.4 of NO_x, 97.5 of CO, 5.3 of SO₂, 70.9 of PM₁₀, 67.12 of VOCs, and 5.7 tons of hazardous air pollutants (mainly formaldehyde).

Since the emissions have increased above modeling threshold levels for the NO_x, CO, PM₁₀, and formaldehyde, an air quality modeling assessment consistent with UAC R307-410-2 was performed. The US EPA and the State accepted Industrial Source Complex Short Term - Version 3 (ISCST3) model was used by the Applicant to predict air pollutant concentrations under a simple/complex terrain/wake effect situation. The modeling analysis indicated, and the State verified, that there would be no violations of NAAQS and Prevention of Significant Deterioration increments consumption for the proposed project.

Newspaper Notice

Spring Canyon Energy, LLC (SCE) is proposing to construct, own, and operate a new power generating facility in the Juab valley, Juab County, just west of the Mona Reservoir. The facility will consist of one natural gas turbine generator set in a combined cycle configuration [with one heat recovery steam generator (HRSG) and one steam turbine-generator]. In addition, there will be one diesel fired emergency generator, one diesel-fired emergency fire pump, small diesel fuel storage tanks, an air-cooled condenser (to condense spent steam back into

water for recycling to the HRSG), and aqueous ammonia storage and handling equipment. The HRSG duct burners will be fired with natural gas to augment waste heat from the gas turbine exhaust. The power facility will operate with a combined net maximum generating capacity of about 280 MW at 0°F. It is anticipated that the gas turbine will be purchased from General Electric with Dry Lo-NO_x combustion system. NO_x emissions from the gas turbine will be controlled to 2 ppmvd at 15% O₂ reference (by selective catalytic reduction system), CO to 4 ppmvd at 15% O₂ reference (9 ppmvd with duct firing), and ammonia slippage to 10 ppm. The turbine will not be designed to operate in a simple-cycle mode (i.e., bypassing the HRSG unit). Raw materials used at the Spring Canyon plant in addition to natural gas and air are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

It has been determined that the conditions of the Utah Administrative Code R307-401-6 and the Federal rules have been met. The Executive Secretary intends to issue an Approval Order after a 30-day public comment period is held. This comment period is being held to receive and evaluate public input on the project proposed by Spring Canyon Energy, LLC.

L DESCRIPTION OF PROPOSAL

1.0 Introduction

Summary

In an effort to ensure a reliable supply of electrical generation to Utah, Spring Canyon Energy, LLC intends to install, own and operate a combined natural gas fueled turbine-generator set at a new power generating facility to be located near Mona in Juab County. The facility will consist of one natural gas turbine generator set in a combined cycle configuration [with one heat recovery steam generator (HRSG) and one steam turbine-generator]. In addition, there will be at the facility one diesel fired emergency generator, one diesel-fired emergency fire pump, small diesel fuel storage tanks, an air-cooled condenser (to condense spent steam back into water for recycling to the HRSG), and aqueous ammonia storage and handling equipment. The HRSG duct burners will be fired with natural gas to augment waste heat from the gas turbine exhaust. The power facility will operate with a combined net maximum generating capacity of about 280 MW at 0°F. It is anticipated that the gas turbine will be purchased from General Electric with Dry Lo-NO_x combustion system. The turbine will not be designed to operate in a simple-cycle mode (i.e., bypassing the Heat Recovery Steam Generating Unit). Raw materials used at the Spring Canyon plant in addition to natural gas and air are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

The gas turbine emissions (corrected to 15% O₂) will be 2.0 ppmvd NO_x, 4.0 ppmvd CO (9.0 ppmvd with duct firing) and ammonia slippage to 10 ppm. Annual potential to emit emissions from the facility will be no greater than 66.4 tons of NO_x, 97.5 tons of CO, 70.9 tons of fine particulates (PM₁₀), 67.12 tons of volatile organic compounds (VOCs), 5.3 tons of SO₂ and 5.7 tons of hazardous air pollutants (HAPs).

Background

The need for the facility is a result of a significant increase in the electrical demand. Additionally, the plant will provide a voltage support in the area. Power generation from natural gas fuel provides the lowest emission option.

It is necessary to locate the facility near Mona, Juab County, Utah, classified as an attainment area by EPA Clean Air Standards, which is close to an electrical substation to minimize cost of electrical transmission lines needed. It is also located near the existing high capacity power lines and an adequately sized high-pressure natural gas supply line. In addition, the facility needs to be located in rural, not heavily populated area; an area where water and or water rights need to be obtainable; sufficient contiguous acreage needs to be available at reasonably affordable price; and correct zoning will be in place or acceptable to local community Planning Department or equivalent.

- A. Spring Canyon Energy, LLC (SCE) is proposing to construct a natural gas-fired, combined-cycle power generating facility near Mona, Juab County, Utah.

The Spring Canyon facility will consist of one natural gas fueled turbine generator set in a combined cycle configuration with one steam turbine generator set. Natural gas (no other fuel will be used) will be introduced with ambient air (chilled when ambient temperatures are above 59°F) into a General Electric Frame 7FA (PG7241FA) gas turbine to produce approximately a maximum of 158 MW gross output at 0°F ambient conditions.

The gas turbine is a heavy-duty industrial type frame unit representing state of the art current day technology. Gas turbine inlet air is compressed and fuel is then introduced and ignited to produce hot exhaust gases that are then expanded through the turbine section of the machine. The rotating turbine in turn drives the generator that produces electricity, the only product delivered by the facility. Waste exhaust heat from the gas turbine is directed into a heat recovery steam generator where it is augmented by natural gas fired duct burners located within the HRSG to produce steam. This steam is used internally at the plant to drive a steam turbine generator to create up to about 122 MW of additional "combined cycle" power for export. An air-cooled condenser will condense spent steam from the steam turbine exhaust back into water for recycling to the HRSG. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

It is anticipated that the gas turbine will be purchased from General Electric. The unit would be manufactured in Greenville, South Carolina, and would be configured with the latest technology Dry Lo-NOx combustion system, which when combined with the SCR catalyst system in the HRSG, qualifies as BACT Emission Rate for NO_x for this type of combined cycle power plant. NO_x emissions in the turbine exhaust gas will be controlled to 9 ppmvd by Dry Lo-NOx combustion technology prior to passing through the selective catalytic reduction (SCR) system. NO_x emissions will be reduced to 2.0 ppmvd (at 15% O₂) at the stack exit after passing through the SCR section of the HRSG. CO emissions will be 4.0 ppmvd at 15% reference O₂ at the stack exit (9.0 ppmvd when the plant output is augmented

with HRSG duct firing to increase the steam turbine generator output).

Raw materials used at the Spring Canyon plant in addition to natural gas and air are water (to generate the steam) and aqueous ammonia for the selective catalytic (NO_x) reduction process.

The Spring Canyon facility will have a maximum generating capacity of approximately 280 MW at 0°F and is projected to begin operation in June 2004, or possibly earlier. Maximum estimated annual emissions from the facility will be less than: 66.4 tons of NO_x, 97.5 tons of CO, 70.9 tons of fine particulates (PM₁₀), 67.12 tons of volatile organic compounds (VOCs), 5.3 tons of SO₂ and 5.7 tons of hazardous air pollutants (HAPs). All potential to emit emissions levels are below the ton-per-year PSD thresholds.

Monitoring of emissions from these units will be performed pursuant to 40 CFR 60, Subparts GG and Da and 40 CFR Part 75 and the approval Order.

II. EMISSION SUMMARY

Emissions estimates for NO_x, CO and VOC are based on engineering calculations and emission data provided by the equipment manufacturers. SO₂ emissions are based on sulfur content data from the natural gas supplier. Emissions estimates for HAPs are based on the EPA's Compilation of Air Pollutant Emission Factors, AP-42 (Supplement F EPA, April 2000). Ammonia slip from the SCR system will be limited to approximately 10 ppmvd, (also based on vendor design data).

The plant steam cycle is designed to be capable of handling full gas turbine base load plus HRSG duct firing down to a minimum ambient temperature of 0°F. When ambient temperatures drop below this value it will be necessary for the plant to reduce duct firing so as not to exceed the design capacity of the steam system. If it were not reduced, the steam generation capability would continue to increase beyond the design capacity of the steam turbine. System overpressure and a need for steam relief would result. Therefore, as ambient temperatures drop through 0°F, emission contributions from the duct burner will decrease since the duct-firing rate must be decreased. The zero degree case thus represents the worst-case emissions for this project since it represents the maximum gas turbine base load condition that is coincident with full duct firing capability.

Maximum Hourly Emission Rates from the Gas Turbine and Duct Burner, Maximum plant output at 0°F:							
Gas Turbine Load	%	100	100	100	100	75	50
GT Fuel Consumption	10 ⁶ x Btu/hr, HHV	1462.3	1462.3	1462.3	1462.3	1097.2	878.6
Duct Burner Fuel	10 ⁶ x Btu/hr,	520	364	32.5	0	0	0

Consumption	HHV						
Combined GT/DB NO _x	#/hr	15.14	13.14	8.9	8.48	6.4	4.96
Combined GT/DB CO	#/hr	43.80	39.95	22.35	15.2	11.26	9.01
Combined GT/DB VOC	#/hr	10.40	15.34	5.53	2.60	1.80	1.60
Combined GT/DB SO ₂	#/hr	1.21	1.12	0.93	0.92	0.69	0.55
Combined GT/DB PM10	#/hr	16.18	15.34	10.51	9.43	9.38	9.32
Maximum Stack Emission Concentrations Dry @ 15% O₂ Ref							
Combined NO _x GT/DB	ppmvd	1.93	1.81	1.47	1.43	1.45	1.42
Combined CO GT/DB	ppmvd	9.18	9.03	6.06	4.21	4.19	4.24
Combined VOC GT/DB	ppmvd	3.81	6.05	2.62	1.26	1.17	1.31
Combined SO ₂ GT/DB	ppmvd	0.11	0.11	0.11	0.11	0.11	0.11

The hourly emission rates in bold letters are the maximum rates for operation of the proposed turbine with duct burner firing natural gas at 100 percent loads based on operation at 0°F, 12.19 ambient pressure, and 25% relative humidity.

² PM₁₀ emissions are condensible and filterable.

GT Gas Turbine
DB Duct Burner

Notes.

- CO = Carbon monoxide
- HHV = high heating value (1011.4 Btu/scf)
- ppmvd = parts per million volume dry
- NO_x = Oxides of nitrogen
- PM₁₀ = Particulate matter less than 10 microns in size
- SO₂ = Sulfur dioxide; based on fuel sulfur = 2 gr/1000 cu ft
- VOC = Volatile organic compound

Pollutant	Annual Emissions (tpy)	GT + DB	GT only	Emission Factor
		Emissions (lb/hr)	Emissions (lb/hr)	Reference
Criteria Pollutants				

Nitrogen Oxides	63.5	14.5	7.84	Vendor
Carbon Monoxide	97.5	42.1	13.52	Vendor
Sulfur Dioxide	4.9	1.1	0.83	Questar S data
VOCs (Hydrocarbons)	44.7	10.2	2.40	Vendor
Particulate Matter, PM ₁₀ ³	70.9	16.1	9.49	Vendor
Hazardous Air Pollutants (HAPs)				
1,3 Butadiene	0.017	0.004		4
Acetaldehyde	0.015	0.035		5
Acrolein	0.015	0.003		5
Benzene	0.17	0.04		5
Ethylbenzene	1.35	0.30		5
Formaldehyde	1.51	0.346		5
Naphthalene	0.01	0.002		5
PAH	0.002	0.0005		5
Propylene Oxide	1.20	0.27		5
Toluene	1.12	0.25		5
Xylenes	0.26	0.06		5
	5.7	1.31		

- ¹ The emissions values provided in the tables are the cumulative emissions for both turbine and duct burner or gas turbine only.
- ² The hourly emission rates are the maximum rates at 100 percent loads based on operation at 59°F, 12.19 psia pressure and 45% relative humidity.
- ³ PM₁₀ emissions are condensable and filterable.
- ⁴ AP-42
- ⁵ Ventura County (CA) Air Pollution Control District

Notes:

CO = Carbon monoxide
 tons/yr = tons per year
 lb/hr = pounds per hour
 NOx = Oxides of nitrogen
 PM₁₀ = Particulate matter less than 10 microns in size
 SO₂ = Sulfur dioxide; based on fuel sulfur = 2 gr/1000 cu ft
 Tpy = tons per year
 VOC = Volatile organic compound
 GT = Gas turbine
 DB = Duct Burner

The emissions from entire Sources will be as follows:

<u>Pollutant</u>	<u>Current Emissions tons/year</u>	<u>Emission Increases tons/year</u>	<u>Total Emissions tons/year</u>
PM ₁₀	0.00	70.90	70.90
SO ₂	0.00	5.30	5.30
NO _x	0.00	66.40	66.40
CO	0.00	97.5	97.5
VOC	0.00	67.12	67.12
HAPs			
Formaldehyde	0.00	1.51	1.51
Ethylbenzine	0.00	1.35	1.35
Propylene Oxide	0.00	1.20	1.20
Toluene	0.00	1.12	1.12
Miscellaneous HAPs	0.00	0.42	0.42
Total HAPs	0.00	5.70	5.70

III. BEST AVAILABLE CONTROL TECHNOLOGY (BACT) ANALYSIS

UACR R307-401 -6 states, "The Executive Secretary shall issue an approval order if he determines through plan review that the following conditions have been met: The degree of pollution control for emissions, to include fugitive emissions and fugitive dust, is at least BACT except as otherwise provided in these regulations".

The following analyses are presented to determine the BACT controls for each criteria pollutant being emitted for this project.

Step 1 - Identify Potential Control Technologies

The following were conducted: A thorough search of the EPA's RACT/BACT/LAER clearinghouse; Federal/state/local NSR permits; control technology vendors; and environmental consultants.

Step 2 - Eliminate Technically Infeasible Options

Technically feasible option means a technology that is available and applicable to the permittee's operations. The analysis is based on chemical, physical and engineering principles or empirical data

Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Step 4 - Evaluate Most Effective Controls and Document Results

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The factors considered while evaluating the most effective control options are energy impacts, environmental impacts, and economic impacts.

Step 5 - Select BACT

Each of these steps has been conducted for CO, and are described below. A BACT analysis of NO_x, SO₂, PM₁₀, and VOC has also been conducted.

NO_x Control Analysis

Step 1 – Identify Potential Control Technologies

Potential NO_x control technology options are:

- Selective Catalytic Reduction (SCR) system and Dry Lo-NO_x (DLN);
- Xonon
- SCONO_x
- DLN only
- SCR only
- Water or Steam Injection

Step 2 - Eliminate Technically Infeasible Options

-Conventional SCR system requires an exhaust temperature in the 400°F to 800°F range, and when combined with Dry Lo-NO_x, achieves 2.0 ppmvd (at 15% O₂) NO_x. No other technology has achieved this level on gas turbines of this size.

-XONON is not available as a control technology for this application. XONON is being developed by Catalytica Combustion Systems, Inc. It is a catalytic combustion system that reduces the production of NO_x. Extensive information on the technology's development indicates that the technology has only been tested on small turbines (less than 10 MW) and is not yet used commercially. This technology has not yet been tested on turbines in the size range of this project's turbine.

Catalytica has entered into an agreement with GE to collaboratively develop the technology for installation on GE Frame E-class and F-class turbines. Catalytica cautions potential investors that adaptation of the technology to GE's turbines will require anywhere from 12 to 24 months. In fact, in a comparison of NO_x control technologies on the website, Catalytica indicates that the technology is "in process" of being proven in practice. XONON cannot be considered an available technology for this project.

-Another promising developing technology is SCONO_x. SCONO_x, like SCR system, operates effectively in temperatures ranging from 300°F to 700°F. SCONO_x has not been demonstrated in practice on gas turbines of this scale.

-Water injection into the combustion process is an option to reduce NOx production. Water or steam injection can be utilized to reduce NOx levels. By injecting water or steam into the flame, flame temperatures are reduced, thereby lowering thermal NOx formation and overall NOx levels. Water or steam injection can reduce NOx levels by up to 80% (when firing natural gas) and can achieve greater reduction when firing oil. There is a practical limit to the amount of water or steam that can be injected into the flame before flame stability problems are experienced. Additionally, under normal operating conditions, water/steam injection can result in 3-10% efficiency loss. Many times water or steam injection is used in conjunction with other NOx control methods such as burner modifications or flue gas recirculation. Water or steam injection alone can only achieve NOx levels of 25 ppm.

-In summary, for gas turbines of this size, SCR (combined with Dry-Lo-NOx) system is the only viable option to achieve 2.0 ppmvd (15% O2) NOx for exhaust temperatures cooled to between 400°F to 850°F. The control effectiveness of any other viable options and possible combinations are presented in Step 3.

Step 3 – Rank Remaining Control Technologies by Control Effectiveness

There is only one other proven NOx reduction control technology combination proven on the large General Electric frame units. A combination of water injection and SCR control can lower emission rates to 5 ppmvd for NOx.

Step 4 – Evaluate Most Effective Controls and Document Results

For combined-cycle operation, BACT is a combination of Dry Lo-NOx and SCR system controls for NOx. Since the top (minimum NOx emissions) alternative is proposed for NOx, no cost, environmental or energy impact analyses are required.

Step 5 – Select BACT

The final step is to select BACT for the General Electric Frame 7-FA combined cycle operations at Spring Canyon. For the combined cycle GE Frame 7-FA turbine operations, Dry Lo-NOx and SCR system control with a corresponding emission limit of 2.0 ppmvd is proposed as BACT.

BACT Analysis for CO Emissions

Step 1 – Identify All Control Technologies

Only two control technologies have been identified for CO control:

Combustion Controls
CO catalyst

Step 2 – Eliminate Technically Infeasible Options

Both identified control technologies are technically feasible for this project.

Step 3 – Rank Remaining Control Technologies by Control Effectiveness

-CO catalyst vendors quote guarantee emissions levels of 4.0 ppm. For this project, the turbine vendor has indicated that proper operation of the turbine will result in CO emissions from the combustor of 4.0 ppmvd (corrected to 15% O₂). Thus there is no additional cost to achieve 4.0 ppm CO on the turbine. This level is below that listed in the California Air Resources Board BACT guidance document (6 ppm).

Control Technology Emission Rate Ranking

Control Technology	CO Emissions (ppmvd at 15% O ₂)	Reduction
Combustion Controls	4	NA
CO Catalyst	4	0%

Step 4 – Evaluate Most Effective Controls and Document Results

This step involves the consideration of energy, environmental, and economic impacts associated with each control technology. The top-down process requires that the evaluation begin with the most effective technology. The “top” technologies are Combustion Controls or a CO catalyst. Since the top alternative is proposed as BACT for CO, the cost, environmental, and energy impact analyses are not required.

Step 5 – Select BACT

The final step in the top-down BACT analysis process is to select BACT. Good combustion control is proposed as BACT for this project. Good combustion control with CO emissions of 4.0 ppmvd (at 15% O₂) is proposed as BACT for this project. Note: CO emissions will be kept below 9.0 ppm (at 15% O₂) when the turbine is augmented with duct firing.

BACT Analysis for PM₁₀ Emissions

Step 1 – Identify Potential Control Technologies

Three control methods have been identified for PM₁₀ control in power generation units:

- Electrostatic precipitators (ESPs)
- Fabric filters
- Combustion of pipeline-quality gas (primary) as the primary fuel

Step 2 – Eliminate Technically Infeasible Options

Neither electrostatic precipitators nor fabric filters are considered to be technically feasible options for combined cycle combustion turbines because of the high exhaust flow rates and the low concentration of particulate in the turbine exhaust.

The particle resistivity associated with gas turbine exhaust is a major problem for ESPs. ESPs remove particles by charging the particles and then collecting them on plates. ESP performance is greatly affected by the ability of the particles to accept and maintain a charge. Because of the resistivity of the exhaust particles from gas turbines, ESPs are not an effective control of turbine particulate matter.

BACT control

The only remaining feasible control method is the use of pipeline-quality natural gas as combustion fuel. This option is PM10 BACT for this project.

BACT Analysis for SO₂ Emissions

Step 1 – Identify Potential Control Technologies

Four potential control methods have been identified for SO₂ control:

- Wet flue gas desulfurization (FGD) systems;
- Dry FGD systems;
- Spray dryers
- Combustion of pipeline-quality gas as the combustion fuel.

Step 2 - Select BACT

No wet FGD systems, dry FGD systems, nor spray dryers have been applied to the exhaust gases from turbines, and significant technological difficulties are envisioned to apply all of these technologies. The low SO₂ emissions levels inherent with firing natural gas in a turbine constitutes BACT. In a review of the EPA Clearinghouse data, the only control methods for SO₂ with turbines were related to the fuel combusted. Each turbine listed in the database was required to fire either pipeline-quality natural gas or a low sulfur fuel oil.

For this application, BACT for SO₂ is the use of pipeline-quality natural gas as the combustion fuel.

BACT Analysis for VOC Emissions

Step 1 – Identify Potential Control Technologies

A review of EPA's Clearinghouse showed BACT control for combined cycle gas turbine combustion units is combustion of pipeline-quality natural gas as the primary fuel.

Select BACT

Use of only pipeline-quality natural gas as the fuel for the turbine is BACT for VOCs for this project.

IV. APPLICABILITY OF FEDERAL REGULATIONS AND UTAH ADMINISTRATIVE CODES (UAC)

The Notice of Intent submitted is for a new source. At the time of this review the Utah Administrative Code Rules 307 (UAC R307) and federal regulations have been examined to determine their applicability to this Notice of Intent. The following rules have been specifically addressed.

1. R307-101-2, Major Modification - means any physical change in or change in the method of operation of a major source that would result in a significant net emissions increase of any pollutant.
2. R307-107, UAC - Unavoidable breakdown reporting requirements
3. R307-150 Series, UAC - Inventories, Testing and Monitoring. These rules cover emission inventory reporting requirements and require the owner or operator of sources of air pollution to submit an emissions inventory report:

R307-150. Emission Inventories
R307-155. Hazardous Air Pollutant
R307-158. Emission Statement Inventory.
4. R307-201-1(2), UAC - 20% maximum opacity limitation at all emission points. Visible emissions from installations constructed after April 25, 1971, except internal combustion engines, or any incinerator shall be of a shade or density no darker than 20% opacity, except as otherwise provided in these regulations.
5. R307-201-1(9), UAC - Opacity Observation.
6. R307-203-1(1), UAC - Commercial and Industrial Sources. Any coal, oil, or mixture thereof, burned in any fuel burning or process installation not covered by New Source Performance Standards for sulfur emissions shall contain no more than 1.0 pound sulfur per million gross Btu heat input for any mixture of coal nor .85 pounds sulfur per million gross Btu heat input for any oil.

7. R307-205 (UAC) - Emission Standards: Fugitive Emissions and Fugitive Dust.
8. R307-401-10(1), UAC - All sources excluding non-commercial residential dwellings shall install oxides of nitrogen control/low oxides of nitrogen burners or controls resulting from application of an equivalent technology, as determined by the Executive Secretary, whenever existing fuel combustion burners are replaced, unless such replacement is not physically practical or cost effective. The request for an exemption shall be presented to the Executive Secretary for review and approval.
9. R307-403-3, UAC - Every major new source or major modification must be reviewed by the Executive Secretary to determine if a source will cause or contribute to a violation of the NAAQS.
10. R307-403-5(1)(b), UAC - Enforceable offsets of 1.2:1 are required for new sources or modifications that would produce an emission increase greater than or equal to 50 tons per year of any combination of PM₁₀, SO₂, and NO_x.
11. R307-403-5(1)(c), UAC - Enforceable offsets of 1:1 are required for new sources or modifications that would produce an emission increase greater than or equal to 25 tons per year but less than 50 tons per year of any combination of PM₁₀, SO₂, and NO_x.
12. R307-405, UAC - Permits: Prevention of Significant Deterioration of Air Quality (PSD).
 - 405-1. Definitions
 - 405-2. Area Designations
 - 405-3. Area Redesignation
 - 405-4. Increments and Ceilings
 - 405-5. Baseline Concentration and Date
 - 405-6. PSD Areas - New Sources and Modifications
 - 405-7. Increment Violations
 - 405-8. Banking of Emission Offset Credit in PSD Areas
13. R307-406, UAC – Visibility
 - 406-1.(1) The Executive Secretary shall review any new major source or major modification proposed in either an attainment area or area of non-attainment area for the impact of its emissions on visibility in any mandatory Class I area.
14. R307-410, UAC - Permits: Emissions Impact Analysis (Air Quality Modeling)
15. R307-413, UAC - Permits: Exemptions and Special Provisions
 - 413-1. Definitions and General Requirements
 - 413-2. Small Source Exemptions - De minimis Emissions
 - 413-3. Flexibility Changes
 - 413-4. Other Exemptions
 - 413-5. Replacement-in-Kind Equipment

- 413-6. Reduction of Air Contaminants
- 413-7. Exemption from Notice of Intent Requirements for Used Oil Fuel Burned for Energy Recovery
- 413-8. De minimis Emissions From Air Strippers and Soil Venting Projects
- 413-9. De minimis Emissions From Soil Aeration Projects.

- 16. R307-420, UAC - Permits: Ozone Offset Requirements in Davis and Salt Lake Counties.
- 17. 40 CFR, Part 50 - National Ambient Air Quality Standards (NAAQS). The following areas are Non-attainment areas:

PM₁₀ Salt Lake and Utah Counties, and the city of Ogden
 SO₂ Salt Lake County and The Oquirrh Mountains above 5,600 feet in Eastern Tooele County
 CO Provo

The following areas are Maintenance Areas:

Ozone Salt Lake and Davis Counties
 CO Ogden and Salt Lake City

- 18. 40 CFR 60.15, Definition of Reconstruction - the replacement of components of an existing facility to such an extent that:
 - A. The fixed capital cost of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable entirely new facility and
 - B. It is technologically and economically feasible to meet the applicable standards set forth in this part.

- 19. R-307-405-1. Permits: Prevention of Significant Deterioration of Air Quality

Since the proposed turbine belongs to a source category for "Fossil fuel-fired steam electric plants of more than 250 x 10⁶ Btu/hr heat input", a potential to emit of any air pollutant of 100 tons would qualify this source to be a major PSD source.

This source has proposed emissions for any air pollutant of less than 100 tons; therefore it does not qualify as a major PSD source and it is not a subject to PSD applicability. Thus the provisions of UAC R307-405 do not apply to this project. Thus the facility, as proposed in this project, is considered a PSD syntactic minor source.

- 20. Offsets: General Requirements

The project location is in Juab County, which is an attainment area for all pollutants. Impact from this source was evaluated and modeling analysis showed that the emissions from this source would not cause an increase greater than the increments given in UAC

R307-403-3. Review of Major Sources of Air Quality Impact.

Therefore, the proposed project did not trigger offsets requirements. Thus the provisions of UAC R307-403-3 (3) do not apply.

R307403-5. Offsets: PM10 Nonattainment Area

The impacts of any combination of PM₁₀, NO_x and SO₂ along the Utah County line are below 1.0 :g/m³ for an annual averaging period and below 3.0 :g/m³ for a 24-hour averaging period. Thus the provisions of UAC R307-403-5 do not apply.

21. Air Quality Impact Analysis

In the review of the Applicant's air quality impact analysis was evaluated including the information, data, assumptions and modeling results used to determine if the facility would be in compliance with State and Federal concentration standards, increments and/or levels. The information, data, assumptions, and modeling results submitted by the Applicant are contained in the report entitled "*Air Dispersion Modeling Results for the Spring Canyon, Utah, Combined Cycle Power System,*" dated July 25, 2002.

Applicable Rule(s)

Utah Air Quality Rules (UAC):

R307-401-6	Condition for Issuing an Approval Order
R307-410-2	Use of Dispersion Models
R307-410-3	Modeling of Criteria Pollutants in Attainment Areas
R307-410-4	Documentation of Ambient Air Impacts for Hazardous Air Pollutants
R307-410-5	Stack Heights and Dispersion Techniques
R307-403-5	Offsets: PM10 Non-attainment Areas

Modeling Methodology

Applicability

Since the emissions have increased above modeling threshold levels for NO_x, CO, PM₁₀, and formaldehyde, an air quality modeling assessment consistent with R307-410-2 was performed.

Assumptions

Topography/Terrain

The Plant is at an elevation of approximately 5150 feet with nearby significant terrain features that will affect concentration predictions.

a. Zone: 12

b. Approximate Location:

UTM (NAD27): 423178.88 meters East, 4410214.5 meters North

2. Urban or Rural Area Designation

After a review of the appropriate 7.5 minute quadrangles, it was concluded that the area is "rural" for air modeling purposes.

3. Ambient Air

It was determined that the Plant boundary used in the AQIA meets the State's definition of ambient air.

4. Building Downwash

The Applicant used the U.S. Environmental Protection Agency (USEPA) Building Profile Input Program (BPIP) to determine good engineering practice (GEP) stack heights and building dimensions for input into the ISCST3 model. Parameters from the stacks and dimensions from buildings were input into the BPIP. It was assumed that ground level elevations for the stacks and buildings were the same. The output from BPIP showed all stacks to be less than their GEP formula stack height, thereby, required a wake effect evaluation. Since the stack is higher than 65 meters, the stack height must be in accordance with the GEP stack height requirements. Section 12 of this review contains a more in-depth review of the stack height justification used in the AQIA.

5. Meteorology

Five years of off-site surface and upper air data was used in the analysis consisting of the following:

Surface/Upper Air - Salt Lake City Intl. Airport-NWS, 1995-1999

6. Background

The NO₂ background concentration of 10 µg/m³, was estimated based on review of ambient air data monitored in similar rural areas. Similarly, the PM₁₀ background concentration of 28 µg/m³ 24-hour average and 10 µg/m³ annual average were estimated based on review of ambient air data monitored in rural areas. The CO background concentrations of 1 ppm 1-hour average and 1 ppm 8-hour average, were also estimated based on review of ambient air data monitored in rural areas.

7. Receptor and Terrain Elevations

The modeling domain used by the Applicant consisted of 2881 receptors including property boundary receptors. This area of the state contains mountainous terrain and the modeling

domain has simple and complex terrain features in the near and far fields. Therefore, receptor points representing actual terrain elevations from the area were used in the analysis. Receptors were also concentrated along the Juab-Utah county line in order to estimate impacts related to the offset requirements for the Utah County PM₁₀ non-attainment area.

8. Model and Options

The US EPA and the State accepted Industrial Source Complex Short Term - Version 3 (ISCST3) model was used by the Applicant to predict air pollutant concentrations under a simple/complex terrain/wake effect situation. In quantifying concentrations, the regulatory default option was selected by the Applicant.

9. Ambient Ratio Method (ARM)

The Applicant used the EPA default NO₂/NO_x ratio of 0.75 to obtain annual NO₂ concentrations from the model predicted NO_x concentrations.

10. Air Pollutant Emission Rates

Source	Expected Maximum Air Pollutant Emission Rates at ISO Conditions							
	NO _x (lb/hr) (tpy)		PM ₁₀ (lb/hr) (tpy)		SO ₂ (lb/hr) (tpy)	CO (lb/hr)	Formaldehyde (lb/hr)	
E-STACK	15.14	66.31	16.18	70.518	1.21	4.818	39.4	0.3463

11. Source Location and Parameters

Point Sources

Source	Site Coordinates		Stack Parameters				
	Easting (X) (m)	Northing (Y) (m)	Base Elevation (ft)	Height (ft)	Gas Temperature (°F)	Exit Velocity (ft/s)	Diameter (ft)
E-STACK	423178.9	4410215	5150	295.3	230	80.00	17.00

12. GEP Stack Height Evaluation

The facility proposes to install a stack that is taller than 65 meters. As required under R307-410-5, the degree of emission limitation required of any source for control of any air

contaminant to include determinations made under R307-401, R307-403 and R307-405, must not be affected by so much of any source's stack height that exceeds good engineering practice or by any other dispersion technique.

For this facility, the GEP stack height is defined by $H_g = H + 1.5L$. Where H_g = GEP stack height measured from the ground-level elevation at the base of the stack; H = height of nearby structure(s) measured from the ground-level elevation at the base of the stack; L = lesser dimension (height or projected width) of nearby structure(s).

Based on the building dimensions supplied by the applicant, the following dimensions were used to determine H_g :

$H = 36.58$ meters (HRSG building)

$L = 36.58$ meters (HRSG building projected width = 43.84 meters, height = 36.58 meters)

Therefore, $H_g = 36.58 + 1.5 * 36.58 = 91.45$ meters.

Since the proposed stack is 90 meters, the stack height is justified and does not exceed GEP formula height.

RESULTS AND CONCLUSIONS

A. National Ambient Air Quality Standards

The below table provides a comparison of the predicted total air quality concentrations with NAAQS. The predicted total concentrations are less than the NAAQS.

Air Pollutant	Period	Prediction ($\mu\text{g}/\text{m}^3$)	Background ($\mu\text{g}/\text{m}^3$)	Total ($\mu\text{g}/\text{m}^3$)	NAAQS ($\mu\text{g}/\text{m}^3$)	Percent NAAQS
NO ₂	Annual	0.172196	10	10.1722	100	10.17%
PM ₁₀	24-Hour	1.66372	28	30	150	19.78%
	Annual	0.254929	10	10	50	20.51%
CO	1-Hour	29.57913	1,111	1,141	40,000	2.85%
	8-Hour	11.08169	1,111	1,122	10,000	11.22%

B. Hazardous Air Pollutant Demonstration

The below table summarizes the predicted HAPS concentrations and compares those values with the State of Utah acceptable health levels or toxic screening levels. All predicted concentrations were determined to be less than the HAPS specific toxic screening levels.

Air	Period	Prediction	TSL	Percent
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Pollutant		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)	TSL
Formaldehyde	1-Hour	0.259981	37	0.70%

Formaldehyde: 1-Hour TSL = TLV/10

C. Air Quality Increments - Class II

The below table provides a comparison of the predicted concentration, which only includes increment consuming emissions from the Spring Canyon facility. The predicted concentration is less than the Class II air quality increment.

Air Pollutant	Period	Prediction ($\mu\text{g}/\text{m}^3$)	Increment ($\mu\text{g}/\text{m}^3$)	Percent PSD
NO ₂	Annual	0.1721955	25	0.69%
PM ₁₀	24-Hour	1.6637196	30	5.55%
	Annual	0.2549285	17	1.50%

D. Offsets for PM10 Non-attainment areas

The below table summarizes the combined NOx+SO2+PM10 concentrations predicted within the Utah County PM10 non-attainment area, and compares those values with the State of Utah acceptable levels. All predicted concentrations were determined to be less than the offset trigger concentration; therefore, no offsets are required.

Air Pollutant	Period	Prediction ($\mu\text{g}/\text{m}^3$)	Allowed ($\mu\text{g}/\text{m}^3$)	Percent
(NO2+PM10+SO2)	Annual	0.41	1	40.71%
	24-Hour	2.63	3	87.56%

V. Modeling Recommended Permit Conditions

The following suggested permit language should be included under the Terms and Conditions:

- A. Gas Turbine, Stack Height - no less than 90 meters as measured from the ground.
- B. Gas Turbine, Stack Exit Diameter - not greater than 17 feet.

RECOMMENDED APPROVAL ORDER CONDITIONS

General Conditions:

1. This Approval Order (AO) applies to the following company:

Corporate Office Location

Spring Canyon Energy
PO Box 774000-359
Steamboat Springs, Colorado 80477
Phone Number (970) 871-6223
Fax Number (970) 871-6234

The equipment listed in this AO shall be operated at the following location:

From Salt Lake take I-15 south approximately 77 miles to Hwy 54. Take exit and proceed west through Mona. Go ½ mile north on Goshen Canyon Road; Plant site is ½ mile to the west.
Juaab County

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27
4,410.042 kilometers Northing, 422.81 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
6. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.

All other records Two years

7. Spring Canyon Energy, LLC shall install and operate one natural gas fueled combined cycle turbine generator set with duct burner and ambient air inlet chiller with maximum combined rating of approximately 280 MW, one diesel fired emergency generator rated at 700 bhp, one diesel fired fire pump rated at 250 bhp, and miscellaneous small diesel fuel storage tanks (each with storage capacity of less than 10,000 gallons) at the Spring Canyon Energy power generating facility in accordance with the terms and conditions of this AO, which was written pursuant to Spring Canyon Energy, LLC's Notice of Intent submitted to the Division of Air Quality (DAQ) on August 13, 2002 and additional information submitted to the DAQ on August 15, 2002, August 29, 2002, September 26, 2002, October 10, 2002

8. The approved installations shall consist of the following equipment or equivalent*:

A. One (1) General Electric Frame 7-FA (PG7241FA)* gas turbine, with one (1) duct fired HRSG, and one (1) steam turbine generator set.

The gas turbine is provided with ambient inlet air chiller coils. The Heat Recovery Steam Generator (HRSG) is equipped with a Selective Catalytic Reduction System for abatement of NO_x emissions from the Duct Burner and the Gas Turbine. Continuous Emission Monitoring System (CEMS) for the HRSG stack is provided for monitoring emissions from the gas turbine and duct burners. The power generating facility has the following characteristics:

Maximum plant site rated output at 100% Load, 0°F, 12.19 psia and 25% relative humidity:	280 MW
Heat input at the baseload, ISO (59°F, site elevation):	1,472.9 x Btu/hr (HHV)
Maximum gas turbine firing rate:	1,621.5 x 10 ⁶ Btu/hr (HHV)

B. One (1) duct burner (subject to 40 CFR 60, Subpart Da)
Maximum firing rate: 520 x 10⁶ Btu/hr (HHV)

C. One (1) Diesel Fired Emergency Generator rated at 700 bhp

D. One (1) Diesel Fired Emergency Fire Pump rated at 250 bhp

E. Miscellaneous diesel fuel storage tanks, each individual tank storage capacity is less than 10,000 gallons

F. One (1) Dry type air-cooled condenser.**

* Equivalency shall be determined by the Executive Secretary.

** This equipment is listed for informational purposes only. There are no emissions from this equipment.

9. Spring Canyon Energy, LLC shall notify the Executive Secretary in writing when the

installation of the equipment listed in Condition #8 has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If construction and/or installation have not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

Limitations and Tests Procedures

10. Visible emissions from the following emission points shall not exceed the following values:
 - A. Natural gas combustion exhaust stacks - 10% opacity
 - B. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

11. The following limits shall apply:
 - A. Gas Turbine, Stack Height - no less than 295.27 feet (90 meters) as measured from the ground
 - B. Gas Turbine, Stack Exit Diameter - not greater than 17 feet
12. Combined source wide CO emissions shall be no greater than 97.5 tons per rolling 12-month period.

Compliance to the above emission limitation shall be determined as follows:

CO from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in the EPA reference Method 19 or other procedure approved by the Executive Secretary). CO from the emergency generators shall be obtained by multiplying the engine rating, recorded hours of operation and emission factors from the Vendor data if available or EPA's Compilation of Air Pollutant Emission Factors, AP-42

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation. For emergency generator and the emergency fire pump hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of consumption/production shall be kept on a daily basis.

13. Combined emission rate of $PM_{10} + NO_x + SO_2$ shall not be greater than of 776.16 lb per any

rolling 24-hour average at the stack exhaust (turbine and the duct burner)
Compliance to the above emission limitation shall be determined as follows:

NO_x from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in EPA reference Method 19 or other procedure approved by the Executive Secretary).
PM₁₀ from the gas turbine and the duct burner shall be from the latest emission test recorded data or from Vendor data if testing is not required.
SO₂ from the gas turbine and the duct burner shall be from the latest emission test or if testing is not required by the other alternative method as approved by the Executive Secretary or Administrator.

To determine compliance with rolling 24-hour total the owner/operator shall calculate average hourly rate and average them over 24-hour period. New 24-hour total shall be calculated by the noon of the next day. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation.

15. Emergency generators shall be used for electricity producing operation only during the periods when electric power from the public utilities is interrupted, or for regular maintenance of the generators. Records documenting generator usage and fire pump usage shall be kept in a log and they shall show the date the generator was used, the duration in hours of the generator usage, and the reason for each generator usage.

Fuels

13. The owner/operator shall use only natural gas, as fuel in the gas turbine and duct burner; fuel oil #2 or better in the emergency generator and the fire pump.
14. The sulfur content of any fuel oil or diesel burned shall not exceed:
 - A. 0.5 percent by weight for diesel fuels

The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of other fuels shall be either by USA Power, LLC=s own testing or test reports from the fuel marketer

Federal Limitations and Requirements

15. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18, Subpart GG, 40 CFR 60.330 to 60.334 (Standards of Performance for Stationary Gas Turbines) and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.
16. In addition to the requirements of this AO, all applicable provisions of 40 CFR Part 72, 73, 75, 76, 77, and 78 Federal regulations for the Acid Rain Program under Clean Air Act Title

IV apply to this installation.

Limitations and Tests Procedures

17. Emissions to the atmosphere from the indicated emission points shall not exceed the following rates and concentrations:

Source: Turbine GE Frame 7-FA (PG7241FA) and Duct Burner Exhaust Stack

<u>Pollutant</u>	<u>ppmvd*</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd**</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd</u> (15% O ₂ dry)
NO _x	2	2	***
CO	4	9	NA

*Emissions concentrations from the gas turbine under steady state operation not including startups and shutdowns

**Combined emissions concentrations from the gas turbine and the duct burner under steady state operation not including startups and shutdowns

***Emissions concentration from the gas turbine (in accordance with 40 CFR 60 Subpart GG requirements)

18. Emissions testing, and compliance monitoring to the atmosphere from the duct burner shall be performed in accordance with all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.

19. Stack testing to show compliance with the emission limitations stated in the above condition shall be performed as specified below

<u>A. Emissions Point</u>	<u>Pollutant</u>	<u>Testing Status</u>	<u>Test Frequency</u>
(Gas turbine only)	NO _x	*, **	CEMs
	CO	*	CEMs
(Gas turbine & duct burner)	NO _x	*	CEMs
	CO	*	CEMs

*Initial compliance testing shall be demonstrated by Relative Accuracy Test Audit.

**Initial compliance testing for NO_x for the gas turbine shall be performed in accordance with the 40 CFR 60 Subpart GG.

Initial compliance testing for the Duct Burner shall be performed in accordance with the 40 CFR 60 Subpart Da. Initial compliance testing shall be performed within 60 days after achieving the maximum production rate at which the affected facility will be operated and in no case later than 180 days after the start up of a

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new emission source.

Monitoring - Continuous Emissions Monitoring

20. The owner/operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides, oxygen and carbon monoxide emissions discharged to the atmosphere from each turbine stack and record the output of the system. The monitoring system shall be used for measuring and determining compliance. The continuous monitoring system shall comply with applicable provisions of UAC, R307-170 and applicable Federal regulations for the Acid Rain Program under Clean Air Act Title IV.
21. Spring Canyon Energy, LLC shall submit for review and Executive Secretary approval CEMs monitoring plan 45 days before the turbine become operational. The plan shall address the number of monitors to be used, the method of measuring the rate in tons per hour, and the method of calculating emissions during the CEMs breakdowns.

Records & Miscellaneous

22. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
23. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
24. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

Under R307-150-1, the Executive Secretary may require a source to submit an emission inventory for any full or partial year on reasonable notice.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

http://www.deq.state.ut.us/eqair/eq_home.htm

The annual emission estimations below include point source and do not include fugitive emissions, fugitive dust, road dust, tail pipe emissions, etc. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, Maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Potential To Emit (PTE) emissions for this source (the entire plant, or specify what portion) are currently calculated at the following values:

<u>Pollutant</u>	<u>Tons/yr</u>
PM ₁₀	70.9
SO ₂	5.3
NO _x	66.4
CO	97.5
VOC	67.12
HAPs	
Acetaldehyde	0.015
Acrolein	0.015
1,3 Butadiene	0.017
Benzene	0.17
Ethylbenzene	1.35
Formaldehyde	1.51
Naphthalene.....	0.01
PAH	0.002
Propylene Oxide	1.20
Toluene	1.12
Xylenes	0.26
Totals	5.7



August 22, 2002

David Graeber
USA Power Partners LLC
10440 N. Central Expressway, #1400
Dallas, Texas 75231

Dear Mr. Graeber:

Pursuant to the May 9, 2002 Interconnection Study, PacifiCorp has identified the facilities required to interconnect USA Power Partners LLC's ("USA Power") proposed 550 MW generation facility with PacifiCorp's 345 kV Mona Substation and the estimated cost for the required Network Upgrades (modifications to PacifiCorp's transmission system) and certain required Interconnection Facilities (Interconnection Facilities are those facilities that will be used only by USA Power Partners). The estimated cost is based on the generating facility's proposed on-line date of June 1, 2004.

PacifiCorp's estimated cost to design, procure and construct these facilities is \$2,678,732. Note, in reference to the attached one-line diagram, the estimate does not include the transmission line from the USA Substation to the Mona Substation and the four 345 kV breakers at the USA Substation.

Mona Substation

Design, furnish and install metering, communications, protection and controls and substation equipment at PacifiCorp's Mona Substation for a line position to interconnect USA Power's 345 kV line from the generation facility with PacifiCorp's transmission system.

Metering

Installation	\$ 6,682
Material	3,721
Design/Project Support	<u>2,500</u>
Total	\$ 12,963

Communications

Installation	\$ 19,064
Material	25,512
Design/Project Support	<u>20,060</u>
Total	\$ 64,636

Protection and Controls

Installation	\$ 43,262
Material	30,935
Design/Project Support	<u>94,800</u>
Total	\$168,997

Substation Equipment

Installation	\$ 193,716
Material	797,722
Design/Project Support	<u>274,900</u>
Total	\$1,266,388

USA Power Substation

Design, furnish and install metering, communications (includes fiber optic cable on USA Power structures, and RTU), protection and control facilities at USA Power's generator substation, for the 345 kV interconnection.

Metering

Installation	\$ 28,630
Material	177,521
Design/Project Support	<u>75,500</u>
Total	\$281,651

Communications

Installation	\$ 85,236
Material	205,533
Design/Project Support	<u>71,660</u>
Total	\$362,429

Protection & Controls

Installation	\$ 57,437
Material	34,636
Design/Project Support	<u>45,320</u>
Total	\$137,393

Project Totals

Installation	\$ 434,027
Material	1,275,630
Design/Project Support	584,800
Overheads	263,863
Escalation	<u>120,412</u>
Total	\$2,678,732

If USA Power desires to continue with the project, please sign in the space provided below and return this Letter of Intent to me. Upon PacifiCorp's receipt of the executed Letter of Intent, the project will be submitted for PacifiCorp management approval. Following management approval, PacifiCorp will coordinate with USA Power to develop a definitive scope of work for both USA Power and PacifiCorp, project schedule and cash flow to be incorporated into a Facilities Construction Agreement for execution by USA Power. PacifiCorp will commence completion of the project upon receipt of the executed Facilities Construction Agreement and required prepayment.

If you have any questions, please call Larry Soderquist at (503) 813-6102 or Dan Johannsen at (503) 813-5735.

Sincerely,



David B. Cory
Director, Transmission Services

Attachment

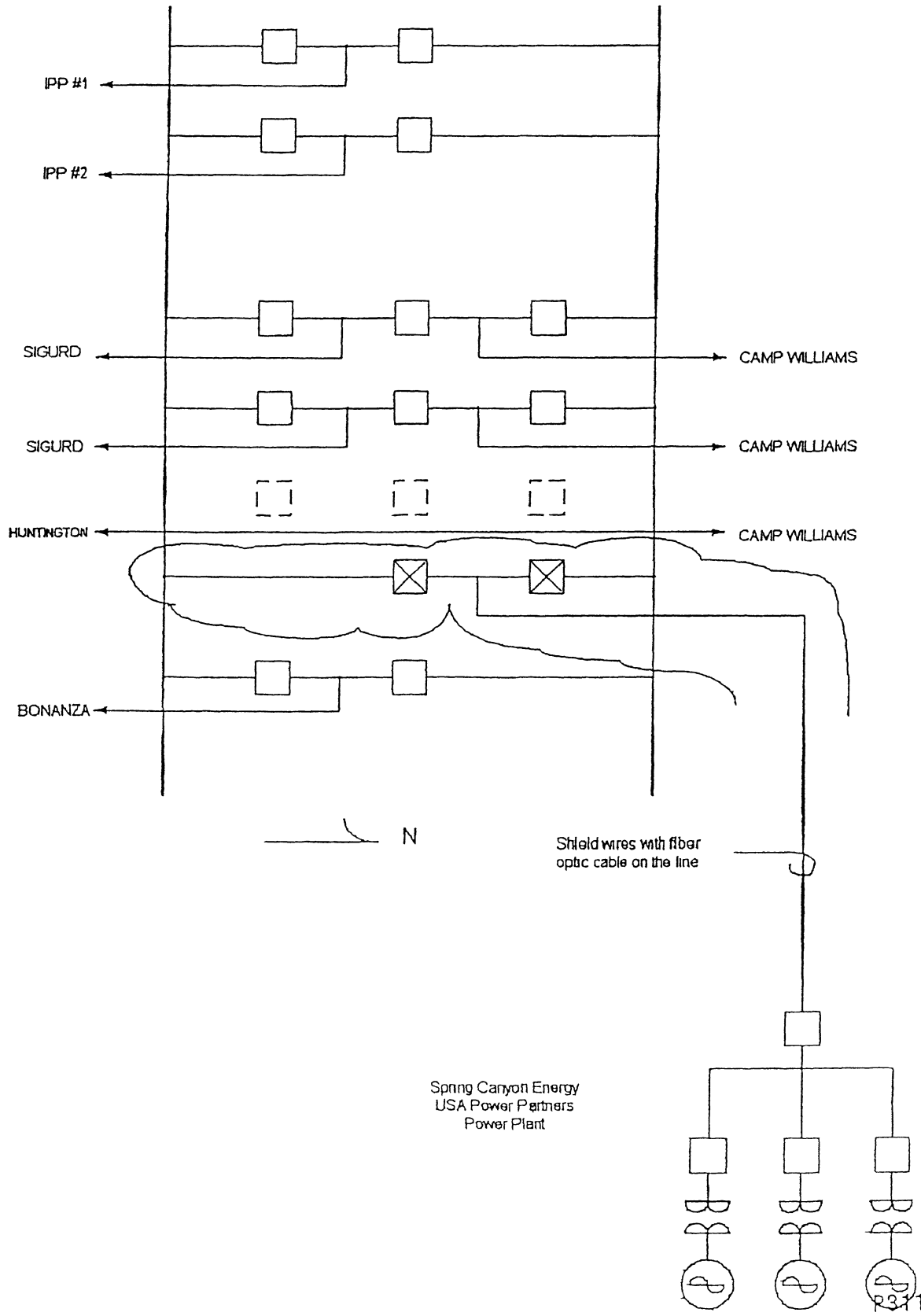
Accepted and Agreed to:

USA Power Partners LLC

By: _____

Date: _____

9/12/02



99866

A. Questar Letter Regarding Natural Gas Service

QUESTAR

Questar Regulated Services Co.

Questar Gas • Questar Pipeline • Questar Energy Services

180 East 100 South

P.O. Box 45360

Salt Lake City, UT 84145-0360

Tel 801 324 2938 • Fax 801 324 2980

September 9, 2002

Gary A. Schmitt, P.E.

Director, Marketing

Mr. F. David Graeber
Principal
USA Power Partners LLC
10440 N. Central Expressway #1400
Dallas, TX 75231

Ref: Natural Gas Service for Spring Canyon Energy LLC

Dear Dave:


Over the last several months Questar Pipeline Company (Questar Pipeline) representatives have had numerous discussions with members of USA Power Partners LLC (USA Power) regarding USA Power's 530 MW natural gas fired power plant to be located in Juab County, Utah, approximately 85 miles south of Salt Lake City. Questar Pipeline has been told by USA Power that the power plant, which is known as Spring Canyon Energy LLC (Spring Canyon), is in the final stages of development and is expected to be operational as early as June 2004. The proposed location of the power plant is approximately 0.75 miles from the Mona Substation and approximately 10 miles to the south of Questar's Mainline 104.

It is our understanding that the power plant, when optimally fired, will require up to approximately 100 million cubic feet (or decatherm equivalent) of gas per day. Questar is very interested in providing natural gas transportation service to the plant, by building, owning and operating a 10-mile lateral off of our Mainline 104. Upon request, Questar Pipeline will prepare a formal proposal to USA Power confirming our ability to provide natural gas transportation service to Spring Canyon and the costs associated with such service.

USA Power has advised us that they have met with our unregulated affiliate, Questar Energy Trading Company (QET) about supplying the natural gas for the facility.

Both Questar Pipeline and the Spring Canyon project are strategically located to take advantage of prolific Rocky Mountain natural gas production and natural gas cost savings over other national supplies. In fact, since 1972, gas production in the Rocky Mountain region has grown by 518%, while gas reserves in other regions of the country have continued to decline. Questar Pipeline believes that access to Rocky Mountain natural gas supplies provides a strategic advantage to electric generation facilities in its service area. We appreciate the opportunity to provide a proposal for natural gas transportation service in the near future, and look forward to continued discussions with USA Power.

Sincerely,



Gary A. Schmitt

Official Natural Gas Supplier to the
2002 Olympic Winter Games



P313

9988

B. Rocky Mountain Natural Gas Pricing
Analysis

Summary of Average Annual Inside FERC Gas Prices						
	QPC Rocky Mtns.	NPC Rocky Mtns.	KRGT Wyoming	CIG Rocky Mtns.	SoCAL	Henry Hub
1997 Average	\$1.98	\$2.00	\$1.99	\$1.99	Prices not recorded	
1998 Average	\$1.79	\$1.81	\$1.81	\$1.80	Prices not recorded	
1999 Average	\$1.97	\$2.04	\$2.04	\$2.01	\$2.32	\$2.28
2000 Average	\$3.32	\$3.40	\$3.44	\$3.35	\$4.94	\$3.89
2001 Average	\$3.46	\$3.66	\$3.64	\$3.50	\$8.09	\$4.27
2002 MTD Average	\$1.83	\$1.95	\$1.95	\$1.88	\$2.81	\$2.89

Inside FERC Monthly Gas Prices						
Month	QPC Rocky Mtns.	NPC Rocky Mtns.	KRGT Wyoming	CIG Rocky Mtns.	SoCAL	Henry Hub
Jan-02	\$2.19	\$2.35	\$2.36	\$2.26	\$2.62	\$2.61
Feb-02	\$1.60	\$1.73	\$1.72	\$1.70	\$2.02	\$2.03
Mar-02	\$1.85	\$1.97	\$1.97	\$1.85	\$2.13	\$2.12
Apr-02	\$2.67	\$2.85	\$2.86	\$2.71	\$3.42	\$3.40
May-02	\$2.09	\$2.26	\$2.27	\$2.18	\$3.22	\$3.36
Jun-02	\$1.53	\$1.60	\$1.60	\$1.56	\$2.88	\$3.37
Jul-02	\$1.23	\$1.26	\$1.26	\$1.20	\$3.30	\$3.26
Aug-02	\$1.47	\$1.59	\$1.59	\$1.59	\$2.92	\$2.95
Sep-02						
Oct-02						
Nov-02						
Dec-02						
2002 MTD Average	\$1.83	\$1.95	\$1.95	\$1.88	\$2.81	\$2.89

Inside FERC Monthly Gas Prices						
Month	QPC Rocky Mtns.	NPC Rocky Mtns.	KRGT Wyoming	CIG Rocky Mtns.	SoCAL	Henry Hub
Jan-99	\$1.73	\$1.82	\$1.80	\$1.75	\$2.04	\$1.80
Feb-99	\$1.58	\$1.63	\$1.64	\$1.61	\$1.83	\$1.81
Mar-99	\$1.45	\$1.51	\$1.51	\$1.49	\$1.71	\$1.64
Apr-99	\$1.43	\$1.54	\$1.54	\$1.53	\$1.78	\$1.88
May-99	\$1.90	\$2.00	\$1.99	\$1.98	\$2.22	\$2.35
Jun-99	\$1.85	\$1.94	\$1.94	\$1.93	\$2.22	\$2.23
Jul-99	\$1.92	\$1.99	\$2.00	\$1.97	\$2.38	\$2.38
Aug-99	\$2.12	\$2.18	\$2.18	\$2.16	\$2.58	\$2.62
Sep-99	\$2.48	\$2.56	\$2.56	\$2.52	\$2.93	\$2.90
Oct-99	\$2.34	\$2.39	\$2.39	\$2.35	\$2.71	\$2.55
Nov-99	\$2.82	\$2.86	\$2.86	\$2.83	\$3.07	\$3.06
Dec-99	\$1.99	\$2.10	\$2.10	\$2.04	\$2.37	\$2.14
1999 Average	\$1.97	\$2.04	\$2.04	\$2.01	\$2.32	\$2.28
Jan-00	\$2.15	\$2.19	\$2.19	\$2.15	\$2.38	\$2.36
Feb-00	\$2.33	\$2.37	\$2.38	\$2.34	\$2.55	\$2.61
Mar-00	\$2.30	\$2.36	\$2.35	\$2.31	\$2.59	\$2.61
Apr-00	\$2.62	\$2.69	\$2.70	\$2.65	\$3.02	\$2.88
May-00	\$2.62	\$2.72	\$2.74	\$2.61	\$3.03	\$3.08
Jun-00	\$3.41	\$3.65	\$3.61	\$3.62	\$4.30	\$4.37
Jul-00	\$3.66	\$3.70	\$3.95	\$3.70	\$4.95	\$4.03
Aug-00	\$2.92	\$3.09	\$3.12	\$3.04	\$4.49	\$3.83
Sep-00	\$3.25	\$3.41	\$3.47	\$3.36	\$6.49	\$4.62
Oct-00	\$4.17	\$4.29	\$4.31	\$4.19	\$5.98	\$5.22
Nov-00	\$4.28	\$4.35	\$4.37	\$4.31	\$5.20	\$4.50
Dec-00	\$6.14	\$6.01	\$6.07	\$5.95	\$14.26	\$6.58
2000 Average	\$3.32	\$3.40	\$3.44	\$3.35	\$4.94	\$3.89
Jan-01	\$8.58	\$8.76	\$8.77	\$8.63	\$16.39	\$9.98
Feb-01	\$6.42	\$6.59	\$6.41	\$6.31	\$12.51	\$6.22
Mar-01	\$4.79	\$4.88	\$4.86	\$4.72	\$12.53	\$5.03
Apr-01	\$4.50	\$4.57	\$4.57	\$4.49	\$12.51	\$5.35
May-01	\$3.87	\$4.10	\$4.11	\$3.91	\$14.97	\$4.87
Jun-01	\$2.42	\$2.61	\$2.61	\$2.43	\$10.00	\$3.74
Jul-01	\$1.74	\$2.03	\$2.03	\$1.75	\$4.76	\$3.16
Aug-01	\$1.99	\$2.27	\$2.27	\$2.03	\$3.75	\$3.19
Sep-01	\$1.90	\$2.10	\$2.08	\$1.99	\$2.65	\$2.34
Oct-01	\$0.95	\$1.24	\$1.23	\$1.05	\$1.75	\$1.86
Nov-01	\$2.38	\$2.59	\$2.84	\$2.54	\$2.95	\$3.16
Dec-01	\$2.02	\$2.16	\$2.13	\$2.13	\$2.27	\$2.28
2001 Average	\$3.46	\$3.66	\$3.64	\$3.50	\$8.09	\$4.27

Inside FERC Monthly Gas Prices

Month	QPC	NPC	KRGT	CIG	SoCAL	Henry Hub
Jan-97	\$4.20	\$4.20	\$4.25	\$4.18		
Feb-97	\$2.45	\$2.48	\$2.53	\$2.48		
Mar-97	\$1.38	\$1.39	\$1.39	\$1.40		
Apr-97	\$1.42	\$1.44	\$1.44	\$1.43		
May-97	\$1.61	\$1.64	\$1.64	\$1.63		
Jun-97	\$1.45	\$1.48	\$1.47	\$1.46		
Jul-97	\$1.42	\$1.44	\$1.43	\$1.44		
Aug-97	\$1.38	\$1.38	\$1.37	\$1.38		
Sep-97	\$1.47	\$1.48	\$1.48	\$1.47		
Oct-97	\$2.10	\$2.12	\$2.09	\$2.10		
Nov-97	\$2.99	\$3.00	\$3.00	\$2.99		
Dec-97	\$1.93	\$1.94	\$1.93	\$1.94		
1997 Average	\$1.98	\$2.00	\$1.99	\$1.99	Prices not recorded	
Jan-98	\$2.04	\$2.05	\$2.04	\$2.04		
Feb-98	\$1.68	\$1.69	\$1.69	\$1.70		
Mar-98	\$1.86	\$1.87	\$1.88	\$1.88		
Apr-98	\$1.89	\$1.90	\$1.90	\$1.90		
May-98	\$1.97	\$1.98	\$1.97	\$1.96		
Jun-98	\$1.62	\$1.64	\$1.65	\$1.64		
Jul-98	\$1.61	\$1.62	\$1.62	\$1.61		
Aug-98	\$1.73	\$1.73	\$1.73	\$1.73		
Sep-98	\$1.53	\$1.57	\$1.59	\$1.55		
Oct-98	\$1.64	\$1.65	\$1.64	\$1.65		
Nov-98	\$1.91	\$2.02	\$2.01	\$1.97		
Dec-98	\$2.00	\$2.00	\$2.00	\$1.96		
1998 Average	\$1.79	\$1.81	\$1.81	\$1.80	Prices not recorded	

BAKER & MCKENZIE

ATTORNEYS AT LAW

815 CONNECTICUT AVENUE, N.W.
WASHINGTON, D.C. 20006-4078
TELEPHONE (202) 452-7000
FACSIMILE (202) 452-7074

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SANTIAGO
SAO PAULO
TIJUANA
TORONTO
VALENCIA
WASHINGTON, D.C.

Direct dial: (202) 452-7064
e-mail: john.a.cohen@bakernet.com

September 11, 2002

David Graeber
USA Power Partners, LLC
for Spring Canyon Energy, L.L.C.
10440 No. Central Expressway
No. 1400
Dallas, TX 75231

Re: Spring Canyon Energy, L.L.C., Docket No. EG02- -000

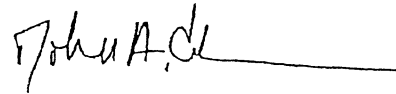
Dear Mr. Graeber:

Enclosed please find a stamped copy of the filing made in the above-referenced docket on Tuesday, September 10, 2002.

Please call either Mike Zimmer at (202) 452-7055 or me at the number above if there are any questions.

Thank you,

Sincerely,



John A. Cohen

JAC:jhm
Enclosures

cc: Michael J. Zimmer, Esq.

FILED
OFFICE OF THE SECRETARY

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FEDERAL ENERGY
REGULATORY COMMISSION
Spring Canyon Energy, L.L.C.

UNITED STATES OF AMERICA
BEFORE THE

FEDERAL ENERGY REGULATORY COMMISSION

Docket No. EG02- - 000

**Application of Spring Canyon Energy, L.L.C.
For Determination of Exempt Wholesale Generator Status**

Pursuant to Subchapter T, Part 365 of the Regulations of the Federal Energy Regulatory Commission (the "Commission"), 18 C.F.R. Part 365 (2002) implementing Section 32 of the Public Utility Holding Company Act of 1935, as amended (the "1935 Act"), 15 U.S.C. § 79 *et seq.*, Spring Canyon Energy, L.L.C. (the "Applicant") hereby submits this Application requesting that the Commission determine that the Applicant is an exempt wholesale generator ("EWG"), as defined in the 1935 Act.

I. Principal Office of the Applicant

The principal office of the Applicant is set forth below:

Spring Canyon Energy, L.L.C.
10440 N. Central Expressway
No. 1400
Dallas, Texas 75231
Tel: (214) 520-8177
Fax: (214) 696-2422

II. Communications

All communications regarding this Application should be provided to:

Michael J. Zimmer, Esq.
Baker & McKenzie
815 Connecticut Avenue, N.W.
Washington, D.C. 20006-4078
Tel: (202) 452-7055
Fax: (202) 452-7074

- and -

David Graeber
USA Power Partners, LLC
- For -
Spring Canyon Energy, L.L.C.
10440 N. Central Expressway
No. 1400
Dallas, Texas 75231
Tel: (214) 520-8177
Fax: (214) 696-2422

III. Description of the Applicant and Eligible Facility

The Applicant is a limited liability company formed under the laws of the State of Utah that will own and/or operate an approximately 430 MW natural gas-fired electric generating base load facility located near Mona, Utah that can produce up to 540 MW utilizing duct burners when necessary (the "Facility"). The output of the Facility will be sold on the wholesale power market to various wholesale customers under long-term contract and/or a spot market basis. The Facility will include step-up transformers, switchgear, and related transmission interconnection components necessary to connect the Facility to the grid so as to make sales of electric energy at wholesale.

IV. Basis of Eligibility for EWG Status

Pursuant to Section 365.3 of the Commission's Regulations, 18 C.F.R. § 365.3 (2002), the Applicant, by and through its legally authorized representative, states as follows:

1. The Applicant will be engaged directly, or indirectly through one or more affiliates as defined in Section 2(a)(11)(B) of the 1935 Act, and exclusively in the business of owning and/or operating all or part of one or more eligible facilities and selling electric energy at wholesale. Applicant may also engage in activities incidental to the sale of electric energy consistent with Commission precedent.

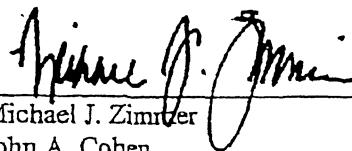
8. A notice of this Application, suitable for publication in the Federal Register, is attached as Appendix A to this request and is also contained on the enclosed 3.5 inch diskette.

9. The Applicant has caused copies of this Application to be served upon the Securities and Exchange Commission and upon the state commission of Utah, this agency being the only affected state commission as defined in Section 365.2(b)(3) of the Commission's Regulations.

V. Summary of Request

Based on the foregoing facts and representations, the Applicant satisfies the requirements for exempt wholesale generator status, and respectfully requests a determination by the Commission that it is an exempt wholesale generator.

Respectfully submitted,



Michael J. Zimmer
John A. Cohen
Baker & McKenzie
815 Connecticut Avenue, N.W.
Washington, D.C. 20006-4078
(202) 452-7000

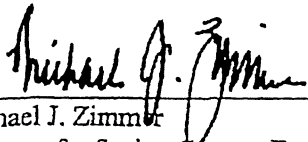
Attorneys for
Spring Canyon Energy, L.L.C.

Dated: September 10, 2002

VERIFICATION OF APPLICATION

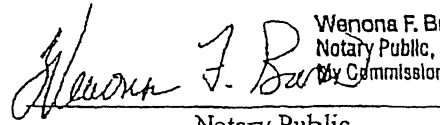
District of Columbia) ss:

The undersigned, being duly sworn, states that he is the Attorney for Spring Canyon Energy, L.L.C., the Applicant in the foregoing Application; that he is legally authorized to bind the Applicant; that he has read said Application and knows the contents thereof; and that all of the statements contained therein are true and correct to the best of his knowledge and belief.



Michael J. Zimmer
Attorney for Spring Canyon Energy, L.L.C.

Sworn and subscribed before me, a notary public, this 10th day of September 2002.



Wenona F. Brown
Notary Public, District of Columbia
My Commission Expires 10-14-2008
Notary Public

My commission expires 10-14-2006

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Spring Canyon Energy, L.L.C.

)

Docket No. EG02- -000

NOTICE OF APPLICATION FOR COMMISSION DETERMINATION OF
EXEMPT WHOLESALE GENERATOR STATUS

On September 10, 2002, Spring Canyon Energy, L.L.C. (the "Applicant") whose address is 10440 N. Central Expressway, No. 1400, Dallas, Texas 75231, filed with the Federal Energy Regulatory Commission an application for determination of exempt wholesale generator status pursuant to Part 365 of the Commission's regulations.

The Applicant states that it will be engaged directly or indirectly and exclusively in the business of owning and/or operating a 430 MW (up to 540 MW with duct burners) electric generating facility located near Mona, Utah and selling electric energy at wholesale. The Applicant requests a determination that the Applicant is an exempt wholesale generator under Section 32(a)(1) of the Public Utility Holding Company Act of 1935.

Any person desiring to be heard concerning the application for exempt wholesale generator status should file a motion to intervene or comments with the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure. The Commission will limit its consideration of comments to those that concern the adequacy or accuracy of the application. All such motions and comments should be filed on or before _____ and must be served on the Applicant. Any person wishing to become a party must file a motion to intervene. Copies of this filing are on file with the Commission and are available for public inspection.

Magalie R. Salas
Secretary

Tab 5

RECEIVED
 FEB 11 2002
 Utah Div. Of Corp. & Comm. Code

ARTICLES OF ORGANIZATION
 OF
 SPRING CANYON ENERGY, LLC

The undersigned, being natural persons eighteen (18) years of age or more and desiring to form a limited liability company under the laws of the state of Utah, do hereby sign, verify, and deliver to the Division of Corporations and Commercial Code of the state of Utah these Articles of Organization for the above-named company (hereinafter referred to as the "Company");

ARTICLE I
 NAME

The name of the Company shall be: Spring Canyon Energy, LLC

ARTICLE II
 PERIOD OF DURATION

The Company shall continue in existence until December 31, 2090, unless sooner dissolved according to law or the operating agreement.

ARTICLE III
 PURPOSES AND POWERS

The Company is organized for the following purpose or purposes:

To engage in the acquisition and ownership of interests in real and personal property; and to engage in any lawful act or activity for which a limited liability company may be organized under the laws of the state of Utah and to exercise all powers permitted thereby.

ARTICLE IV
 LIMITATION ON POWERS AND AUTHORITY OF MANAGER

The manager(s) of the Company shall not have the right or power to do any of the following without the consent of members of the Company holding in the aggregate 67% or more of all of the outstanding membership units entitled to vote:

- (a) Do any act which would make it impossible to carry on the ordinary business of the Company;
- (b) Make a substantial change in the authorized business of the Company;
- (c) Confess a judgment against the Company;
- (d) Use the Company name, credit or assets for other than Company purposes;
- (e) Do any act in contravention of the operating agreement of the Company;

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10,000

- (f) Amend the operating agreement;
- (g) Commingle the funds of the Company with the funds of any other person or entity;
- (h) Submit any dispute involving the Company to binding arbitration;
- (i) Execute or deliver any assignment for the benefit of the creditors of the Company;
- (j) Cause the Company to borrow any sums for which the Members have recourse liability;
- (k) Transact any business on behalf of the Company in any jurisdiction, unless the Members would not, as a result thereof, become managers and have any liability greater than that provided in the operating agreement;
- (l) Cause the Company to borrow or incur any indebtedness, in the aggregate, in excess of \$10,000;
- (m) Obligate the Company to make a capital expenditure in excess of \$50,000;
- (n) Cause the Company to merge with or into another entity or to convert into another type of entity;
- (o) Dispose of substantially all of the assets or the goodwill of any business of the Company; and
- (p) Admit a person or entity as a member of the company, except as provided in the operating agreement.

ARTICLE V
TRANSACTIONS WITH MEMBERS AND MANAGERS

No contract or other transaction between the Company and any firm or corporation shall be affected by the fact that a member or manager of the Company has an interest in, or is a director or officer of, such other firm or corporation. Any member or manager, individually or with others, may be a party to, or may have an interest in, any transaction of the Company or any transaction in which the Company is a party or has an interest. Each person who is now or may become a member or manager of the Company is hereby relieved from liability that he might otherwise incur in the event such officer or director contracts with the Company, individually or in behalf of another corporation or entity, in which he may have an interest; provided, that such member or manager acts in good faith.

ARTICLE VI
LIMITATION ON LIABILITY

A manager of the Company shall have no personal liability to the Company or its members for monetary damages for breach of fiduciary duty, except (i) for any breach of a manager's duty of loyalty to the Company or its members, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, or (iii) for any transaction from which a manager derived an improper personal benefit.

ARTICLE VII
INDEMNIFICATION OF MANAGERS, MEMBERS, AND OTHERS

The Company shall indemnify each manager, employee, or agent of the Company and their respective heirs, administrators, and executors against all liabilities and expenses reasonably incurred in connection with any action, suit, or proceeding to which he may be made a party by reason of his being or having been a manager, employee, or agent of the Company, to the full extent permitted by the laws of the state of Utah now existing or as such laws may hereafter be amended.

The Company shall indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending, or completed action or suit by or in the right of the Company to procure a judgment in its favor by reason of the fact that he is or was a manager, employee, or agent of the Company, or is or was serving at the request of the Company as a manager, director, employee, or agent of another company, corporation, partnership, joint venture, trust, or other enterprise, against expenses, including attorneys' fees, judgments, fines, and amounts paid in settlement, actually and reasonably incurred by him in connection with the defense or settlement of the action, suit, or proceeding, if he acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the Company, except that no indemnification shall be made in respect of any claim, issue, or matter as to which such a person shall have been adjudged to be liable to the Company, unless and only to the extent that the court in which the action or suit was brought shall determine on application that, despite the adjudication of liability but in view of all circumstances of the case, the person is fairly and reasonably entitled to indemnity for such expenses as the court deems proper.

ARTICLE VIII
AMENDMENTS

The Company reserves the right to amend, alter, change, or repeal all or any portion of the provisions contained in its Articles of Organization from time to time in accordance with the laws of the state of Utah, and all rights conferred on members herein are granted subject to this reservation.

ARTICLE IX
ADOPTION OR AMENDMENT OF OPERATING AGREEMENT

The initial operating agreement of the Company shall be adopted by its members. The power to alter, amend, or repeal the operating agreement or adopt a new operating agreement shall be vested in the members. The operating agreement may contain any provisions for the regulation and management of the affairs of the Company not inconsistent with the Utah Revised Limited Liability Company Act, as now existing or as hereafter amended, or these Articles of Organization.

ARTICLE X
RESTRICTION ON TRANSFER OF OWNERSHIP

No member shall sell, assign, hypothecate, or dispose of his interest or any part thereof in the Company without the written consent of the others except as may be set forth in the operating agreement.

ARTICLE XI
REGISTERED OFFICE AND REGISTERED AGENT

The address of the Company's registered office in the state of Utah is 50 West Broadway, Suite 800, Salt Lake City, Utah 84101. The name of its initial registered agent at such registered office is CT Corporation. Either the registered office or the registered agent may be changed in the manner provided for by law. In the event that the registered agent of the Company resigns, the agent's authority has been revoked, or the registered agent cannot be found or served with the exercise of reasonable diligence and a new registered agent has not been appointed by the Company, the director of the Division of Corporations and Commercial Code of the state of Utah shall be deemed appointed the agent of the Company for the purpose of service of process.

ARTICLE XII
DESIGNATED OFFICE

The address of the Company's designated office in the state of Utah is CT Corporation, 50 West Broadway, Suite 800, Salt Lake City, Utah 84101.

ARTICLE XIII
INITIAL MANAGERS

The Company shall be managed by a manager or managers. The governing body of the Company shall be known as the manager, and the number of managers of the Company shall be fixed by the operating agreement of the Company. The name and street address of the initial managers to serve as provided in the operating agreement and until his or her successors are elected and shall qualify are as follows:

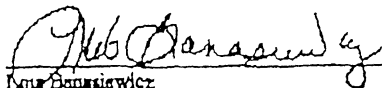
<u>Name</u>	<u>Address</u>
F. David Graeber	10440 North Central Expressway Suite 1400 Dallas, TX 75231
Lois Banasiewicz	P. O. Box 774000-359 31 585 Runaway Place Steamboat Springs, CO 80477

The undersigned, being the managers of the Company hereinbefore named, makes and files these Articles of Organization, hereby declaring that the facts herein are true.

DATED this 11 day of February, 2002.



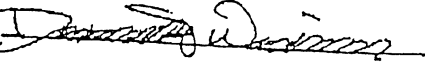
F. David Graeber



Lois Banasiewicz

CT Corporation hereby accepts appointment as registered agent for Spring Canyon Energy, LLC,
as named in the forgoing Articles of Organization.

CT CORPORATION

By: 

Title: Ms. Deanne Widmer
Special Assistant
Secretary

DEPARTMENT OF THE TREASURY
INTERNAL REVENUE SERVICE
OGDEN UT 84201

DATE OF THIS NOTICE: 02-21-2002
NUMBER OF THIS NOTICE: CP 575 B
EMPLOYER IDENTIFICATION NUMBER: 68-0489498
FORM: SS-4
0533626984 B

SPRING CANYON ENERGY LLC
% LOIS BANASIEWICZ
PO BOX 774000 359
STEAMBOAT SPRINGS CO 80477

FOR ASSISTANCE CALL US AT:
1-800-829-1040

OR WRITE TO THE ADDRESS
SHOWN AT THE TOP LEFT.

IF YOU WRITE, ATTACH THE
STUB OF THIS NOTICE.

WE ASSIGNED YOU AN EMPLOYER IDENTIFICATION NUMBER (EIN)

Thank you for your Form SS-4, Application for Employer Identification Number (EIN). We assigned you EIN 68-0489498. This EIN will identify your business account, tax returns, and documents, even if you have no employees. Please keep this notice in your permanent records.

Use your complete name and EIN shown above on all federal tax forms, payments and related correspondence. If you use any variation in your name or EIN, it may cause a delay in processing and incorrect information in your account. It also could cause you to be assigned more than one EIN.

Based on the information shown on your Form SS-4, you must file the following forms(s) by the date we show.

Form 1065

04/15/2003


Your assigned tax classification is based on information obtained from your Form SS-4. It is not a legal determination of your tax classification and is not binding on the IRS. If you want a determination on your tax classification, you may seek a private letter ruling from the IRS under the procedures set forth in Rev. Proc. 98-01, 1998-1 I.R.B. 7 (or the superceding revenue procedure for the year at issue).

If you need help in determining what your tax year is, you can get Publication 538, Accounting Periods and Methods, at your local IRS office.

If you have questions about the forms shown or the date they are due, you may call us at 1-800-829-1040 or write to us at the address shown above.

STATE OF UTAH DEPARTMENT OF COMMERCE REGISTRATION SPRING CANYON ENERGY, LLC EFFECTIVE 02/11/2002	EXPIRATION *RENEWAL	REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S) LLC - Domestic 5069048-0160
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C T CORPORATION SYSTEM
 SPRING CANYON ENERGY, LLC
 50 W BROADWAY 8TH FLOOR
 SALT LAKE CITY UT 84101

STATE OF UTAH DEPARTMENT OF COMMERCE DIVISION OF CORPORATIONS & COMMERCIAL CODE REGISTRATION		
EFFECTIVE DATE:	02/11/2002	
EXPIRATION DATE:	*RENEWAL	
ISSUED TO:	SPRING CANYON ENERGY, LLC	
REFERENCE NUMBER(S), CLASSIFICATION(S) & DETAIL(S)		
5069048-0160	LLC - Domestic	
*RENEWAL You will need to renew your registration each anniversary date of the effective date. Exceptions: DBAs and Business Trusts renew every three (3) years from the effective date.		

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10.006

CONFIDENTIAL



USA Power Partners LLC

**Supplemental Due Diligence Information
To
Preliminary Offering Memorandum**

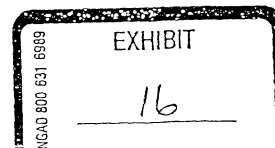
Volume 3

Spring Canyon Energy LLC

450 Mw Natural Gas Fired,
Combined-Cycle Power Facility,
With Duct-Firing Capability for an
Additional 80 MW

Located in Juab County, Utah
With interconnection to the Western US RTO
Via the Mona (PacifiCorp) Substation

January 2003



P1092

10:011

**Supplemental Due Diligence Information
To
Preliminary Offering Memorandum
Volume 3**

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2. Air Permit Final/Approved - Utah DAQ
3. Water Permit Final/Approved – Utah DNR
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6. Economic Proforma Projections
 - Base Case Proforma
 - Expected Case Proforma

Spring Canyon Energy Strategic Power Market Assessment

In June 2002, Spring Canyon Energy, LLC contracted with Navigant Consulting to conduct a power market assessment for possible delivery of power from its Mona substation site in central Utah to areas in the western United States. The following summarizes the Navigant Study, which is included in the Spring Canyon Energy Preliminary Offering Memorandum, dated August 2002.

Navigant concluded that the Spring Canyon Energy project will be able to access power markets in a minimum of seven western states. Despite the potential and real transmission issues that exist in the Western Electricity Coordinating Council (WECC), there are multiple opportunities for the Spring Canyon Energy project to deliver competitively priced power to specific market areas with a need for new resources. There are two primary target markets, Utah and Southern California, and a secondary market, Northern Nevada. A third opportunity would involve a displacement arrangement with PacifiCorp and one or more of its trading partners. The Navigant work did not include an analysis of the Colorado or Idaho markets since pricing in these markets has been lower than others in the region; however, these markets should be considered to be a viable potential backup to the primary targets.

Utah Market Area

The Utah market area is the prime target for the output of the Spring Canyon Energy project. Whether the output is ultimately used for sale to the Utah market area electric utilities or as displacement for transactions with entities located outside of the Utah market area, the Spring Canyon Energy project's prime market focus is Utah.

Within the Utah market area there are four entities that provide viable opportunities PacifiCorp, UAMPS, UMPA and Deseret G&T. Obviously, due to its size and the ownership of transmission facilities, the largest opportunity is with PacifiCorp

Based upon existing resources in the Utah market area and the expected load growth for the region, PacifiCorp is seeking additional capacity in the Utah market area and the Spring Canyon Energy project will provide fuel diversity and operational flexibility. Opportunities with PacifiCorp include diversity programs, base load resource, displacement opportunities, operational flexibility, and access to newer technology with a superior heat rate, lower operation and maintenance costs, and significantly reduced emissions.

Southern California Market Area

The Southern California market area provides the other prime market for the Spring Canyon Energy project. Via the Intermountain DC transmission line (which begins at the Mona Switching Station and ends near Los Angeles) the Spring Canyon Energy project can serve the deep Southern California market area. The Southern California Public Power Agency (SCPPA) owns the Intermountain DC transmission line and the uncommitted capacity on this system could be utilized to move the entire output from Spring Canyon to the Southern California market area. The members of SCPPA include Los Angeles, Anaheim, Riverside, Pasadena, Burbank and Glendale, which together represent over 7,500 Mw of Load. The members of SCPPA do not have the same credit issues plaguing many of California's investor and utilities.

Northern Nevada Market Area

The Northern Nevada market area is a very viable market due to its deficiency of in-area generation and forecasted load growth. However, due to the current poor financial condition of Nevada's investor owned utility, Sierra Pacific, a long-term commitment from these entities will not be creditworthy until the Nevada Utility Commission resolves the rate and recovery issues in a definitive way

PacifiCorp Integrated Resource Plan - 2003

In October 2002, PacifiCorp issued its draft Integrated Resource Plan. The final plan will be submitted for commission approval on January 24, 2003. The final version of the plan, which will include an additional focus on renewables, will not alter its conclusion regarding a new generation facility located at the Mona Switching Station. The following summarizes the PacifiCorp Integrated Resource Plan:

“The purpose of the IRP is to provide the framework for the prudent future actions required to ensure that PacifiCorp continues to provide reliable and least-cost electric service to its customers. The IRP reveals that PacifiCorp expects its obligation to provide electricity to its customers will continue to grow while at the same time its existing resources will diminish significantly. Load growth, load shape growth, asset retirement and contract expirations cause the gap between demand and supply to grow over time. Measures must be taken to close the gap, and the IRP proposes several specific actions. Not taking these actions will expose PacifiCorp to unacceptable levels of cost, reliability and market risk.”

The IRP proposes a significant procurement of new resources. The strategy outlined in the IRP includes the addition of 4,000 Mw of new capacity in the next ten years. The least cost, risk-adjusted approach proposed includes.

- 450 Mw of demand side management,
- 1,146 Mw of renewables,
- 2,200 Mw of base-load capacity,
- 1,000 Mw of peaking capacity, and
- 300-700 Mw of shaped resource contracts

PacifiCorp currently serves 1.5 million retail customers in six western states: Utah, Oregon, Wyoming, Washington, Idaho and California. PacifiCorp forecasts load on its system to grow by 2.2% on the average. At the same time, the resources available to PacifiCorp to serve this demand will diminish over time as contracts expire, hydro facilities are subjected to relicensing conditions and thermal plants comply with more

stringent emission requirements. This creates an imbalance, which is referred to as the "gap." In 2004, the gap is estimated to be 1,275 Mw, which grows to over 4,000 Mw by 2014.

IRP Recommended Actions

Like most integrated resource plans, the IRP analyzes many different resource scenarios and draws a conclusion that there are three scenarios that will best meet the goals associated with the IRP. Appendix D, which begins on page 189 of the IRP, describes each of the scenarios. For each scenario, the specific resources and their timing are described. The three selected scenarios are 1) Gas/Coal I, page 189, 2) Renewables, page 190, and 3) Coal/Gas III, page 197. Each Scenario includes a gas-fired facility at the Mona Switching Station ranging from 480 Mw to 680 Mw scheduled to come on line as early as 2007. Also each scenario includes short-term purchases of 500 Mw terminating when the Mona facility comes on line. Each scenario also includes a 500 Mw gas-fired facility at Gatsby located in downtown Salt Lake City. Both of the Gas/Coal I and Coal/Gas III scenarios includes a new 575 Mw unit at the Hunter Station. The renewable scenario replaces the coal resource at Hunter with additional wind resource purchases. The IRP states that for each resource, PacifiCorp will compare the economic benefit of issuing a long-term contract or building the generating asset themselves.

Strategy with PacifiCorp

The IRP concludes that there will be a gas-fired facility at Mona in 2007. The timing (i.e. 2007) of the Mona facility is based on the assumption that PacifiCorp will develop and build the facility, which will require 48 months. In the meantime, PacifiCorp will make short-term purchases. Since the Spring Canyon Energy project has received all of its permits and approvals required to commence construction, it is possible for the Spring Canyon Energy project to begin operation two years sooner (i.e. 2005 versus 2007). The value that Spring Canyon Energy provides to PacifiCorp is that the price of energy from Spring Canyon Energy, utilizing competitively priced Rocky Mountain natural gas, is significantly lower than that which would be paid from short-term contracts

Conservative estimates of this saving are between \$20-\$40 million per year. This provides a huge incentive for PacifiCorp to either purchase the Spring Canyon Energy project or to issue a long-term power contract to Spring Canyon Energy. Spring Canyon Energy, LLC is currently discussing both possibilities with high-level representatives from PacifiCorp. It is the preference of Spring Canyon Energy to secure a long-term power contract and, with an involvement from Energy Investors Fund Group ("EIF"); Spring Canyon Energy will be in a position to terminate its discussions regarding the sale of the facility to PacifiCorp.

In order for PacifiCorp to move forward with the PPA discussions, PacifiCorp must receive an "acknowledgment of approval" from the public service commissions in the various states, which they serve. PacifiCorp representatives estimate that this acknowledgement could be obtained before the end of March 2003, but could take longer. Discussions and perhaps document drafting may occur prior to the acknowledgement, however, PacifiCorp will not finalize or submit the PPA for commission approval without commission acknowledgement of its IRP.

The timing of the PacifiCorp commission's acknowledgement provides an opportunity for Spring Canyon Energy to secure addition parties interested in purchasing the output of Spring Canyon Energy. In order to receive the best pricing from PacifiCorp, it is important that they are convinced that they are not the only viable purchaser.

Recent studies conducted by Henwood Consulting conclude that several of the California purchasers will again be short on energy supplies. This includes Sempra and SCPPA, which are the two most creditworthy purchasers in California. While a contract with PacifiCorp is the highest priority, selling and transporting power to either SCPPA or Sempra remains extremely viable. The Spring Canyon Energy interconnect is with the PacifiCorp system, however, the Mona Switching Station is owned jointly by SCPPA, Deseret G&T, and PacifiCorp. The owners have declared Mona to be a "zero cost bus," therefore; Spring Canyon Energy can interconnect with PacifiCorp and sell power to SCPPA without an additional wheeling charge. The agreements between Sempra and

Spring Canyon Energy, LLC

Confidential
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SCPPA would allow Sempra to purchase power from Spring Canyon Energy and move the power on SCPPA's transmission system.

CONCLUSION

In conclusion, Spring Canyon Energy LLC will likely secure a long-term power contract from PacifiCorp, however, other creditworthy entities also have resource needs and these entities may ultimately be willing to pay prices higher than PacifiCorp.



Utah!

Where ideas connect

Department of Environmental Quality
Division of Air Quality

Michael O. Leavitt Governor	150 North 1950 West P O Box 144820 Salt Lake City, Utah 84114-4820
Dianne R. Nielson, Ph D Executive Director	(801) 536-4099 Fax
Richard W. Sprott Director	(801) 536-4414 T D D www.deq.utah.gov

DAQE-AN2627001-02

November 27, 2002

Ms. Lois Banasiewicz
Principal
Spring Canyon Energy, LLC.
P. O. Box 774000-359
Steamboat Springs, Colorado 80477

Dear Ms. Banasiewicz:

Re: Approval Order: Power Generating Facility With One Natural Gas Fired Combined Cycle
Turbine Generator Set With Duct Burner, Juab County – CDS SM; ATT; NSPS, HAPs
Project Code: N2627001-02

The attached document is the Approval Order for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Ms. Milka M. Radulovic. She may be reached at (801) 536-4232.

Sincerely,

Richard W. Sprott, Executive Secretary
Utah Air Quality Board

RWS RR MR re

cc: Central Utah Public Health Department
Mike Owens, EPA Region VIII

P1100

10/0/02

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

APPROVAL ORDER: POWER GENERATING FACILITY
WITH ONE NATURAL GAS FIRED COMBINED CYCLE
TURBINE GENERATOR SET WITH DUCT BURNER

Prepared By: Milka M. Radulovic, Engineer
(801) 536-4232
Email: milkar@utah.gov

APPROVAL ORDER NUMBER

DAQE-AN2627001-02

Date: November 27, 2002

Spring Canyon Energy, LLC.

Source Contact
Lois Banasiewicz
(970) 871-6223

Richard W. Sprott
Executive Secretary
Utah Air Quality Board

P1101

10.025

Abstract

Spring Canyon Energy, LLC (SCE) is proposing to construct, own, and operate a new power generating facility in the Juab Valley, Juab County, just west of the Mona Reservoir. The facility will consist of one natural gas turbine generator set in a combined cycle configuration [with one heat recovery steam generator (HRSG) and one steam turbine-generator]. In addition, there will be one diesel fired emergency generator, one diesel-fired emergency fire pump, small diesel fuel storage tanks, an air-cooled condenser (to condense spent steam back into water for recycling to the HRSG), and aqueous ammonia storage and handling equipment. The HRSG duct burners will be fired with natural gas to augment waste heat from the gas turbine exhaust. The power facility will operate with a combined net maximum generating capacity of about 280 MW at 0°F. It is anticipated that the gas turbine will be purchased from General Electric with Dry Lo-NO_x combustion system. NO_x emissions from the gas turbine will be controlled to 2 ppmvd at 15% O₂ reference (by selective catalytic reduction system), CO to 4 ppmvd at 15% O₂ reference (9 ppmvd with duct firing), and ammonia slippage to 10 ppm. The turbine will not be designed to operate in a simple-cycle mode (i.e., bypassing the HRSG unit). Raw materials used at the Spring Canyon plant in addition to natural gas and air, are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

Juab County is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants.

New Source Performance Standards (NSPS) 40 CFR 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) applies to the proposed turbine. NSPS 40 CFR 60, Subpart Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) applies to the duct burners.

Estimated annual emissions from the entire facility, in tons per year, will be as follows: 66.4 of NO_x, 97.5 of CO, 5.3 of SO₂, 70.9 of PM₁₀, 67.12 of VOC, and 5.7 tons of hazardous air pollutants (mainly formaldehyde).

Since the emissions have increased above modeling threshold levels for the NO_x, CO, PM₁₀, and formaldehyde, an air quality modeling assessment consistent with UAC R307-410-2 was performed. The US EPA and the State accepted Industrial Source Complex Short Term - Version 3 (ISCST3) model was used by the Applicant to predict air pollutant concentrations under a simple/complex terrain/wake effect situation. The modeling analysis indicated, and the State verified, that there would be no violations of NAAQS and Prevention of Significant Deterioration increments consumption for the proposed project.

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A public comment period was held in accordance with UAC R307-401-4 and comments were received. The comments were evaluated and no comment was found to be adverse to the proposed AO. This air quality Approval Order (AO) authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

General Conditions:

1. This Approval Order (AO) applies to the following company:

Corporate Office Location

USA Power Partners, LLC
Spring Canyon Energy, LLC
PO Box 774000-359
Steamboat Springs, Colorado 80477
Phone Number (970) 871-6223
Fax Number (970) 871-6234

The equipment listed in this AO shall be operated at the following location:

From Salt Lake City take I-15 south approximately 77 miles to Hwy 54. Take exit and proceed west through Mona. Go ½ mile north on Goshen Canyon Road; Plant site is ½ mile to the west.
Juab County

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27
4,410.042 kilometers Northing, 422.81 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
 - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
 - B. All other records Two years
6. Spring Canyon Energy, LLC shall install and operate one natural gas fueled combined cycle turbine generator set with duct burner and ambient air inlet chiller with maximum combined rating of approximately 280 MW, one diesel fired emergency generator rated at 700 bhp, one diesel fired fire pump rated at 250 bhp, and miscellaneous small diesel

fuel storage tanks (each with storage capacity of less than 10,000 gallons) at the Spring Canyon Energy power generating facility in accordance with the terms and conditions of this AO, which was written pursuant to Spring Canyon Energy, LLC's Notice of Intent submitted to the Division of Air Quality (DAQ) on August 13, 2002 and additional information submitted to the DAQ on August 15, 2002, August 29, 2002, September 18, 2002, September 26, 2002, and October 10, 2002.

7. The approved installations shall consist of the following equipment or equivalent*.

- A. One (1) General Electric Frame 7-FA (PG7241FA)* gas turbine, with one (1) HRSG, and one (1) steam turbine generator set

The gas turbine is provided with ambient inlet air chiller coils. The Heat Recovery Steam Generator (HRSG) is equipped with a Selective Catalytic Reduction System for abatement of NO_x emissions from the Duct Burner and the Gas Turbine. Continuous Emission Monitoring System (CEMS) for the HRSG stack is provided for monitoring emissions from the gas turbine and duct burners. The power generating facility has the following characteristics:

Maximum plant site rated output at 100% Load,
 0°F, 12.19 psia and 25% relative humidity: 280 MW
 Heat input at the baseload, ISO (59°F, site elevation): 1,472.9 x Btu/hr (HHV)***
 Maximum gas turbine firing rate: 1,621.5 x 10⁶ Btu/scf (HHV)

- B. One (1) Coen Power Plus* duct burner state of the art, low emission technology Coen Power Plus* (subject to 40 CFR 60, Subpart Da)
 Maximum firing rate: 520 x 10⁶ Btu/hr (HHV)
- C. One (1) Diesel Fired Emergency Generator rated at 700 bhp
- D. One (1) Diesel Fired Emergency Fire Pump rated at 250 bhp
- E. Miscellaneous diesel fuel storage tanks, each individual tank storage capacity is less than 10,000 gallons
- F. One (1) Dry type air-cooled condenser **

* Equivalency shall be determined by the Executive Secretary.

** This equipment is listed for informational purposes only There are no emissions from this equipment

***Fuel Higher Heating Value

8 Spring Canyon Energy, LLC shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition #7 has been completed and is operational, as an initial compliance inspection is required To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn Compliance Section

If construction and/or installation have not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

Limitations

9. Visible emissions from the following emission points shall not exceed the following values:
- A. Natural gas combustion exhaust stacks - 10% opacity
 - B. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

10. The following limits shall apply:
- A. Gas Turbine, Stack Height - no less than 295.27 feet (90 meters) as measured from the ground
 - B. Gas Turbine, Stack Exit Diameter - not greater than 17 feet
11. Combined source wide CO emissions shall be no greater than 97.5 tons per rolling 12-month period.

Compliance to the above emission limitation shall be determined as follows:

CO from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in the EPA reference Method 19 or other procedure approved by the Executive Secretary). CO from the emergency generators shall be obtained by multiplying the engine rating, recorded hours of operation and emission factors from the Vendor data if available or EPA's Compilation of Air Pollutant Emission Factors, AP-42

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation. For emergency generator and the emergency fire pump hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of consumption/production shall be kept on a daily basis.

12. Combined emission rate of PM₁₀+ NO_x + SO₂ shall not be greater than of 780 72 lb per any rolling 24-hour average at the stack exhaust (turbine and the duct burner)
Compliance to the above emission limitation shall be determined as follows

NO_x from the gas turbine and the duct burner shall be obtained from CEMS recorded data (conversion from ppmvd into pounds shall be done using the procedure in EPA reference Method 19 or other procedure approved by the Executive Secretary)

PM₁₀ from the gas turbine and the duct burner shall be from the latest emission test recorded data

SO₂ from the gas turbine and the duct burner shall be from the latest emission test or if testing is not required by the other alternative method as approved by the Executive Secretary or Administrator

To determine compliance with rolling 24-hour total the owner/operator shall calculate average hourly rate and sum them over 24-hour period. New 24-hour total shall be calculated by the noon of the next day. Records of hours of operation and emissions rates shall be kept for all periods when the plant is in operation.

13. Emergency generators shall be used for electricity producing operation only during the periods when electric power from the public utilities is interrupted, or for regular maintenance of the generators. Records documenting generator usage and fire pump usage shall be kept in a log and they shall show the date the generator was used, the duration in hours of the generator usage, and the reason for each generator usage.

Fuels

14. The owner/operator shall use only natural gas, as fuel in the gas turbine and duct burner; fuel oil #2 or better in the emergency generator and the fire pump.
15. The sulfur content of any fuel oil or diesel burned shall not exceed.

0.5 percent by weight for diesel fuels

The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of other fuels shall be either by USA Power, LLC's own testing or test reports from the fuel marketer.

Federal Limitations and Requirements

16. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18, Subpart GG, 40 CFR 60.330 to 60.334 (Standards of Performance for Stationary Gas Turbines) and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.
17. In addition to the requirements of this AO, all applicable provisions of 40 CFR Part 72, 73, 75, 76, 77, and 78 Federal regulations for the Acid Rain Program under Clean Air Act Title IV apply to this installation.

Limitations and Tests Procedures

18. Emissions to the atmosphere from the indicated emission points shall not exceed the following rates and concentrations:

Source: Turbine GE Frame 7-FA (PG7241FA)) and Duct Burner Exhaust Stack

<u>Pollutant</u>	<u>ppmvd*</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd**</u> (15% O ₂ dry) (30-day rolling average)	<u>ppmvd</u> (15% O ₂ dry)
NO _x	2	2	***
CO	4	9	NA

*Total emissions concentration from the gas turbine under steady state operation not including startups and shutdowns

**Combined emissions concentration from the gas turbine and the duct burner under steady state operation not including startups and shutdowns

*** Emissions from the gas turbine (in accordance with 40 CFR 60 Subpart GG requirements)

19. Emissions testing, and compliance monitoring to the atmosphere from the duct burner shall be performed in accordance with all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A and Subpart Da, 40 CFR 60.40a to 60.49a (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) apply to this installation.
20. Stack testing to show compliance with the emission limitations stated in the above condition shall be performed as specified below

A.	<u>Emissions Point</u>	<u>Pollutant</u>	<u>Testing Status</u>	<u>Test Frequency</u>
	Gas turbine only	NO _x	*, **	CEMs
		CO	*	CEMs
	Gas turbine & duct burner	NO _x	*	CEMs
		CO	*	CEMs
	Gas turbine	PM ₁₀	***	NA
	Gas turbine & duct burner	PM ₁₀	****	NA
	Duct Burner	*****		

*Initial compliance shall be demonstrated with Relative Accuracy Testing Audit.

**Initial compliance testing for NO_x for the gas turbine shall be performed in accordance with the 40 CFR 60 Subpart GG.

, *Initial test to establish emission rate value for the calculations in the Condition #12

***** Initial compliance testing for the Duct Burner shall be performed in accordance with the 40 CFR 60 Subpart Da.

Initial compliance testing shall be performed within 60 days after achieving the maximum production rate at which the affected facility will be operated and in no case later than 180 days after the start up of a new emission source.

B. Notification

The Executive Secretary shall be notified at least 30 days prior to conducting any required emission testing. A source test protocol shall be submitted to DAQ when the testing notification is submitted to the Executive Secretary.

The source test protocol shall be approved by the Executive Secretary prior to performing the test(s). The source test protocol shall outline the proposed test methodologies, stack to be tested, procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary.

C. Sample Location

The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

D. Volumetric Flow Rate

40 CFR 60, Appendix A, Method 2 or other testing methods approved by the Executive Secretary.

E. PM₁₀

For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201, 201a, 202 or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. All particulate captured shall be considered PM₁₀.

For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate, or other testing methods approved by the Executive Secretary. The back half condensibles shall also be tested using the method specified by the Executive Secretary. The portion of the front half of the catch considered PM₁₀ shall be based on information in Appendix B of the fifth edition of the EPA document, AP-42, or other data acceptable to the Executive Secretary.

The back half condensibles shall not be used for compliance demonstration but shall be used for inventory purposes

F. Calculations

To determine mass emission rates (lb/hr, etc) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the

volumetric flow rate and any necessary conversion factors determined by the Executive Secretary, to give the results in the specified units of the emission limitation.

G. New Source Operation

For a new source/emission point, the production rate during all compliance testing shall be no less than 90% of the production rate listed in this AO. If the maximum AO allowable production rate has not been achieved at the time of the test, the following procedure shall be followed:

1. Testing shall be at no less than 90% of the production rate achieved to date.
2. If the test is passed, the new maximum allowable production rate shall be 110% of the tested achieved rate, but not more than the maximum allowable production rate. This new allowable maximum production rate shall remain in effect until successfully tested at a higher rate.
3. The owner/operator shall request a higher production rate when necessary. Testing at no less than 90% of the higher rate shall be conducted. A new maximum production rate (110% of the new rate) will then be allowed if the test is successful. This process may be repeated until the maximum AO production rate is achieved.

H. Existing Source Operation

For an existing source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

Monitoring - Continuous Emissions Monitoring

21. The owner/operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides, oxygen and carbon monoxide emissions discharged to the atmosphere from each turbine stack and record the output of the system. The monitoring system shall be used for measuring and determining compliance. The continuous monitoring system shall comply with applicable provisions of UAC, R307-170 and applicable Federal regulations for the Acid Rain Program under Clean Air Act Title IV.
22. Spring Canyon Energy, LLC shall submit for review and Executive Secretary approval CEMs monitoring plan 45 days before the turbine become operational. The plan shall address the number of monitors to be used, the method of measuring the rate in tons per hour, and the method of calculating emissions during the CEMs breakdowns.

Records & Miscellaneous

23. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
24. The owner/operator shall comply with R307-150 Series Inventories, Testing and Monitoring
25. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

Under R307-150-1, the Executive Secretary may require a source to submit an emission inventory for any full or partial year on reasonable notice.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site: http://www.deq.state.ut.us/eqair/aq_home.htm

The annual emission estimations below include point source and do not include fugitive emissions, fugitive dust, road dust, tail pipe emissions, etc. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

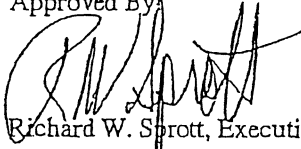
The Potential To Emit (PTE) emissions for this source (the entire plant, or specify what portion) are currently calculated at the following values:

	<u>Pollutant</u>	<u>Tons/yr</u>
A.	PM ₁₀	70.9
B.	SO ₂	5.3
C.	NO _x	66.4
D.	CO	97.5
E.	VOC	67.12

HAPs

Acetaldehyde.....	0.015
Acrolein.....	0.015
1,3 Butadiene	0.017
Benzene.....	0.17
Ethylbenzene.....	1.35
Formaldehyde	1.51
Naphthalene	0.01
PAH.....	0.002
Propylene Oxide.....	1.20
Toluene	1.12
Xylenes	0.26
Totals.....	5.7

Approved By



Richard W. Sprott, Executive Secretary
Utah Air Quality Board



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF WATER RIGHTS

Michael O. Leavitt
 Governor
 Robert L. Morgan
 Executive Director
 Jerry D. Olds
 State Engineer

1594 West North Temple, Suite 220
 PO Box 146300
 Salt Lake City, Utah 84114-6300
 (801) 538-7240 telephone
 (801) 538-7467 fax
 www.nr.utah.gov

MULTIPLE APPLICANTS
 START CARDS SENT TO
 ANOTHER APPLICANT

December 13, 2002

Spring Canyon Energy L.L.C. 53-97
 P.O. Box 774000 #359
 Steamboat Springs, CO 80477

Dear Applicant:

RE: APPROVED CHANGE APPLICATION
 NUMBER 53-97 (a27090)

This is your authority to develop the water under the above referenced application which under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water must be put to beneficial use and proof of beneficial use be made to the State Engineer on or before December 31, 2005; otherwise, the application will be lapsed.

Proof of beneficial use is evidence to the State Engineer that the water has been placed to its full intended beneficial use. By law, it must be prepared by a registered engineer or land surveyor, who will certify to the location and the uses for the water. Your proof of change will become the basis for the extent of your water right.

Utah water law provides that to maintain a water right's validity, the water must be beneficially used. The filing of a change application does not excuse placing the water to beneficial use or protect the right from challenge of partial or total forfeiture.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application. It is the applicant's obligation to maintain a current address with this office. Please notify this office immediately of any change.

Also enclosed are two post cards. You must give the Driller (Start) Card to the licensed driller with whom you contract to construct the well(s). The other card is the Applicant Card which is your responsibility to sign and return to this office immediately after final completion of the well. CAUTION: There may be local health department requirements for the actual siting of your well. Please check with the proper local authority before construction begins.

Your contact with this office, should you need it, is with the Utah Lake/Jordan River Regional Office. The telephone number is (801) 538-7421.

Sincerely,

Jerry D. Olds
 Jerry D. Olds, P.E.
 State Engineer

Utah!

FD-1010-10-01

Encl.: Memorandum Decision

P1112

101034

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF CHANGE APPLICATION)
)
NUMBER 53-97 (a27090))

MEMORANDUM DECISION

Change Application Number 53-97 (a27090) in the names of R. Blake Garrett and Spring Canyon Energy L L C , was filed on September 17, 2002, to change the point of diversion, place of use, and nature of use of 3 0 cfs of water. Heretofore, the water has been diverted from a well located North 1354 feet and West 48 feet from the S¼ Corner of Section 31, T12S, R1E, SLB&M, and used for the irrigation of 107 00 acres from April 1 to October 31 in the W¼NW¼ of Section 31, T12S, R1E, SLB&M., S¼NE¼ of Section 36, T12S, R1W, SLB&M

Hereafter, it is proposed to divert 3 0 cfs of water from an existing 8-inch well and four proposed 16-inch well 100 to 1000 feet deep. Although eight locations are described, only four will be drilled. These are to be located, (1) North 2000 feet and East 1300 feet from the SW Corner of Section 30, T11S, R1E, SLB&M,; (2) North 2615 feet and West 660 feet; (3) North 2615 feet and West 25 feet, (4) North 1980 feet and West 25 feet; (5) North 1345 feet and West 25 feet, (6) North 1345 feet and West 660 feet; (7) North 2615 feet and West 1295 feet, (8) North 1980 feet and West 1295 feet, and (9) North 1345 feet and West 1295 feet, all eight from the SE Corner of Section 23, T11S, R1W, SLB&M. The water is to be used for steam generation at the Spring Canyon Project with a rated capacity of 530 megawatts and other incidental uses at the Spring Canyon Energy Project including domestic and other uses in the NE¼SE¼ of Section 23, T11S, R1W, SLB&M.

The application was advertised in The Nephi Times News on October 9 and 16, 2002, and was protested by the United States Bureau of Reclamation. In the written protest concern is expressed that no increase in depletion should be allowed by this change application.

The State Engineer has reviewed the change application, the underlying water right, the protest and the extant literature on groundwater in the area. The historic water right is for the irrigation of 107 acres, however, 96 acres are solely supplied under this right. The balance is covered by shares of stock in the Nephi Irrigation Company. This use would require a diversion of 384 acre-feet of water (96 acres X 4 0 acre-feet per acre) and would have consumed a total of 210 24 acre-feet of water (96 acres X 2 19 acre feet per acre). The remainder of the water returned to the hydrologic system. The proposed use basically industrial steam power generation and industrial use has not been quantified for the amount of water that would be depleted from the hydrologic system. The applicants have enumerated a total of nine wells sites however from the comments submitted in the application only four wells will be drilled. The applicants have met all of the criteria governing change applications and it

MEMORANDUM DECISION
CHANGE APPLICATION NUMBER
53-97 (a27090)
PAGE 2

appears if conditions are imposed, this change application can be approved.

In evaluating the various elements of the underlying rights, it is not the intention of the State Engineer to adjudicate the extent of these rights, rather to provide sufficient definition of the rights to assure that other vested rights are not impaired by the change and no enlargement occurs. If, in a subsequent action, the court adjudicates that this right is entitled to either more or less water, the State Engineer will adjust the figures accordingly.

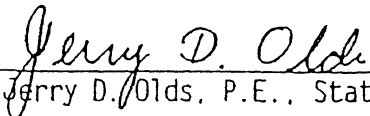
It is, therefore, ORDERED and Change Application Number 53-97 (a27090) is hereby APPROVED subject to prior rights and the following conditions:

1. This change application is limited to a total diversion of 384 acre-feet annually and to the depletion of 210.24 acre-feet annually.
2. Upon submittal of proof of change, in addition to all other information required at that time, the applicants shall provide evidence that the diversion and depletion limits have not been exceeded and that the historic uses have been eliminated.
3. The applicants shall install permanent totalizing meters on all wells and on all water that is being allowed to recharge the groundwater or being placed back to the natural stream environment. The applicants shall keep at least monthly records of all water diverted from the wells and water being returned. The meters and the records shall be available to the State Engineer or his representative at all reasonable times as may be required to regulate this change application.
4. The applicants are responsible for obtaining all other permits from the appropriate entities that will be required for this type of water use.

This Decision is subject to the provisions of Rule R655-6-17 of the Division of Water Rights and to Sections 63-46b-13 and 73-3-14 of the Utah Code Annotated, 1953, which provide for filing either a Request for Reconsideration with the State Engineer or an appeal with the appropriate District Court. A Request for Reconsideration must be filed with the State Engineer within 20 days of the date of this Decision. However, a Request for Reconsideration is not a prerequisite to filing a court appeal. A court appeal must be filed within 30 days after the date of this Decision, or if a Request for Reconsideration has been filed, within 30 days after the date the Request for Reconsideration is denied. A Request for Reconsideration is considered denied when no action is taken 20 days after the Request is filed.

MEMORANDUM DECISION
CHANGE APPLICATION NUMBER
53-97 (a27090)
PAGE 3

Dated this 13th day of December, 2002.


Jerry D. Olds, P.E., State Engineer

JDO:JER:kkh

Mailed a copy of the foregoing Memorandum Decision this 13th day of December, 2002, to:

R. Blake Garrett
North Airport Road
Mona, UT 84648

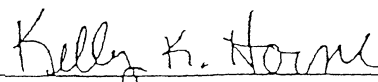
Spring Canyon Energy L.L.C.
P.O. Box 774000 #359
Steamboat Springs, CO 80477

Jody Williams
Holme, Roberts and Owen LLP
229 South Main Street, Suite 1800
Salt Lake City, UT

Bureau of Reclamation
c/o Jonathan B. Jones
302 East 1860 South
Provo, UT 84606-7317

Division of Water Quality
PO Box 144870
Salt Lake City, UT 84116

Water User Program
Division of Water Rights

BY: 
Kelly K Horne, Secretary

P1115

10,034

P1116

10103E



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Jerry D. Olds
State Engineer

1594 West North Temple, Suite 220
PO Box 146300
Salt Lake City, Utah 84114-6300
(801) 538-7240 telephone
(801) 538-7467 fax
www.nr.utah.gov

January 22, 2003

Spring Canyon Energy L.L.C. 53-1431
P.O. Box 774000 #359
Steamboat Springs, CO 80477

Dear Applicant:

RE: APPROVED CHANGE APPLICATION
NUMBER 53-1431 (a27051)

This is your authority to develop the water under the above referenced application which under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water must be put to beneficial use and proof of beneficial use filed with the State Engineer, as provided in the original application, a21754, with the proof-due date of March 31, 2007, as amended by this approved change application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application. It is the applicant's obligation to maintain a current address with this office. Please notify this office immediately of any change.

Also enclosed are two post cards. You must give the Driller (Start) Card to the licensed driller with whom you contract to construct the well(s). The other card is the Applicant Card which is your responsibility to sign and return to this office immediately after final completion of the well. CAUTION: There may be local health department requirements for the actual siting of your well. Please check with the proper local authority before construction begins.

Your contact with this office, should you need it, is with the Utah Lake/Jordan River Regional Office. The telephone number is (801) 538-7421.

Sincerely,

Jerry D. Olds, P.E.
State Engineer

JDO:et

Encl.: Memorandum Decision

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF CHANGE APPLICATION)
)
NUMBER 53-1431 (a27051)) MEMORANDUM DECISION

Change Application Number 53-1431 (a27051), in the names of Michael S. Keyte and Spring Canyon Energy L.L.C., was filed on September 3, 2002, to change the point of diversion, place of use, and nature of use of 163.22 acre-feet of water. Heretofore, the water has been diverted from three wells located: (1) North 2300 feet and East 1300 feet; (2) North 2010 feet and East 1300 feet; and (3) North 2000 feet and East 1300 feet all from the SW Corner of Section 30, T11S, R1E, SLB&M. The water has been used for the irrigation of 40.00 acres from April 1 to October 31, the watering of 83 cattle or equivalent, and the domestic purposes of two families in the S $\frac{1}{2}$ NW $\frac{1}{4}$ and the N $\frac{1}{2}$ SW $\frac{1}{4}$ of Section 30, T11S, R1E, SLB&M.

Hereafter, it is proposed to divert 163.22 acre-feet of water from four wells, although nine wells are described only four will be drilled, located: (1) North 2000 feet and East 1300 feet from the SW Corner of Section 30, T11S, R1E, SLB&M.; (2) North 2615 feet and West 660 feet; (3) North 2615 feet and West 25 feet; (4) North 1980 feet and West 25 feet; (5) North 1345 feet and West 25 feet; (6) North 1345 feet and West 660 feet; (7) North 2615 feet and West 1295 feet; (8) North 1980 feet and West 1295 feet; and (9) North 1345 feet and West 1295 feet all eight from the SE Corner of Section 23, T11S, R1W, SLB&M. The water is to be used for steam generation at the Spring Canyon Project with a rated capacity of 530 megawatts and other incidental uses at the Spring Canyon Energy Project including domestic and other uses in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 23, T11S, R1W, SLB&M.

The application was advertised in The Nephi Times-News on September 25 and October 2, 2002, and was protested by the United States Bureau of Reclamation. In the written protest concern is expressed that no increase in depletion should be allowed by this change application.

The State Engineer has reviewed the change application, the underlying water right, the protest, and the extant literature on groundwater in the area. The historic water right is for the irrigation of 40 acres, livestock water for 83 cattle or equivalent, and for the domestic use of two families. These uses require a diversion of 163.22 acre-feet of water (40 acres X 4.0 acre-feet per acre + 83 livestock X 0.028 acre-foot per head + two families X 0.45 acre-foot per family). These same uses would have consumed a total of 90.1 acre-feet of water (40 acres X 2.19 acre-feet per acre + 83 livestock X 0.028 acre-foot per head + two families X 0.45 acre-foot per family X 20% depletion). The proposed use, basically industrial steam power generation and industrial use, has not been quantified for the amount of water that can be depleted from the hydrologic system. The applicants have enumerated a total of nine well sites, however, from

MEMORANDUM DECISION
CHANGE APPLICATION NUMBER
53-1431 (a27051)
PAGE 2-

the comments submitted in the application, only four wells will be drilled. The State Engineer is of the opinion that, if appropriate conditions are imposed, this change can be approved without impairing rights of others.

In evaluating the various elements of the underlying rights, it is not the intention of the State Engineer to adjudicate the extent of these rights, rather to provide sufficient definition of the rights to assure that other vested rights are not impaired by the change and no enlargement occurs. If, in a subsequent action, the court adjudicates that this right is entitled to either more or less water, the State Engineer will adjust the figures accordingly.

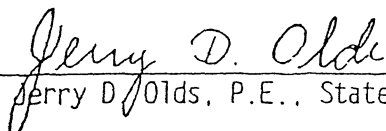
It is, therefore, ORDERED and Change Application Number 53-1431 (a27051) is hereby APPROVED subject to prior rights and the following conditions:

1. This change application is limited to a diversion of 163.22 acre-feet annually and the depletion of 90.1 acre-feet annually.
2. Upon submittal of proof of change, in addition to all other information required at that time, the applicants shall provide evidence that the diversion and depletion limits have not been exceeded and that the historic uses have been eliminated.
3. The applicants shall install permanent totalizing meters on all wells and shall keep at least monthly records of all water diverted from the wells. The meters and the records shall be available to the State Engineer or his representative at all reasonable times as may be required to regulate this change application.

This Decision is subject to the provisions of Rule R655-6-17 of the Division of Water Rights and to Sections 63-46b-13 and 73-3-14 of the Utah Code Annotated, 1953, which provide for filing either a Request for Reconsideration with the State Engineer or an appeal with the appropriate District Court. A Request for Reconsideration must be filed with the State Engineer within 20 days of the date of this Decision. However, a Request for Reconsideration is not a prerequisite to filing a court appeal. A court appeal must be filed within 30 days after the date of this Decision, or if a Request for Reconsideration has been filed, within 30 days after the date the Request for Reconsideration is denied. A Request for Reconsideration is considered denied when no action is taken 20 days after the Request is filed.

MEMORANDUM DECISION
CHANGE APPLICATION NUMBER
53-1431 (a27051)
PAGE 3-

Dated this 22nd day of January, 2003.


Jerry D. Olds, P.E., State Engineer

JOO:JER:kkh

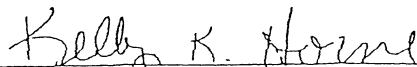
Mailed a copy of the foregoing Memorandum Decision this 22nd day of January, 2003, to:

Michael S. Keyte
P.O. Box 274
Mona, UT 84645

Spring Canyon Energy L.L.C.
P.O. Box 774000 #359
Steamboat Springs, CO 80477

Jody Williams
Holme, Roberts and Owen LLP
229 South Main Street, Suite 1800
Salt Lake City, UT

Bureau of Reclamation
c/o Jonathan B. Jones
302 East 1860 South
Provo, UT 84606-7317

BY: 
Kelly K. Horne, Secretary

701039

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Spring Canyon Energy, L.L.C.

Docket No. EG02-183-000

**NOTICE OF APPLICATION FOR COMMISSION DETERMINATION OF
EXEMPT WHOLESALE GENERATOR STATUS**

(September 13, 2002)

On September 10, 2002, Spring Canyon Energy, L.L.C. (the Applicant) whose address is 10440 N. Central Expressway, No. 1400, Dallas, Texas 75231, filed with the Federal Energy Regulatory Commission an application for determination of exempt wholesale generator status pursuant to Part 365 of the Commission's regulations.

The Applicant states that it will be engaged directly or indirectly and exclusively in the business of owning and/or operating a 430 MW (up to 540 MW with duct burners) electric generating facility located near Mona, Utah and selling electric energy at wholesale. The Applicant requests a determination that the Applicant is an exempt wholesale generator under Section 32(a)(1) of the Public Utility Holding Company Act of 1935.

Any person desiring to intervene or to protest this filing should file with the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211 and 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a motion to intervene. All such motions or protests should be filed on or before the comment date, and, to the extent applicable, must be served on the applicant and on any other person designated on the official service list. This filing is available for review at the Commission or may be viewed on the Commission's web site at <http://www.ferc.gov>, using the "FERRIS" link. Enter the docket number excluding the last three digits in the docket number filed to access the document. For assistance, call (202) 502-8222 or TTY, (202) 502-8659. Protests and

Docket No. EG02-183-000

- 2 -

interventions may be filed electronically via the Internet in lieu of paper; see 18 CFR 385.2001(a)(1)(iii) and the instructions on the Commission's web site under the "e-Filing" link. The Commission strongly encourages electronic filings.

Comment Date: October 4, 2002

Magalie R. Salas
Secretary

16.09.01

Transaction & Proforma Assumptions

It is anticipated that the Spring Canyon Energy project will provide power sales to PacifiCorp in accordance with a long-term contract (20-years plus two optional periods of 5-years each). The base case proforma included in Section 5 is representative of the discussions and negotiations with PacifiCorp and includes the following salient business points:

- PacifiCorp will purchase 100% of the output of the Facility and will have full dispatch rights consistent with manufacturers requirements.
- A capacity payment will be made which allows an 18% pre-tax return to equity assuming that lenders will require one-third equity and assuming a debt rate of 7.5% with a 20-year amortization. The base case proforma assumes a capacity payment of \$8.00/kw.mo utilizing the base capacity of 420 Mw (which is equivalent to \$6.25/kw.m capacity payment utilizing the full plant capacity of 539 Mw).
- Since it is further assumed that lenders will insist upon a 5-year balloon refinancing, the capacity payment will be adjusted for any lender required refinancings as well as for interest rate changes prior to the close of construction and term financing. The interest rate for construction financing is assumed to be 5.5%.
- Fuel cost will be a direct pass through subject to the project meeting a specified heat rate, which is expected to be the EPC guarantee plus 300 Btu/kw.h. If the actual heat rate (adjusted for ambient temperature and normal degradation) is above the specified heat rate, the project will absorb the additional fuel cost (which will be recoverable from the EPC contractor) and if the actual heat rate is below the specified heat rate, the project will receive a benefit. The heat-rate

benefit is expected to be approximately \$2 million per year based on a \$3.50/mmBtu gas price.

- A Fixed O&M payment and a Variable O&M payment will be made which are intended to provide compensation for all fixed and variable costs.
- In order to compensate the project for excellence, there will be a bonus payment for start-ups, which are achieved within specified timeframes and a bonus payment for achieving high levels of plant availability. The base case proforma assumes that the project receives \$20,000 for each on-time start but that none of the starts-ups are achieved within the specified timeframe. The base case proforma assumes that availability above 90% will be rewarded at the rate of \$1 million for each percentage above 90%. While availability above 95% is anticipated, the base case proforma assumes 90.0%. The base case proforma further assumes that the operator earns a bonus payment. Therefore, these bonus revenue payments represent significant upside potential.

The facility is expected to operate in a typical intermediate plant mode of Monday through Friday, 18 hours per day. The Fixed and Variable O&M payments allow for full recovery of operating expense including a \$500,000 contingency in Fixed O&M expense and a \$500,000 contingency in Variable O&M expense.

The Project is intended to provide PacifiCorp with a reliable and flexible source of generation, which as a result of its access to Rocky Mountain natural gas, provides competitively priced energy. The transaction is intended to result in a low risk 18% pre-tax return to equity with significant upside potential to reward excellent performance.

Spring Canyon Energy
Financial Assumptions

Construction Financing Assumptions

Construction Costs:		\$	317,709,000
Interest rate:	5.50%		
Construction Period (6, 12, 18, 24, 30, or 36 Mo)	24		
Legal Fees:	1.00%	\$	3,177,080
Total Financed during Constr:		\$	320,886,090
Interest Expense during const:		\$	24,002,280
Commitment Fees:	1.00%	\$	2,053,671
Debt reserve (approx. 6 mo)		\$	8,500,000
Amount Financed after Construction		\$	355,442,041

Senior Debt Financing Assumptions

Percent of Total Financing	66.67%		
Senior Debt		\$	236,973,208
Amortization Term (Yrs)	20		
Interest Rate:	7.50%		
Amort Method (Straight-line, Mortgage, Variable)			Mortgage

Equity Financing Assumptions

Equity Investment:	Total:	Outside:	USA Power:
% of Total Financing	33.33%	100.00%	0.00%
Total Equity Required:	\$ 118,468,832	\$118,468,832	\$0
Cash Flow Allocation %		100.00%	0.00%
Pre-Tax Equity IRR	18.16%	0.00%	0.00%

Other Financing Assumptions:

Expected Financial Closing Date - Senior Debt	Dec-04
Expected Financial Closing Date - Equity	Dec-04
Initial Debt Service Reserve	\$8,762,818
Interest Income Rate	6.00%

Debt Coverage Ratios (pre-tax)	Min.	Max.	Avg.
	2.28	2.54	2.38

10.043

Spring Canyon Energy
Construction Conceptual Assumptions

Plant Configuration

EPC

Civil Work, Foundation & Buildings	\$5,543,990	\$5,967,509
Power Island Equipment	\$108,927,290	\$117,641,473
Balance of Plant, Mechanical	\$96,248,500	\$103,948,380
Balance of Plant, Electrical & Control	\$15,445,000	\$16,680,600
Total Direct Cost	\$226,164,780	\$244,257,962
Spare Parts	\$11,031,040	\$11,031,040
Engineering & Construction Management	\$15,831,535	\$15,831,535
Contractor's Overhead & Profit	\$10,576,751	\$10,576,751
Logistics & Freight	\$992,794	\$992,794
Tax Allowance	\$0	\$0
Total EPC	\$264,596,900	\$282,690,082

Construction Cost

Turkey Construction Contract (EPC)	\$264,597,000	\$282,690,000
Construction Contingency (7.5% of EPC Direct Cost)	\$16,962,000	\$18,318,000
Fuel Pipeline	\$0	\$0
Gas Interconnect	\$250,000	\$250,000
Electrical Transmission Line	\$750,000	\$750,000
Electrical Interconnect	\$2,650,000	\$2,650,000
Construction Insurance	\$750,000	\$750,000
Water Wells	\$500,000	\$500,000
Sales Tax	\$0	\$0
Total Construction Cost	\$286,459,000	\$305,909,000

Development Costs

Land Acquisition	\$250,000	\$250,000
Easements & ROW	\$100,000	\$100,000
Water Acquisition	\$2,200,000	\$2,200,000
Emission Credits	\$1,000,000	\$1,000,000
Permitting / Legal/G&A	\$7,000,000	\$2,000,000
Construction Management	\$2,200,000	\$2,200,000
Property Tax During Construction	\$2,000,000	\$2,000,000
Startup	\$3,000,000	\$3,000,000
Initial Fuel Supply	\$3,000,000	\$3,000,000
Development Fee	\$14,000,000	\$14,000,000
Contingency	\$1,500,000	\$1,500,000
Total Development Cost	\$31,250,000	\$31,250,000

Total Construction & Development Costs

\$317,709,000	\$337,159,000
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Notes:
Equipment Description:
201 = Two 7FA on one Steam Turbine
2 GE Fr7FA Turbine
1-GE Steam Turbine
1 HRSG Air Cooled
202 = Two 7FA Turbines on two Steam turbines
2 GE Fr7FA Turbines
2-GE Steam Turbines Air Cooled
HRSG

101044

CONSTRUCTION PERIOD DRAWDOWN SCHEDULE

Construction Period	24
Construction Loan Amount	\$320,886,090
Construction Loan Rate	5.50%
Commitment Fee (%)	1.00%

No	Month	Draw %	Principal OS	Unused Principal	Months to Comm Oprs	Commitment Fee	IOC	Cum IOC
1.00	Jun-03	15.0%	\$48,132,914	\$272,753,177	24.00	\$227,294	\$5,294,620	\$5,294,620
2.00	Jul-03	10.0%	\$32,086,609	\$240,666,568	23.00	\$200,554	\$3,382,874	\$8,677,495
3.00	Aug-03	8.0%	\$19,253,165	\$221,413,402	22.00	\$184,510	\$1,941,361	\$10,618,856
4.00	Sep-03	8.0%	\$19,253,165	\$202,159,237	21.00	\$168,465	\$1,853,117	\$12,471,973
5.00	Oct-03	8.0%	\$19,253,165	\$182,905,071	20.00	\$152,421	\$1,764,873	\$14,236,846
6.00	Nov-03	5.0%	\$18,044,305	\$166,860,767	19.00	\$139,051	\$1,397,192	\$15,633,838
7.00	Dec-03	5.0%	\$16,044,305	\$150,816,462	18.00	\$125,680	\$1,323,655	\$16,957,493
8.00	Jan-04	4.0%	\$12,835,444	\$137,981,018	17.00	\$114,984	\$1,000,095	\$17,957,588
9.00	Feb-04	4.0%	\$12,835,444	\$125,145,575	16.00	\$104,288	\$844,288	\$18,801,876
10.00	Mar-04	4.0%	\$12,835,444	\$112,310,132	15.00	\$93,592	\$882,437	\$19,784,313
11.00	Apr-04	3.0%	\$9,626,583	\$102,683,549	14.00	\$85,570	\$817,706	\$20,599,998
12.00	May-04	3.0%	\$9,626,583	\$93,056,966	13.00	\$77,547	\$573,584	\$20,972,580
13.00	Jun-04	3.0%	\$9,626,583	\$83,430,383	12.00	\$69,525	\$529,462	\$21,502,042
14.00	Jul-04	3.0%	\$9,626,583	\$73,803,801	11.00	\$81,503	\$485,340	\$21,987,382
15.00	Aug-04	3.0%	\$9,626,583	\$64,177,218	10.00	\$53,481	\$441,218	\$22,428,601
16.00	Sep-04	3.0%	\$9,626,583	\$54,550,635	9.00	\$45,459	\$397,097	\$22,825,697
17.00	Oct-04	3.0%	\$9,626,583	\$44,924,053	8.00	\$37,437	\$352,975	\$23,178,672
18.00	Nov-04	2.0%	\$8,417,722	\$38,506,331	7.00	\$32,089	\$205,902	\$23,384,574
19.00	Dec-04	2.0%	\$8,417,722	\$32,088,609	8.00	\$26,741	\$176,467	\$23,561,081
20.00	Jan-05	2.0%	\$8,417,722	\$25,670,887	5.00	\$21,392	\$147,073	\$23,708,134
21.00	Feb-05	2.0%	\$8,417,722	\$19,253,165	4.00	\$16,044	\$117,658	\$23,825,792
22.00	Mar-05	2.0%	\$8,417,722	\$12,835,444	3.00	\$10,698	\$88,244	\$23,914,036
23.00	Apr-05	2.0%	\$8,417,722	\$6,417,722	2.00	\$5,348	\$58,829	\$23,972,865
24.00	May-05	2.0%	\$8,417,722	(\$0)	1.00	(\$0)	\$29,415	\$24,002,280
25.00								
26.00								
27.00								
28.00								
29.00								
30.00								
31.00								
32.00								
33.00								
34.00								
35.00								
36.00								
Total		100.0%	\$320,886,090			\$2,053,671	\$24,002,280	

Draw Down Percentages

No	6-Month	12-Month	18-Month	24-Month	30-Month	36-Month
1.00	30.0%	25.0%	20.0%	15.0%	8.0%	6.0%
2.00	25.0%	20.0%	15.0%	10.0%	7.0%	6.0%
3.00	15.0%	10.0%	10.0%	6.0%	7.0%	5.0%
4.00	15.0%	7.0%	8.0%	6.0%	6.0%	5.0%
5.00	10.0%	7.0%	7.0%	6.0%	6.0%	5.0%
6.00	5.0%	6.0%	6.0%	5.0%	6.0%	5.0%
7.00		6.0%	5.0%	5.0%	5.0%	5.0%
8.00		5.0%	4.0%	4.0%	5.0%	4.0%
9.00		5.0%	3.0%	4.0%	5.0%	4.0%
10.00		4.0%	3.0%	4.0%	4.0%	4.0%
11.00		3.0%	3.0%	3.0%	4.0%	4.0%
12.00		2.0%	3.0%	3.0%	4.0%	4.0%
13.00			3.0%	3.0%	3.0%	3.0%
14.00			2.0%	3.0%	3.0%	3.0%
15.00			2.0%	3.0%	3.0%	3.0%
16.00			2.0%	3.0%	3.0%	2.0%
17.00			2.0%	3.0%	3.0%	3.0%
18.00			2.0%	2.0%	2.0%	3.0%
19.00				2.0%	2.0%	2.0%
20.00				2.0%	2.0%	2.0%
21.00				2.0%	2.0%	2.0%
22.00				2.0%	2.0%	2.0%
23.00				2.0%	1.0%	2.0%
24.00				2.0%	1.0%	2.0%
25.00					1.0%	2.0%
26.00					1.0%	2.0%
27.00					1.0%	1.0%
28.00					1.0%	1.0%
29.00					1.0%	1.0%
30.00					1.0%	1.0%
31.00						1.0%
32.00						1.0%
33.00						1.0%
34.00						1.0%
35.00						1.0%
36.00						1.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

10/04/05

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 IL PROJECT COST

\$356,142,041

	1	2	3	4	5	6	7	8	9	10
	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>

4/2/03

IMPTIONS REVENUE

A ELECTRIC ENERGY REVENUE

1 MW BASE CAPACITY	420	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	539	539	539	539	539	539	539	539	539	539
2 ANNUAL OPERATING HOURS										
18 hr/d, 5d/wk, 52 wks/yr	1,880	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>
Cumulative Equivalent Operating Hours	4,680	9,360	14,040	23,193	27,033	32,513	37,193	41,873	46,553	51,233
3 KWH SOLD 000's										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total kWh Sold	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>

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 PROJECT COST

1300,412,041

4/2/03

	2008	2009	2007	2008	2009	2010	2011	2012	2013	2014
CAPACITY REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Capacity Payment \$/kw-yr	\$98.00	\$96.00	\$96.00	\$96.00	\$98.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Capacity Revenue	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
FIXED O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Fixed O&M Payment (\$20.828/kw-yr)	\$21.773	\$22.208	\$22.653	\$23.106	\$23.668	\$24.039	\$24.520	\$25.010	\$25.511	\$26.021
Escalates with General Inflation										
Total Fixed O&M Revenue	9,155,111	9,338,213	9,524,878	9,715,477	9,909,787	10,107,982	10,310,142	10,516,345	10,726,672	10,941,205
VAR IABLE O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Total Cumulative Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Variable O&M Payment (\$4.410/mw-h)	\$4.008	\$4.660	\$4.773	\$4.869	\$4.966	\$5.086	\$5.167	\$5.270	\$5.376	\$5.483
Escalates with General Inflation										
Total Variable O&M Revenue	9,028,479	9,209,049	9,393,230	9,581,094	9,772,716	9,968,171	10,167,534	10,370,885	10,578,302	10,789,868
E. HEAT RATE BENEFIT										
Heat Rate Benefit	300.00	2,038,465	2,133,317	2,170,908	2,209,417	2,248,355	2,288,210	2,328,933	2,370,435	2,412,707
300 btus/kwhr op hrs kw/1000 gas price										
F. FUEL PAYMENT (Passed through)										
	51,413,607	52,317,370	53,239,208	54,179,483	55,138,664	56,118,826	57,114,653	58,132,437	59,170,577	60,229,479
G. START UP BONUS										
START UP REVENUE FACTOR										
# On Time Starts	0	0	0	0	0	0	0	0	0	0
\$20,000/On Time Start	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	24,380	24,867
START UP BONUS	0	0	0	0	0	0	0	0	0	0
H. AVAILABILITY BONUS										
Bonus Factor (\$1,000,000/% avail > 90%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bonus Factor Earned	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Availability Bonus	0	0	0	0	0	0	0	0	0	0

10/2/03

PROJECT SPRING C
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 I CONFIGURATION
 TAL PROJECT COST

	1	2	3	4	5	6	7	8	9	10
...	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014

4/2/03

SUMPTIONS EXPENSES

A. FUEL

1. FUEL CONSUMPTION

Base Heat Rate 7169 Btu/kwh (HHV)	7,169	7,159	7,169	7,169	7,159	7,169	7,159	7,159	7,159	7,159
KWH Produced (000's)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage-Before Start-Up Gas (000's mmbtu (HHV))	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start Up Gas (Hot Start) 750mmbtu's/turbine/t	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478

2. FUEL COST PER UNIT

Rate \$/mmbtu (HHV) \$3.00	3.121	3.184	3.247	3.312	3.378	3.446	3.515	3.585	3.657	3.730
Transportation \$/mmbtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	3.551	3.614	3.677	3.742	3.808	3.876	3.945	4.015	4.087	4.160

TOTAL FUEL EXPENSE	51,413,607	52,317,370	53,239,208	54,179,483	55,138,554	56,116,826	57,114,653	58,132,437	59,170,577	60,229,478
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B. VARIABLE COSTS

Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.2142	0.2185	0.2229	0.2273	0.2319	0.2365	0.2412	0.2460	0.2510	0.2560
Contingency (\$/Mwh)	0.3200	0.3331	0.3398	0.3466	0.3535	0.3605	0.3678	0.3752	0.3827	0.3903

C. FIXED COSTS

Property and Other Taxes 1.1600%	2,823,611	2,676,982	2,729,601	2,784,091	2,839,773	2,896,569	2,954,500	3,013,690	3,073,862	3,135,339
O&M Labor	1,690,650	1,724,463	1,768,952	1,794,131	1,830,014	1,866,614	1,903,946	1,942,029	1,980,866	2,020,483
Compliance & Professional Fees	20,010	26,530	27,061	27,602	28,154	28,717	29,291	29,877	30,475	31,084
General & Administrative (GP)	700,300	799,906	811,824	828,061	844,622	861,514	878,745	896,319	914,246	932,531
Operator Fee	312,120	316,362	324,730	331,224	337,849	344,606	351,498	358,528	365,698	373,012
Operator Bonus	728,280	742,846	757,703	772,857	788,314	804,080	820,162	836,565	853,296	870,362
Management Fee (GP)	260,100	265,302	270,608	276,020	281,541	287,171	292,915	298,773	304,749	310,844
Insurance	1,072,720	1,910,174	1,948,378	1,987,345	2,027,092	2,067,634	2,108,987	2,151,167	2,194,190	2,238,074
Contingency	520,200	530,604	541,216	552,040	563,081	574,343	585,830	597,546	609,497	621,687

P1129
16978

OBJECT: SPRING
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

3378,112,041

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

	1	2	3	4	5	6	7	8	9	10	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
GT Insp/OH Reserve	\$890	6,505,013	6,636,113	6,767,815	6,903,172	7,041,235	7,182,060	7,326,701	7,472,215	7,621,659	7,774,082
\$666/hr /turbine x 2										0	0
ST Insp/OH Reserve	\$187	782,529	798,179	814,143	830,426	847,034	863,975	881,254	898,880	916,857	935,194
\$ 9 million /56,000 hrs											
SCR Replacement Reserve	\$173	811,512	827,742	844,297	861,183	878,407	895,975	913,894	932,172	950,816	969,832
\$6 million /36,000 hrs											
Misc. Contingency	0.2843	520,023	530,424	541,032	551,853	562,890	574,148	585,630	597,343	609,290	621,476
\$0.2540 /Mwh											

ANNUAL RESERVE ACTIVITY

GAS TURBINE

Beginning Balance	0	6,505,013	13,140,126	19,907,941	26,811,113	33,852,348	7,182,060	14,607,761	21,979,976	29,601,635
Annual Accrual	0,006,013	6,635,113	6,767,815	6,903,172	7,041,235	7,182,060	7,325,701	7,472,215	7,621,659	7,774,082
Reserves Used						(33,852,348)				
Ending Balance	6,505,013	13,140,126	19,907,941	26,811,113	33,852,348	7,182,060	14,607,761	21,979,976	29,601,635	37,375,727

STEAM TURBINE

Beginning Balance	0	782,529	1,580,708	2,394,851	3,225,277	4,072,311	4,936,286	5,817,541	6,716,420	7,633,277
Annual Accrual	782,529	798,179	814,143	830,426	847,034	863,975	881,254	898,880	916,857	935,194
Reserves Used										
Ending Balance	782,529	1,080,708	2,394,851	3,225,277	4,072,311	4,936,286	5,817,541	6,716,420	7,633,277	8,568,472

SCR

Beginning Balance	0	811,512	1,639,264	2,483,551	3,344,734	4,223,141	5,119,116	6,033,010	932,172	1,882,988
Annual Accrual	811,512	827,742	844,297	861,183	878,407	895,975	913,894	932,172	950,816	969,832
Reserves Used			(1,050,447)		(1,092,885)		(1,137,037)	(6,033,010)	(1,182,974)	
Ending Balance	811,512	1,639,264	2,483,551	3,344,734	4,223,141	5,119,116	6,033,010	932,172	1,882,988	2,852,820

MISC CONTINGENCY

Beginning Balance	0	520,023	1,050,447	541,032	1,092,885	562,890	1,137,037	585,630	1,182,974	609,290
Annual Accrual	520,023	530,424	541,032	551,853	562,890	574,140	585,630	597,343	609,290	621,476
Reserves Used			(1,050,447)		(1,092,885)		(1,137,037)	(6,033,010)	(1,182,974)	
Ending Balance	520,023	1,050,447	641,032	1,082,885	562,890	1,137,037	585,630	1,182,974	609,290	1,230,766

TOTAL OVERHAUL RESERVE

Beginning Balance	0	8,619,077	17,410,535	25,327,376	34,474,009	42,710,590	18,374,499	26,943,942	30,811,542	39,727,190
Annual Accrual	8,619,077	8,791,458	8,967,287	9,148,633	9,329,566	9,510,167	9,706,480	9,900,610	10,098,622	10,300,594
Reserves Used	0	0	(1,050,447)	0	(1,092,885)	(33,852,348)	(1,137,037)	(6,033,010)	(1,182,974)	0
Ending Balance	8,619,077	17,410,535	25,327,378	34,474,009	42,710,590	18,374,499	26,943,942	30,811,542	39,727,191	50,027,786

DEBT RESERVE (FROM BELOW)
 WORKING CAP RESERVE (BELOW)

	8,762,818	8,762,818	8,762,818	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

TOTAL RESERVE FUNDS

	17,381,894	26,173,352	34,090,193	34,474,009	42,710,591	18,374,500	26,943,943	30,811,543	39,727,191	50,027,786
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INTEREST INCOME

1.80%	130,364	326,664	451,977	514,232	578,865	458,139	339,888	433,166	629,041	673,162
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ESCALATION FACTORS

GAS ESCALATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

P1153
10/10/03

PROJECT: SPRING / N
 ANNUAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

3368,442,041

4/2/03

INCOME AND CASHFLOW STATEMENT

ELECTRIC REVENUE:

	2006	2006	2007	2008	2008	2010	2011	2012	2013	2014
Capacity Sales	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
Fixed O&M Revenue	9,155,111	9,338,213	9,524,978	9,715,477	9,909,787	10,107,982	10,310,142	10,516,345	10,726,672	10,941,205
Variable O&M Revenue	9,028,479	9,209,049	9,393,230	9,581,094	9,772,716	9,968,171	10,167,534	10,370,885	10,578,302	10,789,658
Heat Rate Benefit	2,096,465	2,133,317	2,170,906	2,209,247	2,248,355	2,288,245	2,328,933	2,370,435	2,412,767	2,455,945
Fuel Payment	51,413,607	52,317,370	53,239,208	54,179,483	55,138,564	56,116,826	57,114,653	58,132,437	59,170,577	60,229,479
Availability Bonus Payment	0	0	0	0	0	0	0	0	0	0
Startup Payment	0	0	0	0	0	0	0	0	0	0
	112,059,742	113,364,029	114,694,402	116,051,382	117,435,602	118,847,305	120,287,343	121,756,182	123,254,398	124,782,578

INTEREST REVENUE

	130,264	326,664	451,977	514,232	578,885	458,139	339,886	433,166	529,041	673,162
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TOTAL REVENUE

OPERATING EXPENSES

Fuel Costs	51,413,607	52,317,370	53,239,208	54,179,483	55,138,564	56,116,826	57,114,653	58,132,437	59,170,577	60,229,479
Property and Other Taxes	2,623,511	2,675,982	2,728,501	2,784,091	2,839,773	2,896,569	2,954,500	3,013,590	3,073,862	3,135,339
O&M Labor	1,690,650	1,724,463	1,768,952	1,794,131	1,830,014	1,866,614	1,903,946	1,942,025	1,980,866	2,020,483
Compliance & Professional Fees	28,010	26,630	27,061	27,602	28,164	28,717	29,291	29,877	30,475	31,084
General & Administrative	780,300	795,906	811,824	828,061	844,822	861,514	878,745	896,319	914,246	932,531
Operator Fee	312,120	318,362	324,730	331,224	337,849	344,606	351,498	358,528	365,698	373,012
Operator Bonus	728,280	742,846	757,703	772,857	788,314	804,080	820,162	836,565	853,296	870,362
Management Fee	260,100	265,302	270,608	276,020	281,541	287,171	292,915	298,773	304,749	310,844
Insurance	1,872,720	1,910,174	1,948,378	1,987,345	2,027,092	2,067,534	2,108,987	2,151,167	2,194,190	2,238,074
Chem, Lubricant & Ammonia	421,513	429,943	438,542	447,313	456,259	465,384	474,692	484,186	493,869	503,747
Contingency	520,200	530,604	541,216	552,040	563,081	574,343	585,830	597,546	609,497	621,687
	60,649,011	61,737,483	62,847,723	63,980,168	65,135,262	66,313,458	67,515,218	68,741,014	69,991,325	71,266,642

OPERATING CASHFLOW

DEBT SERVICE REQUIREMENTS

Principal Payment on Debt	5,322,418	5,758,449	6,201,589	6,677,905	7,194,507	7,761,394	8,348,198	8,990,764	9,682,725	10,431,561
Interest Payment	17,525,635	17,105,326	16,653,959	16,166,668	15,641,831	15,076,428	14,467,437	13,811,524	13,105,092	12,344,097
	22,848,053	22,864,775	22,855,548	22,844,573	22,836,338	22,827,822	22,813,633	22,802,288	22,787,818	22,775,658

CASHFLOW BEFORE OTHER ITEMS

Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(8,619,077)	(8,791,468)	(8,967,287)	(383,816)	(9,329,666)	(9,516,157)	(9,706,480)	(9,900,610)	(10,098,622)	(10,300,594)
Working Capital/Other	0	0	0	0	0	0	0	0	0	0
	(8,619,077)	(8,791,468)	(8,967,287)	(383,816)	(9,329,666)	(9,516,157)	(9,706,480)	(9,900,610)	(10,098,622)	(10,300,594)

DEBT RESERVE

Release of Debt Reserve				8,762,818			0			
Refinancing Proceeds										
DISTRIBUTABLE CASHFLOW	20,073,955	20,298,978	20,475,821	38,119,876	20,713,221	20,648,006	20,591,899	20,745,437	20,905,674	21,112,846

EQUITY AMOUNT INVESTED:
 Pre-Tax IRR of Equity (20 years)
 OUTSIDE
 USA Power

\$ (118,488,832)	20,073,955	20,298,978	20,475,821	38,119,876	20,713,221	20,648,006	20,591,899	20,745,437	20,905,674	21,112,846
	18,187									

10,058
 P1131

PROJECT: SPRING C
 FINANCIAL PROJECT
 11 CONFIGURATION
 TOTAL PROJECT COST

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014

4/2/03

TOTAL PROJECT COST

\$355,442,041

EQUITY INVESTED

\$3,537,116

DISCOUNT RATE	14,918,226	13,003,415	11,308,614	18,149,369	8,501,581	7,305,874	6,281,054	5,455,074	4,738,973	4,129,807
PRESENT VALUE	14,918,226	27,921,641	39,230,256	67,379,624	68,881,205	73,187,079	79,468,133	84,923,207	89,662,181	93,787,987
NET PRESENT VALUE	-103,550,606	-90,647,191	-79,238,677	-61,089,209	-52,587,627	-45,281,753	-39,000,899	-33,545,625	-28,806,652	-24,680,845

SENIOR DEBT SERVICE

INTEREST RATES

Libor Swap Assumption	8.260%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%
Interest Rate Spread	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%
Effective Years	Yr 1-4	Yr 5-8	Yr 9-12	Yr 13-15	Yr 16-20					

AMORTIZATION SCHEDULE

Tranche A

QRT#1 Percentage Amortization	0.56%	0.59%	0.54%	0.69%	0.74%	0.80%	0.86%	0.92%	0.99%	1.07%
QRT#2 Percentage Amortization	0.56%	0.60%	0.65%	0.70%	0.75%	0.81%	0.87%	0.94%	1.01%	1.09%
QRT#3 Percentage Amortization	0.56%	0.61%	0.66%	0.71%	0.77%	0.83%	0.89%	0.96%	1.03%	1.11%
QRT#4 Percentage Amortization	0.58%	0.62%	0.67%	0.72%	0.78%	0.84%	0.91%	0.98%	1.05%	1.13%
Total	2.25%	2.43%	2.62%	2.82%	3.04%	3.27%	3.52%	3.78%	4.09%	4.40%

PRINCIPAL PAYMENTS

QRT#1 Principal	1,298,613	1,400,512	1,507,150	1,623,266	1,748,862	1,883,937	2,028,491	2,184,893	2,353,144	2,535,613
QRT#2 Principal	1,324,680	1,428,679	1,535,586	1,654,073	1,782,039	1,919,483	2,066,406	2,227,548	2,398,169	2,583,008
QRT#3 Principal	1,324,680	1,452,646	1,564,023	1,684,880	1,815,215	1,955,029	2,106,692	2,267,834	2,443,194	2,632,772
QRT#4 Principal	1,374,445	1,478,713	1,594,830	1,716,686	1,848,391	1,992,945	2,144,608	2,310,489	2,488,219	2,680,167
Total Principal	5,322,418	5,768,449	6,201,589	6,677,905	7,194,507	7,751,394	8,348,196	8,990,764	9,682,725	10,431,561
Period Beginning Balance	236,973,208	231,650,790	225,892,341	219,690,762	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262
Payments	5,322,418	5,768,449	6,201,589	6,677,905	7,194,507	7,751,394	8,348,196	8,990,764	9,682,725	10,431,561
Period Ending Balance	231,650,790	225,892,341	219,690,762	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262	160,615,701

PRINCIPAL PAYMENTS

QRT#1 Principal	1,298,613	1,400,512	1,507,150	1,623,266	1,748,862	1,883,937	2,028,491	2,184,893	2,353,144	2,535,613
QRT#2 Principal	1,324,680	1,428,679	1,535,586	1,654,073	1,782,039	1,919,483	2,066,406	2,227,548	2,398,169	2,583,008
QRT#3 Principal	1,324,680	1,452,646	1,564,023	1,684,880	1,815,215	1,955,029	2,106,692	2,267,834	2,443,194	2,632,772
QRT#4 Principal	1,374,445	1,478,713	1,594,830	1,716,686	1,848,391	1,992,945	2,144,608	2,310,489	2,488,219	2,680,167
Total Principal	5,322,418	5,768,449	6,201,589	6,677,905	7,194,507	7,751,394	8,348,196	8,990,764	9,682,725	10,431,561
Period Beginning Balance	236,973,208	231,650,790	225,892,341	219,690,762	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262
Payments	5,322,418	5,768,449	6,201,589	6,677,905	7,194,507	7,751,394	8,348,196	8,990,764	9,682,725	10,431,561
Period Ending Balance	231,650,790	225,892,341	219,690,762	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262	160,615,701

INTEREST PAYMENTS

Interest Rate on Debt (swap amount)	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%
Spread	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%
All-In Rate	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%
QRT#1 Interest	4,418,899	4,317,193	4,207,222	4,088,765	3,961,200	3,823,770	3,675,721	3,516,297	3,344,566	3,159,593
QRT#2 Interest	4,394,061	4,290,444	4,178,430	4,057,751	3,927,786	3,787,780	3,636,876	3,474,531	3,299,600	3,111,162
QRT#3 Interest	4,369,223	4,263,207	4,149,105	4,028,160	3,893,751	3,751,123	3,597,475	3,432,009	3,253,790	3,061,798
QRT#4 Interest	4,343,432	4,235,481	4,119,202	3,993,891	3,859,094	3,713,755	3,557,264	3,388,687	3,207,136	3,011,544
Total Interest	17,525,635	17,106,328	16,653,959	16,166,668	15,641,831	15,076,428	14,467,437	13,811,524	13,105,092	12,344,097
Annual Admin										
LOC Fee Payment	0	0	0	0	0	0	0	0	0	0
Total Interest and Fees	17,525,635	17,106,328	16,653,959	16,166,668	15,641,831	15,076,428	14,467,437	13,811,524	13,105,092	12,344,097

DEBT RESERVE

Beginning	8,762,818	8,762,818	8,762,818	8,762,818	0	0	0	0	0	0
Addition	0	0	0	(8,762,818)	0	0	0	0	0	0
Ending	8,762,818	8,762,818	8,762,818	0	0	0	0	0	0	0

Debt Coverage Ratio

	2.286	2.272	2.288	2.302	2.316	2.321	2.328	2.344	2.361	2.379
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WORKING CAPITAL RESERVE

Beginning	0	0	0	0	0	0	0	0	0	0
Addition to working capital	0	0	0	4,203	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

10/20/03

PROJECT: SPRING C
 FINANCIAL PROJECTING
 (1) CONFIGURATION
 TOTAL PROJECT COST

3356,442,041

	11	12	13	14	15	16	17	18	19	20
	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>

4/2/03

ASSUMPTIONS-REVENUE

A. ELECTRIC ENERGY REVENUE

1. MW BASE CAPACITY	420	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	539	539	539	539	539	539	539	539	539	539
100%										
2. ANNUAL OPERATING HOURS										
18 hr/d, 6d/wk, 52 wk/yr	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>
Cumulative Equivalent Operating Hours	55,913	60,593	65,273	69,953	74,633	79,313	83,993	88,673	93,353	98,033
3. KWH SOLD 000's										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total kWh Sold	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>

P1133
10/05/07

PROJECT: SPRING C N
 FINANCIAL PROJECTIL
 2x1 CONFIGURATION
 TOTAL PROJECT COST

	11	12	13	14	15	16	17	18	19	20
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	\$388,442,841									
B CAPACITY REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Capacity Payment \$/kw/yr	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00
	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Total Capacity Revenue	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
C. FIXED O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Fixed O&M Payment (\$20.928/kw yr)	\$26,541	\$27,072	\$27,613	\$28,168	\$28,729	\$29,304	\$29,890	\$30,487	\$31,097	\$31,719
Escalates with General Inflation										
Total Fixed O&M Revenue	11,160,029	11,383,230	11,610,894	11,843,112	12,079,975	12,321,574	12,668,006	12,819,366	13,075,753	13,337,268
D VARIABLE O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Total Cumulative Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Variable O&M Payment (\$4.410/mw.h)	\$5,593	\$5,705	\$5,819	\$5,935	\$6,054	\$6,175	\$6,298	\$6,424	\$6,553	\$6,684
Escalates with General Inflation										
Total Variable O&M Revenue	11,005,666	11,225,779	11,450,296	11,679,301	11,912,887	12,151,144	12,394,167	12,642,051	12,894,892	13,152,789
E. HEAT RATE BENEFIT										
Heat Rate Benefit \$/00 plus /kwhr*op hrs*kw/1000*gas price	300.00	2,499,987	2,544,909	2,590,731	2,637,168	2,685,140	2,733,766	2,783,364	2,833,935	2,885,567
		2,938,181								
F. FUEL PAYMENT (Pass Through)	61,309,560	62,411,242	63,534,957	64,681,147	65,850,261	67,042,757	68,269,103	69,499,776	70,765,262	72,066,058
G. START-UP BONUS										
START-UP REVENUE FACTOR										
# On Time Starts	0	0	0	0	0	0	0	0	0	0
\$ 20,000/On Time Start	25,365	26,672	26,390	26,917	27,456	28,005	28,565	29,136	29,719	30,313
START-UP BONUS	0	0	0	0	0	0	0	0	0	0
H. AVAILABILITY BONUS										
Bonus Factor (\$1,000,000/% avail.>90%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bonus Factor Earned	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Availability Bonus	0	0	0	0	0	0	0	0	0	0

4/2/03

P1134
 69058

PROJECT: SPRING
 FINANCIAL PROJECTIC
 2x1 CONFIGURATION
 TOTAL PROJECT COST

\$385,412,041

	11	12	13	14	15	16	17	18	19	20
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024

4/2/03

ASSUMPTIONS EXPENSES

A. FUEL

1. FUEL CONSUMPTION

Base Heat Rate 7159 Btu/kwh.(HHV)	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159
KWH Produced (000's)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage-Before Start-Up Gas (000's mmBtu (HHV))	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start-Up Gas (Hot Start) 750mmBtu/s/turbine/h	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478

2. FUEL COST PER UNIT

Rate \$/mmBtu (HHV) \$3.00	3.805	3.881	3.958	4.038	4.118	4.201	4.285	4.370	4.458	4.547
Transportation \$/mmBtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	4.235	4.311	4.388	4.468	4.548	4.631	4.715	4.800	4.888	4.977

TOTAL FUEL EXPENSE	61,309,560	62,411,242	63,534,957	64,681,147	65,860,261	67,042,757	68,259,103	69,489,776	70,765,262	72,056,058
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B. VARIABLE COSTS

Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.2811	0.2663	0.2717	0.2771	0.2826	0.2883	0.2941	0.2999	0.3059	0.3120
Contingency (\$/Mwh)	0.3981	0.4061	0.4142	0.4225	0.4309	0.4396	0.4484	0.4573	0.4665	0.4758

C. FIXED COSTS

Property and Other Taxes 1.1600%	3,198,046	3,262,007	3,327,247	3,393,792	3,461,658	3,530,901	3,601,519	3,673,549	3,747,020	3,821,961
O&M Labor	2,060,893	2,102,111	2,144,153	2,187,036	2,230,777	2,275,392	2,320,900	2,367,318	2,414,665	2,462,958
Compliance & Professional Fees	31,708	32,340	32,987	33,647	34,320	35,006	35,706	36,420	37,149	37,892
General & Administrative (GP)	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,750
Operator Fee	380,473	388,082	395,844	403,761	411,836	420,072	428,474	437,043	445,784	454,700
Operator Bonus	887,769	905,525	923,635	942,108	960,950	980,189	999,772	1,019,768	1,040,163	1,060,966
Management Fee (GP)	317,060	323,402	329,870	336,467	343,196	350,060	357,062	364,203	371,487	378,917
Insurance	2,282,835	2,328,492	2,375,062	2,422,563	2,471,014	2,520,435	2,570,843	2,622,260	2,674,705	2,728,189
Contingency	634,121	646,803	659,739	672,934	686,393	700,121	714,123	728,406	742,974	757,833

P135
 1010059

PROJECT: SPRING / N
 FINANCIAL PROJECT
 2x1 CONFIGURATION
 TOTAL PROJECT COST

4316,442,841

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

	11	12	13	14	15	16	17	18	19	20	
	2018	2018	2017	2018	2019	2020	2021	2022	2023	2024	
GT Insp/OH Reserve	\$905	7,929,574	8,086,166	8,249,929	8,414,928	8,583,226	8,754,891	8,929,989	9,108,688	9,290,760	9,476,575
\$668/hr Turbine x 2		0	0	0	0	0	0	0	0	0	0
ST Insp/OH Reserve	\$147	953,898	972,976	992,436	1,012,284	1,032,630	1,053,181	1,074,244	1,095,729	1,117,644	1,139,997
\$ 9 million /56,000 hrs											
SCR Replacement Reserve	\$173	989,229	1,009,013	1,029,193	1,049,777	1,070,773	1,092,188	1,114,032	1,136,313	1,159,039	1,182,220
\$8 million /38,000 hrs											
Misc. Contingency	0,2843	633,905	646,583	659,516	672,705	686,159	699,883	713,880	728,158	742,721	757,575
\$0.2540 /Mwh											

ANNUAL RESERVE ACTIVITY

	11	12	13	14	15	16	17	18	19	20
	2018	2018	2017	2018	2019	2020	2021	2022	2023	2024
GAS TURBINE										
Beginning Balance	37,375,727	7,929,574	16,017,740	24,267,669	32,682,597	41,265,823	5,754,891	17,684,879	26,793,468	36,084,228
Annual Accrual	7,929,574	8,086,166	8,249,929	8,414,928	8,583,226	8,754,891	8,929,989	9,108,688	9,290,760	9,476,575
Reserves Used	(37,375,727)					(41,265,823)				
Ending Balance	7,929,574	16,017,740	24,267,669	32,682,597	41,265,823	8,754,891	17,684,879	26,793,468	36,084,228	45,560,803
STEAM TURBINE										
Beginning Balance	8,568,472	953,898	1,926,874	2,919,310	3,931,594	4,984,124	6,017,305	7,091,549	8,187,279	9,304,922
Annual Accrual	953,898	972,976	992,436	1,012,284	1,032,630	1,053,181	1,074,244	1,095,729	1,117,644	1,139,997
Reserves Used	(8,568,472)									
Ending Balance	953,898	1,926,874	2,919,310	3,931,594	4,984,124	6,017,305	7,091,549	8,187,279	9,304,922	10,444,919
SCR										
Beginning Balance	2,852,820	3,842,048	4,851,062	5,880,255	6,930,032	1,070,773	2,162,961	3,276,993	4,413,306	5,572,346
Annual Accrual	989,229	1,009,013	1,029,193	1,049,777	1,070,773	1,092,188	1,114,032	1,136,313	1,159,039	1,182,220
Reserves Used					(6,930,032)					
Ending Balance	3,842,048	4,851,062	5,880,255	6,930,032	1,070,773	2,162,961	3,276,993	4,413,306	5,572,346	6,754,565
MISC CONTINGENCY										
Beginning Balance	1,230,765	633,905	1,280,489	659,516	1,332,220	686,159	1,388,042	713,880	1,442,038	742,721
Annual Accrual	633,905	646,583	659,516	672,705	686,159	699,883	713,880	728,158	742,721	757,575
Reserves Used	(1,230,765)		(1,280,489)		(1,332,220)		(1,388,042)		(1,442,038)	
Ending Balance	633,905	1,280,489	659,516	1,332,220	686,159	1,388,042	713,880	1,442,038	742,721	1,500,296
TOTAL OVERHAUL RESERVE										
Beginning Balance	50,027,784	13,359,428	24,076,165	33,726,749	44,876,444	47,986,880	18,321,199	28,767,302	40,836,090	51,704,218
Annual Accrual	10,506,506	10,716,738	10,931,073	11,149,695	11,372,689	11,600,142	11,832,145	12,068,788	12,310,164	12,556,367
Reserves Used	(47,174,965)	0	(1,280,469)	0	(8,262,253)	(41,265,823)	(1,388,042)	0	(1,442,038)	0
Ending Balance	13,359,428	24,076,166	33,726,750	44,876,445	47,986,881	18,321,200	28,767,304	40,836,092	51,704,217	64,260,585
DEBT RESERVE (FROM BELOW)										
	0	0	0	0	0	0	0	0	0	0
WORKING CAP RESERVE (BELOW)										
	0	0	0	0	0	0	0	0	0	0
TOTAL RESERVE FUNDS										
	13,359,427	24,076,166	33,726,750	44,876,445	47,986,881	18,321,200	28,767,304	40,836,092	51,704,217	64,260,585
INTEREST INCOME										
1.50%	475,404	280,767	433,522	589,524	696,476	497,311	353,164	522,025	694,052	869,736
ESCALATION FACTORS										
GAS ESCALATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

BRIAN

PROJECT: SPRING IN
 FINANCIAL PROJECT:
 2x1 CONFIGURATION
 TOTAL PROJECT COST

	11	12	13	14	15	16	17	18	19	20
	2016	2016	2017	2018	2019	2020	2021	2022	2023	2024

4/2/03

INCOME AND CASHFLOW STATEMENT

ELECTRIC REVENUE:

Capacity Sales	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
Fixed O&M Revenue	11,160,029	11,383,230	11,610,894	11,843,112	12,079,876	12,321,574	12,568,006	12,819,366	13,075,753	13,337,268
Variable O&M Revenue	11,005,666	11,225,779	11,450,295	11,679,301	11,912,887	12,151,144	12,394,167	12,642,051	12,894,892	13,152,789
Heat Rate Benefit	2,499,987	2,644,909	2,590,731	2,637,468	2,685,140	2,733,766	2,783,364	2,833,955	2,885,557	2,938,191
Fuel Payment	61,309,560	62,411,242	63,534,957	64,681,147	65,850,261	67,042,757	68,269,103	69,499,776	70,765,262	72,056,058
Availability Bonus Payment	0	0	0	0	0	0	0	0	0	0
Startup Payment	0	0	0	0	0	0	0	0	0	0
	126,341,321	127,931,240	129,552,957	131,207,108	132,894,343	134,615,322	136,370,720	138,161,227	139,987,544	141,850,387

INTEREST REVENUE

	475,404	280,767	433,522	569,524	696,475	497,311	353,164	522,025	694,052	669,736
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TOTAL REVENUE

	126,816,726	128,212,007	129,986,479	131,786,632	133,590,818	135,112,632	136,723,884	138,683,252	140,681,596	142,720,123
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OPERATING EXPENSES

Fuel Costs	61,309,560	62,411,242	63,534,957	64,681,147	65,850,261	67,042,757	68,269,103	69,499,776	70,765,262	72,056,058
Property and Other Taxes	3,198,046	3,262,007	3,327,247	3,393,792	3,461,658	3,530,901	3,601,619	3,673,649	3,747,020	3,821,961
O&M Labor	2,060,893	2,102,111	2,144,153	2,187,036	2,230,777	2,275,392	2,320,900	2,367,318	2,414,685	2,462,958
Compliance & Professional Fees	31,706	32,340	32,987	33,647	34,320	35,006	35,706	36,420	37,149	37,892
General & Administrative	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,750
Operator Fee	380,473	388,082	395,844	403,761	411,836	420,072	428,474	437,043	445,784	454,700
Operator Bonus	887,769	905,525	923,635	942,108	960,950	980,169	999,772	1,019,768	1,040,163	1,060,966
Management Fee	317,060	323,402	329,870	336,467	343,196	350,060	357,062	364,203	371,487	378,917
Insurance	2,282,839	2,328,492	2,376,062	2,422,693	2,471,014	2,520,435	2,570,843	2,622,260	2,674,705	2,728,199
Chem, Lubricant&Ammonia	513,822	524,098	534,580	545,272	556,177	567,301	578,647	590,220	602,024	614,064
Contingency	634,121	646,803	659,739	672,934	686,393	700,121	714,123	728,406	742,974	757,833
	72,567,465	73,894,306	75,247,683	76,628,127	78,036,181	79,472,395	80,937,334	82,431,571	83,955,693	85,510,298

OPERATING CASHFLOW

	54,249,260	54,317,701	54,738,796	55,168,505	55,654,637	56,140,237	56,786,550	57,481,681	58,225,902	59,020,824
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DEBT SERVICE REQUIREMENTS

Principal Payment on Debt	11,237,270	12,108,951	13,035,896	14,040,653	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Interest Payment	11,524,318	10,641,134	9,690,012	8,665,656	7,562,052	6,373,306	5,092,984	3,714,066	2,228,556	628,409
	22,761,588	22,748,095	22,726,908	22,706,329	22,690,422	22,667,583	22,640,850	22,615,049	22,591,663	22,562,649

CASHFLOW BEFORE OTHER ITEMS

	31,487,672	31,569,606	32,012,888	32,462,177	32,864,216	32,972,654	33,145,701	33,636,632	34,134,239	34,647,176
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OTHER ITEMS:

Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(10,606,606)	(10,716,738)	(10,931,073)	(11,149,695)	(11,372,689)	(11,600,142)	(11,832,145)	(12,068,788)	(12,310,164)	(12,556,367)
Working Capital/Other	0	0	0	0	0	0	0	0	0	0
	(10,606,606)	(10,716,738)	(10,931,073)	(11,149,695)	(11,372,689)	(11,600,142)	(11,832,145)	(12,068,788)	(12,310,164)	(12,556,367)

DEBT RESERVE

0

Release of Debt Reserve

Refinancing Proceeds

DISTRIBUTABLE CASHFLOW

	20,981,066	20,852,868	21,081,814	21,312,482	21,491,527	21,372,512	21,313,555	21,567,844	21,824,075	22,090,809
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EQUITY AMOUNT INVESTED:

Pre-Tax IRR of Equity (20 Years)	\$ (118,468,832)	20,981,066	20,852,868	21,081,814	21,312,482	21,491,527	21,372,512	21,313,555	21,567,844	21,824,075	22,090,809
OUTSIDE											
USA Power											

P1137
Model

PROJECT: SPRING
 FINANCIAL PROJECTIO.
 1x1 CONFIGURATION
 TOTAL PROJECT COST

	11	12	13	14	15	16	17	18	19	20
	2015	2016	2017	2018	2018	2020	2021	2022	2023	2024

4/2/03

TOTAL PROJECT COST

\$355,442,041

EQUITY INVESTED

\$3,337,116

DISCOUNT RATE	3,534,530	3,028,391	2,639,345	2,300,193	1,999,683	1,714,233	1,473,710	1,285,697	1,121,440	978,574
PRESENT VALUE	97,322,517	100,350,908	102,990,253	105,290,448	107,290,029	109,004,261	110,477,971	111,783,669	112,885,009	113,863,583
NET PRESENT VALUE	-21,146,315	-18,117,924	-15,478,579	-13,178,387	-11,178,803	-9,464,571	-7,990,861	-6,705,263	-5,583,823	-4,605,249

SENIOR DEBT SERVICE

INTEREST RATES
 Libor Swap Assumption
 Interest Rate Spreads
 Effective Years

AMORTIZATION SCHEDULE

Tranche A

QTR #1 Percentage Amortization	1.16%	1.24%	1.34%	1.44%	1.55%	1.67%	1.80%	1.94%	2.09%	2.25%
QTR #2 Percentage Amortization	1.17%	1.27%	1.36%	1.47%	1.58%	1.70%	1.83%	1.98%	2.13%	2.29%
QTR #3 Percentage Amortization	1.20%	1.29%	1.39%	1.50%	1.61%	1.74%	1.87%	2.01%	2.17%	2.34%
QTR #4 Percentage Amortization	1.22%	1.31%	1.41%	1.52%	1.64%	1.77%	1.90%	2.05%	2.21%	2.38%
Total	4.74%	5.11%	5.50%	5.93%	6.38%	6.88%	7.41%	7.98%	8.59%	9.28%

PRINCIPAL PAYMENTS

QTR #1 Principal	Tranche A	2,732,301	2,943,207	3,168,332	3,412,414	3,677,824	3,959,822	4,265,518	4,594,911	4,950,370	5,331,897
QTR #2 Principal	Tranche A	2,782,065	2,997,711	3,227,575	3,476,397	3,746,646	4,036,654	4,346,089	4,680,221	5,042,790	5,431,426
QTR #3 Principal	Tranche A	2,834,200	3,054,585	3,289,188	3,542,749	3,815,269	4,111,485	4,426,660	4,767,801	5,137,579	5,533,324
QTR #4 Principal	Tranche A	2,888,703	3,111,458	3,350,801	3,609,102	3,888,730	4,187,317	4,509,600	4,857,951	5,232,368	5,637,693
Total Principal		11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Beginning Balance	88.57%	180,615,701	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307
Payments		11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Ending Balance		149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307	26,087

PRINCIPAL PAYMENTS

QTR #1 Principal	2,732,301	2,943,207	3,168,332	3,412,414	3,677,824	3,959,822	4,265,518	4,594,911	4,950,370	5,331,897
QTR #2 Principal	2,782,065	2,997,711	3,227,575	3,476,397	3,746,646	4,036,654	4,346,089	4,680,221	5,042,790	5,431,426
QTR #3 Principal	2,834,200	3,054,585	3,289,188	3,542,749	3,815,269	4,111,485	4,426,660	4,767,801	5,137,579	5,533,324
QTR #4 Principal	2,888,703	3,111,458	3,350,801	3,609,102	3,888,730	4,187,317	4,509,600	4,857,951	5,232,368	5,637,693
Total Principal	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Beginning Balance	180,615,701	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307
Payments	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Ending Balance	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307	26,087

INTEREST PAYMENTS

Interest Rate on Debt (swap amount)	11	12	13	14	15	16	17	18	19	20
Spread	8.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%
All-in Rate	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%	1.250%
QTR #1 Interest	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%
QTR #2 Interest	2,960,314	2,745,660	2,514,434	2,265,434	1,997,195	1,708,251	1,397,001	1,061,803	700,745	311,783
QTR #3 Interest	2,908,150	2,589,463	2,463,917	2,200,252	1,926,948	1,632,582	1,315,512	974,049	606,192	209,943
QTR #4 Interest	2,855,009	2,532,180	2,392,245	2,133,825	1,855,411	1,555,492	1,232,512	884,651	509,863	108,194
QTR #4 Interest	2,800,846	2,573,840	2,328,417	2,065,155	1,782,498	1,476,980	1,147,957	793,564	411,756	489
Total Interest	11,524,318	10,641,134	9,690,012	8,665,666	7,562,052	6,373,306	5,092,984	3,714,066	2,228,555	628,409
Annual Admin	0	0	0	0	0	0	0	0	0	0
LOC Fee Payment	0	0	0	0	0	0	0	0	0	0
Total Interest and Fees	11,524,318	10,641,134	9,690,012	8,665,666	7,562,052	6,373,306	5,092,984	3,714,066	2,228,555	628,409

DEBT RESERVE

Beginning	0	0	0	0	0	0	0	0	0	0
Addition	0	0	0	0	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

Debt Coverage Ratio

2.383	2.388	2.409	2.430	2.448	2.455	2.464	2.487	2.511	2.538
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WORKING CAPITAL RESERVE

Beginning	0	0	0	0	0	0	0	0	0	0
Addition to working capital	0	0	0	0	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

P11308

PROJECT: SPRING I N
 FINANCIAL PROJECTIL
 2x1 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>

4/2/03

ASSUMPTIONS-REVENUE

A. ELECTRIC ENERGY REVENUE

1. MW BASE CAPACITY	420	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	539	539	539	539	539	539	539	539	539	539
2. ANNUAL OPERATING HOURS 18 hr/d, 6d/wk, 52 wk/yr	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Cumulative Equivalent Operating Hours	102,713	107,393	112,073	116,753	121,433	126,113	130,793	135,473	140,153	144,833
3. KWH SOLD 000's										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total KWh Sold	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846

P1139
10/03

PROJECT: SPRING C H
 FINANCIAL PROJECT
 1st CONFIGURATION
 TOTAL PROJECT COST

\$318,442,041

4/2/03

	21	22	23	24	25	26	27	28	29	30
	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>
B. CAPACITY REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Capacity Payment \$/kwh/yr	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00	\$96.00
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Capacity Revenue	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
C. FIXED O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Fixed O&M Payment (\$20.928/kwh/yr)	\$32,354	\$33,001	\$33,661	\$34,334	\$35,021	\$35,721	\$36,435	\$37,164	\$37,907	\$38,666
Escalates with General Inflation										
Total Fixed O&M Revenue	13,804,013	13,876,094	14,153,616	14,436,888	14,725,422	15,019,930	15,320,329	15,626,735	15,939,270	16,258,055
D. VARIABLE O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Total Cumulative Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Variable O&M Payment (\$4.410/mwh)	\$6,818	\$6,954	\$7,093	\$7,235	\$7,380	\$7,527	\$7,678	\$7,831	\$7,988	\$8,148
Escalates with General Inflation										
Total Variable O&M Revenue	13,415,845	13,684,162	13,957,845	14,237,002	14,521,742	14,812,177	15,108,421	15,410,589	15,718,801	16,033,177
E. HEAT RATE BENEFIT										
Heat Rate Benefit* \$/kwh	300.00	2,991,870	3,016,828	3,102,484	3,169,487	3,217,579	3,276,854	3,337,314	3,398,903	3,461,806
*300 \$/kwh * op hrs * kw / 1000 * gas price										
F. FUEL PAYMENT (Pass Through)	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,356,498	84,899,119	86,472,592
G. START-UP BONUS										
START-UP REVENUE FACTOR										
# On Time Starts	0	0	0	0	0	0	0	0	0	0
\$ 20,000/On Time Start	30,920	31,538	32,169	32,812	33,468	34,138	34,820	35,517	36,227	36,952
START-UP BONUS	0	0	0	0	0	0	0	0	0	0
H. AVAILABILITY BONUS										
Bonus Factor (\$1,000,000/% avail. > 80%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Bonus Factor Earned	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Availability Bonus	0	0	0	0	0	0	0	0	0	0

B1140
10/03/04

PROJECT: SPRING 7M
 FINANCIAL PROJECT
 2x1 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>

4/2/03

ASSUMPTIONS EXPENSES

A. FUEL

1. FUEL CONSUMPTION

Base Heat Rate 7159 Btu/kw.h(HHV)	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159
KWH Produced (000's)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage Before Start-Up Gas (000's mmBtu (HHV))	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start-Up Gas (Hot Start) 760mmBtu's/turbine/s	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478

2. FUEL COST PER UNIT

Rate \$/mmBtu (HHV) \$3.00	4.638	4.731	4.825	4.922	5.020	5.121	5.223	5.328	5.434	5.543
Transportation \$/mmBtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	5.068	5.161	5.255	5.352	5.450	5.551	5.653	5.758	5.864	5.973

TOTAL FUEL EXPENSE	73,372,670	74,715,614	76,065,417	77,482,817	78,907,760	80,361,408	81,844,125	83,356,498	84,899,119	86,472,692
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B. VARIABLE COSTS

Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.3183	0.3247	0.3311	0.3378	0.3445	0.3514	0.3584	0.3656	0.3729	0.3804
Contingency (\$/Mwh)	0.4853	0.4950	0.5049	0.5150	0.5253	0.5358	0.5465	0.5575	0.5686	0.5800

C. FIXED COSTS

Property and Other Taxes 1.1600%	3,898,400	3,976,368	4,055,895	4,137,013	4,219,754	4,304,149	4,390,232	4,478,036	4,567,597	4,658,949
O&M Labor	2,512,217	2,562,461	2,613,711	2,665,985	2,719,304	2,773,691	2,829,164	2,885,748	2,943,463	3,002,332
Compliance & Professional Fees	38,649	39,422	40,211	41,015	41,835	42,672	43,526	44,396	45,284	46,190
General & Administrative (GP)	1,169,485	1,182,674	1,206,328	1,230,454	1,255,064	1,280,165	1,305,768	1,331,884	1,358,521	1,385,692
Operator Fee	463,794	473,070	482,531	492,182	502,025	512,066	522,307	532,753	543,408	554,277
Operator Bonus	1,082,188	1,103,829	1,126,906	1,148,424	1,171,393	1,194,821	1,218,717	1,243,091	1,267,953	1,293,312
Management Fee (GP)	386,495	394,225	402,109	410,151	418,355	426,722	435,256	443,961	452,840	461,897
Insurance	2,782,763	2,838,419	2,895,187	2,953,091	3,012,153	3,072,398	3,133,844	3,196,520	3,260,451	3,325,660
Contingency	772,990	788,450	804,219	820,303	836,709	853,443	870,512	887,922	905,661	923,784

10/10/03

OBJECT: SPRING
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

GT Insp/OH Reserve	\$800	9,668,107	9,859,429	10,056,618	10,257,750	10,462,905	10,672,163	10,885,606	11,103,318	11,325,385	11,551,892
3668/hr Turbine x 2		0	0	0	0	0	0	0	0	0	0
ST Insp/OH Reserve	\$187	1,162,797	1,186,053	1,209,774	1,233,969	1,258,648	1,283,821	1,309,498	1,335,688	1,362,402	1,389,650
\$ 9 million /58,000 hrs											
SCR Replacement Reserve	\$173	1,205,864	1,229,981	1,254,581	1,279,673	1,305,266	1,331,371	1,357,999	1,385,169	1,412,862	1,441,119
\$6 million /36,000 hrs											
Misc. Contingency	0.2843	772,727	785,161	803,945	820,024	836,425	853,153	870,216	887,620	905,373	923,480
\$0.2540 /Mwh											

ANNUAL RESERVE ACTIVITY

GAS TURBINE

Beginning Balance	45,560,803	9,666,107	19,525,536	29,582,153	39,839,903	50,302,808	60,672,163	71,557,769	82,661,088	93,986,472	105,551,892
Annual Accrual	9,666,107	9,859,429	10,056,618	10,257,750	10,462,905	10,672,163	10,885,606	11,103,318	11,325,385	11,551,892	11,774,784
Reserves Used	(45,560,803)					(50,302,808)				(43,986,472)	
Ending Balance	9,666,107	19,525,536	29,582,153	39,839,903	50,302,808	60,672,163	71,557,769	82,661,088	93,986,472	105,551,892	117,301,168

STEAM TURBINE

Beginning Balance	10,444,919	1,162,797	2,348,849	3,558,623	4,792,592	6,051,240	7,335,061	8,644,559	9,980,247	11,342,649	12,744,549
Annual Accrual	1,162,797	1,186,053	1,209,774	1,233,969	1,258,648	1,283,821	1,309,498	1,335,688	1,362,402	1,389,650	1,416,908
Reserves Used	(10,444,919)									(11,342,649)	
Ending Balance	1,162,797	2,348,849	3,558,623	4,792,592	6,051,240	7,335,061	8,644,559	9,980,247	11,342,649	12,744,549	14,161,457

SCR

Beginning Balance	6,754,565	7,960,429	1,229,981	2,484,582	3,784,235	5,069,501	6,400,873	7,758,872	9,144,030	1,412,862	2,825,724
Annual Accrual	1,205,864	1,229,981	1,254,581	1,279,673	1,305,266	1,331,371	1,357,999	1,385,169	1,412,862	1,441,119	1,469,377
Reserves Used		(7,960,429)							(9,144,030)		
Ending Balance	7,960,429	1,229,981	2,484,582	3,764,235	5,089,501	6,400,873	7,758,872	9,144,030	1,412,862	2,825,724	4,295,101

MISC CONTINGENCY

Beginning Balance	1,500,296	772,727	1,560,908	803,945	1,623,969	836,425	1,689,578	870,216	1,757,836	905,373	1,828,653
Annual Accrual	772,727	700,181	803,945	820,024	836,425	853,153	870,216	887,620	905,373	923,480	941,996
Reserves Used	(1,500,296)		(1,560,908)		(1,623,969)		(1,689,578)		(1,757,836)		
Ending Balance	772,727	1,560,908	803,945	1,623,969	836,425	1,689,578	870,216	1,757,836	905,373	1,828,653	2,770,649

TOTAL OVERHAUL RESERVE

Beginning Balance	64,260,583	19,562,059	24,665,275	36,429,284	50,020,699	62,259,974	76,097,675	90,831,416	106,543,202	123,274,356	141,051,366
Annual Accrual	12,807,495	13,063,644	13,324,917	13,591,416	13,863,244	14,140,509	14,423,319	14,711,785	15,006,021	15,306,142	15,611,742
Reserves Used	(57,506,019)	(7,960,429)	(1,560,908)	0	(1,623,969)	(50,302,808)	(1,689,578)	0	(10,901,867)	(55,329,121)	
Ending Balance	19,562,059	24,665,276	36,429,284	50,020,699	62,259,974	76,097,675	90,831,416	106,543,202	123,274,357	141,051,367	156,622,108

DEBT RESERVE (FROM BELOW)

Beginning Balance	0	0	0	0	0	0	0	0	0	0	0
Annual Accrual	0	0	0	0	0	0	0	0	0	0	0
Reserves Used	0	0	0	0	0	0	0	0	0	0	0
Ending Balance	0	0	0	0	0	0	0	0	0	0	0

TOTAL RESERVE FUNDS

Beginning Balance	19,562,060	24,665,276	36,429,285	50,020,701	62,259,975	76,097,675	90,831,418	106,543,203	123,274,357	141,051,367	156,622,108
Annual Accrual											
Reserves Used											
Ending Balance	19,562,060	24,665,276	36,429,285	50,020,701	62,259,975	76,097,675	90,831,418	106,543,203	123,274,357	141,051,367	156,622,108

INTEREST INCOME

1.50%	628,670	331,705	458,209	648,375	842,105	1,042,682	1,248,968	1,462,110	1,681,229	1,906,329	2,137,408
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ESCALATION FACTORS

GAS ESCALATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

B1142

PROJECT: SPRING 2021
 FINANCIAL PROJECT
 #1 CONFIGURATION
 TOTAL PROJECT COST

1365,442,041

4/2/03

INCOME AND CASHFLOW STATEMENT

ELECTRIC REVENUE:

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Capacity Sales	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080	40,366,080
Fixed O&M Revenue	13,604,013	13,876,094	14,153,616	14,436,688	14,725,422	15,019,930	15,320,329	15,626,735	15,939,270	16,258,055
Variable O&M Revenue	13,415,845	13,684,162	13,957,845	14,237,002	14,621,742	14,812,177	15,108,421	15,410,589	15,718,901	16,033,177
Heat Rate Benefit	2,991,878	3,046,638	3,102,494	3,159,467	3,217,579	3,276,854	3,337,314	3,398,983	3,461,885	3,526,046
Fuel Payment	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,356,498	84,899,119	86,472,592
Availability Bonus Payment	0	0	0	0	0	0	0	0	0	0
Startup Payment	0	0	0	0	0	0	0	0	0	0
	143,750,487	145,688,588	147,665,452	149,681,854	151,738,583	153,836,447	155,976,268	158,158,885	160,385,155	162,655,950

INTEREST REVENUE	628,670	331,705	458,209	648,375	842,105	662,682	485,968	692,810	833,929	564,538
TOTAL REVENUE	144,379,156	146,020,293	148,123,662	150,330,228	152,580,688	154,499,129	156,463,236	158,851,695	161,219,084	163,220,488

OPERATING EXPENSES										
Fuel Costs	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,356,498	84,899,119	86,472,592
Property and Other Taxes	3,898,400	3,976,368	4,059,895	4,137,013	4,219,764	4,304,149	4,390,232	4,478,036	4,567,597	4,658,949
O&M Labor	2,512,217	2,562,461	2,613,711	2,665,985	2,719,304	2,773,691	2,829,164	2,885,748	2,943,463	3,002,332
Compliance & Professional Fees	38,649	39,422	40,211	41,015	41,835	42,672	43,526	44,396	45,284	46,190
General & Administrative	1,159,485	1,182,674	1,206,328	1,230,454	1,265,064	1,280,165	1,305,768	1,331,884	1,358,521	1,385,692
Operator Fee	463,794	473,070	482,531	492,182	502,025	512,066	522,307	532,753	543,408	554,277
Operator Bonus	1,082,186	1,103,829	1,125,906	1,148,424	1,171,393	1,194,821	1,218,717	1,243,091	1,267,953	1,293,312
Management Fee	386,495	394,225	402,109	410,151	418,355	426,722	435,256	443,961	452,840	461,897
Insurance	2,782,763	2,838,419	2,895,187	2,953,091	3,012,153	3,072,396	3,133,844	3,196,520	3,260,451	3,325,660
Chem, Lubricant & Ammonia	626,346	638,873	651,650	664,683	677,977	691,536	705,367	719,474	733,864	748,541
Contingency	772,990	788,450	804,219	820,303	836,709	853,443	870,512	887,922	905,681	923,794
	87,095,995	88,713,406	90,363,165	92,045,918	93,762,328	95,513,065	97,298,817	99,120,284	100,978,181	102,873,235

OPERATING CASHFLOW	57,283,161	57,306,888	57,760,497	58,284,310	58,818,360	58,988,064	59,164,419	59,731,410	60,240,903	60,347,253
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DEBT SERVICE REQUIREMENTS										
Principal Payment on Debt	0	0	0	0	0	0	0	0	0	0
Interest Payment	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

CASHFLOW BEFORE OTHER ITEMS	57,283,161	57,306,888	57,760,497	58,284,310	58,818,360	58,988,064	59,164,419	59,731,410	60,240,903	60,347,253
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OTHER ITEMS:										
Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(12,807,495)	(13,063,644)	(13,324,917)	(13,591,416)	(13,863,244)	(14,140,509)	(14,423,319)	(14,711,785)	(15,006,021)	(15,306,142)
Working Capital/other	0	0	0	0	0	0	0	0	0	0
	(12,807,495)	(13,063,644)	(13,324,917)	(13,591,416)	(13,863,244)	(14,140,509)	(14,423,319)	(14,711,785)	(15,006,021)	(15,306,142)

DEBT RESERVE										
Release of Debt Reserve										
Refinancing Proceeds										
DISTRIBUTABLE CASHFLOW	44,475,667	44,243,243	44,435,580	44,692,894	44,955,116	44,845,555	44,741,100	45,019,625	45,234,882	45,041,112

EQUITY AMOUNT INVESTED:	\$ (118,468,832)	44,475,667	44,243,243	44,435,580	44,692,894	44,955,116	44,845,555	44,741,100	45,019,625	45,234,882	45,041,112
Pre-Tax IRR of Equity (20 years)											
OUTSIDE											
USA Power											

10/14/04

PROJECT: SPRING / N
 FINANCIAL PROJECT
 1 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30	4/2/03
	2020	2021	2022	2023	2024	2025	2031	2032	2033	2034	

TOTAL PROJECT COST

\$355,442,041

EQUITY INVESTED

33.33%

DISCOUNT RATE

1.16

PRESENT VALUE

1,698,426	1,456,509	1,261,070	1,093,424	948,138	815,358	701,288	608,303	526,907	524,650
115,562,009	117,018,619	118,279,588	119,373,013	120,321,150	121,136,518	121,437,785	122,446,088	122,972,995	123,497,644
-2,906,823	-1,460,314	-189,244	904,181	1,852,318	2,657,688	3,358,953	3,977,256	4,504,163	5,028,812

SENIOR DEBT SERVICE

INTEREST RATES

Libor Swap Assumption
 Interest Rate Spreads
 Effective Years

AMORTIZATION SCHEDULE

Tranche A

QRTR #1 Percentage Amortization
 QRTR #2 Percentage Amortization
 QRTR #3 Percentage Amortization
 QRTR #4 Percentage Amortization

Total

PRINCIPAL PAYMENTS

QRTR #1 Principal	Tranche A	0
QRTR #2 Principal	Tranche A	0
QRTR #3 Principal	Tranche A	0
QRTR #4 Principal	Tranche A	0

Total Principal

Period Beginning Balance

80,879

Payments

Period Ending Balance

PRINCIPAL PAYMENTS

Tranche A
 QRTR #1 Principal
 QRTR #2 Principal
 QRTR #3 Principal
 QRTR #4 Principal

Total Principal

Period Beginning Balance

Payments

Period Ending Balance

INTEREST PAYMENTS

Interest Rate on Debt (swap amount)
 Spread
 All-In Rate

QRTR #1 Interest
 QRTR #2 Interest
 QRTR #3 Interest
 QRTR #4 Interest

Total Interest

Annual Admin

LOG Fee Payment

Total Interest and Fees

DEBT RESERVE

Beginning
 Addition
 Ending

Debt Coverage Ratio

WORKING CAPITAL RESERVE

Beginning
 Addition to working capital
 Ending

PT 144
 10/10/03

Spring Canyon Energy LLC
Financial Assumptions

Construction Financing Assumptions

Construction Costs:		\$	317,703,000
Interest rate:	5.50%		
Construction Period (6, 12, 18, 24, 30, or 36 Mo)	24		
Legal Fees:	1.00%	\$	3,177,090
Total Financed during Constr:		\$	320,880,090
Interest Expense during const:		\$	24,002,280
Commitment Fees:	1.00%	\$	2,053,671
Debt reserve (approx. 6 mo)		\$	8,500,000
Amount Financed after Construction		\$	355,442,041

Senior Debt Financing Assumptions

Percent of Total Financing		66.67%	
Senior Debt:		\$	236,373,208
Amortization Term (Yrs)		20	
Treasury Bond (10yr)	Years 1-4	4.50%	
Spread over T-Bond	Years 1-4	3.00%	
Amort Method (Straight-line, Mortgage, Variable)		Mortgage	

Equity Assumptions

Equity Investment:	Total	Outside	USA Power
% of Total Financing	33.33%	100.00%	0.00%
Total Equity Required	\$ 118,468,832	\$118,468,832	\$0
Cash Flow Allocation %		100.00%	0.00%
Pre-Tax Equity IRR	24.73%	0.00%	0.00%

Other Financing Assumptions:

Expected Financial Closing Date - Senior Debt	Dec-04
Expected Financial Closing Date - Equity	Dec-04
Initial Debt Service Reserve	\$8,762,818
Interest Income Rate	2.50%

Debt Coverage Ratios (pre-tax)	Min.	Max.	Avg.
	2.55	2.84	2.73

P1145
10/07/0

Spring Canyon Energy LLC
Construction Conceptual Assumptions

Plant Construction

Civil Work, Foundation & Buildings	\$5,543,930	\$5,987,509
Power Island Equipment	\$108,927,290	\$117,641,473
Balance of Plant, Mechanical	\$66,245,500	\$103,948,380
Balance of Plant, Electrical & Control	\$15,445,000	\$16,660,600
Total Direct Cost	\$226,164,720	\$244,257,962
Spare Parts	\$11,031,040	\$11,031,040
Engineering & Construction Management	\$15,831,535	\$15,831,535
Contractor's Overhead & Profit	\$10,576,751	\$10,576,751
Logistics & Freight	\$92,794	\$92,794
Tax Allowance	\$0	\$0
Total EPC	\$264,596,000	\$282,690,082

Construction Cost

Turkey Construction Contract (EPC)	\$264,597,000	\$282,690,000
Construction Contingency (7.5% of EPC Direct Cost)	\$16,862,000	\$16,318,000
Fuel Pipeline	\$0	\$0
Gas Interconnect	\$250,000	\$250,000
Electrical Transmission Line	\$750,000	\$750,000
Electrical Interconnect	\$2,650,000	\$2,650,000
Construction Insurance	\$750,000	\$750,000
Water Wells	\$500,000	\$500,000
Sales Tax	\$0	\$0
Total Construction Cost	\$286,458,000	\$305,808,000

Development Costs

Land Acquisition	\$250,000	\$250,000
Easements & ROW	\$100,000	\$100,000
Water Acquisition	\$2,200,000	\$2,200,000
Emission Credits	\$1,000,000	\$1,000,000
Permitting / Legal/GEA	\$2,000,000	\$2,000,000
Construction Management	\$2,200,000	\$2,200,000
Property Tax During Construction	\$2,000,000	\$2,000,000
Startup	\$3,000,000	\$3,000,000
Initial Fuel Supply	\$3,000,000	\$3,000,000
Development Fee	\$14,000,000	\$14,000,000
Contingency	\$1,500,000	\$1,500,000
Total Development Cost	\$31,250,000	\$31,250,000

Total Project Costs

\$317,709,000 \$337,159,000

Notes:
Equipment Descriptions:
201# Two 7FA on one Steam Turbine
2- GE F7FA Turbine
1-GE Steam Turbine
1 HRSG Air Cooled

202 # Two 7FA Turbines on two Steam turbines
2- GE F7FA Turbines
2-GE Steam Turbines Air Cooled
HRSG

CONSTRUCTION PERIOD DRAWDOWN SCHEDULE

Construction Period	24
Construction Loan Amount	\$320,886,090
Construction Loan Rate	5.50%
Commitment Fee (%)	1.00%

No.	Month	Draw %	Principal C/S	Unused Principal	Months to Comm. Ops	Commitment Fee	IOC	Cum IOC
1.00	Jun-03	15.0%	\$48,132,914	\$272,753,177	24.00	\$227,294	\$5,294,620	\$5,294,620
2.00	Jul-03	10.0%	\$32,068,609	\$240,684,568	23.00	\$200,554	\$3,382,674	\$8,677,295
3.00	Aug-03	8.0%	\$19,253,165	\$221,431,402	22.00	\$184,510	\$1,941,381	\$10,618,658
4.00	Sep-03	6.0%	\$19,253,165	\$202,178,237	21.00	\$188,465	\$1,853,117	\$12,471,775
5.00	Oct-03	5.0%	\$19,253,165	\$182,905,071	20.00	\$152,421	\$1,764,673	\$14,236,448
6.00	Nov-03	5.0%	\$16,044,305	\$166,860,767	19.00	\$139,051	\$1,397,192	\$15,633,638
7.00	Dec-03	5.0%	\$16,044,305	\$150,816,462	18.00	\$125,680	\$1,323,655	\$16,957,293
8.00	Jan-04	4.0%	\$12,835,444	\$137,981,019	17.00	\$114,984	\$1,000,095	\$17,957,388
9.00	Feb-04	4.0%	\$12,835,444	\$125,145,575	16.00	\$104,288	\$941,266	\$18,898,654
10.00	Mar-04	4.0%	\$12,835,444	\$112,310,132	15.00	\$93,592	\$882,437	\$19,781,090
11.00	Apr-04	3.0%	\$9,626,583	\$102,683,549	14.00	\$85,570	\$817,706	\$20,598,796
12.00	May-04	3.0%	\$9,626,583	\$93,056,966	13.00	\$77,547	\$573,584	\$20,972,500
13.00	Jun-04	3.0%	\$9,626,583	\$83,430,383	12.00	\$69,525	\$529,482	\$21,502,042
14.00	Jul-04	3.0%	\$9,626,583	\$73,803,801	11.00	\$61,503	\$485,340	\$21,987,382
15.00	Aug-04	3.0%	\$9,626,583	\$64,177,218	10.00	\$53,481	\$441,218	\$22,428,601
16.00	Sep-04	3.0%	\$9,626,583	\$54,550,635	9.00	\$45,459	\$397,087	\$22,825,697
17.00	Oct-04	3.0%	\$9,626,583	\$44,924,053	8.00	\$37,437	\$352,975	\$23,178,672
18.00	Nov-04	2.0%	\$6,417,722	\$38,508,331	7.00	\$32,089	\$205,802	\$23,384,574
19.00	Dec-04	2.0%	\$6,417,722	\$32,088,609	6.00	\$28,741	\$176,487	\$23,561,081
20.00	Jan-05	2.0%	\$6,417,722	\$25,670,887	5.00	\$21,392	\$147,073	\$23,708,134
21.00	Feb-05	2.0%	\$6,417,722	\$19,253,165	4.00	\$16,044	\$117,658	\$23,825,782
22.00	Mar-05	2.0%	\$6,417,722	\$12,835,444	3.00	\$10,696	\$88,244	\$23,914,038
23.00	Apr-05	2.0%	\$6,417,722	\$6,417,722	2.00	\$6,348	\$58,828	\$23,972,868
24.00	May-05	2.0%	\$6,417,722	(\$0)	1.00	(\$0)	\$29,415	\$24,002,280
25.00								
26.00								
27.00								
28.00								
29.00								
30.00								
31.00								
32.00								
33.00								
34.00								
35.00								
36.00								
Total		100.0%	\$320,886,090			\$2,053,671	\$24,002,280	

Draw-Down Percentages

No.	8-Month	12-Month	18-Month	24-Month	30-Month	36-Month
1.00	30.0%	25.0%	20.0%	15.0%	8.0%	6.0%
2.00	25.0%	20.0%	15.0%	10.0%	7.0%	6.0%
3.00	15.0%	10.0%	10.0%	6.0%	7.0%	5.0%
4.00	15.0%	7.0%	8.0%	6.0%	6.0%	5.0%
5.00	10.0%	7.0%	7.0%	6.0%	6.0%	5.0%
6.00	5.0%	6.0%	6.0%	5.0%	6.0%	5.0%
7.00		6.0%	5.0%	5.0%	5.0%	5.0%
8.00		5.0%	4.0%	4.0%	5.0%	4.0%
9.00		5.0%	3.0%	4.0%	5.0%	4.0%
10.00		4.0%	3.0%	4.0%	4.0%	4.0%
11.00		3.0%	3.0%	3.0%	4.0%	4.0%
12.00		2.0%	3.0%	3.0%	4.0%	4.0%
13.00			3.0%	3.0%	3.0%	3.0%
14.00			2.0%	3.0%	3.0%	3.0%
15.00			2.0%	3.0%	3.0%	3.0%
16.00			2.0%	3.0%	3.0%	2.0%
17.00			2.0%	3.0%	3.0%	3.0%
18.00			2.0%	2.0%	2.0%	3.0%
19.00				2.0%	2.0%	2.0%
20.00				2.0%	2.0%	2.0%
21.00				2.0%	2.0%	2.0%
22.00				2.0%	2.0%	2.0%
23.00				2.0%	1.0%	2.0%
24.00				2.0%	1.0%	2.0%
25.00					1.0%	2.0%
26.00					1.0%	2.0%
27.00					1.0%	1.0%
28.00					1.0%	1.0%
29.00					1.0%	1.0%
30.00					1.0%	1.0%
31.00						1.0%
32.00						1.0%
33.00						1.0%
34.00						1.0%
35.00						1.0%
36.00						1.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

P1
101017

PROJECT: SPRING TON
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

335,442,041

4/2/03

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2008	2010	2011	2012	2012	2014
ASSUMPTIONS-REVENUE										
A. ELECTRIC ENERGY REVENUE										
1. MW BASE CAPACITY	120	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	639	539	539	539	539	539	539	539	539	539
	100%									
2. ANNUAL OPERATING HOURS 18 h/d, 6d/wk, 52 wk/yr	4,000	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Cumulative Equivalent Operating Hours	4,680	9,360	14,040	23,153	27,833	32,513	37,193	41,873	46,553	51,233
3. TOTAL NUMBER OF STARTS	260	260	260	260	260	260	260	260	260	260
4. KWH SOLD 000's										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total kWh Sold	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846

101073

PROJECT: SPRING DN
 FINANCIAL PROJECT,
 1 CONFIGURATION
 TOTAL PROJECT COST

3338,442,041

4/2/03

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2008	2010	2011	2012	2013	2014
B. CAPACITY REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Capacity Payment	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Capacity Revenue	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960
C. FIXED O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Fixed O&M Payment (\$19.018/kw.yr)	\$18,708	\$20,182	\$20,585	\$20,997	\$21,417	\$21,846	\$22,282	\$22,728	\$23,182	\$23,646
Escalates with General Inflation										
Total Fixed O&M Revenue	8,319,817	8,466,010	8,655,730	8,828,844	9,005,421	9,188,530	9,369,240	9,556,625	9,747,758	9,942,713
D. VARIABLE O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Total Cumulative Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Variable O&M Payment (\$4.410/mw.h)	\$4,588	\$4,680	\$4,773	\$4,869	\$4,966	\$5,068	\$5,167	\$5,270	\$5,376	\$5,483
Escalates with General Inflation										
Total Variable O&M Revenue	9,028,479	9,209,049	9,393,230	9,581,094	9,772,716	9,968,171	10,167,534	10,370,885	10,578,302	10,789,868
E. HEAT RATE BONUS/PENALTY										
Heat Rate Differential*	300.00									
*300 blue /kwh /op hrs /kw /1000 gas price	2,096,466	2,133,317	2,170,905	2,209,247	2,248,355	2,288,245	2,328,933	2,370,435	2,412,767	2,455,946
F. FUEL PAYMENT (Pass Through)										
	51,413,607	52,317,370	53,239,208	54,179,483	55,138,564	56,116,826	57,114,653	58,132,437	59,170,577	60,229,479
G. START-UP BONUS										
START-UP REVENUE FACTOR										
# of On Time Starts	130	130	130	130	130	130	130	130	130	130
\$ 20,000/On Time Start	20,808	21,224	21,649	22,082	22,523	22,974	23,433	23,902	24,380	24,867
START-UP BONUS	2,705,040	2,769,141	2,814,324	2,870,810	2,928,022	2,985,583	3,046,314	3,107,241	3,169,385	3,232,773
H. AVAILABILITY BONUS										
Bonus Factor (\$1,000,000/% avail > 90%)	1,040,100	1,061,208	1,082,432	1,104,081	1,126,162	1,148,686	1,171,659	1,195,093	1,218,994	1,243,374
Bonus Factor Earned	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.60%	2.50%	2.50%
Availability Bonus	2,601,000	2,653,020	2,705,080	2,760,202	2,815,406	2,871,714	2,929,148	2,987,731	3,047,485	3,108,436

copy

PROJECT: SPRING '08
 FINANCIAL PROJEC.
 IN1 CONFIGURATION
 TOTAL PROJECT COST

	1	2	3	5	6	7	8	9	10	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
TOTAL PROJECT COST	4356,442,641									

4/2/03

ASSUMPTIONS EXPENSES

A. FUEL

1. FUEL CONSUMPTION

Base Heat Rate 7159 Btu/kw.h(HHV)	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159
KWH Produced (000's)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage-Before Start-Up Gas (000's mmbtu/gcr)	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start-Up Gas (Hot Start) 750mmbtu's/turbine/s	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478

2. FUEL COST PER UNIT

Rate \$/mmbtu (HHV) \$3.00	3.121	3.184	3.247	3.312	3.378	3.446	3.516	3.585	3.657	3.730
Transportation \$/mmbtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	3.651	3.614	3.677	3.742	3.808	3.876	3.945	4.015	4.087	4.160

TOTAL FUEL EXPENSE

	51,413,607	52,317,370	53,239,208	54,179,463	55,136,564	56,116,826	57,114,853	58,132,437	59,170,577	60,229,479
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B. VARIABLE COSTS

Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.2142	0.2185	0.2229	0.2273	0.2319	0.2365	0.2412	0.2460	0.2510	0.2560
Contingency (\$/Mwh)	0.3286	0.3331	0.3398	0.3468	0.3535	0.3608	0.3678	0.3752	0.3827	0.3903

C. FIXED COSTS

Property and Other Taxes 1.1800%	2,023,611	2,675,982	2,729,501	2,784,091	2,839,773	2,896,569	2,954,500	3,013,590	3,073,862	3,135,339
O&M Labor	1,890,650	1,724,453	1,758,952	1,794,131	1,830,014	1,866,614	1,903,948	1,942,025	1,980,866	2,020,483
Compliance & Professional Fees	260,100	265,302	270,608	276,020	281,541	287,171	292,916	298,773	304,749	310,844
General & Administrative (GP)	700,300	795,906	811,824	828,061	844,622	861,514	878,745	896,319	914,246	932,531
Operator Fee	312,120	318,362	324,730	331,224	337,849	344,606	351,498	358,528	365,698	373,012
Operator Bonus	780,300	795,906	811,824	828,061	844,622	861,514	878,745	896,319	914,246	932,531
Management Fee (GP)	260,100	265,302	270,608	276,020	281,541	287,171	292,916	298,773	304,749	310,844
Insurance	1,872,720	1,910,174	1,948,378	1,987,345	2,027,092	2,067,634	2,108,987	2,151,167	2,194,190	2,238,074
Contingency	520,200	630,604	641,218	652,040	663,081	674,343	685,830	697,546	709,497	721,687

10075
 P115

PROJECT: SPRING 2011
 FINANCIAL PROJECT
 1 CONFIGURATION
 TOTAL PROJECT COST

1 2 3 4 5 6 7 8 9 10
 2008 2009 2010 2011 2012 2013 2014

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

GT Insp/OH Reserve	\$880	6,805,013	6,835,113	6,767,816	6,903,172	7,041,235	7,182,060	7,325,701	7,472,215	7,621,659	7,774,092
\$666/hr /turbine x 2										0	0
ST Insp/OH Reserve	\$187	782,529	798,179	814,143	830,426	847,034	863,975	881,254	898,880	916,857	935,194
\$ 8 million /56,000 hrs											
SCR Replacement Reserve	\$173	811,512	827,742	844,297	861,183	878,407	895,975	913,894	932,172	950,816	969,832
\$6 million /36,000 hrs											
Misc. Contingency	\$ 0.2540	520,023	530,424	541,032	551,853	562,890	574,148	585,630	597,343	609,290	621,476
50.2540 /Mwh											

ANNUAL RESERVE ACTIVITY

GAS TURBINE

Beginning Balance	0	6,505,013	13,140,126	19,907,941	26,811,113	33,852,348	7,182,060	14,507,761	21,979,976	29,601,635	37,375,727
Annual Accrual	8,006,013	6,635,113	6,767,815	6,903,172	7,041,235	7,182,060	7,325,701	7,472,215	7,621,659	7,774,092	
Reserves Used						(33,852,348)					
Ending Balance	6,505,013	13,140,126	19,907,941	26,811,113	33,852,348	7,182,060	14,507,761	21,979,976	29,601,635	37,375,727	

STEAM TURBINE

Beginning Balance	0	782,529	1,580,708	2,394,851	3,225,277	4,072,311	4,936,286	5,817,541	6,716,420	7,633,277	8,668,472
Annual Accrual	782,529	798,179	814,143	830,426	847,034	863,975	881,254	898,880	916,857	935,194	
Reserves Used											
Ending Balance	782,529	1,580,708	2,394,851	3,225,277	4,072,311	4,936,286	5,817,541	6,716,420	7,633,277	8,668,472	

SCR

Beginning Balance	0	811,512	1,639,254	2,483,551	3,344,734	4,223,141	5,119,118	6,033,010	6,932,172	7,882,988	8,882,820
Annual Accrual	811,512	827,742	844,297	861,183	878,407	895,975	913,894	932,172	950,816	969,832	
Reserves Used			(1,050,447)		(1,092,885)	(33,852,348)	(1,137,037)	(6,033,010)	(1,182,974)		
Ending Balance	811,512	1,639,254	2,483,551	3,344,734	4,223,141	5,119,118	6,033,010	6,932,172	7,882,988	8,882,820	

MISC CONTINGENCY

Beginning Balance	0	520,023	1,050,447	1,541,032	2,092,885	2,765,890	3,474,499	4,223,141	5,033,010	5,932,172	6,882,988
Annual Accrual	520,023	530,424	541,032	551,853	562,890	574,148	585,630	597,343	609,290	621,476	
Reserves Used			(1,050,447)		(1,092,885)	(33,852,348)	(1,137,037)	(6,033,010)	(1,182,974)		
Ending Balance	520,023	1,050,447	1,541,032	2,092,885	2,765,890	3,474,499	4,223,141	5,033,010	5,932,172	6,882,988	

TOTAL OVERHAUL RESERVE

Beginning Balance	0	8,619,077	17,410,535	25,327,376	34,474,009	42,710,690	51,374,499	60,443,942	70,033,010	80,116,542	90,727,190
Annual Accrual	8,619,077	8,781,458	8,967,287	9,146,633	9,329,568	9,516,157	9,706,480	9,900,610	10,098,822	10,300,694	
Reserves Used	0	0	(1,050,447)	0	(1,092,885)	(33,852,348)	(1,137,037)	(6,033,010)	(1,182,974)		
Ending Balance	8,619,077	17,410,535	25,327,376	34,474,009	42,710,690	51,374,499	60,443,942	70,033,010	80,116,542	90,727,190	

DEBT RESERVE (FROM BELOW)

Working Cap Reserve (Below)	8,762,818	8,762,818	8,762,818	0	0	0	0	0	0	0	0
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TOTAL RESERVE FUNDS

	17,381,894	26,173,352	34,090,193	34,474,009	42,710,691	51,374,600	60,443,943	70,033,043	80,116,543	90,727,191	100,027,786
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INTEREST INCOME

2.50%	217,274	544,441	753,294	867,053	984,809	1,107,565	1,235,321	1,368,077	1,505,833	1,648,589	1,796,345
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ESCALATION FACTORS

GAS ESCALATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

P1152
100719

OBJECT: SPRING 2008
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

\$595,443,041

4/2/03

INCOME AND CASHFLOW STATEMENT

ELECTRIC REVENUE

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Capacity Sales	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960
Fixed O&M Revenue	8,319,617	8,486,010	8,655,730	8,828,844	9,005,421	9,185,630	9,369,240	9,556,625	9,747,758	9,942,713
Variable O&M Revenue	9,028,479	9,209,049	9,393,230	9,581,094	9,772,716	9,968,171	10,167,534	10,370,885	10,578,302	10,789,868
Heat Rate Bonus/Penalty	2,096,465	2,133,317	2,170,905	2,209,247	2,248,355	2,288,245	2,328,933	2,370,435	2,412,767	2,455,945
Fuel Payment	51,413,607	52,317,370	53,239,208	54,179,483	55,138,664	56,116,826	57,114,653	58,132,437	59,170,577	60,229,479
Availability Bonus Payment	2,705,040	2,759,141	2,814,324	2,870,610	2,928,022	2,986,583	3,046,314	3,107,241	3,169,385	3,232,773
Startup Bonus Payment	2,601,000	2,653,020	2,706,080	2,760,202	2,815,406	2,871,714	2,929,148	2,987,731	3,047,486	3,108,436
	<u>119,053,169</u>	<u>120,446,867</u>	<u>121,866,439</u>	<u>123,318,442</u>	<u>124,797,445</u>	<u>126,306,029</u>	<u>127,844,784</u>	<u>129,414,314</u>	<u>131,015,235</u>	<u>132,648,174</u>

INTEREST REVENUE

	217,274	544,441	753,294	857,053	964,809	763,665	566,481	721,944	881,734	1,121,937
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TOTAL REVENUE	<u>119,270,442</u>	<u>120,991,307</u>	<u>122,621,733</u>	<u>124,175,494</u>	<u>125,762,254</u>	<u>127,069,694</u>	<u>128,411,264</u>	<u>130,136,258</u>	<u>131,896,969</u>	<u>133,770,112</u>
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OPERATING EXPENSES

Fuel Costs	61,413,607	62,317,370	63,239,208	64,179,483	65,138,664	66,116,826	67,114,653	68,132,437	69,170,577	70,229,479
Property and Other Taxes	2,623,511	2,676,982	2,729,501	2,784,091	2,839,773	2,896,569	2,954,500	3,013,590	3,073,862	3,135,339
O&M Labor	1,690,650	1,724,463	1,758,952	1,794,131	1,830,014	1,866,614	1,903,946	1,942,025	1,980,866	2,020,463
Compliance & Professional Fees	280,100	265,302	270,608	276,020	281,541	287,171	292,916	298,773	304,749	310,644
General & Administrative	780,300	795,906	811,824	828,061	844,622	861,614	878,745	896,319	914,246	932,531
Operator Fee	312,120	318,362	324,730	331,224	337,849	344,606	351,498	358,528	365,698	373,012
Operator Bonus	780,300	795,906	811,824	828,061	844,622	861,614	878,745	896,319	914,246	932,531
Management Fee	260,100	265,302	270,608	276,020	281,541	287,171	292,916	298,773	304,749	310,644
Insurance	1,872,720	1,910,174	1,948,378	1,987,345	2,027,092	2,067,634	2,108,987	2,151,167	2,194,190	2,238,074
Chem Lubricant&Ammonia	421,513	429,943	438,542	447,313	456,259	465,384	474,692	484,186	493,869	503,747
Contingency	520,200	530,604	541,216	552,040	563,081	574,343	585,830	597,546	609,497	621,687
	<u>60,935,121</u>	<u>62,029,315</u>	<u>63,145,392</u>	<u>64,283,790</u>	<u>65,444,957</u>	<u>66,629,347</u>	<u>67,837,425</u>	<u>69,069,664</u>	<u>70,326,648</u>	<u>71,608,570</u>

OPERATING CASHFLOW

	58,335,321	58,961,993	59,476,341	59,891,704	60,317,297	60,440,247	60,573,840	61,066,594	61,570,421	62,161,542
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EBIT SERVICE REQUIREMENTS

Principal Payment on Debt	5,322,418	5,758,449	6,201,589	6,677,905	7,194,507	7,751,394	8,346,196	8,990,764	9,682,725	10,431,561
Interest Payment	17,525,635	17,106,326	16,653,959	16,166,668	15,641,831	15,078,428	14,467,437	13,811,524	13,105,092	12,344,097
	<u>22,848,053</u>	<u>22,864,775</u>	<u>22,855,548</u>	<u>22,844,573</u>	<u>22,836,338</u>	<u>22,827,822</u>	<u>22,813,633</u>	<u>22,802,288</u>	<u>22,787,818</u>	<u>22,775,658</u>

CASHFLOW BEFORE OTHER ITEMS

	35,487,268	36,097,218	36,620,793	37,047,131	37,480,959	37,612,425	37,760,207	38,264,306	38,782,603	39,385,884
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OTHER ITEMS

Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(8,619,077)	(8,791,458)	(8,967,287)	(8,816,816)	(9,329,666)	(9,516,167)	(9,706,480)	(9,900,610)	(10,098,622)	(10,300,594)
Working Capital/Other	0	0	0	0	0	0	0	0	0	0
	<u>(8,619,077)</u>	<u>(8,791,458)</u>	<u>(8,967,287)</u>	<u>(8,816,816)</u>	<u>(9,329,666)</u>	<u>(9,516,167)</u>	<u>(9,706,480)</u>	<u>(9,900,610)</u>	<u>(10,098,622)</u>	<u>(10,300,594)</u>

DEBT RESERVE

Release of Debt Reserve				8,762,818						
Refinancing Proceeds										
DISTRIBUTABLE CASHFLOW	<u>26,868,191</u>	<u>27,305,760</u>	<u>27,653,506</u>	<u>46,426,133</u>	<u>28,151,393</u>	<u>28,096,268</u>	<u>28,053,727</u>	<u>28,363,696</u>	<u>28,683,981</u>	<u>29,085,289</u>

EQUITY AMOUNT INVESTED

Pre Tax IRR of Equity (20 years)	\$ (118,468,832)	26,868,191	27,305,760	27,653,506	46,426,133	28,151,393	28,096,268	28,053,727	28,363,696	28,683,981
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CASH FLOW DISTRIBUTION

OUTSIDE Pre-Tax IRR to Equity (20 year)										
74.60%	\$ (118,468,832)	20,016,802	20,342,791	20,601,882	33,842,469	20,972,788	20,931,720	20,900,026	21,130,954	21,369,566
		<u>18,014</u>								
Total Outside Cash Flow (20% remaining)	\$ (118,468,832)	<u>21,387,080</u>	<u>21,735,355</u>	<u>22,012,191</u>	<u>36,169,202</u>	<u>22,408,509</u>	<u>22,364,629</u>	<u>22,330,766</u>	<u>22,577,502</u>	<u>23,161,890</u>
		<u>18,388</u>								

USA Power Partners @ (80% of Remaining Cash Flow)

	5,481,111	5,670,376	5,641,316	9,266,931	6,742,884	5,731,639	5,722,960	5,786,194	5,851,532	5,933,399
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6107

PROJECT: SPRING ON
 FINANCIAL PROJECT
 CONFIGURATION
 ANAL PROJECT CODE

4/2/03

	1	2	3	4	5	6	7	8	9	10
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
INITIAL PROJECT COST	\$355,442,041									
PRESENT VALUE OF USA CASH FLOW	5,662,305	6,231,381	4,816,368	7,192,844	4,082,138	3,678,848	3,337,284	3,087,388	2,820,024	2,599,625
DISCOUNT RATE	5,662,305	10,893,686	15,710,054	22,902,898	26,984,733	30,631,280	33,989,834	37,639,822	39,855,946	42,455,477
PRESENT VALUE	58,747,602									
20 Year Present Value										
INTEREST RATES	4.600%	4.000%	4.600%	4.600%	4.800%					
Treasury Bond rate	3.000%	3.000%	3.000%	3.000%	3.000%					
Interest Rate Spread	Yr 1-4	Yr 5-8	Yr 9-12	Yr 13-15	Yr 16-20					
Effective Years						0.80%	0.86%	0.92%	0.99%	1.07%
AMORTIZATION SCHEDULE	Tranche A									
QRT1 #1 Percentage Amortization	0.55%	0.59%	0.64%	0.69%	0.74%	0.81%	0.87%	0.94%	1.01%	1.09%
QRT1 #2 Percentage Amortization	0.56%	0.60%	0.65%	0.70%	0.75%	0.83%	0.89%	0.96%	1.03%	1.11%
QRT1 #3 Percentage Amortization	0.56%	0.61%	0.66%	0.71%	0.77%	0.84%	0.91%	0.98%	1.05%	1.13%
QRT1 #4 Percentage Amortization	0.58%	0.62%	0.67%	0.72%	0.78%	0.84%	0.91%	0.98%	1.05%	1.13%
Total	2.25%	2.43%	2.62%	2.82%	3.04%	3.27%	3.52%	3.79%	4.09%	4.40%
PRINCIPAL PAYMENTS										
QRT1 #1 Principal	1,298,613	1,400,512	1,507,150	1,623,266	1,748,862	1,883,937	2,028,491	2,184,893	2,353,144	2,535,613
QRT1 #2 Principal	1,324,680	1,426,675	1,535,686	1,654,073	1,782,039	1,919,483	2,066,406	2,227,548	2,398,169	2,583,008
QRT1 #3 Principal	1,324,680	1,452,646	1,584,023	1,684,880	1,816,215	1,955,029	2,106,692	2,267,834	2,443,194	2,632,772
QRT1 #4 Principal	1,374,445	1,478,713	1,594,830	1,715,688	1,848,391	1,992,945	2,144,608	2,310,489	2,488,219	2,680,167
Total Principal	5,322,418	6,758,449	8,201,689	9,677,905	11,194,607	12,751,394	14,346,196	15,990,764	17,729,987	19,431,561
Period Beginning Balance	236,973,208	231,650,790	225,892,341	219,690,752	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262
Period Ending Balance	231,650,790	225,892,341	219,690,752	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262	160,615,701
PRINCIPAL PAYMENTS										
QRT1 #1 Principal	1,298,613	1,400,512	1,507,150	1,623,266	1,748,862	1,883,937	2,028,491	2,184,893	2,353,144	2,535,613
QRT1 #2 Principal	1,324,680	1,426,675	1,535,686	1,654,073	1,782,039	1,919,483	2,066,406	2,227,548	2,398,169	2,583,008
QRT1 #3 Principal	1,324,680	1,452,646	1,584,023	1,684,880	1,816,215	1,955,029	2,106,692	2,267,834	2,443,194	2,632,772
QRT1 #4 Principal	1,374,445	1,478,713	1,594,830	1,715,688	1,848,391	1,992,945	2,144,608	2,310,489	2,488,219	2,680,167
Total Principal	5,322,418	6,758,449	8,201,689	9,677,905	11,194,607	12,751,394	14,346,196	15,990,764	17,729,987	19,431,561
Period Beginning Balance	236,973,208	231,650,790	225,892,341	219,690,752	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262
Period Ending Balance	231,650,790	225,892,341	219,690,752	213,012,847	205,818,341	198,066,947	189,720,751	180,729,987	171,047,262	160,615,701
INTEREST PAYMENTS										
Interest Rate on Debt (swap amount)	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
Spread	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
All-In Rate	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%
QRT1 #1 Interest	4,418,899	4,317,193	4,207,222	4,088,765	3,961,200	3,823,770	3,675,721	3,516,297	3,344,566	3,159,593
QRT1 #2 Interest	4,394,061	4,290,444	4,178,430	4,057,761	3,927,786	3,787,780	3,636,976	3,474,531	3,299,600	3,111,162
QRT1 #3 Interest	4,369,223	4,263,207	4,149,105	4,026,160	3,893,751	3,751,123	3,597,475	3,432,009	3,253,790	3,061,798
QRT1 #4 Interest	4,343,452	4,235,481	4,119,202	3,993,931	3,859,094	3,713,755	3,557,264	3,388,687	3,207,136	3,011,544
Total Interest	17,525,635	17,106,326	16,653,959	16,166,668	15,641,831	15,076,428	14,467,437	13,811,524	13,105,092	12,344,097
Annual Admin	0	0	0	0	0	0	0	0	0	0
LOC Fee Payment	0	0	0	0	0	0	0	0	0	0
Total Interest and Fees	17,525,635	17,106,326	16,653,959	16,166,668	15,641,831	15,076,428	14,467,437	13,811,524	13,105,092	12,344,097
DEBT RESERVE	8,762,818	8,762,818	8,762,818	8,762,818	8,762,818	0	0	0	0	0
Beginning	8,762,818	8,762,818	8,762,818	8,762,818	8,762,818	0	0	0	0	0
Addition	0	0	0	0	0	0	0	0	0	0
Ending	8,762,818	8,762,818	8,762,818	8,762,818	8,762,818	0	0	0	0	0
Debt Coverage Ratio	2.553	2.579	2.602	2.622	2.641	2.655	2.670	2.702	2.729	2.758
WORKING CAPITAL RESERVE										
Beginning	0	0	0	0	0	0	0	0	0	0
Addition	0	0	0	0	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

100%

PROJECT SPRING
 FINANCIAL PROJEC
 1 CONFIGURATION
 TOTAL PROJECT COST

4388,443,041

	11	12	13	14	15	16	17	18	19	20
	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>

4/2/03

ASSUMPTIONS-REVENUE

A. ELECTRIC ENERGY REVENUE

1 MW BASE CAPACITY	420	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	100% 539	539	539	539	539	539	539	539	539	539
2 ANNUAL OPERATING HOURS	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
18 hrs/d 5d/week, 52 wks/yr	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>	<u>4,680</u>
Cumulative Equivalent Operating Hours	<u>55,913</u>	<u>60,593</u>	<u>65,273</u>	<u>69,953</u>	<u>74,633</u>	<u>79,313</u>	<u>83,993</u>	<u>88,673</u>	<u>93,353</u>	<u>98,033</u>
3 TOTAL NUMBER OF STARTS	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>	<u>260</u>
4 KWH SOLD 000 s										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total kWh Sold	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>	<u>1,967,846</u>

P1155
 10,079

PROJECT: SPRING 2021
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

358,442,041

	11	12	13	14	15	16	17	18	19	20
	2015	2016	2017	2018	2018	2020	2021	2022	2023	2024

4/2/03

ASSUMPTIONS EXPENSES

A. FUEL

1. FUEL CONSUMPTION

Base Heat Rate 7159 Btu/kw.h(HHV)	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159
KWH Produced (000's)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage-Before Start-Up Gas (000's mmBtu (HHV))	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start-Up Gas (Hot Start) 750mmBtu's/turbine/s	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478

2. FUEL COST PER UNIT

Rate \$/mmBtu (HHV) \$3.00	3.805	3.881	3.958	4.038	4.118	4.201	4.285	4.370	4.458	4.547
Transportation \$/mmBtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	4.235	4.311	4.388	4.468	4.548	4.631	4.715	4.800	4.888	4.977

TOTAL FUEL EXPENSE	81,309,560	82,411,242	83,534,957	84,681,147	85,850,281	87,042,757	88,259,103	89,499,776	90,765,262	92,056,058
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B. VARIABLE COSTS

Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.2611	0.2883	0.2717	0.2771	0.2826	0.2883	0.2941	0.2999	0.3059	0.3120
Contingency (\$/Mwh)	0.3981	0.4061	0.4142	0.4225	0.4309	0.4396	0.4484	0.4573	0.4665	0.4758

C. FIXED COSTS

Property and Other Taxes 1.1600%	3,198,046	3,262,007	3,327,247	3,393,782	3,461,668	3,530,901	3,601,519	3,673,549	3,747,020	3,821,981
O&M Labor	2,060,893	2,102,111	2,144,153	2,187,036	2,230,777	2,275,392	2,320,900	2,367,318	2,414,665	2,462,958
Compliance & Professional Fees	317,080	323,402	329,870	336,487	343,196	350,060	357,062	364,203	371,487	378,917
General & Administrative (GP)	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,750
Operator Fee	380,473	388,082	395,844	403,761	411,836	420,072	428,474	437,043	445,784	454,700
Operator Bonus	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,750
Management Fee (GP)	317,080	323,402	329,870	336,487	343,196	350,060	357,062	364,203	371,487	378,917
Insurance	2,282,835	2,328,492	2,375,062	2,422,563	2,471,014	2,520,435	2,570,843	2,622,260	2,674,705	2,728,199
Contingency	634,121	648,603	659,739	672,934	686,393	700,121	714,123	728,406	742,974	757,833

358,442,041

PROJECT: SPRING
 FINANCIAL PROJECT
 (1) CONFIGURATION
 TOTAL PROJECT COST

\$385,742,041

11 12 13 14 15 16 17 18 19 20
 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

GT Insp/OH Reserve	\$995	7,929,574	8,088,166	8,249,929	8,414,928	8,583,228	8,754,891	8,929,989	9,108,588	9,280,760	9,476,575
1666/hr Turbine x 2		0	0	0	0	0	0	0	0	0	0
ST Insp/OH Reserve	\$187	953,898	972,976	992,436	1,012,284	1,032,530	1,053,181	1,074,244	1,095,729	1,117,644	1,139,997
\$ 9 million /56,000 hrs											
SCR Replacement Reserve	\$173	989,229	1,009,013	1,029,193	1,049,777	1,070,773	1,092,188	1,114,032	1,136,313	1,159,039	1,182,220
56 million /38,000 hrs											
Misc. Contingency	0.2843	633,905	646,583	659,515	672,705	686,159	699,883	713,880	728,168	742,721	757,575
\$0.2540 /Mwh											

ANNUAL RESERVE ACTIVITY

GAS TURBINE

Beginning Balance		37,375,727	7,929,874	16,017,740	24,267,669	32,682,597	41,265,823	5,754,891	17,684,879	26,793,468	36,084,228
Annual Accrual		7,929,574	8,088,166	8,249,929	8,414,928	8,583,228	8,754,891	8,929,989	9,108,588	9,280,760	9,476,575
Reserves Used		(37,375,727)					(41,265,823)				
Ending Balance		7,929,574	16,017,740	24,267,669	32,682,597	41,265,823	5,754,891	17,684,879	26,793,468	36,084,228	45,560,803

STEAM TURBINE

Beginning Balance		8,568,472	953,898	1,926,874	2,919,310	3,931,594	4,964,124	6,017,305	7,091,549	8,187,279	9,304,922
Annual Accrual		953,898	972,976	992,436	1,012,284	1,032,530	1,053,181	1,074,244	1,095,729	1,117,644	1,139,997
Reserves Used		(8,568,472)									
Ending Balance		953,898	1,926,874	2,919,310	3,931,594	4,964,124	6,017,305	7,091,549	8,187,279	9,304,922	10,444,919

SCR

Beginning Balance		2,852,820	3,842,048	4,851,062	5,880,255	6,930,032	1,070,773	2,162,961	3,276,993	4,413,306	5,672,345
Annual Accrual		989,229	1,009,013	1,029,193	1,049,777	1,070,773	1,092,108	1,114,032	1,136,313	1,159,039	1,182,220
Reserves Used						(6,930,032)					
Ending Balance		3,842,048	4,851,062	5,880,255	6,930,032	1,070,773	2,162,961	3,276,993	4,413,306	5,672,345	6,754,565

MISC CONTINGENCY

Beginning Balance		1,230,766	633,905	1,280,489	659,515	1,332,220	686,159	1,386,042	713,880	1,442,038	742,721
Annual Accrual		633,905	646,583	659,515	672,705	686,159	699,883	713,880	728,168	742,721	757,575
Reserves Used		(1,230,766)		(1,280,489)		(1,332,220)		(1,386,042)		(1,442,038)	
Ending Balance		633,905	1,280,489	659,515	1,332,220	686,159	1,386,042	713,880	1,442,038	742,721	1,500,296

TOTAL OVERHAUL RESERVE

Beginning Balance		50,027,784	13,359,426	24,076,165	33,726,749	44,876,444	47,986,880	18,321,199	28,767,302	40,836,090	51,704,216
Annual Accrual		10,506,606	10,716,738	10,931,073	11,149,695	11,372,689	11,600,142	11,832,145	12,068,788	12,310,164	12,556,387
Reserves Used		(47,174,965)	0	(1,280,489)	0	(8,282,253)	(41,265,823)	(1,386,042)	0	(1,442,038)	0
Ending Balance		13,359,426	24,076,165	33,726,749	44,876,444	47,986,880	18,321,199	28,767,302	40,836,090	51,704,216	64,260,583

DEBT RESERVE (FROM BELOW)
 WORKING CAP RESERVE (BELOW)

		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

TOTAL RESERVE FUNDS

		13,359,427	24,076,166	33,726,760	44,876,445	47,986,881	18,321,200	28,767,304	40,836,092	51,704,217	64,260,585
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INTEREST INCOME

2.50%		792,340	467,945	722,538	982,540	1,160,792	828,851	588,508	870,042	1,166,754	1,449,580
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ESCALATION FACTORS

GAS ESCALATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

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PROJECT: SPRING ON
 FINANCIAL PROJECT:
 CONFIGURATION
 TOTAL PROJECT COST

1353,422,041

	11	12	13	14	15	16	17	18	19	20
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
INCOME AND CASHFLOW STATEMENT										
ELECTRIC REVENUE:										
Capacity Sales	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960
Fixed O&M Revenue	10,141,567	10,344,398	10,551,286	10,762,312	10,977,558	11,197,109	11,421,052	11,649,473	11,882,462	12,120,111
Variable O&M Revenue	11,005,866	11,225,779	11,450,295	11,679,301	11,912,887	12,151,144	12,394,167	12,642,051	12,894,892	13,152,789
Heat Rate Bonus/Penalty	2,499,987	2,644,909	2,590,731	2,637,468	2,685,140	2,733,766	2,783,364	2,833,865	2,885,557	2,938,181
Fuel Payment	61,309,560	62,411,242	63,534,957	64,681,147	65,850,261	67,042,757	68,259,103	69,499,776	70,765,262	72,056,058
Availability Bonus Payment	3,297,429	3,363,377	3,430,645	3,499,258	3,569,243	3,640,828	3,713,440	3,787,709	3,863,463	3,940,732
Startup Bonus Payment	3,170,604	3,234,017	3,298,697	3,364,871	3,431,964	3,500,604	3,570,616	3,642,028	3,714,868	3,789,168
	134,313,772	138,012,682	137,745,671	139,513,117	141,316,013	143,154,968	145,030,702	146,943,961	148,895,464	150,886,008
INTEREST REVENUE	792,340	467,945	722,536	982,540	1,160,792	828,851	588,806	870,042	1,156,754	1,449,560
TOTAL REVENUE	135,106,113	138,480,627	138,468,107	140,495,657	142,476,805	143,983,819	145,619,309	147,813,993	150,052,218	152,335,568
OPERATING EXPENSES										
Fuel Costs	61,309,560	62,411,242	63,534,957	64,681,147	65,850,261	67,042,757	68,259,103	69,499,776	70,765,262	72,056,058
Property and Other Taxes	3,198,046	3,262,007	3,327,247	3,393,792	3,461,668	3,530,901	3,601,619	3,673,549	3,747,020	3,821,961
O&M Labor	2,080,893	2,102,111	2,144,153	2,187,036	2,230,777	2,275,392	2,320,900	2,367,318	2,414,665	2,462,958
Compliance & Professional Fees	317,060	323,402	329,870	336,467	343,198	350,060	357,062	364,203	371,487	378,917
General & Administrative	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,760
Operator Fee	380,473	388,082	395,844	403,761	411,836	420,072	428,474	437,043	445,784	454,700
Operator Bonus	951,181	970,205	989,609	1,009,401	1,029,589	1,050,181	1,071,185	1,092,608	1,114,461	1,136,760
Management Fee	317,060	323,402	329,870	336,467	343,198	350,060	357,062	364,203	371,487	378,917
Insurance	2,282,895	2,328,492	2,375,062	2,422,563	2,471,014	2,520,435	2,570,843	2,622,260	2,674,705	2,728,199
Chem, Lubricant & Ammonia	513,822	524,098	534,580	545,272	556,177	567,301	578,647	590,220	602,024	614,064
Contingency	634,121	646,803	659,739	672,934	686,393	700,121	714,123	728,406	742,974	757,833
	72,918,232	74,250,048	75,610,539	76,998,241	78,413,697	79,857,461	81,330,101	82,832,194	84,364,329	85,927,106
OPERATING CASHFLOW	62,189,880	62,230,580	62,857,568	63,497,416	64,063,108	64,128,358	64,289,207	64,981,799	65,687,889	66,408,462
DEBT SERVICE REQUIREMENTS										
Principal Payment on Debt	11,237,270	12,106,961	13,035,898	14,040,663	15,128,370	16,294,278	17,647,866	18,900,983	20,363,108	21,934,240
Interest Payment	11,524,318	10,641,134	9,690,012	8,666,666	7,562,052	6,373,306	5,092,984	3,714,068	2,228,555	628,409
	22,761,588	22,748,095	22,725,908	22,706,329	22,690,422	22,667,583	22,640,850	22,615,049	22,691,663	22,662,649
CASHFLOW BEFORE OTHER ITEMS	39,428,293	39,482,485	40,131,659	40,791,087	41,372,687	41,458,776	41,648,357	42,366,750	43,096,226	43,845,813
OTHER ITEMS:										
Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(10,506,606)	(10,716,738)	(10,931,073)	(11,149,695)	(11,372,689)	(11,600,142)	(11,832,145)	(12,068,788)	(12,310,164)	(12,566,367)
Working Capital/Other	0	0	0	0	0	0	0	0	0	0
	(10,506,606)	(10,716,738)	(10,931,073)	(11,149,695)	(11,372,689)	(11,600,142)	(11,832,145)	(12,068,788)	(12,310,164)	(12,566,367)
DEBT RESERVE										
Release of Debt Reserve										0
Refinancing Proceeds										
DISTRIBUTABLE CASHFLOW	28,921,688	28,765,746	29,200,586	29,641,392	29,999,998	29,858,632	29,816,212	30,297,962	30,786,062	31,289,446
EQUITY AMOUNT INVESTED:	\$ (118,468,832)	28,921,688	29,200,586	29,641,392	29,999,998	29,858,632	29,816,212	30,297,962	30,786,062	31,289,446
Pre-Tax IRR of Equity (20 years)										
CASH FLOW DISTRIBUTION										
OUTSIDE Pre-Tax IRR to Equity (20 year)	74.60%	\$ (118,468,832)	21,546,656	21,430,461	21,754,437	22,082,837	22,349,999	22,244,681	22,213,078	22,571,981
Total Outside Cash Flow (20% remaining)	\$ (118,468,832)	23,021,662	22,897,534	23,243,656	23,594,548	23,879,999	23,787,471	23,733,705	24,117,177	24,505,706
USA Power Partners @ (10% of Remaining Cash Flow)		5,900,024	5,868,212	5,956,920	6,046,844	6,120,000	6,091,161	6,082,507	6,180,784	6,280,357

4/2/03

10108

PROJECT: SPRING / 7N
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

\$355,442,041

4/2/03

TOTAL PROJECT COST

\$355,442,041

PRESENT VALUE OF USA CASH FLOW
 DISCOUNT RATE
 PRESENT VALUE

1.10

	11	12	13	14	15	16	17	18	19	20
	2016	2016	2017	2018	2018	2020	2021	2022	2023	2024

2,349,912	2,124,765	1,960,804	1,809,458	1,864,863	1,506,380	1,367,490	1,263,269	1,166,919	1,078,181	
44,805,383	46,930,148	48,890,952	50,700,410	52,365,273	53,871,652	55,239,143	56,602,402	57,669,321	58,747,502	

20 Year Present Value

SENIOR DEBT SERVICE

INTEREST RATES
 Treasury Bond rate
 Interest Rate Spreads
 Effective Years

AMORTIZATION SCHEDULE

Tranche A

	1.15%	1.24%	1.34%	1.44%	1.55%	1.67%	1.80%	1.94%	2.09%	2.25%
QRT#1 Percentage Amortization	1.17%	1.27%	1.36%	1.47%	1.58%	1.70%	1.83%	1.98%	2.13%	2.31%
QRT#2 Percentage Amortization	1.20%	1.29%	1.39%	1.50%	1.61%	1.74%	1.87%	2.01%	2.17%	2.34%
QRT#3 Percentage Amortization	1.22%	1.31%	1.41%	1.52%	1.64%	1.77%	1.90%	2.06%	2.21%	2.38%
QRT#4 Percentage Amortization										
Total	4.74%	5.11%	5.50%	6.93%	8.38%	6.88%	7.41%	7.98%	8.59%	9.26%

PRINCIPAL PAYMENTS

	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A
QRT#1 Principal	2,732,301	2,943,207	3,168,332	3,412,414	3,677,824	3,959,822	4,265,618	4,594,911	4,950,370	5,331,897
QRT#2 Principal	2,782,065	2,997,711	3,227,575	3,476,397	3,746,548	4,035,654	4,346,089	4,680,221	5,042,790	5,431,426
QRT#3 Principal	2,834,200	3,054,585	3,289,188	3,542,749	3,815,269	4,111,485	4,426,660	4,767,901	5,137,579	5,533,324
QRT#4 Principal	2,886,703	3,111,468	3,350,801	3,609,102	3,888,730	4,187,317	4,509,800	4,857,951	5,232,368	5,637,593
Total Principal	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Beginning Balance	160,615,701	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307
Payments	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Ending Balance	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307	26,067

PRINCIPAL PAYMENTS

	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A	Tranche A
QRT#1 Principal	2,732,301	2,943,207	3,168,332	3,412,414	3,677,824	3,959,822	4,265,618	4,594,911	4,950,370	5,331,897
QRT#2 Principal	2,782,065	2,997,711	3,227,575	3,476,397	3,746,548	4,035,654	4,346,089	4,680,221	5,042,790	5,431,426
QRT#3 Principal	2,834,200	3,054,585	3,289,188	3,542,749	3,815,269	4,111,485	4,426,660	4,767,901	5,137,579	5,533,324
QRT#4 Principal	2,886,703	3,111,468	3,350,801	3,609,102	3,888,730	4,187,317	4,509,800	4,857,951	5,232,368	5,637,593
Total Principal	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Beginning Balance	160,615,701	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307
Payments	11,237,270	12,106,961	13,035,896	14,040,663	15,128,370	16,294,278	17,547,866	18,900,983	20,363,108	21,934,240
Period Ending Balance	149,378,432	137,271,470	124,235,574	110,194,912	95,066,542	78,772,264	61,224,398	42,323,415	21,960,307	26,067

INTEREST PAYMENTS

	11	12	13	14	16	16	17	18	19	20
Interest Rate on Debt (swap amount)	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%	4.60%	4.50%	4.50%	4.50%
Spread	3.000%	3.000%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
All-in Rate	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%
QRT#1 Interest	2,960,314	2,745,660	2,514,434	2,265,434	1,997,195	1,708,251	1,397,001	1,061,803	700,746	311,783
QRT#2 Interest	2,908,150	2,689,453	2,453,917	2,200,252	1,926,948	1,632,882	1,315,512	974,049	606,192	209,943
QRT#3 Interest	2,855,009	2,632,180	2,392,245	2,133,825	1,855,411	1,555,492	1,232,512	884,651	509,863	106,194
QRT#4 Interest	2,800,846	2,573,840	2,329,417	2,066,165	1,782,498	1,476,980	1,147,957	793,564	411,756	489
Total Interest	11,524,318	10,641,134	9,690,012	8,665,666	7,562,052	6,373,306	5,092,984	3,714,066	2,228,555	628,409
Annual Admin	-	-	-	-	-	-	-	-	-	-
LOC Fee Payment	0	0	0	0	0	0	0	0	0	0
Total Interest and Fees	11,524,318	10,641,134	9,690,012	8,665,666	7,562,052	6,373,306	5,092,984	3,714,066	2,228,555	628,409

DEBT RESERVE

Beginning	0	0	0	0	0	0	0	0	0	0
Addition	0	0	0	0	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

Debt Coverage Ratio

2.732	2.736	2.766	2.796	2.823	2.829	2.840	2.873	2.908	2.943	
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WORKING CAPITAL RESERVE

Beginning	0	0	0	0	0	0	0	0	0	0
Addition to working capital	0	0	0	0	0	0	0	0	0	0
Ending	0	0	0	0	0	0	0	0	0	0

100000

4/2/03

OBJECT: SPRING ON
 ANCIAL PROJECT
 CONFIGURATION
 TAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2028	2030	2031	2032	2033	2034

4/2/03

SUMPTIONS-REVENUE

A. ELECTRIC ENERGY REVENUE

1. MW BASE CAPACITY	420	420	420	420	420	420	420	420	420	420
MW PEAKING CAPACITY	100% 539	539	539	539	539	539	539	539	539	539
2. ANNUAL OPERATING HOURS										
18 hr/d, 5d/wk, 62 wk/yr	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Total Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Cumulative Equivalent Operating Hours	102,713	107,393	112,073	116,753	121,433	126,113	130,793	135,473	140,153	144,833
3. TOTAL NUMBER OF STARTS	260	260	260	260	260	260	260	260	260	260
4. KWH SOLD 000's										
KWH	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
	0	0	0	0	0	0	0	0	0	0
Total kWh Sold	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846

P1107

PROJECT: SPRING
 FINANCIAL PROJECT,
 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
B. CAPACITY REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Capacity Payment	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00	\$102.00
Total Capacity Revenue	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960
C. FIXED O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Fixed O&M Payment (\$19.018/kw.yr)	\$29,401	\$29,989	\$30,589	\$31,201	\$31,825	\$32,461	\$33,110	\$33,772	\$34,448	\$35,137
Escalates with General Inflation										
Total Fixed O&M Revenue	12,362,514	12,609,764	12,861,959	13,119,198	13,381,682	13,649,214	13,922,198	14,200,642	14,484,655	14,774,348
D. VARIABLE O&M REVENUE										
Base Capacity MW	420	420	420	420	420	420	420	420	420	420
Total Cumulative Operating Hours	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680	4,680
Variable O&M Payment (\$4.410/mw.h)	\$6,818	\$6,954	\$7,093	\$7,235	\$7,380	\$7,527	\$7,678	\$7,831	\$7,988	\$8,148
Escalates with General Inflation										
Total Variable O&M Revenue	13,416,845	13,684,162	13,957,845	14,237,002	14,521,742	14,812,177	15,108,421	15,410,589	15,718,801	16,033,177
E. HEAT RATE BONUS/PENALTY										
Heat Rate Differential	300.00	2,991,870	3,016,630	3,102,494	3,169,467	3,217,579	3,276,854	3,337,314	3,398,983	3,461,885
300 btus /kwh*op hrs*kw/1000*gas price										
Total Heat Rate Bonus/Penalty		2,991,870	3,016,630	3,102,494	3,169,467	3,217,579	3,276,854	3,337,314	3,398,983	3,461,885
F. FUEL PAYMENT (Pass Through)										
Total Fuel Payment	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,356,498	84,899,119	86,472,592
G. START-UP BONUS										
START-UP REVENUE FACTOR										
# of On Time Starts	130	130	130	130	130	130	130	130	130	130
\$ 20,000/On Time Start	30,920	31,538	32,169	32,812	33,468	34,138	34,820	35,517	36,227	36,952
Total Start-Up Revenue	4,019,647	4,099,938	4,181,937	4,265,576	4,350,887	4,437,905	4,526,663	4,617,198	4,709,540	4,803,731
H. AVAILABILITY BONUS										
Bonus Factor (\$1,000,000/% avail.>90%)	1,546,980	1,576,899	1,608,437	1,640,606	1,673,418	1,706,886	1,741,024	1,776,845	1,811,362	1,847,589
Bonus Factor Earned	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Availability Bonus	3,864,949	3,942,248	4,021,093	4,101,515	4,183,546	4,267,216	4,352,551	4,439,512	4,528,404	4,618,972

4/2/03

P100M

PROJECT: SPRING ON
 FINANCIAL PROJECT
 2x1 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30
	<u>1,958,442,847</u>									
	<u>2025</u>	<u>2028</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>

4/2/03

ASSUMPTIONS EXPENSES

A FUEL										
1 FUEL CONSUMPTION										
Base Heat Rate 7159 Btu/kwh.(HHV)	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159	7,159
KWH Produced (000 s)	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846	1,967,846
Fuel Usage-Before Start-Up Gas (000 \$/mmBtu (HHV))	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088	14,088
Start-Up Gas (Hot Start) 750mmBtu \$/(turbine/s)	390	390	390	390	390	390	390	390	390	390
TOTAL GAS USED IN OPERATIONS	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478	14,478
2 FUEL COST PER UNIT										
Rate \$/mmBtu (HHV) \$3.00	4.638	4.731	4.825	4.922	5.020	5.121	5.223	5.326	5.434	5.543
Transportation \$/mmBtu (HHV)	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
TOTAL FUEL PRICE	5.068	5.161	5.255	5.352	5.450	5.551	5.653	5.758	5.864	5.973
TOTAL FUEL EXPENSE	73,372,670	74,716,814	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,358,498	84,899,119	86,472,692
B VARIABLE COSTS										
Chemical Lubricant & Ammonia Cost (\$/Mwh)	0.3183	0.3247	0.3311	0.3370	0.3445	0.3514	0.3584	0.3656	0.3729	0.3804
Contingency (\$/Mwh)	0.4863	0.4950	0.5049	0.5150	0.5253	0.5358	0.5465	0.5575	0.5686	0.5800
C FIXED COSTS										
Property and Other Taxes 1.1600%	3,898,400	3,976,368	4,055,895	4,137,013	4,219,754	4,304,149	4,390,232	4,478,036	4,567,597	4,658,949
O&M Labor	2,612,217	2,662,461	2,613,711	2,665,985	2,719,304	2,773,691	2,829,164	2,885,748	2,943,463	3,002,332
Compliance & Professional Fees	386,495	394,226	402,109	410,151	418,355	426,722	435,256	443,981	452,840	461,897
General & Administrative (GP)	1,159,485	1,182,674	1,206,328	1,230,454	1,255,064	1,280,165	1,305,768	1,331,884	1,358,621	1,385,692
Operator Fee	463,794	473,070	482,531	492,182	502,025	512,066	522,307	532,753	543,408	554,277
Operator Bonus	1,159,485	1,182,674	1,206,328	1,230,454	1,255,064	1,280,165	1,305,768	1,331,884	1,358,621	1,385,692
Management Fee (GP)	386,495	394,226	402,109	410,151	418,355	426,722	435,256	443,981	452,840	461,897
Insurance	2,782,763	2,838,419	2,895,187	2,953,091	3,012,153	3,072,398	3,133,844	3,196,520	3,260,451	3,325,660
Contingency	772,990	788,460	804,219	820,303	836,708	853,443	870,612	887,922	905,681	923,794

116930
 10100

OBJECT: SPRING MON
 FINANCIAL PROJECT
 1 CONFIGURATION
 TOTAL PROJECT COST

3366,442,041

4/2/03

D. VARIABLE O&M RESERVE

ANNUAL OVERHAUL RESERVES

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
GT Insp/OH Reserve \$806	9,666,107	9,859,429	10,056,618	10,257,750	10,462,905	10,672,163	10,885,606	11,103,318	11,325,385	11,551,892
\$666/hr /turbine x 2	0	0	0	0	0	0	0	0	0	0
ST Insp/OH Reserve \$187	1,162,797	1,186,053	1,209,774	1,233,969	1,258,648	1,283,821	1,309,498	1,335,688	1,362,402	1,389,650
\$ 9 million /56,000 hrs										
SCR Replacement Reserve \$173	1,205,864	1,229,981	1,254,581	1,279,673	1,305,266	1,331,371	1,357,999	1,385,159	1,412,862	1,441,119
\$8 million /36,000 hrs										
Misc. Contingency 0.2643	772,727	788,181	803,945	820,024	836,425	853,163	870,216	887,620	905,373	923,480
\$0.2540 /Mph										

ANNUAL RESERVE ACTIVITY

GAS TURBINE	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	45,560,803	9,666,107	19,525,536	29,582,153	39,839,903	50,302,808	10,672,163	21,557,769	32,661,088	43,986,472
Annual Accrual	9,666,107	9,859,429	10,056,618	10,257,750	10,462,905	10,672,163	10,885,606	11,103,318	11,325,385	11,551,892
Reserves Used	(45,560,803)					(50,302,808)				(43,986,472)
Ending Balance	9,666,107	19,525,536	29,582,153	39,839,903	50,302,808	10,672,163	21,557,769	32,661,088	43,986,472	11,551,892

STEAM TURBINE	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	10,444,919	1,162,797	2,348,849	3,658,623	4,792,592	6,051,240	7,335,061	8,644,559	9,980,247	11,342,649
Annual Accrual	1,162,797	1,186,053	1,209,774	1,233,969	1,258,648	1,283,821	1,309,498	1,335,688	1,362,402	1,389,650
Reserves Used	(10,444,919)									(11,342,649)
Ending Balance	1,162,797	2,348,849	3,558,623	4,792,592	6,051,240	7,335,061	8,644,559	9,980,247	11,342,649	1,389,650

SCR	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	6,754,565	7,960,429	1,229,981	2,484,562	3,764,235	5,059,501	6,400,873	7,758,872	9,144,030	1,412,862
Annual Accrual	1,205,064	1,229,981	1,264,581	1,279,673	1,305,266	1,331,371	1,367,999	1,305,159	1,412,862	1,441,119
Reserves Used		(7,960,429)							(9,144,030)	
Ending Balance	7,960,429	1,229,981	2,484,562	3,764,235	5,059,501	6,400,873	7,758,872	9,144,030	1,412,862	2,853,961

MISC CONTINGENCY	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	1,500,296	772,727	1,560,908	803,945	1,623,969	836,425	1,689,578	870,216	1,767,836	905,373
Annual Accrual	772,727	700,101	803,945	820,024	836,425	853,163	870,216	887,620	905,373	923,480
Reserves Used	(1,500,296)		(1,560,908)		(1,623,969)		(1,689,578)		(1,767,836)	
Ending Balance	772,727	1,560,908	803,945	1,623,969	836,425	1,689,578	870,216	1,767,836	905,373	1,828,853

TOTAL OVERHAUL RESERVE	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Beginning Balance	64,260,683	19,562,059	24,665,276	36,429,284	50,020,699	62,259,974	26,097,675	38,831,416	53,543,202	57,647,356
Annual Accrual	12,807,495	13,063,544	13,324,917	13,591,415	13,863,244	14,140,509	14,423,319	14,711,785	15,006,021	15,306,142
Reserves Used	(57,505,019)	(7,960,429)	(1,660,808)	0	(1,623,969)	(50,302,808)	(1,689,578)	0	(10,901,867)	(56,329,121)
Ending Balance	19,562,059	24,665,276	36,429,284	50,020,699	62,259,974	26,097,675	38,831,416	53,543,202	57,647,356	17,624,376

DEBT RESERVE (FROM BELOW)	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	0	0	0	0	0	0	0	0	0	0
WORKING CAP RESERVE (BELOW)	0	0	0	0	0	0	0	0	0	0

TOTAL RESERVE FUNDS	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	19,562,060	24,665,276	36,429,285	50,020,701	62,259,975	26,097,676	38,831,418	53,543,203	57,647,357	17,624,378

INTEREST INCOME	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
2.60%	1,047,783	652,842	763,682	1,080,625	1,403,508	1,104,471	811,614	1,164,683	1,389,882	940,897

ESCALATION FACTORS

GAS ESCALATION	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
GENERAL INFLATION	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
PROPERTY TAXES	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

10/1/03

PROJECT: SPRING ... ON
 FINANCIAL PROJECT
 XI CONFIGURATION
 TOTAL PROJECT COST

306,442,041

4/2/03

INCOME AND CASHFLOW STATEMENT

ELECTRIC REVENUE:

	21	22	23	24	25	26	27	28	29	30
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Capacity Sales	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960	42,888,960
Fixed O&M Revenue	12,362,514	12,609,764	12,861,959	13,119,198	13,381,582	13,649,214	13,922,198	14,200,642	14,484,855	14,774,348
Variable O&M Revenue	13,415,845	13,884,162	13,957,845	14,237,002	14,521,742	14,812,177	15,108,421	15,410,589	15,718,801	16,033,177
Heat Rate Bonus/Penalty	2,991,878	3,046,638	3,102,494	3,159,467	3,217,679	3,276,854	3,337,314	3,398,983	3,461,885	3,526,046
Fuel Payment	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,358,498	84,899,119	86,472,592
Availability Bonus Payment	4,019,547	4,099,938	4,181,937	4,265,676	4,350,887	4,437,805	4,526,663	4,617,196	4,709,540	4,803,731
Startup Bonus Payment	3,864,949	3,942,248	4,021,093	4,101,516	4,183,545	4,267,216	4,352,581	4,439,612	4,528,404	4,618,972
	152,916,393	154,987,325	157,099,706	159,254,335	161,452,056	163,693,732	165,980,241	168,312,480	170,691,264	173,117,826
INTEREST REVENUE	1,047,783	552,842	763,682	1,080,625	1,403,608	1,104,471	811,614	1,154,883	1,388,882	940,897
TOTAL REVENUE	153,964,146	155,540,167	157,863,388	160,334,959	162,855,664	164,798,202	166,791,854	169,467,163	172,081,246	174,058,723

OPERATING EXPENSES

Fuel Costs	73,372,670	74,715,614	76,085,417	77,482,617	78,907,760	80,361,406	81,844,125	83,358,498	84,899,119	86,472,592
Property and Other Taxes	3,898,400	3,976,368	4,055,895	4,137,013	4,219,754	4,304,149	4,390,232	4,478,036	4,567,597	4,658,949
O&M Labor	2,512,217	2,562,461	2,613,711	2,665,985	2,719,304	2,773,691	2,829,164	2,885,748	2,943,463	3,002,332
Compliance & Professional Fees	386,495	394,225	402,109	410,151	418,355	426,722	435,256	443,961	452,840	461,897
General & Administrative	1,159,485	1,182,674	1,206,328	1,230,454	1,255,064	1,280,165	1,305,768	1,331,884	1,358,621	1,385,692
Operator Fee	463,794	473,070	482,531	492,182	502,025	512,066	522,307	532,753	543,408	554,277
Operator Bonus	1,159,485	1,182,674	1,206,328	1,230,454	1,255,064	1,280,165	1,305,768	1,331,884	1,358,621	1,385,692
Management Fee	386,495	394,225	402,109	410,151	418,355	426,722	435,256	443,961	452,840	461,897
Insurance	2,782,763	2,838,419	2,895,187	2,953,091	3,012,153	3,072,396	3,133,844	3,196,620	3,260,451	3,325,660
Chem, Lubricant & Ammonia	628,346	638,873	651,650	664,683	677,977	691,636	705,667	719,474	733,864	748,541
Contingency	772,990	788,450	804,219	820,303	836,709	853,443	870,612	887,922	905,681	923,794
	87,521,139	89,147,053	90,805,485	92,497,085	94,222,518	95,982,459	97,777,599	99,608,642	101,476,305	103,381,322
OPERATING CASHFLOW	66,443,007	66,393,114	67,057,903	67,837,874	68,633,047	68,815,743	69,014,255	69,858,621	70,604,941	70,677,401

DEBT SERVICE REQUIREMENTS

Principal Payment on Debt	0	0	0	0	0	0	0	0	0	0
Interest Payment	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

CASHFLOW BEFORE OTHER ITEMS

	66,443,007	66,393,114	67,057,903	67,837,874	68,633,047	68,815,743	69,014,255	69,858,621	70,604,941	70,677,401
OTHER ITEMS:										
Fees Payment	0	0	0	0	0	0	0	0	0	0
Contribution to Reserves	(12,807,495)	(13,063,644)	(13,324,917)	(13,591,416)	(13,863,244)	(14,140,609)	(14,423,319)	(14,711,785)	(15,006,021)	(15,306,142)
Working Capital/Other	0	0	0	0	0	0	0	0	0	0
	(12,807,495)	(13,063,644)	(13,324,917)	(13,591,416)	(13,863,244)	(14,140,609)	(14,423,319)	(14,711,785)	(15,006,021)	(15,306,142)

DEBT RESERVE

Release of Debt Reserve										
Refinancing Proceeds										
DISTRIBUTABLE CASHFLOW	53,635,512	53,329,469	53,732,986	54,246,459	54,769,803	54,675,234	54,590,936	55,146,736	55,598,920	55,371,259

EQUITY AMOUNT INVESTED:

Pre-Tax IRR of Equity (20 years)	\$ (118,468,832)	53,635,512	53,329,469	53,732,986	54,246,459	54,769,803	54,675,234	54,590,936	55,146,736	55,598,920	55,371,259
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CASH FLOW DISTRIBUTION

OUTSIDE Pre-Tax IRR to Equity (20 year)											
74.50%	\$ (118,468,832)	39,958,457	39,730,455	40,031,074	40,413,612	40,803,603	40,733,050	40,570,248	41,084,318	41,421,195	41,261,688
Total Outside Cash Flow (20% remaining)	\$ (118,468,832)	42,693,868	42,450,258	42,771,457	43,180,181	43,696,763	43,521,487	43,454,385	43,896,802	44,256,740	44,075,522

USA Power Partners @ (50% of Remaining Cash Flow)	10,941,645	10,879,212	10,961,629	11,086,278	11,173,040	11,153,748	11,136,551	11,249,934	11,342,180	11,295,737
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101089

PROJECT: SPRING
 FINANCIAL PROJECT
 CONFIGURATION
 TOTAL PROJECT COST

	21	22	23	24	25	26	27	28	29	30	
	2025	2026	2027	2028	2028	2030	2031	2032	2033	2034	4/2/03

TOTAL PROJECT COST \$355,442,041

PRESENT VALUE OF USA CASH FLOW
 DISCOUNT RATE 1.10
 PRESENT VALUE

1,680,171	1,518,713	1,391,095	1,276,716	1,171,849	1,063,478	965,307	886,486	812,505	809,178
60,427,673	61,946,386	63,337,481	64,614,197	65,786,046	66,849,524	67,814,831	68,701,317	69,513,822	70,323,000

20 Year Present Value

FOR DEBT SERVICE
 INTEREST RATES
 Treasury Bond Rate
 Interest Rate Spreads
 Effective Years

AMORTIZATION SCHEDULE
 QRTR #1 Percentage Amortization
 QRTR #2 Percentage Amortization
 QRTR #3 Percentage Amortization
 QRTR #4 Percentage Amortization

Tranche A

Total

PRINCIPAL PAYMENTS

QRTR #1 Principal	Tranche A	0
QRTR #2 Principal	Tranche A	0
QRTR #3 Principal	Tranche A	0
QRTR #4 Principal	Tranche A	0

Total Principal

Period Beginning Balance
 Payments

Period Ending Balance

PRINCIPAL PAYMENTS

Tranche A
 QRTR #1 Principal
 QRTR #2 Principal
 QRTR #3 Principal
 QRTR #4 Principal

Total Principal

Period Beginning Balance
 Payments

Period Ending Balance

INTEREST PAYMENTS

Interest Rate on Debt (swap amount)
 Spread
 All-in Rate

QRTR #1 Interest
 QRTR #2 Interest
 QRTR #3 Interest
 QRTR #4 Interest

Total Interest
 Annual Admin
 LOC Fee Payment
 Total Interest and Fees

DEBT RESERVE

Beginning
 Addition
 Ending

Debt Coverage Ratio

WORKING CAPITAL RESERVE

Beginning
 Addition to working capital
 Ending

DR
 1000000000

Tab 6

CONFIDENTIAL



USA Power Partners LLC

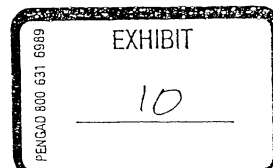
Preliminary Offering Memorandum

Spring Canyon Energy LLC

450 Mw Natural Gas Fired,
Combined-Cycle Power Facility,
With Duct-Firing Capability for an
Additional 80 MW

Located in Juab County, Utah
With interconnection to the Western US RTO
Via the Mona (PacifiCorp) Substation

August 2002



PRELIMINARY OFFERING MEMORANDUM

SPRING CANYON ENERGY LLC

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PROJECT SUMMARY

SPRING CANYON ENERGY LLC

Project Facility Description

Spring Canyon Energy LLC ("SCE LLC") is developing the Spring Canyon Energy Project ("SCEP") as a base-load natural gas-fired combined cycle power generation facility. SCEP will have a nominal generating capacity of 420Mw utilizing two General Electric Frame 7-FA gas turbines each driving an electrical generator. The gas turbines will be fitted with air inlet chillers, which allow for additional power production when ambient air temperatures exceed 59° F. The exhaust of the gas turbines, augmented with additional heat when appropriate from natural gas-fired duct burners, will be directed to two heat recovery steam generators ("HRSGs"). The steam produced by the HRSGs will then drive a single steam turbine electrical generator to create additional "combined cycle" power. While a typical "2 on 1" arrangement is probable, the option to configure the facility with two "1 on 1" equipment trains is available. With the use of duct burners, power output can be boosted by up to 119Mw for a total plant capacity of 539Mw at 59°F. An air-cooled condenser will condense steam turbine exhaust into water for return to the HRSGs. Employing an air-cooled condenser greatly reduces SCEP's water usage requirements.

Project performance curves providing net plant output and net plant heat rate information are attached to a Waldron Engineering report describing the impacts of a "2 on 1" configuration versus the two "1 on 1" arrangement. The Waldron report also provides a summary of project cost and is included in Section 2. Conceptual engineering drawings showing the site plan and general arrangements are included in Section 5.

With regards to air emissions, SCEP is being configured with Lowest Achievable Emission Rate ("LAER") technology to control NO_x, CO and other criteria pollutants. NO_x emissions in the turbine exhaust will be controlled to 15ppm with Dry-Lo NO_x combustion technology prior to passing through Selective Catalytic Reduction ("SCR") NO_x catalyst. NO_x emissions will be controlled to 2.0ppm with the SCR and CO emissions will be controlled to 4.0ppm without the use of CO catalyst. In addition, SCEP will employ zero water discharge technology and therefore will have no liquid discharges to the surrounding environment.

Project permits are being secured in a manner, which would allow a phased approach to construction whereby one gas turbine/steam turbine could be constructed and operated prior to the construction of the second gas turbine/steam turbine. Discussions are in progress with several potential long-term power purchasers, which will determine if a phased approach will be employed.

Project Location

Spring Canyon Energy LLC's facility will be located 82 miles south of Salt Lake City, Utah, on 40 acres of currently undeveloped agriculture land approximately 2 miles west of the small community of Mona, Utah, and 0.75 miles north of the pivotal Mona Switching Station. PacifiCorp, the Los Angeles Department of Water & Power ("LADWP"), and the Deseret Generation & Transmission Co-op ("Deseret") jointly own the Mona Switching Station and have declared it to be an "open bus," meaning the owners conduct business at no cost (i.e. no wheeling charges). This provides SCEP with an uncommon marketing opportunity. Output from SCEP can literally access seven distinct power markets. Site aerials photos and topographical maps are included in Section 4.

Strategic Advantages

The Spring Canyon Energy LLC proposed generation facility is situated in the heart of the Western Electricity Coordinating Council ("WECC" formally the Western System Coordinating Council or "WSCC") and adjacent to the major power market in Utah, Salt Lake City. It's close proximity to the Mona Switching Station allows power to be distributed to generation deficient markets in Arizona, northern Nevada, southern Nevada, southern California, Idaho, Colorado and potentially, as far as the Pacific northwest region. The Mona Switching Station, which is owned by PacifiCorp, the LADWP, and Deseret, is located at a vital "crossroads" for power distribution in the western United States. With minimal upgrades, SCEP will be able to send its power point to point to multiple regional markets.

SCEP has access to relatively less costly Rocky Mountain natural gas, which consistently carries a lower burner-tip valuation than natural gas which is marketed for the California markets. SCEP will connect to Questar's Mainline 104 near its point of interconnection with the Kern River pipeline, approximately 10 miles north of the project site, near the small community of Elberta, Utah. Mainline 104 has daily capacity of 262 million cubic feet per day. The SCEP plant will require approximately 85 million cubic feet per day. The ability to access relatively higher priced western power markets combined with an abundance of relatively low priced, Rocky Mountain sourced fuel, ensures that SCEP will have a competitive spark spread advantage over other generators, even those located much closer to major power markets.

The facility will be located in Juab County, a county that is overwhelmingly agricultural in its economic base and whose residents desire the jobs and tax resources that SCEP will provide. Public hearings held in June for rezoning purposes revealed that county officials and the general public overwhelming support the project.

Power Markets

SCEP retained Navigant Consulting, Inc. (Navigant Consulting) to conduct an analysis of the viability of the principal power markets most easily accessible from SCEP and to help secure tolling agreements or off-take contracts. SCEP is presently discussing such sales arrangements with several of the most financially secure power purchasing entities in those regional markets. These discussions confirm that the need for new generating capacity has been masked by the economic recession and the mild temperatures associated with the 2001-2002 winter. The view of the markets is consistent in that an economic recovery will increase demand causing rising prices for natural gas and electricity. Additionally, a return to a normal weather pattern will further increase demand for power and raise prices. Finally, the Federal Energy Regulatory Commission (FERC) "cap" on electric wholesale prices in the WECC is scheduled to end on October 1, 2002, which may also lead to higher prices in the entire region.

The Navigant Consulting Market Assessment, which is attached as Section 3, concludes that SCEP can serve multiple viable markets with credit-worthy purchasers with resource or reserve deficiencies in the 10-year planning horizon. Among others, these markets include southern California, northern Nevada and Utah.

The turbulent marketplaces in California and the western United States have led to the cancellation of thousands of megawatts of proposed generation additions. Also, major generation developers have been hit with a credit crunch from too much debt accumulated during the past boom periods and are currently "shelving" proposed new units. This provides an excellent opportunity for SCEP to strategically target markets in addition to Utah.

SCEP's opportunities in southern California are a result of proposed projects being cancelled (in California) or denied siting (in Arizona) coupled with an expected economic recovery in California. SCEP is able to access the southern California marketplace either directly via the Intermountain Power Project direct current transmission line (IPP DC) or alternatively via AC transmission facilities from southern Utah through southern Nevada or Arizona into southern California.

Sierra Pacific Power Company, the investor-owned utility serving northern Nevada has a severe in-area resource deficiency. In fact, northern Nevada must import upwards of 40 percent of its energy requirements from out-of-state. This provides SCEP with a viable market to the immediate west of the Project.

In conclusion, the SCEP facility is strategically located to serve multiple markets. The project will be the lowest cost producer of natural gas fired generation in the western region, utilizing Rocky Mountain gas reserves. In addition, SCEP's generation will come on-line in a timeframe consistent with projection of significant market resurgence.

Air Permit

The Utah Division of Air Quality ("UDAQ") is currently reviewing the air permit application for the SCE facility, which was submitted in February 2002. Issuance of the final permit is expected in the August/September 2002 timeframe. While a detailed analysis of the status of the air permit from Dr. Ted D. Guth dated July 1, 2002 and the permit application are attached in Section 7, highlights of the permit application include the following:

- It is anticipated that SCEP will have a great deal of operational flexibility,
- The operations will be "tons limited" versus "hours limited,"
- The facility will not have limitations on the number of startups, or the number of hours of gas turbine operation, however, duct burner operation will not be unlimited, (i.e. operating the duct burner at its full output [119Mw] would be limited to 1388 hours per year).

Electric Interconnection

Spring Canyon Energy will interconnect with the PacifiCorp system at the Mona Switching Station. The Mona Switching Station provides the flexibility to interconnect with any of the station's owners. The station is an open bus and interconnecting with PacifiCorp allows SCEP to conduct business with LADWP or Deseret Electric Co-op without any additional transmission cost. A request for interconnection was submitted to PacifiCorp in October 2001 and final resolution is expected soon. ABB was retained to perform an Interconnection Fatal Flaw Analysis, which is included in Section 4. Based on the ABB analysis and discussions with PacifiCorp, it is anticipated that the interconnection will require a minimal upgrade. The ABB analysis can be summarized as follows:

There are five power transfer scenarios (directions) from the Mona Switching Station. Of these, four are unconstrained or require minimal upgrades allowing SCEP access to multiple markets.

SCEP has retained Navigant Consulting to assist with the final discussions with PacifiCorp.

Water

SCEP has completed the negotiations of the purchase of 551 acre-feet (gross) of water rights with 167 (gross) acre-feet under contract and 384 acre-feet awaiting final signature. A letter provided by Jody Williams, esq., of Kruse, Landa & Maycock date July 1, 2002, describes in detail the process for gaining state approvals to transfer the purchased water rights to the project location. This letter is attached in Section 8. The transfer is expected without delay, however, there will be a reduction in the allowed used by up to 44% in

order to shift from an agricultural use to an industrial use. Assuming the maximum reduction action is taken by Utah, a minimum of 308 acre-feet of water will be available to SCEP each year. A letter provided by Waldron Engineering is also attached in Section 8 which provides an analysis of the SCEP water needs under a "worst case" scenario concluding that at most, SCEP will need no more than 270 acre-feet (net) of water per year.

Rezoning

SCEP obtained the final action of Juab County confirming the rezoning of the property on July 1, 2002. The ordinance establishing the industrial zoning classification is attached in Section 9.

Other Permits

A detailed analysis provided by SWCA dated June 20, 2002 is attached in Section 10, and describes the additional permits required for construction. The approvals for which Spring Canyon Energy has yet to apply are routinely issued in Utah for natural gas pipeline and electrical transmission lines.

Next Steps

All of the fundamental aspects of project development have been completed or are viewed to be readily achievable. This includes the air permit, the electrical interconnect, property ownership and rezoning, fuel transport and access easements. At this stage of development, SCEP has turned its primary focus to securing short, medium and long-term power off-take or tolling agreements from credit worthy entities. SCEP has recently completed an analysis of the higher priced power markets accessible from the Mona Switching Station, which was conducted by Navigant Consulting. This analysis provides the strategy for achieving financeable power contracts. It is anticipated that this effort will be the critical path towards the close of construction financing which may be achieved in early 2003.

Simultaneous with the effort to secure off-take customers, SCEP has determined that it is the appropriate time to seek a strategic partner(s) with financial and operational strengths that has the ability to assist with the completion of development and the desire to invest a significant portion of the equity that will be required.

This preliminary offering memorandum is intended to provide a current view of the opportunity provided by Spring Canyon Energy LLC. Detailed information can be provided upon the execution of a confidentiality agreement. For further information, contact:

Mr. F. David Graeber
USA Power Partners LLC
10440 North Central Expressway, Suite 1400
Dallas, Texas 75231
(214) 520-8177
e-mail: fdgraeber@usapowerpartners.com



WALDRON ENGINEERING, INC.
37 Industrial Drive
Exeter, NH 03833

Telephone (603) 772-7153
Facsimile (603) 772-7693

July 1, 2002

Mr Dave Graeber
10440 N. Central Expressway, Suite 1400
Dallas, TX 75231

Subject: 112-02; Spring Canyon Energy, performance analysis and alternative equipment configuration.

Dear Dave:

The current Spring Canyon design philosophy has been to apply what is known in the industry as a "2 on 1" combined cycle equipment arrangement. Current performance data and site layouts reflect this design. The attached performance data sheet and curves are for a GE type 207FA combined cycle with duct firing and inlet chilling.

An alternative design approach that is also widely utilized in the industry is the "1 on 1" combined cycle equipment arrangement wherein a single gas turbine is matched with its own dedicated steam turbine and related equipment. This approach facilitates such matters as dispatching a plant at part load conditions, and phased construction for future expansion. There are currently a number of sites under construction wherein the design utilizes up to four 1 x 1 GT/ST equipment trains.

When a project requires at least two gas turbines, the 2 x 1 GT/ST configuration is a natural choice to consider for several reasons. The primary advantages of a 2 on 1 configuration over two 1 x 1 equipment trains are primarily twofold. a) Slightly better output and heat rate due to the larger scale steam turbine serving two gas turbines, and b) reduced cost through the economy of scale also associated with the application of larger steam cycle equipment. A disadvantage of the 2 x 1 arrangement is seen if the plant is dispatched at part load, where more efficient turn-down operation can be obtained from two 1 x 1 trains. One can envision that at 50% load, the two 1 x 1 equipment train plant can operate at peak efficiency by operating only one GT/ST train. On the other hand, a 2 x 1 plant at half load will be operating off of peak, at a greatly reduced partial load steam turbine condition.

An additional benefit of the 1 x 1 configuration is that the smaller steam turbine may generally allow slightly faster startup times from a cold condition. However, this advantage is somewhat less important because there are means to keep equipment in hot or warm standby condition to avoid lengthy start up times regardless of equipment size.

In evaluating the key differences between a 2 x 1 configuration plant and one containing two 1 x 1 trains, the following information will give one an idea of the comparative performance and cost differentials:

Configuration	Output	Heat Rate	Plant Cost
One 2 x 1 Design	Base	Base	Base
Two 1 x 1 Trains	- 0.75%	+ 0.85%	+ 6% to 8%

July 1, 2002

Using this information, one could expect the rating for a plant comprised of two 1 x 1 trains to be approximately 525,400 kW at 7520 btu/kWh HHV at 59F with duct firing and chillers off. The comparable 2 x 1 plant rating is 529,400 kW at 7457 btu/kWh HHV, determined per the attached performance data sheet:

The following order of magnitude costs have been estimated for a 2 x 1 type plant configuration, exclusive of switchyard and transmission:

EPC Contract Detail		
Civil Work, Foundations & Buildings	\$5,543,990	
Power Island Equipment	\$108,927,290	
Balance of Plant, Mechanical	\$96,248,500	
Balance of Plant, Electrical & Control	\$15,445,000	
Direct Cost Subtotal		\$226,164,780
Spare Parts	\$11,031,040	
Engineering & Construction Management	\$15,831,535	
Contractor's OH & Profit	\$10,576,751	
Contingency	\$22,818,478	
Logistics & Freight	\$992,794	
Tax Allowance	\$0	
Total EPC Contract		\$287,213,376

Based on this, one might expect a two 1 x 1 train plant to be 6 to 8 percent higher in direct cost than that shown for the 2 x 1 configuration, or about \$13.6 mm to \$18.1 mm. These additional costs are primarily associated with duplication of the steam cycle equipment, piping, valves and foundations in the two 1 x 1 train design.

Please give me a call if you would like us to develop more specific information for a 1 x 1 GT/ST design approach.

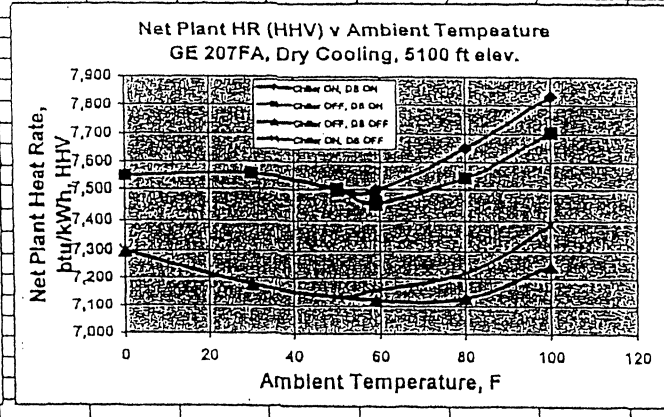
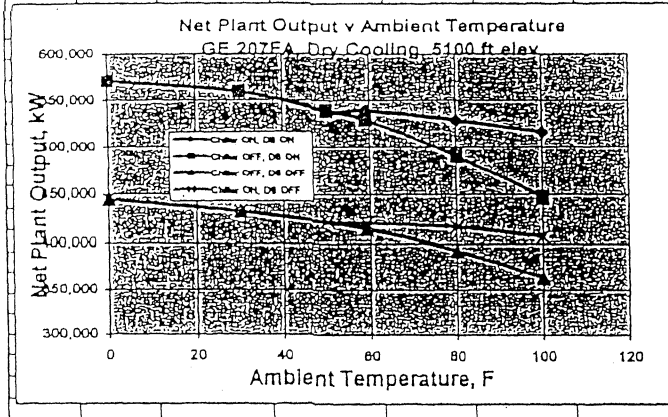
Sincerely,



Raymond F. Racine, PE
 Project Manager
 603-772-7153, Ext 118
 email: rfr@waldroneng.com

Chiller ON (59F - 100F), Duct Burner ON										
Amb T, F	GT Inlet, F	GT kW	ST kW	Aux kW	GT Fuel, mmbtu/hr HHV	DB Fuel, mmbtu/hr HHV	Plant Net kW	Net HR, btu/kWh HHV		
0	0	316,000	259,900	5,200	3,243	1,066	570,700	7,550		
30	30	300,800	263,700	5,400	3,104	1,122	559,100	7,558		
50	50	288,200	255,900	5,400	3,010	1,030	538,700	7,500		
59	50	288,200	258,000	7,170	3,010	1,030	539,030	7,496		
80	50	288,200	249,600	8,640	3,010	1,037	529,160	7,649		
100	50	288,200	237,800	9,800	3,010	1,033	516,200	7,832		
Chiller OFF, and Duct Burner ON										
0	0	316,000	259,900	5,200	3,243	1,066	570,700	7,550		
30	30	300,800	263,700	5,400	3,104	1,122	559,100	7,558		
50	50	288,200	255,900	5,400	3,010	1,030	538,700	7,500		
59	59	281,400	253,400	5,400	2,953	994	529,400	7,457		
80	80	260,600	235,100	5,200	2,797	903	490,500	7,543		
100	100	239,000	212,500	5,000	2,628	812	446,500	7,704		
Chiller OFF and Duct Burner OFF										
0	0	316,000	132,000	3,700	3,243	Off	444,300	7,299		
30	30	300,800	135,300	3,700	3,104	Off	432,400	7,178		
59	59	281,400	137,000	3,700	2,953	Off	414,700	7,122		
80	80	260,600	135,500	3,800	2,797	Off	392,300	7,130		
100	100	239,000	127,500	3,800	2,628	Off	362,700	7,245		
Chiller ON and Duct Burner OFF										
0	0	316,000	132,000	3,700	3,243	Off	444,300	7,299		
30	30	300,800	135,300	3,700	3,104	Off	432,400	7,178		
50	50	288,200	138,900	5,130	3,010	Off	421,970	7,134		
59	50	288,200	137,750	5,470	3,010	Off	420,480	7,159		
80	50	288,200	136,000	7,240	3,010	Off	416,960	7,220		
100	50	288,200	128,000	8,600	3,010	Off	407,600	7,385		

From
 Vol. #1



10/13

MARKET ASSESSMENT
FOR USA POWER'S
SPRING CANYON ENERGY PROJECT

PRIVILEGED AND CONFIDENTIAL

Prepared For

USA POWER

Prepared By



Navigant[™]
CONSULTING, INC.

UNPUBLISHED WORK © JUNE 2002

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EXECUTIVE SUMMARY

Over the past three years, utilities, power marketers, developers, and consumers have endured a "wild-ride" in the electricity markets of the Western Electricity Coordinating Council (WECC). The region has gone from a position in which industry participants, state regulators, and the Federal Energy Regulatory Committee (FERC) believed that the market was resource deficient, spurring a flurry of potential new projects to the Enron debacle, charges of market manipulation, and a credit crunch on developers. This, in turn, has resulted in thousands of megawatts of proposed power projects drying-up across the West. This cycle of events threatens the WECC with additional capacity shortages in the near term if more proposed units are not placed in service or if electricity demand grows at a pace exceeding expectations.

With this background, USA Power, Inc. (USA Power), through Spring Canyon Energy, LLC (Spring Canyon Energy), is proposing the development and construction of a 450 MW natural gas-fired generation unit near the Mona Substation in central Utah. From this location the Spring Canyon Energy Project (Project) will be able to access power markets in a minimum of seven western states. Transmission limitations across PacifiCorp's grid may limit the amount of Spring Canyon Energy Project's output that could reach certain regions. Despite the potential transmission issue there are multiple opportunities for this Project to deliver competitively priced power to specific Market Areas with a need for new resources within the planning horizon of this study.

As discussed in the body of this report, there are two primary target markets, Utah and Southern California, and a secondary market, Northern Nevada. A third opportunity may involve the opportunity for displacement arrangements with PacifiCorp or one or more of its trading partners. Although this report did not evaluate the Colorado or Idaho Market Areas, these may also be potential markets. Based on resource availability and transmission constraints, the Southern Nevada and Arizona Market Areas should be afforded less priority than the other Market Areas analyzed in this study.

Market Area Opportunities

The following is a brief summary of potential opportunities for each Market Area.

Utah Market Area

The Utah Market Area should be a prime target for the output of the Spring Canyon Energy Project. Whether the output is used for sales to Utah Market Area electric utilities or as displacement for transactions with entities located outside of the Utah Market Area the Spring Canyon Energy Project's first market focus should be Utah.

Within the Utah Market Area there are four entities that provide viable opportunities, PacifiCorp, UAMPS, UMPA and Deseret. Obviously, due to the size and the ownership of transmission facilities, the largest opportunity may be with PacifiCorp. PacifiCorp has a number of long-term summer purchases and sales; a summary of these is included in Appendix C (note these are for system-wide and include several purchases and sales for portions of the PacifiCorp system located outside of the Utah Market Area). Based upon existing resources in the Utah Market Area and the expected load growth for the region, PacifiCorp should be looking for additional capacity in the Utah Market Area and the Spring Canyon Energy Project would provide fuel diversity and operational flexibility for the Utah Market Area. Opportunities with PacifiCorp include diversity programs, base load resource, displacement opportunities, operational flexibility, and access to newer technology with a superior heat rate and lower operation and maintenance costs and reduce emissions.

UAMPS provides an interesting opportunity, as collectively the UAMP Members are involved in multiple projects (generation and transmission). The exact level of interest that UAMPS (and its Members may have) is unknown, but for the same reason as PacifiCorp (load growth and diversity) UAMPS is a viable market opportunity.

UMPA and Deseret may also be opportunities in the Utah Market Area; however, based on the size of their loads and existing resources, they warrant attention after PacifiCorp and UAMPS.

Southern California Market Area

The Southern California Market Area provides the other prime market for the Spring Canyon Energy Project. Via the Intermountain DC transmission line, the Project could serve the deep Southern California Market Area. This option becomes even more viable if Southern California municipal utilities were participants and/or purchasers of the output from the Spring Canyon Energy Project. The Members of the Southern California Public Power Agency (SCPPA) own the Intermountain DC transmission line and facilities; the unused capacity on this system (400-500 MW) could be utilized to move output from Spring Canyon to the Southern California Market Area. SCPPA and the Intermountain Power Authority (IPA) are currently examining the options for a third unit at Intermountain; the Spring Canyon Project may prove a viable, diverse fuel option for the owners of IPA. The SCPPA Members represent over 7,500 MW of load and the SCPPA Members do not have the same credit issues plaguing California's investor-owned utilities.

Northern Nevada Market Area

The Northern Nevada Market Area is a very viable market due to its deficiency of in-area generation. However, due to the limited transmission import capability from Utah

to the Nevada Market Area, it is unlikely that a large portion of the output from the Spring Canyon Energy Project could be targeted to the Northern Nevada Market Area. However, regardless of the transmission limitations there are two distinct marketing opportunities: (1) if or when the Falcon-Gondor facilities are constructed, 155 MW of new import capability from Utah would present itself; and (2) opportunities for spot-market sales when transmission capacity is available on the Gondor transmission line.

Southern Nevada Market Area

The Southern Nevada Market Area has sufficient in-area generation and transmission facilities that also lead-into and out-of the market area. Nevada Power Company is a major purchaser of electricity; however, it is not likely a high-priority market for this Project due to inability to obtain transmission access. The best path to the Southern Nevada Market Area for the Spring Canyon Energy Project is the TOT 2C transmission path, which is currently fully subscribed by PacifiCorp. Hence, the only current mechanism to serve the Southern Nevada Market Area would be via some form of exchange with PacifiCorp for access onto TOT 2C.

Arizona Market Area

PacifiCorp has long-term sales to the Arizona Market Area that utilize most, if not all, of the transmission capacity available between Utah and the Arizona Market Areas. Therefore, the best opportunity for the Spring Canyon Energy Project to serve the Arizona Market Area would be via an arrangement with PacifiCorp to displace some of its sales to the Arizona Market Area.

USA Power, through Spring Canyon Energy, is developing a 450 MW base-load natural gas-fired combined cycle power generation facility known as the Spring Canyon Energy Project (Project). The Project will be located in the heart of the WECC and adjacent to the major power market in Utah, Salt Lake City. The Project's close proximity (less than one mile) to the Mona Switching Station will provide access to electricity markets in Arizona, Nevada, southern California, Idaho, Colorado, and the Pacific Northwest.

USA Power has retained the services of Navigant Consulting, Inc. (Navigant Consulting) to assist with a variety of issues relating to the Project, including the development of this Report focusing on a market assessment of specific markets available for the Project. This Report is intended to identify specific markets or utilities that USA Power may then target for the Project (long-term contracts or ownership). The information in this Report may be used by USA Power to initiate discussions and/or negotiations with viable entities in the Market Areas discussed (or entities wishing to serve those Market Areas) for short, medium, and/or long-term contracts.

This report provides USA Power with an assessment of all the Market Areas identified in Navigant Consulting's agreed upon scope of services, including Utah, northern Nevada, southern Nevada, southern California, and Arizona. The purpose of this Report is to assess the ability to access various Market Areas and determine potential current and future energy requirements for the various Market Areas. Specifically, in providing this assessment, this Report provides a discussion of the following elements for each Market Area:

- Description of Market Area
- Market Area Loads and Load Forecast
- Generating Resources (existing and planned)
- Transmission Ownership and Capability
- Load/Resource Balance
- Regional Legislative and Regulatory Issues

A key aspect of Navigant Consulting's preliminary market assessment focuses on the components necessary to develop a load/resource balance for each of the identified Market Areas. Because USA Power is a generator located in the WECC, the development of a load/resource balance will assist in determining the magnitude of surpluses or deficiencies in resources as it is matched against projected load requirements. This approach will assist USA Power in determining potential markets and partners for the Spring Canyon Energy Project.

In addition to the discussion of each of the identified Market Areas, this report also includes an overview of WECC region-wide issues (Section 2). Following the discussion of the individual Market Areas (Sections 3 through 7) is a discussion of energy prices in the WECC (Section 8). Finally this report includes Appendices relevant to the study, Appendix A contains summary tables of the load/resource balances for each region; Appendix B contains a series of transmission maps for the market areas; and Appendix C is a summary of PacifiCorp long-term power sales and purchases.

The power market in the WECC, formerly the Western System Coordination Council (WSCC), has experienced multiple dramatic changes in the past several years. This section discusses how of the turmoil in the western electricity market may impact the Spring Canyon Energy Project and the appearance of the future of the WECC.

Throughout the early and mid-1990s the Federal Energy Regulatory Commission (FERC) embarked on an effort to introduce competition to the wholesale electricity market. FERC began to allow for market-based pricing of wholesale electricity provided that the seller complied with several requirements (e.g. lack of market power and offering of non-discriminatory transmission access to own transmission facilities). A number of states across the nation began to develop programs to bring electricity competition to the retail electricity market.

On March 31, 1998 California became the first state in the Union to offer retail choice to all customers of California's three largest investor-owned utilities. California also created two quasi-governmental organizations to oversee and run the retail electricity market, the California Power Exchange (PX) and the California Independent System Operator (CAISO). For the first few years everything appeared to be functioning well for California as wholesale rates remained in the mid-teens to low-30 dollars per megawatt hour (MWh). However, California's PX prices began to impact the prices elsewhere in the WSCC, moving the prices of the Pacific Northwest and the Desert Southwest closer together and closer to the California price for wholesale electricity.

In the summer of 1999, indications of problems with the California marketplace began to emerge, when wholesale prices stayed above \$30/MWh for May through December, peaking at around \$50/MWh. Then, in April 2000, the price of electricity skyrocketed to over \$100/MWh in California, pulling the rest of the WSCC into the stratospheric price range as well. Prices ultimately peaked in January 2001 at over \$500/MWh.

By the time FERC intervened (June 2001), the California PX was bankrupt, the Pacific Gas and Electric Company (PG&E) had filed for bankruptcy, and several Pacific Northwest utilities and the Southern California Edison Company (SCE) were teetering on bankruptcy. The dramatic increases in prices are attributable to various factors, including faulty market rules in California, supply-demand imbalances, robust energy requirement growth combined with little or no new energy infrastructure, alleged market manipulation by energy companies and traders, and slow response time by state and federal regulators.

In response to requests from California and the Pacific Northwest, on June 19, 2001, FERC imposed "soft" price caps on wholesale power sold in the WSCC-region. FERC imposed these soft caps in an effort to stabilize electricity costs and to also provide the CAISO with time to develop a new market design. The caps are in effect twenty-four hours a day, seven days a week, and apply to all eleven states in the WECC. (For discussions of the price caps please see Section 8 - Prices). Almost immediately after the FERC Order was issued, WSCC energy prices returned to pre-2000 levels. The price cap Order expires at midnight on October 1, 2002.

The CAISO, California Senators, and many other politicians representing western states have urged FERC to extend the price caps. However, FERC Chairman Wood has indicated that he would like to see an end to the price caps to allow market forces the opportunity to work in the WECC region. Therefore, it remains to be seen whether the FERC-imposed price caps will expire on October 1, 2002, or not. It is extremely unlikely that the current price caps will still be in place when the Project comes online. On the other hand, it is conceivable that some form of close market monitoring and controls will be imposed for the WECC by FERC.

Several factors over the past 18 months, including regulatory uncertainty, FERC price caps, balance sheet concerns, and credit worthiness of certain purchasers, have resulted in a major halt on proposed new generation projects in the WECC. In fact, in the five market areas studied, over 16,000 MW of projects that were proposed as late as summer 2001 have been cancelled. In addition, the future of several thousand MW of other proposed projects is uncertain.

The recession of 2001, extremely mild weather during summer 2001, and major conservation programs and potential other reasons lead to a depressed energy requirement for 2001. Most regions within the WECC saw 2001 peak loads and energy requirements drop in 2001 vis-à-vis 2000. It is not expected that the summer 2001 requirements will become the norm. Rather, it is anticipated that 2001 was a unique set of circumstances that are yet to be fully understood and that when the economy recovers, a return to normal weather patterns, and the conservation fervor dies down, electricity consumption will again grow at a steady rate throughout the WECC. Growth is expected to grow more rapidly in Southern Nevada, Arizona and Utah as compared to California.

Prior to the implementation of the price caps, FERC had taken other steps to spur development of new energy infrastructure projects and wholesale competition. Following is a brief discussion of two of these initiatives that impact the WECC-region: Regional Transmission Organizations (RTOs) and generator interconnection standards.

Regional Transmission Organizations

In an effort to provide open, non-discriminatory access to the nation's electric transmission grid, and to provide information transparency, FERC is advocating the creation of RTOs. Of interest to this Project is the proposal for the creation of RTO West, which is currently being developed by nine WECC utilities (Avista, Bonneville Power Administration, Idaho Power Company, Montana Power Company, Nevada Power Company, PacifiCorp, Portland General Electric, Puget Sound Energy, and Sierra Pacific Power Company). RTO West, as a non-profit organization with an independent board of directors, will operate a single control area for all of the participating transmission owners. Depending on the final structure and implementation of RTO West, it may be possible for a generator like the Project (or an entity purchasing the output of the Project) to move the output anywhere within the RTO West region by paying a single "license plate" transmission rate (depending on availability of transmission). In addition, as RTO West and the other proposed RTOs in the WECC (including the CAISO) develop interactions with each other ("seams issues"), the "license plate" approach could extend throughout the WECC.

Generator Interconnection Standards

For the past few years FERC has also been seeking a way to provide incentives for the development and construction of new infrastructure projects (generation and transmission) in the West. On April 24, 2002, FERC issued a Notice of Proposed Rulemaking (NOPR) addressing the standardization of generator interconnection. FERC is proposing a pro-forma interconnection agreement and a set of interconnection procedures that would form the basis for all generator interconnections.

This NOPR addresses issues that have been common stumbling blocks encountered by generators requesting interconnections including excessive delays and high interconnection costs. As proposed, the NOPR provides generators with an assurance that construction and system improvements would be completed on schedule or liquidated damages would be owed (by the utility) to the generator. Furthermore, all rights, responsibilities, and obligations, including legal boilerplate such as liability, insurance and indemnification are specified in the pro forma *Standard Generator Interconnection and Operating Agreement* and the *Standard Generator Interconnection Procedures* (both included in the April 24, 2002 NOPR).

Also of extreme importance in the NOPR is the provision that generators are to be granted credits for contributions made in support of electric transmission development. In summary, generators would have credits to use on the transmission providers transmission system for transmission service equal to the amount of capital (plus interest) provided by the generator for transmission system improvements.

One of the prime market areas for the Spring Canyon Energy Project is Utah. As the Project is to be located in Utah, the simplest market for the output of the Project will be that state. This section of the report defines the Utah power market, discusses the current and forecasted future energy requirements for the market, examines the available resources to serve the Utah Market Area, considers proposed new resources for the market area, projects an overall 10-year load/resource balance, and briefly discusses relevant political and regulatory issues for Utah.

In performing the marketplace assessment for the various market areas, a key component was the development of a load/resource balance for that marketplace. The first step in determining the resource balance between electricity demand (customer use and required reserves) and electricity resources (generation capacity and import capability) is to clearly define the market area.

The Utah Market Area is served by one investor-owned utility (PacifiCorp), forty-two municipal utilities, and four major rural electric cooperatives (Coops). For PacifiCorp, the Utah Market Area also includes a small portion of southern Idaho and southwestern Wyoming. This is illustrated in Appendix B of this report on the bubble map showing the *Pace Control Area (Utah Main System)*. For the purpose of this study, references to the PacifiCorp load will include all loads served by PacifiCorp in Utah, southern Idaho, and southwestern Wyoming.

The municipal utilities in Utah are in one of two major joint power agencies (JPAs), UAMPS and UMPA. UAMPS has a total of 42 members, 36 of which are municipal utilities within the state of Utah (the other 6 members are in other Western States); UAMPS also claims the Central Utah Conservancy District as a Member, as well as five other local governmental utilities located outside the State. For the purpose of this study UAMPS' load *only* includes the 36 Utah municipal systems. UMPA has 6 members, all of which are municipal utilities within the state.

All four of the major co-ops in Utah (Dixie Escalante Rural Electric Association, Flowell Electric Association, Garkane Energy Cooperative, and Moon Lake Electric Association) are Members of the Deseret Generation and Transmission Cooperative (Deseret). Deseret also has Members located in surrounding states.

LOADS

For 2002, the electric utilities in the Utah Market Area are estimated to have a non-coincidental¹ summer peak load of 4,794 MW. Table 3-1, shown below, summarizes the projected peak load for the market area. The Utah Market Area peak load shown in this analysis represents the sum of the individual utility peak loads and does not consider diversity among utility systems.

Table 3-1
Electric Utilities in
The Utah Market Area

Utility	2002 Peak (MW)
PacifiCorp	3,820
UAMPS	603
UMPA	206
Co-ops	165
Total	4,794

Load Forecast

To estimate the load requirements for the Utah Market Area, a 10-year forecast was compiled, based on information contained in the PacifiCorp RAMPP-6 Report (Resource and Market Planning Program) as part of PacifiCorp's Integrated Resource Planning (IRP) process. The WSCC 10-year Coordinated Plan Summary, information available from the Utah Public Service Commission (Utah PSC) supplemented the information provided in the RAMPP-6 Report. Energy Information Administration (EIA) data, and the 2002 Electrical World Directory of Electric Power Producers were also utilized to substantiate or fill-in information not available from other sources.

The RAMPP-6 Report and all published data from PacifiCorp treats the load and resources for PacifiCorp on a six state, system-wide basis, making it difficult to specifically identify the load and load growth within the Utah Market Area. However, at the request of the Utah PUC, the RAMPP-6 Report includes two special interest cases concerning the potential load growth within the area that constitutes this report's Utah Market Area.

The two cases run by PacifiCorp included a base case with an expected average annual load growth in the Utah Market Area of 2.2 percent and an accelerated load growth of 3.3 percent. For this study, PacifiCorp base case is utilized. In addition, this load growth was also used for all of the utilities in Utah.

¹ The non-coincidental peak is the sum of the estimated peak load for all of the utilities in the Utah Market Area. The coincidental peak load for the Utah Market Area is slightly lower.

PacifiCorp load forecast for 2002 is 3,820 MW, which represents approximately 80 percent of the load in the Utah Market Area. It is estimated that this load will grow to approximately 4,760 MW by 2011 (pursuant to PacifiCorp's RAMPP-6 report). The two municipal JPAs have a combined estimated peak load of 809 MW in 2002 (UAMPS 602 MW and UMPA 206 MW). This represents approximately 17 percent of the total load for the Utah Market Area. This load is estimated to grow to approximately 1,008 MW, using the same growth factor, by the end of the study period. The co-ops' load in the Utah Market Area is approximately 165 MW, or three percent of the total load, and is expected to grow to approximately 206 MW by 2011.

RESOURCES

The Utah Market Area meets its electric demand through generation projects located within the area and by importing electricity over a robust transmission system that is interconnected with all of the neighboring states at voltages of 230 kV and 345 kV. In addition, the Utah Market Area is a major exporter of power to southern California from the Intermountain Power Project (discussed in more detail below).

Total Utah Market Area generation (including that which is dedicated to serving other markets) is estimated to be 5,219 MW in 2002. Additional generation, totaling 200 MW, is expected to come online in late 2002/2003. In addition, Navigant Consulting estimates that the simultaneous import capability into the Utah Market Area to be approximately 2200 MW. Therefore the total capacity (generation resources and transmission import capability) is estimated to be 7,499 MW in 2002.

Market Area Generation

Coal plants dominate the Utah Market Area, the four largest coal plants (Intermountain, Hunter, Huntington, and Bonanza) account for almost 81 percent of all generation projects in the Utah Market Area. Table 3-2 summarizes the resource composition of the existing resource base.

Table 3-2
Composition of Generation for
Utah Market Area

Fuel Type	Capacity (MW)	Percent of Total
Hydro	247	5%
Natural Gas/Oil	419	8%
Coal	4,486	86%
Renewables	12	0%
Other	55	1%
Total	5,219	100%

As mentioned above, the Utah Market Area is a major exporter to California from the Intermountain Power Project (IPP). Southern California municipal utilities have an approximately 75 percent entitlement to the 1660 MW IPP or approximately 1244 MW. The remainder of IPP entitlements belongs to electric utilities in Utah (including PacifiCorp, municipal utilities and cooperatives). However, when looking at the total Utah Market Area generation it is important to note that, at *most* times, at least 75 percent of the output of IPP is moving southwest to California.

Transmission Import Capability

The transmission system in Utah is principally owned and operated by PacifiCorp and is interconnected with California, Nevada, Idaho, Wyoming, Colorado, and Arizona. PacifiCorp utilizes the extensive Utah transmission system to move power throughout the state and to make purchases from other utilities in the neighboring states. PacifiCorp operates the transmission facilities interconnecting Utah with all of the above states with the exception of California. The transmission to California is owned by the members of SCPPA and operated by the Los Angeles Department of Water and Power (LADWP). The non-simultaneous import capability for the Utah Market Area is 5,035 MW². For the purposes of this study, Navigant Consulting has estimated the simultaneous import capability to be 2,200 MW (a much more detailed transmission study would be required to calculate the true simultaneous import capability). Table 3-3 illustrates the non-simultaneous transfer capability on the major transmission paths in the Market Area.

Table 3-3
Non-Simultaneous Transmission Import Capability
Into the Utah Market Area

Transmission Path	Capacity (MW)
Eastern Nevada-Utah (Gondor)	150
Intermountain-Mona	1,400
TOT 2B1 (Siguard-Glen Canyon)	300
TOT 2B2 (Pinto-Four Corners)	600
TOT 2C (PacifiCorp-NPC)	300
Bonanza West (Bonanza-Mona)	645
Path C (Southern Idaho-Northern Utah)	1,500
Vernal-Ashley	140

The Project is planning to interconnect into the PacifiCorp transmission system at the Mona Substation. The Mona substation has three owners, PacifiCorp, IPA, and Deseret.

² The non-simultaneous import capability is the sum of the ratings of all of the transmission facilities into the Market Area and is not a representation of the amount of power that at any one-time can flow into the Market Area.

(0,15)

From the Mona substation all three entities have the ability to move power on their respective transmission systems. The diagram in Appendix B illustrates the available transmission capacity (ATC) and non-simultaneous transmission line rating (NSR) for the transmission facilities in Utah and interconnections with the other market areas for this study.³

Accordingly sufficient ATC is available to move all of the output from the SCEP onto the main PacifiCorp transmission grid in Utah (designated as PACE on the map in Appendix B). This provides an opportunity for output from the Project to reach all loads within the Utah Market Area; however there are limitations at all of the borders of the PacifiCorp transmission grid. At Mona there is also the ability to move 338 MW on the Deseret transmission system and 623 MW to the IPA transmission system. Again there are some ATC limitations on the both Deseret and IPA transmission systems. The Deseret transmission facilities are between Mona and Bonanza. The IPA transmission system includes: (1) the two 345-kV transmission lines between IPA and Mona; (2) the IPA 500-kV DC facilities to southern California; and (3) the IPA-Gondor 230-kV transmission line.

Proposed Generation

Unlike several of the other market areas in this study there has not been a large number of proposed new generation projects in Utah. In fact, other than the two new simple cycle natural gas-fired units currently under construction by PacifiCorp it is unlikely that more than one or two of the other projects shown on Table 3-4 will come online within the next several years.

Table 3-4
Proposed Generation Projects for
The Utah Market Area

Company	Project	Status	Fuel Type	Proposed Online Date	Capacity (MW)
Deseret Power	Bonanza	Starting App. Process	Gas	Jan-04	80
USA Power	Spring Canyon	Application Process	Gas	Jun-04	550
Intermountain Power	Intermountain 3	Press Release Only	Coal	Jun-07	900
PacifiCorp	West Ridge II	Under Construction	Gas	Jun-02	80
Tasco Engineering	Stockton Bar	Press Release Only	Wind	Jan-05	25
Intermountain Power	Intermountain Upgrades	Press Release Only	Coal	Dec-03	220
PacifiCorp	Gadsby Peaker	Under Construction	Gas	Sep-02	120
Payson City/UAMPS	Payson	Press Release Only	NA	Jan-11	128
Total					2,103

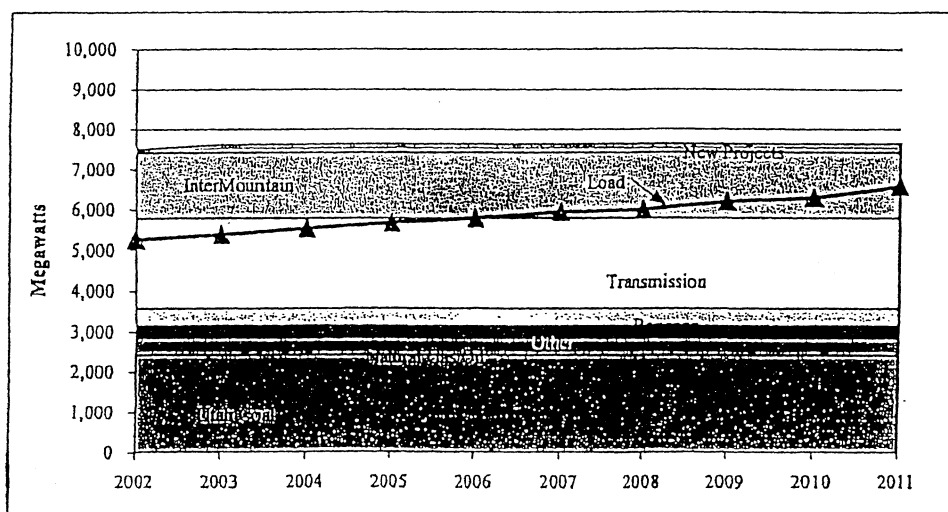
³ The ATC shown on the diagram corresponds to stated ATC on the PacifiCorp OASIS for the period of June 2002 to May 2003 and represents available firm transmission rights.

* Information based on California Energy Commission's database of Proposed Power Plants with the WSCC - Updated February 27, 2002

LOAD/RESOURCE BALANCE

Figure 3-1 provides an illustration of the projected load/resource balance for the 10-year period based on the information discussed above.

Figure 3-1
Estimated Loads and Resources
For the Utah Market Area
(2002 through 2011)



As the above figure illustrates the Utah Market Area generation (excluding IPP) is not sufficient to meet the energy requirements in any year in the study period. Rather, the Utah Market Area is dependent on transmission imports and/or IPP generation to meet the demand for each year and both imports and IPP generation for the years 2005 forward. As mentioned earlier in this Report, at least a 75 percent entitlement of IPP output is shipped to California via the Intermountain DC transmission line. Therefore, there is a current and future demand for additional in-area generation resources for the Utah Market Area. Without the development of new generation projects in the Utah Market Area, it will become even more dependent on imports. This provides a strong argument for the inclusion of the Spring Canyon Energy Project into the Utah Market Area resource portfolio.

POLITICAL AND REGULATORY ISSUES

In 2001 Utah Governor Mike Leavitt (R) unveiled his Utah Energy Policy, which states "Utah will have reliable, affordable, sustainable, clean energy". The Policy conjectures that

Utah's current estimate of additional electrical requirements over the next ten years should be between 1800 and 3100 MW. Governor Leavitt recognizes that such a growing need necessitates new generation to be built within the state. To reach such goals, the Governor commits to a streamlined and fast-tracked regulatory process as part of the agenda, creating a single point of review - the Department of Environmental Quality. He also created, in an executive order, the Energy Coordinate Council, which is charged with implementing Utah's energy policy.

SECTION 4 SOUTHERN CALIFORNIA MARKET AREA

The Southern California Market Area is the largest Market Area (in terms of customers and load) of this market assessment. The Southern California Market Area stretches from the border of the PG&E/SCE service territory in the north to Mexico in the south. SCE is the dominate utility in the region serving almost 60 percent of the approximately 33,000 MW load. However, the San Diego Gas and Electric Company (SDG&E) and the Los Angeles Department of Water and Power (LADWP) are also large utilities within the Southern California Market Area.

The Southern California Market Area has a significant amount of existing infrastructure both generation and transmission; however, the Southern California Market Area is very dependent on imports from other regions to meet its load requirements. Many of the existing generation units in southern California are 30 plus years old and a significant portion of the transmission into the region is either committed to long-term agreements or is utilized to import Southern California Market Area utilities' resources located out-of-state. Due to the large load and age of the plants, there are numerous projects proposed for the Southern California Market Area; however, over the course of the last 18 months several of these have been cancelled or at least put on hold. This has occurred for several reasons including regulatory uncertainty, attempted renegotiation of contracts by the State of California, financial uncertainty of California investor-owned utilities, low loads in 2001 to name a few reasons.

It is important to note that while the Utah Market Area is not geographically located next to the Southern California Market Area, there is a direct electric connection between the two. Therefore, under the right terms and conditions (or ownership) generation from the Spring Canyon Energy Project could readily access the massive Southern California Market Area.

LOADS

In 2001, the 17 electric utilities in the Southern California Market Area are estimated to have a non-coincidental summer peak load of 33,082 MW. Table 4-1, shown below, provides information regarding each utility's anticipated 2002 summer peak load (note that the load for three cities of Azusa, Banning, and Colton is shown as a single number). The Southern California Market Area peak load considered by this analysis represents the sum of the individual utility peak loads, not necessarily the coincidental peak load.

Table 4-1
Electric Utilities in
The Southern California Market Area

Utility	2002 Peak (MW)
Southern California Edison	19,469
San Diego Gas and Electric	3,660
Anaheim Public Utilities Department	608
Burbank Public Service Department	281
California Department of Water Resources	1,059
Glendale Public Service Department	312
Imperial Irrigation District	735
Los Angeles Department of Water and Power	5,486
Metropolitan Water District of So. California	297
Pasadena Water and Power Department	286
Riverside Utilities	494
Cities of Azusa, Banning and Colton	167
Vernon Municipal Light Department	202
Anza Electric Cooperative	9
City of Needles	16
Total	33,082

Load Forecast

To estimate the demand for energy, NCI developed a ten-year summer peak demand forecast for each of the utilities within the Southern California Market Area. The forecast was based in part on historical information regarding the peak demand of each utility, as well as information available from the California Energy Commission and the CAISO. Overall, these sources indicate that the expected load growth for the Southern California Market Area is projected to increase at an average annual rate of 1.7 percent for the forecast period. (Individual utility growth rates may be found in Appendix A.)

The two IOUs (SCE and SDG&E) that provide electric services within the Southern California Market Area serve approximately 70 percent of load with SCE meeting 60 percent and SDG&E 10 percent. SCE's load is estimated at 19,469 MW for 2002 and will grow to 22,860 MW by 2011. SDG&E's load is estimated at 3,660 MW for 2002 and will grow to 4,611 MW by 2011.

The Governmental Entities in the Southern California Market Area include municipal utilities, irrigation districts, water districts, and government agencies (California Department of Water Resources). In total, the Governmental Entities served are estimated to have a combined peak demand of 9,853 MW, or 30 percent of the Southern California Market Area for 2002. This load is estimated to grow to 11,034 by 2011. The largest municipal utility is LADWP, which has an estimated peak load of 5,486 MW for

2002 that will grow to 6,000 MW by 2011. LADWP accounts for 55 percent of the non-IOU load and 16.5 percent of the total Southern California Market Area load.

For the purposes of this analysis, and consistent with the WSCC standard reserve requirements, this analysis assumes a seven percent reserve margin requirement for Southern California Market Area throughout the 10-year forecast period.

RESOURCES

Resources available to meet demand requirements in the Southern California Market Area include 1) Market Area generation, and 2) transmission import capability. Existing Market Area generation is estimated to be approximately 28,332 MW in 2002. Additional generation of approximately 6,845 MW (including 500 MW in 2002) is projected to come online by 2004, increasing the total Southern California Market Area generation to 35,177 MW. The simultaneous transmission import capability is estimated to be approximately 13,000 MW throughout the 10-year forecast period.

Market Area Generation

Natural gas-fired units dominate existing Southern California Market Area generation. These units account for almost 20,000 MW or approximately 70 percent of the existing generation in the Southern California Market Area. Table 4-2 summarizes the composition of the generation in the Southern California Market Area.

Table 4-2
Composition of Generation for
The Southern California Market Area

Fuel Type	Capacity (MW)	Percent of Total
Hydro	4,273	15%
Natural Gas/Oil	19,994	69%
Geothermal	36	0%
Nuclear	2,150	8%
Other	2,379	8%
Total	28,832	100%

Transmission Import Capability

Transmission imports into the Southern California Market Area play an extremely crucial role in meeting the needs of the region. Imports are necessary to “keep the lights on” in the Southern California Market Area. In addition, Southern California Market Area utilities import a large amount of generation located in Nevada, Arizona, New Mexico, and Utah through the transmission system.

Transmission imports to the Southern California Market Area are governed by the Southern California Import Transmission (SCIT) nomogram. The maximum non-simultaneous import capability into the Market Area is 18,564 MW. However, the SCIT nomogram currently limits simultaneous imports to approximately 13,000 MW, depending on multiple system conditions (including all units at Palo Verde being online and all transmission facilities being in-service and the amount of transmission flowing on the EOR transmission system).

There are several different transmission paths that feed southern California including transmission lines from northern California (Path 26), the Pacific Northwest (PDCI), the Desert Southwest (WOR), Utah region (Intermountain), and Mexico. Table 4-3 below identifies all of the major transmission paths into the Southern California Market Area.

Table 4-3
Non-Simultaneous Transmission Import Capability
Into the Southern California Market Area

Transmission Path	Capacity (MW)
West of River	10,118
Path 26	3,000
Pacific DC Intertie	3,100
Intermountain DC	1,920
Mexico Intertie	408

While the opportunity exists to move power into the Southern California Market Area from several directions and across several paths, the pertinent path for this study is the Intermountain Transmission Line.

As discussed in the Utah Market Area, the IPP has a 1,920 MW DC line that stretches from central Utah to the Adelanto substation in southern California. The line is operated by LADWP with ownership by LADWP and the other SCPPA members. Table 4-4 below summarizes the ownership percentage on this transmission path.

Table 4-4
Transmission Ownership on
The Intermountain Transmission Line

Company/Agency	Ownership
LADWP	60%
City of Anaheim	18%
City of Riverside	10%
City of Pasadena	6%
City of Burbank	5%
City of Glendale	2%

As discussed in the Utah Market Area portion of this report, the Southern California municipal utilities have an entitlement of approximately 75 percent or 1,244 of the IPP. They utilize the Intermountain Transmission Line to bring that power to the Southern California Market Area. Without knowing specifically what other resources (e.g. long-term agreements, spot purchases) are using the facilities, there may be 600 MW (or more) of unutilized capacity on the Intermountain Transmission Line.

Proposed Generation

Over 12,000 MW of new generation is currently proposed for the Southern California Market Area. The proposed projects are almost exclusively natural gas-fired generation. The currently proposed projects are illustrated in Table 4-5.

Table 4-5
Proposed Generation Projects for
The Southern California Market Area

Company	Project	Status	Fuel Type	Online Date	Capacity (MW)
Cal Energy	Salton Sea VI	Starting App. Process	Geothermal	Oct-04	180
City of Burbank	Magnolia Modernization	App. Under Review	Gas	Mar-04	250
Edison International	Sunrise Power Phase II	Under Construction	Gas	Aug-03	265
Inland Grp & Constellation	High Desert	Under Construction	Gas	Jul-03	720
Sempra	Palomar Energy (Escondido)	App. Under Review	Gas	Jan-05	500
GWF	Lemoore (Henrietta)	App. Under Review	Gas	Aug-02	91
Duke	Avenal	App. Under Review	Gas	Jan-05	600
Texaco	South Star I	App. Under Review	N/A	Sep-03	100
Berry Petroleum	Taft	Starting App. Process	Gas	Jul-03	86
FPL	FPL Tesla	App. Under Review	Gas	Feb-05	1,120
Summit Energy Group	Blythe	Under Construction	Gas	Apr-03	520
Calpeak	San Diego Mission	Regulatory Appvl Rc'd	Gas	Jun-02	50
Sempra/OXY	Elk Hills CC	Under Construction	Gas	Apr-03	570
Calpeak	El Cajon	Regulatory Appvl Rc'd	Gas	Apr-02	50
Summit Energy Group	Blythe II	Starting App. Process	Gas	May-04	520
Calpeak	Midway Buttonwillow	App. Under Review	Gas	Jan-03	49
Calpine	Pastoria	Under Construction	Gas	Jan-03	750
NRG & Dynergy	El Segundo	App. Under Review	Gas	May-04	630
Calpine	Otay Mesa	Under Construction	Gas	Jul-03	510
LADWP	Scattergood	Press Release Only	Gas	Jan-11	50
AES	Huntington Beach Mod.	Under Construction	Gas	Apr-02	450
LADWP	Haynes	Press Release Only	Gas	Jan-11	50
LADWP	Valley	App Under Review	Gas	Sep-03	500
City of Vernon	Malburg	App. Under Review	Gas	Sep-03	120
ARCO Western Energy	Midway-Sunset	Regulatory Appvl Rc'd	Gas	Jul-04	500
PG&E NEG	La Paloma Phase I	Under Construction	Gas	Aug-02	521
PG&E NEG	La Paloma Phase II	Under Construction	Gas	Oct-02	522
Duke	Morro Bay	App Under Review	Gas	May-04	1,200
AES	Mountainview	Under Construction	Gas	Jun-03	1,056
BP	Arco Watson	Starting App. Process	Gas	Aug-03	96
Total					12,626

* Information based on California Energy Commission's database of Proposed Power Plants with the WSCC - Updated February 27, 2002

Approximately 5,900 MW of generation is currently listed as under construction; however, this number can be misleading, as some of the projects on the table above represent repowering of existing units, net additions are uncertain. In addition, a number of projects replace an existing unit or unit outages forced by environmental restrictions. Also, more than 12,000 MW of proposed generation within California have been cancelled within the past 18 months. Therefore, although there appears to be a significant amount of new capacity proposed, the net impact on the overall load/resource balance is very difficult to forecast.

Further complicating the Southern California Market Area is a need to take into account the amount of generating capacity that is out-of-service, whether it be for scheduled maintenance work, forced outages, or even lack of emission credits. Although this item has not been identified separately in any of the other Market Areas in the load/resource balance analysis, the magnitude of the outages and their respective impact on the Southern California Market Areas are of crucial importance.

To accommodate such an adjustment for the Southern California Market Area, NCI reviewed power plant outage information provided by CAISO to derive an outage adjustment factor for this analysis. Although it is important to note that plant outages vary throughout the year, especially during winter and spring periods as a result of planned maintenance activities, the outage factor of 18 percent used for this study is aimed to provide a conservative estimate of readily available generation resources. For the Southern California Market Area, this translates into approximately 5,000 MW of the total available generation capacity being out-of-service at anytime in 2002.

LOAD/RESOURCE BALANCE

Figure 4-1 provides an illustration of the projected load/resource balance for the 10-year period.

Figure 4-1
 Estimated Loads and Resources
 For the Southern California Market Area
 (2002 through 2011)

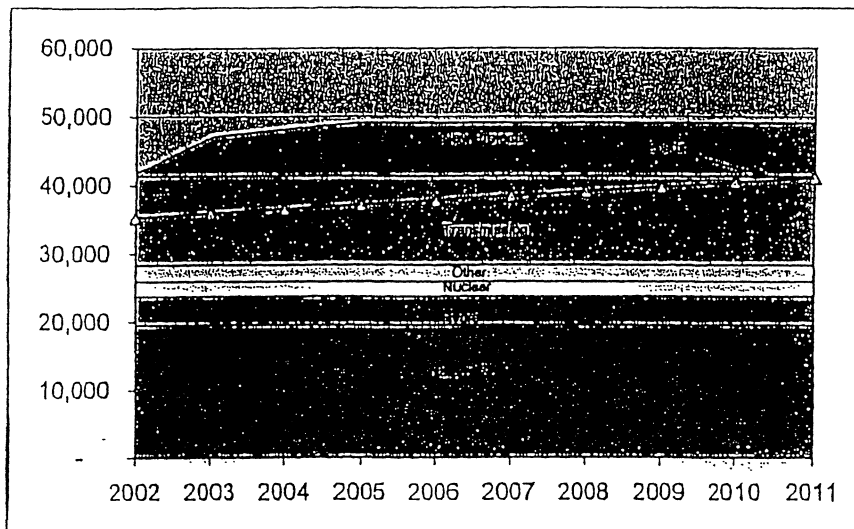


Figure 4.1 illustrates the Southern California Market Area dependence on transmission to meet its energy requirements. This is expected as Southern California Market Area Utilities have made major investment into generation (and associated transmission infrastructure) in Nevada, Arizona, Utah, and New Mexico. The figure also illustrates that even with the massive transmission infrastructure serving the Southern California Market Area additional new generation is need by the end of the planning horizon of this Report. The dependence on imports and the availability of capacity on the Intermountain DC system provides an excellent opportunity for the Spring Canyon Energy Project to reach and serve the Southern California Market Area.

POLITICAL AND REGULATORY ISSUES

Governor Gray Davis has been attempting to stabilize the chaotic energy markets in California, which has been the epicenter for the western markets dysfunction. In his 2002 State of the State address, Governor Davis reiterated his commitment to building new power plants. His staff and resource agencies have been working to renegotiate power contracts (entered into during the crises in 2001), to lessen both length of contract

and cost per MW of power. They have had some success to this end. Governor Davis is also relentlessly pursuing refunds from FERC.

The Governor and his departments are renewing their conservation efforts through the "Flex Your Power Campaign." The amount of MW in proposed generation has been cut in half due to the regulatory uncertainties in California, and has probably been compounded with the passage of SB 39XX, which grants the California Public Utilities Commission (CPUC) regulatory jurisdiction over private generating facilities in California. Thus, conservation efforts will be critical this summer, due to the less-than-expected new generation online this summer. The CAISO's summer forecast has suggested that as long as conservation efforts continue, the summer will progress without forced outages.

The state is in constant regulatory flux. Many issues remain unresolved (e.g. procurement, direct access, exit fees, transmission upgrades, creditworthiness of the IOUs), which makes the climate extremely unfavorable for new generation projects.

Several key pieces of legislation have been passed in the last two years pertaining to electricity generation and procurement.

AB 1X: Designated the California Department of Water Resources (DWR) as the state agency responsible for procuring power for the financially-defunct IOUs.

AB 6X: Prevents the state's IOUs from divesting assets until at least 2006.

SB 5X: Allocates funds for energy conservation.

SB 39XX: Allows the CPUC to regulate generating facilities in the state.

Several pending pieces of legislation should be considered in any assessment of the market:

AB 57: Requires that the IOUs develop a procurement plan that will be operational by December 31, 2002.

AB 117: Facilitates community aggregation (a modified version of the suspended direct access option)

AB 1529: Attempts to streamline transmission siting

AB 2062: Overhauls the state's energy regulatory bodies to create one body out of the seven that now regulate energy issues in California.

Regulatory Matters

The CPUC is inundated with weighty, high-stakes issues that have primarily grown out of the California energy crisis.

The key proceedings that will affect the regulatory environment are: The IOU procurement proceeding, the direct access/exit fee proceeding, the rate stabilization proceeding, and the CPUC's role in the PG&E reorganization.

The procurement proceeding is moving forward. SCE has proposed that the state partner with the utilities as a guarantor on power purchases until the utilities are credit worthy. The CPUC has responded favorably to this suggestion, and has designated SCE as the coordinator of this proposal.

The Direct Access/Exit Fee proceeding has encountered some set backs, with errors emerging in the base case models. DWR has subsequently pushed back the hearing dates to mid-June. This may ultimately delay final resolution until the end of 2002.

The rate stabilization proceeding has made significant progress, having determined a revenue requirement, rate agreement and service agreements. PG&E continues to protest the service agreement that it has with DWR, but the CPUC voted to move forward, despite the \$80 million in contest.

The bankruptcy court judge has accepted PG&E's disclosure statement for its reorganization. The creditor committee will be voting to choose one of the two plans in June. This vote is critical in determining PG&E's ability to procure power for its customers.

Transmission upgrades are not abundant. The CPUC has attempted to force PG&E's hand on Path 15, but the utility has continued to work with private investors (namely TransElect) to upgrade the line.

Finally, the CAISO has submitted a new market design to FERC, which resembles the FERC plan to standardize markets.

SECTION 5

NORTHERN NEVADA MARKET AREA

This section focuses on the northern Nevada Market Area, which is dominated by Sierra Pacific Power Company (Sierra Pacific). This is a viable market area for the Spring Canyon Energy Project, as northern Nevada has historically been a net importer of electricity. Transmission limitations from Utah restrict the amount of power that could flow into the Northern Nevada Market Area from the Spring Canyon Energy Project; however, the proposed Falcon-Gondor 345-kV transmission line, when completed, will greatly enhance the Northern Nevada Market Area's ability to import from Utah.

The Northern Nevada Market Area, in addition to Sierra Pacific, includes one small municipal utility (City of Fallon) and two co-ops (Wells and Mount Wheeler). The Sierra Pacific service territory includes most of northern Nevada and a small portion of eastern California around Lake Tahoe.

LOADS

Combined, the four electric utilities in the Northern Nevada Market Area are estimated to have a summer 2002 peak load of approximately 1,818 MW. Table 5-1 shows the summary of the estimated 2002 peak load for the Northern Nevada Market Area. The peak load shown represents the sum of the individual utility peaks loads and does not consider diversity among utility systems.

Table 5-1
Electric Utilities in the
Northern Nevada Market Area

Utility	2002 Peak MW
Sierra Pacific	1,657
Wells Rural Electric Cooperative	102
Mount Wheeler Power	44
Fallon Municipal Electric System	15
Total	1,818

Load Forecast

The load forecast for the Northern Nevada Market Area was derived from data sources that included Sierra Pacific's *Comprehensive Energy Plan*, a study by the Nevada Electric Energy Policy Committee and internal Navigant Consulting forecasts. The Sierra Pacific load forecast for 2002 is 1,657 MW and it is estimated that the load will increase by 2.6 percent through 2005 and 1 percent after that, for an average annual increase of 1.5 percent over the 10-year planning horizon and a total load estimate of 1,900 MW in

2011. The estimated load for the three small utilities begins at approximately 161 MW and grows to 181 MW by 2011.

For this analysis, a reserve margin of seven percent, consistent with WECC standards, is used for the Northern Nevada Market Area.

RESOURCES

The Northern Nevada Market Area is highly dependent on transmission imports to meet the load requirements. In-area generation is incapable of meeting Northern Nevada Market Area demand in 2002. In fact, the largest project in the Northern Nevada Market Area, Valmy coal plant (532 MW), is half-owned by Sierra Pacific with the Idaho Power Company owning the other half. The Valmy plant constitutes 28 percent of the total generation capacity in the Northern Nevada Market Area. The Northern Nevada Market Area imports power from the Pacific Northwest, Idaho, and Utah. The interconnection with California (PG&E) does not provide the ability for transfers between the regions.

Existing Northern Nevada Market Area generation is estimated to be 1,898 MW, with an additional 12 MW of geothermal capacity due online in mid-2002. The estimated transmission import capability into the Northern Nevada Market Area is 650 MW, providing a total resource base of 2,560 MW.

Market Area Generation

As mentioned previously, the largest project in the Market Area is the Valmy coal plant. Other large projects include the Tracy (402 MW) and Fort Churchill (226 MW) gas-fired units owned by Sierra Pacific. Additionally, the Tri-Center Naniwa Energy Project in Storey County, a 360 MW project came online in late 2001. Table 5-2 summarizes the resource composition in the Northern Nevada Market Area.

Table 5-2
Composition of Generation for
The Northern Nevada Market Area
(2002)

Fuel Type	Capacity (MW)	Percent of Total
Coal	621	33%
Natural Gas	1,002	52%
Hydro	11	1%
Diesel/Fuel Oil	72	4%
Geothermal	204	11%
Total	1,910	100%

Transmission Import Capability

The Northern Nevada Market Area is interconnected with California, Oregon, Idaho, and Utah via separate transmission facilities. Sierra Pacific has historically used its transmission infrastructure to import power to meet 50 percent of its demand. The weakest interconnection is with California and PG&E via the summit 115-kV facilities. During normal business operations there are no transfers with California via this transmission path.

The other three interconnections are discussed in greater detail below. Non-simultaneous, they provide Sierra Pacific with import capability of 1,045 MW (see Table 5-3). Sierra Pacific operates its system with a simultaneous import capability of between 650 and 700 MW.

Table 5-3
Non-Simultaneous Transmission Import Capability
Into the Northern Nevada Market Area

Transmission Path	Capacity (MW)
Alturas Transmission Project	300
Eastern Nevada-Utah (Gondor)	245
Idaho-Sierra	500

The Reno-Alturas Transmission Project (Alturas) is a 345-kV transmission line that runs from Sierra Pacific's Bordertown substation to Bonneville Power Administration's transmission system at Hilltop, in northern California. The Alturas Project has a WSCC rating of 300 MW. Sierra Pacific's Gondor substation is interconnected with both the Intermountain and Pavant substations in Utah, at 230-kV. Maximum non-simultaneous transfer capacity from East to West is 245 MW. The Idaho-Sierra path connects Sierra Pacific with Idaho Power Co. at the Midpoint connection in Idaho. Maximum non-simultaneous transfer capacity of this 345-kV system is 500 MW.

In addition, Sierra Pacific plans to build a 345-kV transmission line between its Falcon and Gondor substations. This would increase the transfer capability from Utah to Nevada from 245 MW to 400 MW. This transmission project would likely increase the overall simultaneous import capability of the northern Nevada Market Area by 150 to 200 MW.

Proposed Generation

Two additional large natural gas-fired generation units are currently under review at the Nevada Public Utilities Commission. The first is a 540 MW unit being proposed by Duke that would be located in Washoe County. The second project is a 480 MW unit

being proposed by Newmont Mining, located in Elko County. Table 5-4 lists all known proposed projects for the northern Nevada Market Area.

Table 5-4
Proposed Generation Projects for
The Northern Nevada Market Area

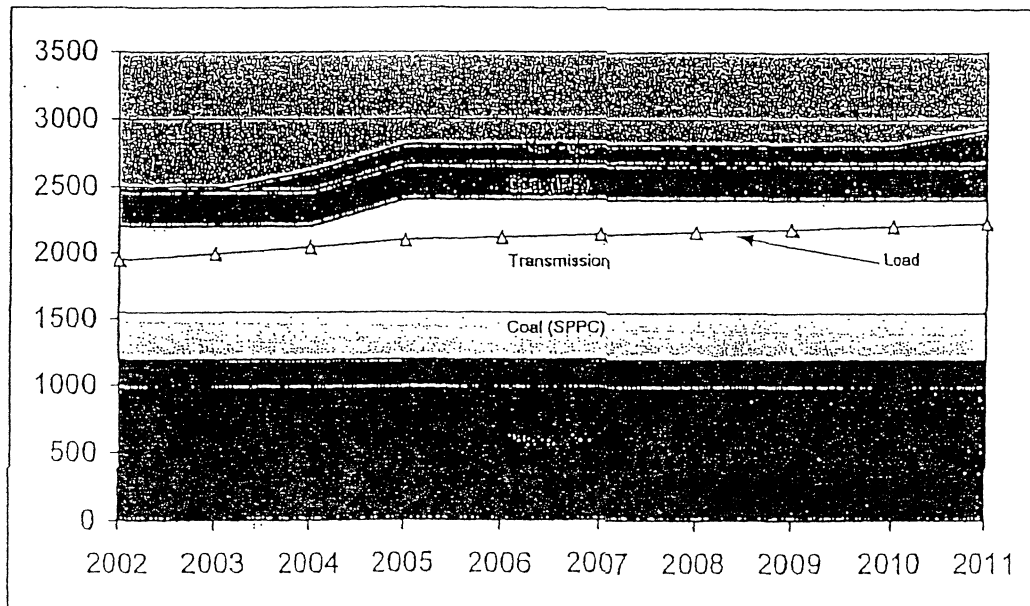
Company	Project	Status	Fuel Type	Online Date	Capacity (MW)
EOPT	EOPT TRI	Regulatory Approval Rec'd	NA	Dec-02	30
Mt. Wheeler Power	Rye patch	Under Construction	Geothermal	Apr-02	12
Duke Energy NA	Washoe Power Plant	Application Under Review	Gas	June-04	540
Newmont Mining	Boulder Valley	Application Under Review	Gas	Jan-11	480
Total					1,062

* Information based on California Energy Commission's database of Proposed Power Plants with the WSCC - Updated February 27, 2002

LOAD/RESOURCE BALANCE

The 10-year load/resource balance for the Northern Nevada Market Area is illustrated in Figure 5-1 below

Figure 5-1
Estimated Loads and Resources
For the Northern Nevada Market Area
(2002 through 2011)



The Northern Nevada Market Area is currently dependent on transmission imports to meet a significant portion of its peak load (at least 25 to 30 percent). This reliance on

imports will continue through the 10-year study period. The Northern Nevada Market Area lacks sufficient generation to meet its energy requirements. In addition, there are very few projects proposed to increase in-area generation. Rather, the Northern Nevada Market Area looks to continue to rely (and increase its reliance) on imports to meet its energy requirements. This reliance coupled with the proposed Falcon-Gondor Transmission Project may provide the Spring Canyon Energy Project with an opportunity for providing needed capacity to the Northern Nevada Market Area.

POLITICAL AND REGULATORY ISSUES

The state of Nevada has faced and is facing several of the same challenges that impacted California in 2000 and 2001. Both of the large investor-owned utilities in Nevada (Sierra Pacific and Nevada Power) are net purchasers of electricity. Both are also operating companies of Sierra Pacific Resources. The drastic escalation of electricity prices in the west in 2000 and 2001 resulted in the Nevada companies spending hundreds of millions of dollars on purchases that they had not anticipated. Electric rates were not designed to recover the high costs of the market purchases.

In fact, Nevada Power Company is now on the brink of bankruptcy and it may pull Sierra Pacific Resources (and therefore Sierra Pacific Power) with it. A detailed synopsis of Nevada Power Company's financial woes is included in Section 6.

SECTION 6

SOUTHERN NEVADA MARKET AREA

The Southern Nevada Market Area boasts the fastest growing demand for energy in this study and within the entire WECC. In fact, annual electricity demand growth is expected to remain between 5 and 6 percent for the foreseeable future. The financially troubled Nevada Power Company is the dominant utility in the Southern Nevada Market Area; other utilities include the Colorado River Commission (CRC), Valley Electric Association, Boulder City, and six other small local electric utilities.

The Southern Nevada Market Area has a tremendous amount of electric infrastructure, both generation units and transmission facilities. However, most of these do not belong to the utilities located within the Southern Nevada Market Area and are not utilized to serve Southern Nevada Market Area load. The two largest projects in Nevada and the Southern Nevada Market Area, the massive Hoover Dam hydroelectric facilities (Hoover) (1,951 MW) and the Mohave coal facilities (Mohave) (1,580 MW) are primarily owned or allocated to utilities outside of the Southern Nevada Market Area. (This is discussed in greater detail below.) In addition, a number of the proposed projects for the Southern Nevada Market Area are targeting not only the fast growing local load but also the load in Southern California.

LOADS

For the summer peak load of 2002, the estimated load in the Southern Nevada Market Area is 4,872 MW. Table 6-1, shown below summarizes the projected peak load by utility for the Southern Nevada Market Area. The peak load represented is a sum of the individual non-coincidental peak load.

Table 6-1
Electric Utilities in
The Southern Nevada Market Area

Utility	2002 Peak (MW)
Nevada Power Company	4,311
Colorado River Commission	324
Valley Electric Co-op	94
Other governmental utilities	143
Total	4,872

Load Forecast

The 10-year load estimated forecast for the Southern Nevada Market Area was derived from data sources that included the WSCC 10-year Coordinated Plan Summary, a study by the Nevada Electric Energy Policy Committee, and internal Navigant Consulting

forecasts. All of these sources estimate that the total load in the Southern Nevada Market Area will continue to grow at a greater than 5 percent rate for the next 10 years.

The Nevada Power Company load forecast for 2002 is 4,311 MW, and it is estimated that the load will increase to 7,100 MW by the end of the 10-year planning horizon. The load for the rest of the Southern Nevada Market Area is estimated at 561 MW for 2002 growing to 668 MW by 2011. A reserve margin of seven percent is used for the Southern Nevada Market Area.

RESOURCES

The Southern Nevada Market Area does not lack resources. However, most of the resources are earmarked for other regions. The Nevada Power Company meets a large portion of its energy requirements via power purchases, which explains why Nevada Power Company is in a financial dilemma as a result of the price spikes in 2000 and 2001. The decision by the Nevada PUC to limit recovery of the power purchase costs (see discussion below) has left Nevada Power Company with a shortfall of over 1,000 MW of required power for the summer of 2002.

Existing Southern Nevada Market Area generation is 6,660 MW for 2002. The northern portion of the massive East-of-River (EOR) transmission system moves power into the Southern Nevada Market Area (from Arizona and New Mexico) and the northern portion of the West-of-River (WOR) transmission system moves power out of the Southern Nevada Market Area (to Southern California). For the purposes of this study Navigant Consulting has assumed a simultaneous import capability into the Southern Nevada Market Area of 4,000 MW. Therefore the total capacity of the Southern Nevada Market Area (generation resources and transmission import capability) is estimated to be 10,660 MW.

Market Area Generation

The Southern Nevada Market Area existing generation portfolio is almost equally divided between coal projects (2,185 MW), natural gas-fired projects (2,321 MW), and a hydroelectric project (1,951 MW). Table 6-2 summarizes the resource composition of the existing Southern Nevada Market Area.

Table 6-2
Composition of Generation for
The Southern Nevada Market Area
(2002)

Fuel Type	Capacity (MW)	Percent of Total
Coal	2,185	33%
Natural Gas	2,321	35%
Hydro	1,951	29%
Diesel/Fuel Oil	202	3%
Geothermal	0	0%
Total	6,660	100%

As mentioned above, most of the output from Hoover and Mohave does not stay in the Southern Nevada Market Area. For Hoover only 20.3 percent or 397 MW out of the 1,951 MW are allocated to utilities in the Southern Nevada Market Area (377 MW for the CRC and 20 MW for Boulder City). Only the Nevada Power Company has an ownership interest in the Mohave coal-project, and its ownership is 14 percent (221 MW). On these two projects alone only 598 MW out of 3,531 MW are owned or entitled to Southern Nevada Market Area load serving entities.

Transmission Import Capability

The massive WOR and EOR transmission systems dominate the southern Nevada high voltage transmission facilities. The WOR facilities connect southern Nevada with southern California, while the EOR system connects Arizona to both southern Nevada and southern California. In addition to these large transmission paths, southern Nevada is also interconnected to Utah via the TOT 2C (Red Butte-Harry Allen) 345-kV transmission facilities. A summary of the facilities and the non-simultaneous import capability is provided in Table 6-3.

Table 6-3
Non-Simultaneous Transmission Import Capability
Into the Southern Nevada Market Area

Transmission Path	Capacity (MW)
TOT 2C (PacifiCorp-NPC)	300
Northern EOR	
Navajo-McCollough	1,422
Moekopi-Eldorado	1,555
Liberty Mead	450
Westwing-Mead	1,300
Total Northern (EOR)	4,727

For the most part, the transmission system into and out of southern Nevada serves as a mechanism to move power from Arizona and New Mexico to the large southern California marketplace. In fact, the Nevada Power Company only has a 371 MW ownership on the EOR system and no ownership on the WOR system.

Proposed Generation

The Southern Nevada Market Area has been a hotbed for proposed new generation projects. As illustrated in Table 6-4, over 7,000 MW of new projects are still planned. However, in the past 12 months, over 1,300 MW of proposed new projects in the Southern Nevada Market Area have been cancelled and Navigant Consulting anticipates that this number will continue to grow. Of the proposed new projects, 6,600 MW are natural-gas fired projects, 345 MW are wind projects, and 400 MW is a proposed new hydroelectric project.

**Table 6-4
Proposed Generation Projects for
The Southern Nevada Market**

Company	Project	Status	Fuel Type	Online Date	Capacity (MW)
M&N Wind Power	Shoshone Mt. Wind III	Application Under Review	Wind	June-05	85
Duke Energy NA	Moapa Energy Facility I	Under Construction	Gas	Apr-03	600
Reliant	Arrow Canyon	Application Under Review	Gas	Apr-04	575
PG&E NEG	Meadow Valley	Application Under Review	Gas	Jan-11	1,191
Sempra/Reliant	Copper Mt. (El Dorado II)	Regulatory Approval Rec'd	Gas	Mar-05	500
Mirant	Apex Industrial I	Under Construction	Gas	Mar-03	550
Duke Energy NA	Moapa Energy Facility II	Under Construction	Gas	Jun-03	600
M&N Wind Power	Table Mt. Wind Project	Application Under Review	Wind	Dec-03	90
Pinnacle West	Silver Hawk	Application Under Review	Gas	May-04	570
Cogentrix	Toquop Energy	Application Under Review	Gas	Oct-04	1,100
Reliant	Bighorn CC	Under Construction	Gas	Sep-03	580
Blue Diamond Pwr	Red Rock Canyon	Application Under Review	Hydro	Dec-05	400
M&N Wind Power	Shoshone Mt. Wind I	Application Under Review	Wind	Jun-03	85
M&N Wind Power	Shoshone Mt. Wind II	Application Under Review	Wind	Jun-04	85
Overton Pwr Distr.	Tortoise Power Plant	Application Under Review	Gas	Jan-11	100
Black Hills	Las Vegas Cogen II	Under Construction	Gas	Sep-02	230
Total					7,341

* Information based on California Energy Commission's database of Proposed Power Plants with the WSCC - Updated February 27, 2002

LOAD/RESOURCE BALANCE

Figure 6-1 provides an illustration of the projected load/resource balance for the 10-year period.

Figure 6-1
Estimated Loads and Resources
For the Southern Nevada Market Area
(2002 through 2011)

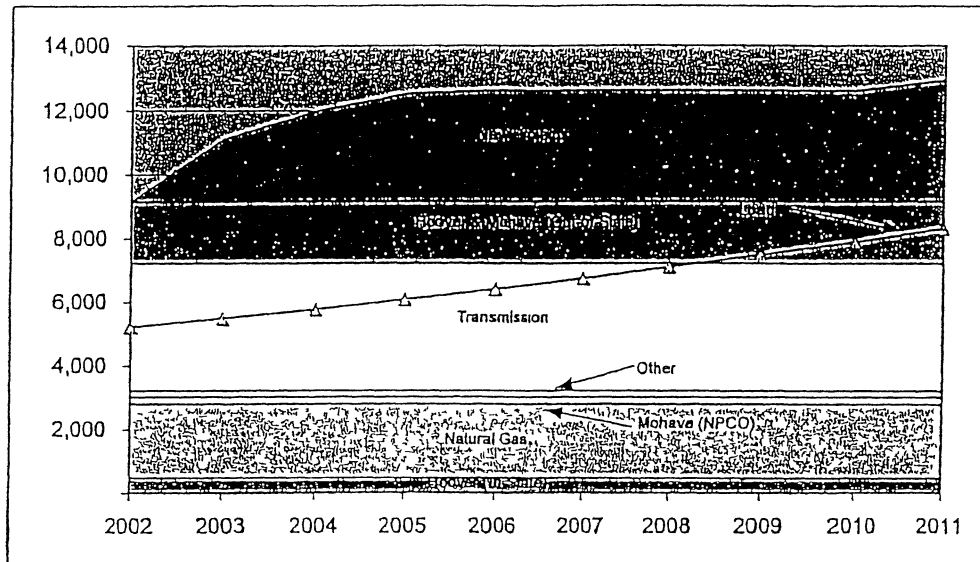


Figure 6-1 shows that with proposed new projects, transmission imports and exports out-of-Market Area there is substantial resources to meet the needs of the Southern Nevada Market Area. Without the new projects the Southern Nevada Market Area is dependent on imports from other regions; however, the NPC is an owner in resources located in other Desert Southwest states and it utilizes the transmission system to bring those resources home.

POLITICAL AND REGULATORY ISSUES

On December 6, 2001, the Nevada Governor, Kenny Guinn (R), announced that three power plants under construction in Southern Nevada would increase generating capacity by 2800 MW, with a total investment of \$17 billion. Governor Guinn was instrumental in securing cooling water for the plants, and in exchange the generators will guarantee that 25 percent of production is delivered within the Nevada state lines

The major regulatory issue facing the Southern Nevada Market Area is the financial instability of Nevada Power Company, which is also leading to uncertainty regarding reliability for the summer of 2002. The following is a brief chronological synopsis of

Nevada Power Company's efforts to recover costs associated with wholesale power purchases in 2000 and 2001 from their retail electricity customers.

October 1, 2001 – Nevada Power Company files a General Rate Case Nevada PUC. The filing, the first general rate filing since 1993, seeks an overall three percent increase for operating costs. Under existing rules, Nevada Power is required to take a two-phased approach to resetting energy policy and electric rates. The general rate case, phase one, is the beginning of a six-month public filing process before any rates are changed on April 1, 2002. Phase one will provide a detailed look at the company's facility additions (nearly \$1 billion since 1993), and all incurred expenses including capital costs.

November 30, 2001 – Nevada Power Company files a request with the Nevada PUC to recover the actual costs for wholesale power and fuel it purchased for customers during the height of the energy crisis. The request seeks to increase rates approximately \$307 million (21 percent). These rates are expected to remain in place for three years.

December 5, 2001 - Nevada Power Company and Sierra Pacific Power file formal complaints with the Federal Energy Regulatory Commission seeking a reduction in future prices on contracts they entered into to serve their customers during the height of the energy crisis.

March 27, 2002 - The Nevada PUC issues a decision to cut Nevada Power's general rate increase request. Nevada Power had originally filed the request on October 1, 2001, separate from its pending request for recovery of deferred energy expenses incurred during the peak months of 2001. The company had initially requested a \$42 million increase, but later revised that to \$23 million to account for customer growth and other adjustments. The Nevada PUC ordered a \$43 million rate decrease for the utility company, focusing mostly on rate of return, depreciation, and other financial and accounting issues.

April 1, 2002 – The Nevada PUC voted to allow Nevada Power Company to recover, over three years, \$485 million out of the \$922 million of deferred energy costs it incurred during the peak months of 2001 through a rate change effective April 1, 2002.

April 4, 2002 - Union Bank of California confirmed its line of credit to Sierra Pacific Resources' two utility operations, Nevada Power and Sierra Pacific Power, a decision that provides liquidity to the companies. As a result, Nevada Power retains its \$200 million credit facility and Sierra Pacific Power retains its \$150 million credit facility. The confirmation follows an announcement by Nevada Power that it will cut capital expenses and seek reconsideration of the deferred energy order by the Nevada PUC of the deferred energy expenses from 2001.

The final market area examined in this market assessment is the Arizona Market Area. The load growth in Arizona has been significant over the past two decades and it is anticipated that the Arizona Market Area will continue to grow at a three percent range for the next 10-years. The Arizona Market Area contains a large IOU, Arizona Public Service (APS); a large quasi-municipal utility, the Salt River Project (Salt River); a medium-sized IOU, Tucson Electric Power (Tucson), and 45 other small electric utilities.

Arizona has a fairly large and diverse existing resource base that includes Palo Verde nuclear power plant, the massive Navajo coal project, Glen Canyon hydroelectric facilities, and several other large hydro and natural gas-powered plants. In addition, more than 20,000 MW of proposed new generation is currently planned for the Arizona Market Area; however several of these proposed projects are coming under close and increased scrutiny by the Arizona Commerce Commission, which wants generation built in Arizona to be to serve Arizona load. Finally, the Arizona Market Area contains a massive (and constrained) transmission system that is utilized to move power from the Four Corners region and the large generation units located in the Arizona Market Area to the loads in the Phoenix and Tucson areas and through the state to southern Nevada and southern California.

LOADS

For the summer peak load of 2002, the estimated load in the Arizona Market Area is 15,554 MW. The load is almost evenly distributed between APS (5,495 MW) (35 percent), Salt River (5,152 MW) (33 percent), and the rest of the Arizona Market Area (4,907 MW) (32 percent). Table 7-1, shown below summarizes the projected peak load by major utility for the Arizona Market Area. The peak load represented is a sum of the individual non-coincidental peak load and not necessarily the coincidental peak for the Arizona Market Area.

Table 7-1
Electric Utilities in
The Arizona Market Area

Utility	2002 Peak (MW)
Arizona Public Service	5,495
Tucson Electric Power	1,918
Other IOUs	625
Salt River Project	5,192
Other Governmental Entities	2,324
Total	15,554

Load Forecast

The estimated 10-year load forecast for the Arizona Market Area was derived from data sources that included the WSCC 10-year Coordinated Plan Summary, Arizona Corporation Commission (ACC) data, and individual data from APS and Salt River. It is estimated that on average the load in the Arizona Market Area will grow at 2.8 percent over the forecast period, with growth rates at 3.5 percent in the metropolitan areas.

This forecast estimates that the APS load will begin the forecast period at 5,495 MW and reach 7,489 MW by 2011. Salt River's estimated load will grow from 5,152 MW to 6,157 MW and Tucson's load is estimated at 1,918 MW for 2002 and will grow to approximately 2,614 by 2011. A reserve margin of seven percent is used for the Arizona Market Area.

RESOURCES

The Arizona Market Area has plenty of resources to meet the current load requirements and those in the planning horizon. Existing generation is estimated to be over 16,700 MW with an additional 1,200 expected online in 2002. Arizona Market Area utilities also are major owners in generation resources located in southern Nevada and New Mexico. At the same time, southern California utilities have significant ownership in projects located in Arizona.

Estimating a transmission import capability for the Arizona Market Area is very difficult, as the massive EOR transmission system runs through the state. However, for purposes of this report, it is assumed that the import capability is at least 5,000 MW (this amount may be understating actual capability but overstating practice).

Market Area Generation

Existing Arizona Market Area Generation is approximately one-third natural gas-fired generation (5,673 MW), one-third coal-fired generation (5,311 MW), one-fifth nuclear (3,733 MW), and one-sixth hydroelectric (2,887 MW). Table 7-2 summarizes the composition of the existing generating units in Arizona.

Table 7-2
Composition of Generation for
The Arizona Market Area

Fuel Type	Capacity (MW)	Percent of Total
Coal	5,311	30%
Petroleum	240	1%
Gas	5,678	32%
Nuclear	3,733	21%
Hydroelectric	2,887	16%
Renewable	1	0%
Total	17,850	100%

Transmission Import Capability

The transmission system of Arizona essentially serves two purposes. The first is to move power to the Arizona load in the greater Phoenix area and the second is to move power to the large southern California marketplace (and southern Nevada) via the EOR and WOR transmission system. In addition to the EOR system, Arizona is electrically interconnected with Utah via the TOT 2B Path and with New Mexico via the Four Corners Path. Import capability from Utah to Arizona is limited due to long-term exchanges between APS and PacifiCorp. Table 7-3 highlights the non-simultaneous transfer capability of the transmission paths into Arizona (note that the EOR only in the east-west direction).

Table 7-3
Non-Simultaneous Transmission Import Capability
Into the Arizona Market Area

Transmission Path	Capacity (MW)
EOR	7,550
TOT 2B (Siguard-Glen Canyon)	265
Four Corners	2,325

Proposed Generation

As shown in table 7-4, over 20,300 MW of additional generation is proposed for the Arizona Market Area, some of which is targeting the Southern California and Southern Nevada Market Areas. All but 1,250 MW is proposed to be natural gas-fired generation. As in the Southern California and Southern Nevada Market Areas, the amount that will actually be built and brought in-service is likely to be significantly less. In fact, more than 2,500 MW of proposed generation for the Arizona Market Area has been cancelled in the past year. Furthermore, the ACC is becoming much more stringent on issuing licenses for power projects with an eye on serving load outside of Arizona.

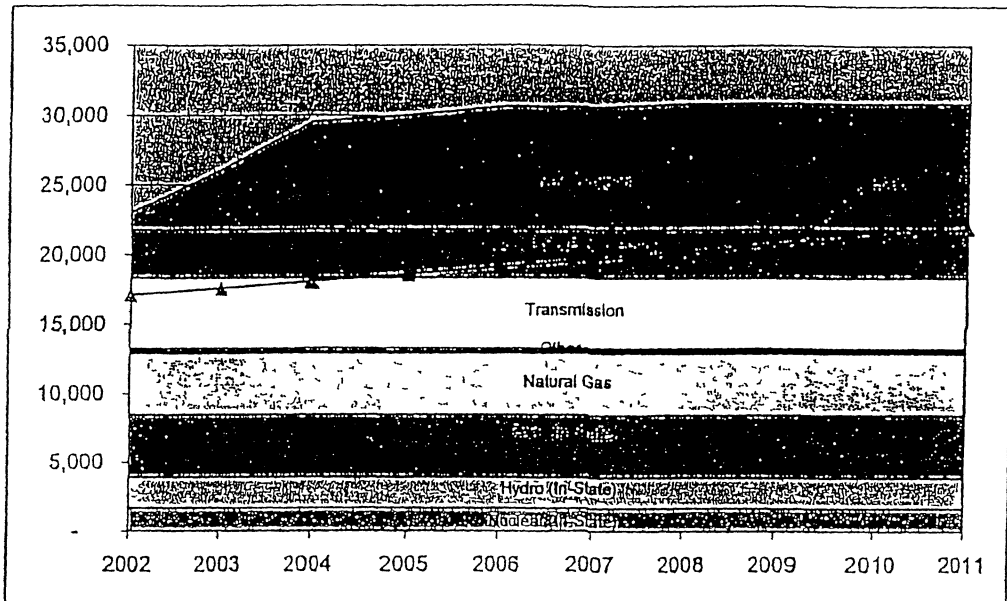
Table 7-4
Proposed Generation Projects for
The Arizona Market Area

Company	Project	Status	Fuel Type	Online Date	Capacity (MW)
Oasis LLC	Kyrene (Oasis)	Under Construction	Gas	Apr-02	250
PPL Global	Sundance Energy Project 2	Regulatory Appvl Rc'd	Gas	Sep-02	90
APS	Redhawk 3	Regulatory Appvl Rc'd	Gas	Jun-06	530
Reliant	Signal Peak I	Press Release Only	Gas	Apr-04	580
Reliant	Signal Peak II	Press Release Only	Gas	Jan-09	580
SRP	Santan	App Under Review	Gas	May 05	825
Power Dev Ent	Gila Bend	App Under Review	Gas	Jun-04	845
Panda Energy/TECO	Gila River 1	Under Construction	Gas	Apr-03	520
Independent Power Tech	Winchester	Press Release Only	Gas	Jun-07	750
Arizona Elec Power Co op	Apache Station GT #4	App Under Review	Gas/FO	Oct-02	40
Unisource/Bechtel	Springerville Generation I	App. Under Review	Coal	Jun-04	380
PG&E NEG	Harquahala Gen. Station	Under Construction	Gas	Sep-03	1,040
Griffith Energy (PPL&Duke)	Griffith Energy Project	Operational	Gas	Jan-02	650
APS/Calpine	West Phoenix (Phase 2)	Under Construction	Gas	Sep-02	500
APS Reliant	Redhawk 1	Under Construction	Gas	Jan-03	530
APS	Redhawk 4	Regulatory Appvl Rc'd	Gas	Dec-07	530
Duke	Arlington Valley II	Regulatory Appvl Rc'd	Gas	Jul-03	600
APS/Reliant	Redhawk 2	Under Construction	Gas	Jan-03	530
Duke	Arlington Valley 1	Under Construction	Gas	Aug-02	580
SW Power Group II	Bowie I	Regulatory Appvl Rc'd	Gas	Jun 04	500
Panda Energy/TECO	Gila River II	Under Construction	Gas	Apr-03	520
Allegheny	La Paz II	App Under Review	Gas	Apr 05	540
PG&E NEG/Shawn	Tonopah	Press Release Only	Gas	Jun-03	1,100
Maestros Group	Ambos Nogales Generating	Press Release Only	Gas	Jan-07	500
Panda Energy/TECO	Gila River III	Regulatory Appvl Rc'd	Gas	Sep 03	520
Panda Energy/TECO	Gila River IV	Regulatory Appvl Rc'd	Gas	Sep 03	520
Arizona Independent Pwr	White Tank Mountain	Press Release Only	Hydro	Jan 11	1 250
Williams Energy	Littlefield (Beaver Dam)	Press Release Only	Gas	Jun 03	500
Unisource/Bechtel	Springerville Generation II	App Under Review	Coal	Dec-05	380
Allegheny	La Paz I	App Under Review	Gas	Nov 04	540
Sempra Energy Resources	Mesquite Power	Under Construction	Gas	Jan-04	1,265
PPL Global	Sundance Energy Project 1	Under Construction	Gas	Jun 02	450
Powergen LLC	Safford	Press Release Only	Gas	Jan 11	220
Tucson Electric	Vail Generating (Rita Ranch)	App Under Review	Gas	Dec 03	150
SW Power Group II	Bowie II	Regulatory Appvl Rc'd	Gas	Dec 05	500
Welton Mohawk	Welton Mohawk (Yuma Enrgy)	App Under Review	Gas	Jun 03	500
Total					20,305

LOAD/RESOURCE BALANCE

As shown in Figure 7-1, there is ample supply to meet the expected load in the Arizona Market Area for the forecast period.

Figure 7-1
 Estimated Loads and Resources
 For the Arizona Market Area
 (2002 through 2011)



The rapid load growth in Arizona will require the construction of new resources in the Arizona Market Area. This demand is expected to be met by numerous new projects proposed for the Arizona Market Area. The biggest issue facing the Arizona Market Area is the lack of transmission infrastructure to serve the load growth in the central Arizona region. The limited transmission infrastructure (particularly between Utah and Arizona) limits the opportunities for the Spring Canyon Energy Project to serve the Arizona Market Area, with the exception of potentially augmenting or supplanting the current arrangements between PacifiCorp and APS.

POLITICAL AND REGULATORY ISSUES

Arizona Governor Jane Hull is the chair of the Western Governors' Association (WGA). Hull will serve the WGA through August 2002. It was the WGA that helped put pressure on WECC wide price caps and also conducted a study that recommended regional planning for the development and construction of a robust electric transmission

system for the WECC. Governor Hull has made public statements about protecting Arizona power from being exported to neighboring states (presumably California).

The 2001-2002 Arizona Legislature did not deal with many energy-related issues

The ACC is active both in placing restrictions on new power plants and encouraging the development of additional transmission facilities.

On May 1, 2002, the ACC approved a Certificate of Environmental Quality for Salt River's expansion of its generation facility at the Santan Generating Facility. A total of 825 new MW will be added through three separate combined cycle natural gas units.

In a 2-1 vote on April 8, 2002, the ACC approved the La Paz Generating Facility proposed for La Paz County in southwestern Arizona. When completed in 2005, the power plant will be capable of delivering 1,080 megawatts to the power grid. Allegheny Energy Supply, the project developer, expects to begin construction on the \$540-million natural gas-fired plant later this year. The Arizona Power Plant and Transmission Line Siting Committee on the La Paz site imposed forty conditions on Allegheny for this project. They include:

- Prior to construction of the facility, Allegheny must provide the Commission with a technical study showing that operation of the plant will not compromise the reliable operation of the interconnected transmission system.
- If upgrades to the transmission system are necessary, the study will have to identify the upgrades to be completed before the project commences commercial operations
- Groundwater withdrawal is anticipated to be less than 6,500 acre-feet per year operating at full capacity but the total annual pumping cannot exceed the amount of water spelled out in Arizona Revised Statute §45-440(A).
- Establishment of a monitoring project for ground subsidence and earth fissures. Subsidence is a potential side effect of groundwater pumping. Cracks, fissures or dips can form in the surface of the earth because the water deep underground that provided physical support is no longer there
- Before selling power elsewhere, La Paz Generating Station must first offer wholesale power to companies serving power to Arizona users
- The plant operators must try to use qualified Arizona contractors and encourage the hiring of qualified local employees
- Allegheny will have to coordinate activities to minimize construction and operational impacts on local wildlife and native vegetation. A biologist and archeologist will monitor all ground clearing and construction activities

- Allegheny must comply with air and water quality standards imposed by the Arizona Department of Environmental Quality and the Arizona Department of Water Resources.

On January 31, 2002, the ACC denied SouthWestern Power Group II's application to build the 1,800 megawatt Toltec Power Station in Eloy, Arizona. The Commissioners said the applicants failed to prove a need for the project and chose the wrong site for a project of this magnitude. The project, approximately eight miles from Picacho Peak, a popular recreation area in the southern Arizona desert, would have generated enough power for a half million people or more, according to testimony. However, according to all three Commissioners, the combination of its location in a sensitive environment and the applicant's failure to adequately address the need issue compelled a "no" vote.

As a part of the market assessment associated with the proposed Spring Canyon Energy Project, Navigant Consulting has provided a general overview and discussion of electricity and natural gas prices within the WECC. This section of the Report provides several illustrations of historical and projected prices at major trading hubs in the western United States. Although Navigant Consulting did not propose to develop specific electricity or natural gas price forecasts for this market assessment, these various price projections have been gathered from available market sources and materials to serve as a guide in illustrating potential market trends.

This section of the Report also provides a historical spark spread analysis based on past market conditions. The spark spread analysis is prepared to provide an indication of how a project similar to the proposed Spring Canyon Energy Project may have performed versus historical energy and natural gas prices.

ENERGY PRICES

Figures 8-1 and 8-2 provide an illustration of historical wholesale energy prices at four of the major trading hubs in the WECC for the period January 1998 through December 2001. Prices represent the average of the daily "on-peak" index prices for each month as published in Power Markets Week. The major trading hubs include:

- California-Oregon Border (COB): Northern California and Oregon
- Mid-Columbia: Pacific Northwest
- Four Corners: Desert Southwest
- Palo Verde: Southern California, Southern Nevada, and Arizona

Figure 8-1
 Illustration of "On Peak" Energy Prices
 Within the Western Electricity Coordinating Council
 (January 1998 through May 2000)

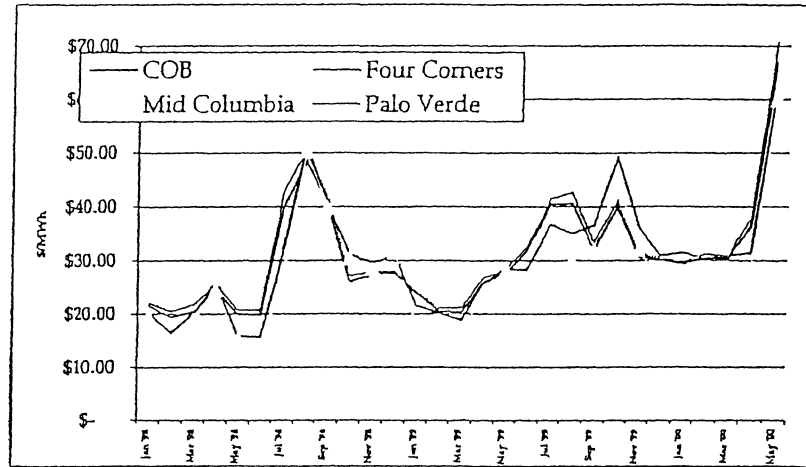
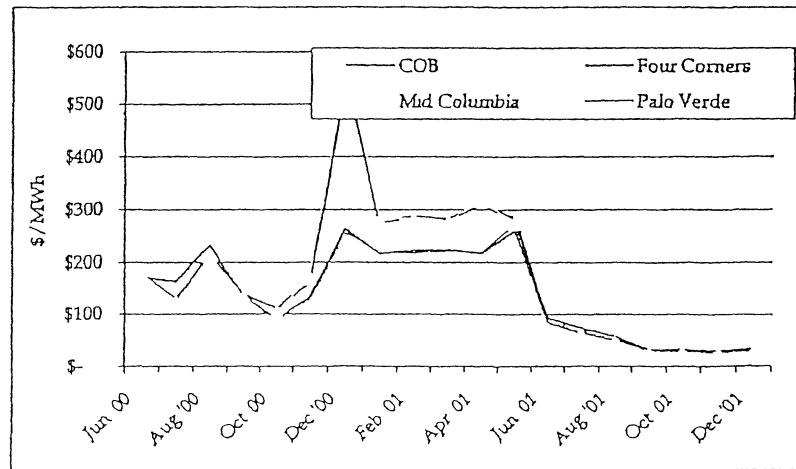


Figure 8-2
 Illustration of "On Peak" Energy Prices
 Within the Western Electricity Coordinating Council
 (June through December 2000)

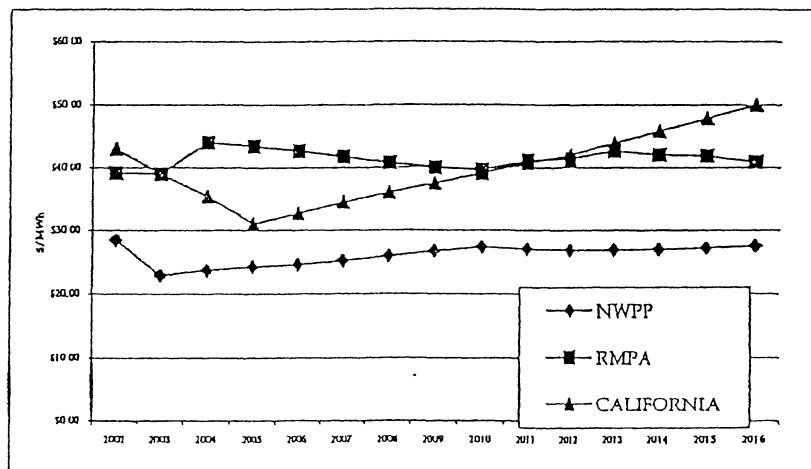


For the period shown in Figure 8-1, wholesale energy prices ranged from \$15 to \$70 per megawatt-hour depending on the specific time of year. During April and May 2000, energy prices began to spike, as early signs of an energy crisis in the west began to surface. Figure 8-2 provides an illustration of wholesale energy prices at the same trading hubs for the period June 2000 through December 2001. Average index prices for

this period exceeded \$500 per megawatt-hour at the California-Oregon Border as California entered an energy crisis in late 2000. Average prices remained above \$200 per megawatt-hour for the first half of 2001 as California and other western states attempted to manage supply shortages throughout the WECC.

To provide an indication of future energy prices, Navigant Consulting has gathered existing information from both the Energy Information Administration (EIA) and the California Energy Commission (CEC), which is summarized in Figure 8-3. EIA price projections are provided for two areas within the WECC: the Northwest Power Pool (NWPP) and the Rocky Mountain Power Pool (RMPA). Information from the CEC was used to serve as an estimate for energy price projections in California.

Figure 8-3
 Illustration of Projected Prices
 Within the Western Electricity Coordinating Council
 (2002 through 2016)



ELECTRICITY PRICE CAPS

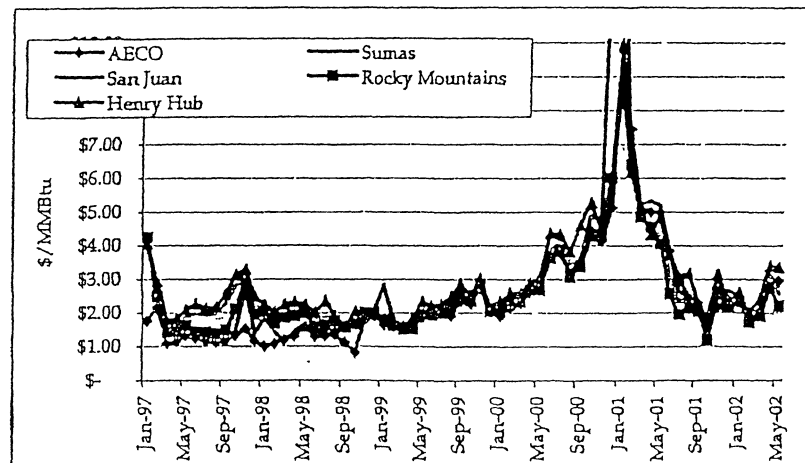
As a result of the energy crisis that California and the entire western United States encountered in late 2000 and early 2001, FERC ruled in June 2001, to institute a Price Mitigation Plan (i.e. wholesale price cap) for electricity bought and sold across the WECC. The WECC-wide price cap, determined by the CAISO and reserves in California, can vary depending on market conditions. Currently, the maximum CAISO clearing price or price cap is approximately \$92/MWh. To encourage energy sales into California, suppliers would be able to receive up to 100 percent of the price cap in California and only 85 percent of the price cap elsewhere in the WECC.

The June 2001 FERC Order calls for the price mitigation to expire at the end of September 2002. In a recent hearing of the United States Senate Committee on Energy and Natural Resources, FERC Commissioner Pat Wood III, reaffirmed the September 2001 expiration date included in the June FERC Order.

NATURAL GAS PRICES

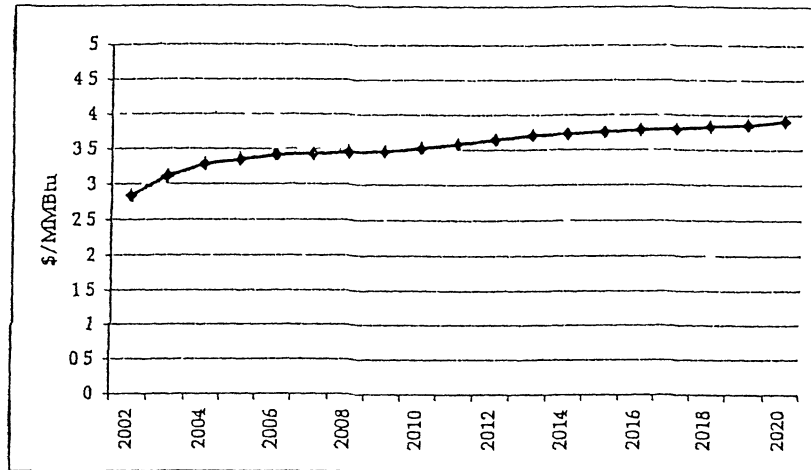
Figure 8-4 shows historical natural gas prices for the major basins (AECO, San Juan, and Rocky Mountain) as well as for Henry Hub for the period January 1997 through April 2002.

Figure 8-4
Illustration of Historical Gas Prices
(1997 through 2002)



Natural gas prices generally ranged from \$1.00 to \$3.00/MMBtu during the period 1997 through 1999. Beginning in early 2000, and as the energy crisis in the west peaked, natural gas prices climbed from \$2.00 to \$10.00/MMBtu in late 2000 to early 2001. After natural gas prices peaked in early 2001, prices declined rapidly during 2001, returning to the \$2.00 to \$3.00/MMBtu range in September and October 2001.

Figure 8-5
 Illustration of Projected Natural Gas Prices
 Within the Western Electricity Coordinating Council
 (2001 through 2022)



In addition to Figure 8-5, Table 8-1 summarizes the historical average annual natural gas price differentials between the San Juan and Rocky Mountain basins. As the table indicates, from the period 1997 through 2001, the price of Rocky Mountain natural gas has averaged from \$0.06 to \$0.33 per MMBtu lower than San Juan natural gas. Monthly price differentials from both basins are provided in Table 8-3.

Table 8-1
 Historical Natural Gas Basin Differentials
 Rocky Mountain Basin versus San Juan Basin
 (1997 through 2001)

Category	Average Annual Basin Prices (\$/MMBtu)				
	1997	1998	1999	2000	2001
San Juan Basin	\$2.33	\$1.87	\$2.05	\$3.51	\$3.76
Rocky Mountain Basin	\$2.00	\$1.80	\$2.03	\$3.40	\$3.60
Basin Differential	(\$0.33)	(\$0.06)	(\$0.02)	(\$0.11)	(\$0.16)

HISTORICAL SPARK SPREAD ANALYSIS

A key aspect in gaining financial support for moving forward with a proposed power project involves demonstrating the proposed project's viability in the marketplace. One such measurement of viability includes conducting a "spark spread" analysis that indicates how a project would perform after taking into consideration future market prices for energy, and in this case, future fuel prices for natural gas.

Although Navigant Consulting did not conduct a comprehensive spark spread analysis for the Spring Canyon Project, or project future energy and natural gas prices to accomplish such, Navigant Consulting was asked to perform a summary spark spread analysis using historical energy and natural gas prices. The purpose of the summary analysis is to provide an indication of how a project with similar performance characteristics to the Spring Canyon Project may have performed versus the market.

Table 8-2 identifies the major components of the analysis and provides an estimation of a monthly spark spread. In order to provide a spark spread estimate that was indicative of "normal" market conditions, Navigant Consulting selected a 1999 test year. Although the energy markets in the west were indeed in a state of regulatory transition in 1999, wholesale prices for electricity and natural gas were not as volatile as demonstrated in 2000 and 2001, and there was no immediate energy crisis impacting the respective markets.

For this analysis, Navigant Consulting provided two bases for determining a spark spread: 1) Palo Verde, and 2) Four Corners, since the electricity prices from these trading hubs are indicative of the area that the Spring Canyon Project may serve. The major components of the analysis include:

- A delivered price for natural gas (Annual average \$2.22/MMBtu)
- Market price for electricity (Annual average Palo Verde \$30.38/MWh and Four Corners \$31.26)
- Assumed heat rate (7,122 Btu/kWh).
- Variable Operation and Maintenance Component (\$2.00/MWh)

Table 8-2
Illustration of Estimated Historical Spark Spread Analysis
For the Proposed Spring Canyon Power Project, LLC
Test Year – 1999

Component	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann. Avg.
Rocky Mt. Basin Gas Price (\$/MMBtu)	1.79	1.62	1.51	1.52	1.97	1.94	1.99	2.18	2.55	2.37	2.86	2.05	2.03
Natural Gas Transport. Rate (\$/MMBtu)	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Delivered Price of Natural Gas (\$/MMBtu)	1.98	1.81	1.70	1.71	2.16	2.13	2.18	2.37	2.74	2.56	3.05	2.24	2.22
Elect. Mkt Price – Four Corners (\$/MWh)	24.07	20.65	20.40	25.81	27.61	31.90	40.55	40.71	31.91	39.95	30.85	30.22	30.38
Elect. Mkt Price – Palo Verde (\$/MWh)	24.17	21.17	21.25	26.79	28.41	32.68	41.49	42.71	33.40	41.06	31.51	30.51	31.26
Assumed Project Heat Rate (Btu/kWh)	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122	7,122
Variable Op. & Maint. Costs (\$/MWh)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Production Costs of Electricity (\$/MWh)	16.07	14.86	14.08	14.15	17.36	17.14	17.50	18.85	21.49	20.20	23.69	17.92	17.78
Spark Spread at Four Corners (\$/MWh)	8.00	5.79	6.32	11.66	10.25	14.76	23.05	21.86	10.42	19.74	7.16	12.29	12.61
Spark Spread at Palo Verde (\$/MWh)	8.10	6.31	7.17	12.64	11.05	15.54	23.99	23.86	11.92	20.86	7.82	12.58	13.49

Notes

- (1) Historical market prices for electricity at Four Corners and Palo Verde based on the monthly average of daily index "On-peak" prices as published in Power Markets Week.
- (2) On-Peak electricity prices represent 16 hour block (Hour ending 6 am through Hour ending 10 pm)
- (3) Historical Rocky Mountain Basin natural gas prices based on information published in Gas Daily – Monthly Contract Price
- (4) Natural Gas Transportation rate based on firm transmission rate from Questar's current FERC gas transportation tariff. Rate includes reservation charge and usage charge.
- (5) Figures shown above are intended to provide an indication of historical price differentials between the market and a facility with a similar heat rate to the proposed Spring Canyon Power Project.

Based on these general assumptions, the results of the historical spark spread analysis concludes that a project with similar performance characteristics of the Spring Canyon Project would have a annual average spark spread between approximately \$12.50 and \$13.50/MWh.

CONCLUSIONS

In summarizing much of the historical energy and natural gas price data within the WECC, as well as considering the operational characteristics of the proposed Spring Canyon Project, some general conclusions can be made with regard to the Project:

- The expiration of the FERC price caps at the end of September 2002 will not negatively impact the proposed Spring Canyon Energy Project; rather it provides a market environment for potentially capitalizing on the efficient characteristics of the Project.
- Historical average natural gas price differentials at the San Juan and Rocky Mountain Basin suggest a competitive advantage for the Project's close proximity and access to Rocky Mountain natural gas.

- A spark spread analysis based on historical energy prices, natural gas prices, and the efficient operational characteristics of the Project reveal an average annual spark spread of \$12.50 to \$13.50 during non-emergency market conditions.

APPENDIX A

SPRING CANYON ENERGY LLC
 PRELIMINARY MARKET ASSESSMENT LOADS AND RESOURCES BALANCE
 UTAH MARKET AREA - PEAK DEMAND
 (2002 THROUGH 2011)

072
10/19/11

CATEGORY	(1) 2002	(2) 2003	(3) 2004	(4) 2005	(5) 2006	(6) 2007	(7) 2008	(8) 2009	(9) 2010	(10) 2011	AVERAGE GROWTH
I LOADS											
(A) INVESTOR-OWNED UTILITIES (IOUs)											
Per Recp	3 820	3 909	4 018	4 113	4 201	4 306	4 344	4 490	4 556	4 760	2 %
SUBTOTAL IOUS	3 820	3 909	4 018	4 113	4 201	4 306	4 344	4 490	4 556	4 760	2 %
(B) MUNICIPALITIES/ELECTRIC CO-OPS (MUNICIPAL)											
UMPA	206	211	217	222	227	232	234	242	246	257	2.5%
UAMPS	603	617	634	649	663	680	686	709	719	73	2.5%
COOPS	165	169	174	178	181	186	188	194	197	206	5%
SUBTOTAL MUNICIPAL	974	997	1 024	1 049	1 071	1 098	1 108	1 145	1 162	1 14	2.5%
(C) TOTAL LOAD	4 794	4 906	5 042	5 162	5 272	5 404	5 452	5 635	5 718	5 974	2.3
(D) RESERVE MARGIN (10%)	479	491	504	516	527	540	545	563	572	597	~5%
TOTAL LOADS	5 273	5,394	5,547	5 678	5 799	5,944	6,000	6,198	6,290	6,571	2.4
II RESOURCES											
(A) EXISTING GENERATION CAPACITY											
Hydro	247	247	247	247	247	247	247	247	247	247	NA
Natural Gas/Oil	419	419	419	419	419	419	419	419	419	419	NA
Coal	4 486	4 486	4 486	4 486	4 486	4 486	4 486	4 486	4 486	4 486	NA
Renewables	12	12	12	12	12	17	17	12	12	12	NA
Other	55	55	55	55	55	55	55	55	55	55	NA
SUBTOTAL EXISTING GENERATION	5,219	5,219	5,219	5,219	5,219	5,219	5,219	5,219	5,219	5,219	NA
(B) PROPOSED NEW GENERATION CAPACITY											
Hydro	0	0	0	0	0	0	0	0	0	0	NA
Natural Gas/Oil	0	200	200	220	220	220	220	220	220	220	NA
Coal	0	0	0	0	0	0	0	0	0	0	NA
Renewables	0	0	0	0	0	0	0	0	0	0	NA
Other	0	0	0	0	0	0	0	0	0	0	NA
SUBTOTAL NEW GENERATION	0	200	220	220	220	220	220	220	220	220	NA
(C) OUTAGE ADJUSTMENT FACTOR (%)	0	0	0	0	0	0	0	0	0	0	NA
(D) TRANSMISSION IMPORTS											
Simultaneous Import Capability	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	NA
TOTAL RESOURCES	7 419	7 619	7 639	7 639	7 639	7 639	7 639	7 639	7 639	7 639	NA
LOAD / RESOURCE BALANCE (SURPLUS/(DEFICIT))	2,226	2,223	2,092	1 961	1 840	1 695	1 642	1 441	1,250	1 068	NA
PERCENT OF TOTAL LOAD	42%	41%	38%	35%	32%	29%	27%	25%	21%	16%	NA
LOAD / RESOURCE BALANCE (SURPLUS/(DEFICIT)) -	982	979	848	717	596	451	398	197	106	(76)	NA
PERCENT OF TOTAL LOAD	19%	18%	15%	13%	10%	8%	7%	3%	1%	0%	NA

SPRING CANYON ENERGY, LLC
 PRELIMINARY MARKET ASSESSMENT - LOADS AND RESOURCES BALANCE
 NORTHERN NEVADA MARKET AREA - PEAK DEMAND
 (2002 THROUGH 2011)

CATEGORY	(1) 2002	(2) 2003	(3) 2004	(4) 2005	(5) 2006	(6) 2007	(7) 2008	(8) 2009	(9) 2010	(10) 2011	AVERAGE GROWTH
I. LOADS:											
(A) INVESTOR-OWNED UTILITIES (IOUs):											
Sierra Pacific Power	1,637	1,700	1,744	1,790	1,805	1,826	1,844	1,862	1,881	1,900	1.5%
SUBTOTAL - IOUS	1,637	1,700	1,744	1,790	1,808	1,826	1,844	1,862	1,881	1,900	1.5%
(B) MUNICIPALITIES/ELECTRIC CO-OPS (MUNICIPAL):											
Wells Rural Electric Cooperative	102	104	106	108	109	110	112	113	114	115	1.3%
Mount Wheeler Power Inc.	44	45	46	47	47	48	48	49	49	50	1.3%
Fallon Municipal Electric System	15	15	16	16	16	16	16	17	17	17	1.3%
SUBTOTAL - MUNICIPAL	161	164	168	171	173	174	176	171	180	181	1.3%
(C) TOTAL LOAD	1,818	1,864	1,912	1,960	1,980	2,000	2,020	2,040	2,060	2,081	1.5%
(D) RESERVE MARGIN (%)	127	131	134	137	139	140	141	143	144	146	1.5%
TOTAL LOADS	2,045	2,095	2,046	2,098	2,119	2,140	2,161	2,183	2,205	2,227	1.5%
II. RESOURCES:											
(A) EXISTING GENERATION CAPACITY:											
Coal	621	621	621	621	621	621	621	621	621	621	NA
Natural Gas	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	NA
Hydro	11	11	11	11	11	11	11	11	11	11	NA
Diesel/Fuel Oil	72	72	72	72	72	72	72	72	72	72	NA
Geothermal	192	192	192	192	192	192	192	192	192	192	NA
SUBTOTAL - EXISTING GENERATION	1,898	1,898	1,898	1,898	1,898	1,898	1,898	1,898	1,898	1,898	NA
(B) PROPOSED NEW GENERATION CAPACITY:											
Coal	0	0	0	0	0	0	0	0	0	0	NA
Natural Gas	0	0	135	135	135	135	135	135	135	255	NA
Hydro	0	0	0	0	0	0	0	0	0	0	NA
Diesel/Fuel Oil	0	0	0	0	0	0	0	0	0	0	NA
Geothermal	12	12	12	12	12	12	12	12	12	12	NA
SUBTOTAL - NEW GENERATION	12	12	147	147	147	147	147	147	147	267	NA
(C) OUTAGE ADJUSTMENT (%)	0	0	0	0	0	0	0	0	0	0	NA
(D) TRANSMISSION IMPORT CAPABILITY: Simultaneous Transfer Capability	650	650	650	650	650	650	650	650	650	650	NA
TOTAL RESOURCES	2,560	2,560	2,695	2,695	2,695	2,695	2,695	2,695	2,695	3,015	NA
LOAD / RESOURCE BALANCE (SURPLUS/(DEFICIT))	614	565	649	797	776	755	733	712	690	788	NA
PERCENT OF TOTAL LOAD	32%	28%	32%	38%	37%	35%	34%	33%	31%	35%	NA

SPRING CANYON ENERGY LLC
 PRELIMINARY MARKET ASSESSMENT - LOADS AND RESOURCES BALANCE
 SOUTHERN NEVADA MARKET AREA - PEAK DEMAND
 (2002 THROUGH 2011)

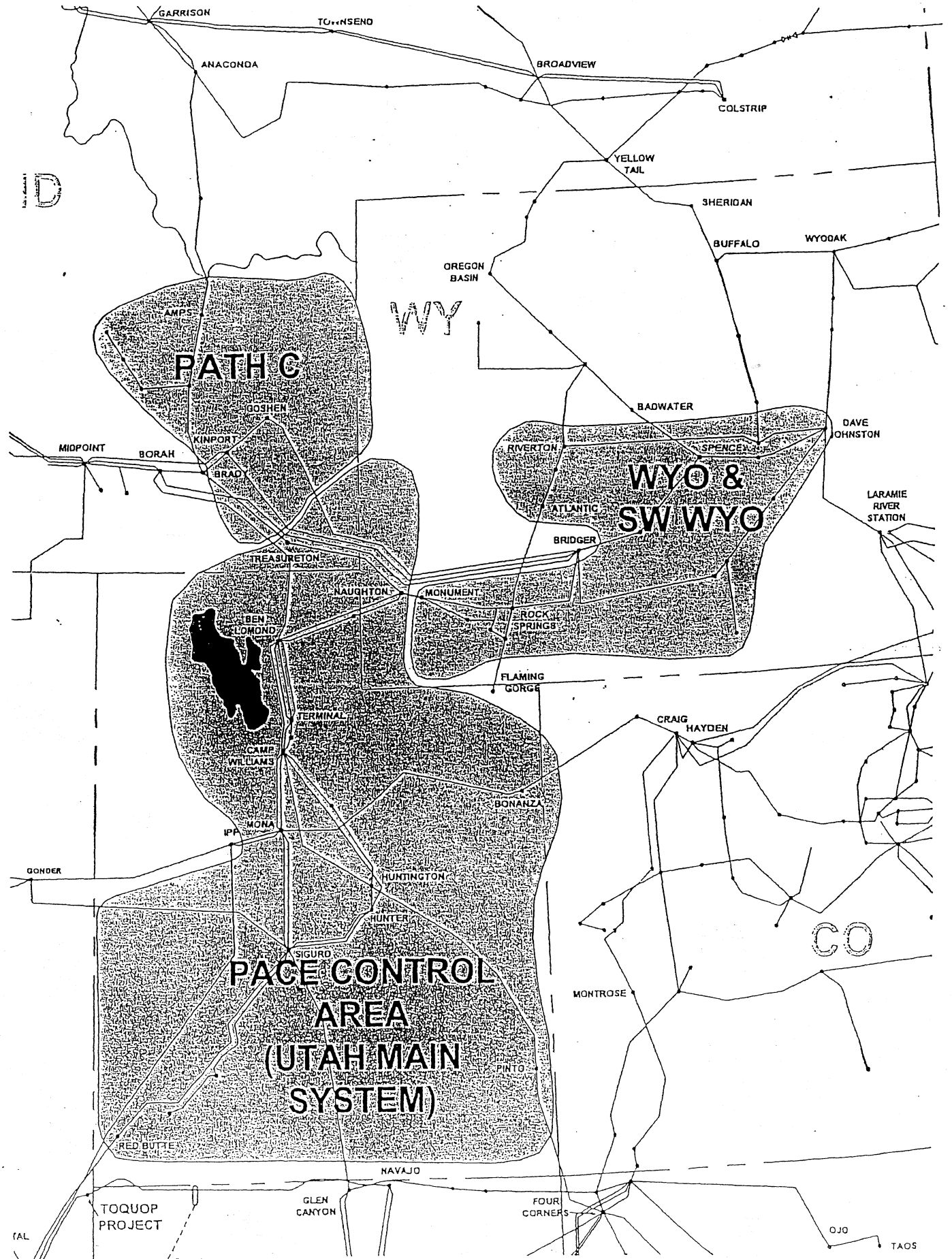
CATEGORY	(1) 2002	(2) 2003	(3) 2004	(4) 2005	(5) 2006	(6) 2007	(7) 2008	(8) 2009	(9) 2010	(10) 2011	AVERAGE GROWTH
I. LOADS											
(A) INVESTOR-OWNED UTILITIES (IOUs):											
Nevada Power Company	4,311	4,557	4,816	5,091	5,381	5,688	6,012	6,355	6,717	7,100	5.7%
SUBTOTAL - IOUS	4,311	4,557	4,816	5,091	5,381	5,688	6,012	6,355	6,717	7,100	5.7%
(B) MUNICIPALITIES/ELECTRIC CO-OPS (MUNICIPAL):											
Alamo Power District No. 2	3	3	3	3	3	3	3	3	3	3	1.0%
City of Boulder	48	49	50	51	52	53	54	55	56	57	2.0%
City of Caliente	3	3	3	3	3	3	3	3	3	3	1.0%
Colorado River Comm of Nevada	324	330	337	344	351	358	365	372	380	387	2.0%
Lincoln County Power District No. 1	15	15	15	15	16	16	16	16	16	16	1.0%
Oregon Power District No. 5	70	71	72	74	76	77	79	80	82	84	2.0%
Panaca Power & Light Company	2	2	2	2	2	2	2	2	2	2	1.0%
City of Prichard	2	2	2	2	2	2	2	2	2	2	1.0%
Valley Electric Association	94	96	98	100	102	104	106	108	110	112	2.0%
SUBTOTAL - MUNICIPAL	561	572	583	595	606	618	630	642	655	668	2.0%
(C) TOTAL LOADS	4,872	5,129	5,400	5,686	5,987	6,306	6,642	6,997	7,372	7,768	5.1%
(D) RESERVE MARGIN (7%)	341	359	378	398	419	441	465	490	516	544	5.3%
TOTAL LOADS	5,213	5,488	5,778	6,084	6,407	6,747	7,107	7,487	7,888	8,312	6.3%
II. RESOURCES											
(A) EXISTING GENERATION CAPACITY:											
Coal	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185	NA
Natural Gas	2,321	2,321	2,321	2,321	2,321	2,321	2,321	2,321	2,321	2,321	NA
Hydro	1,039	1,039	1,039	1,039	1,039	1,039	1,039	1,039	1,039	1,039	NA
Diesel/Fuel Oil	202	202	202	202	202	202	202	202	202	202	NA
Geothermal	0	0	0	0	0	0	0	0	0	0	NA
SUBTOTAL - EXISTING GENERATION	5,748	5,748	5,748	5,748	5,748	5,748	5,748	5,748	5,748	5,748	NA
(B) PROPOSED NEW GENERATION CAPACITY:											
Coal	0	0	0	0	0	0	0	0	0	0	NA
Natural Gas	0	1,980	2,846	3,371	3,371	3,371	3,371	3,371	3,371	3,694	NA
Hydro	0	0	0	0	100	100	100	100	100	100	NA
Diesel/Fuel Oil	0	0	0	0	0	0	0	0	0	0	NA
Geothermal	0	0	0	0	0	0	0	0	0	0	NA
SUBTOTAL - NEW GENERATION	0	1,980	2,846	3,371	3,471	3,471	3,471	3,471	3,471	3,794	NA
(C) OUTAGE ADJUSTMENT (%)	0	0	0	0	0	0	0	0	0	0	NA
(D) TRANSMISSION IMPORT CAPABILITY											
Simultaneous Transfer Capability	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	NA
TOTAL RESOURCES	9,748	11,728	12,594	12,119	12,219	12,219	12,219	12,219	12,219	12,542	NA
LOAD / RESOURCE BALANCE (SURPLUS/(DEFICIT))	4,535	6,240	6,817	7,036	6,813	6,472	6,112	5,731	5,331	5,230	NA
PERCENT OF TOTAL LOAD	87%	114%	118%	116%	106%	96%	86%	77%	68%	63%	NA

SPRING CANYON ENERGY LLC
 PRELIMINARY MARKET ASSESSMENT - LOADS AND RESOURCES BALANCE
 SOUTHERN CALIFORNIA MARKET AREA - PEAK DEMAND
 (2002 THROUGH 2011)

CATEGORY	(1) 2002	(2) 2003	(3) 2004	(4) 2005	(5) 2006	(6) 2007	(7) 2008	(8) 2009	(9) 2010	(10) 2011	AVERAGE GRD YTH
I. LOADS											
(A) INVESTOR-OWNED UTILITIES (IOU)											
Southern California Edison	19,469	19,820	20,176	20,540	20,909	21,286	21,669	22,059	22,456	22,860	1.7%
San Diego Gas and Electric	3,660	3,755	3,853	3,953	4,055	4,161	4,269	4,380	4,494	4,611	6.7%
SUBTOTAL IOUS	23,129	23,575	24,029	24,493	24,965	25,447	25,938	26,439	26,950	27,471	9.7%
(B) MUNICIPALITIES/ELECTRIC CO-OPS (MUNICIPAL)											
Anaheim Public Utilities Department	608	619	631	643	655	668	680	693	706	720	1.9%
Burbank Public Service Department	281	284	288	291	295	298	302	306	309	313	1.1%
California Department of Water Resources	1,059	1,059	1,059	1,059	1,059	1,059	1,059	1,059	1,059	1,059	0.0%
Glendale Public Service Department	312	315	319	323	327	331	335	339	343	347	1.2%
Imperial Irrigation District	753	753	771	790	809	828	848	868	889	910	2.4%
Los Angeles Department of Water and Power	5,486	5,541	5,597	5,653	5,709	5,766	5,824	5,882	5,941	6,000	1.0%
Metropolitan Water District of Southern California	297	297	297	297	297	297	297	297	297	297	0.0%
Pasadena Water and Power Department	286	289	292	295	299	302	305	309	312	315	1.1%
Riverside Utilities	494	505	516	528	539	551	563	576	588	601	1.2%
City of Azusa - Benning and Colton	167	171	175	179	183	187	191	195	199	204	1.2%
Vermont Municipal Light Department	202	206	209	213	217	222	226	230	234	239	1.9%
Azusa Electric Cooperative	9	9	9	10	10	10	10	10	10	10	0.0%
City of Needles	16	16	17	17	17	17	18	18	18	18	0.0%
SUBTOTAL MUNICIPAL	9,933	10,066	10,181	10,297	10,415	10,535	10,657	10,781	10,907	11,034	1.7%
(C) TOTAL LOADS	33,062	33,640	34,210	34,790	35,380	36,082	36,595	37,220	37,857	38,505	1.7%
(D) RESERVE MARGIN (7%)	2,316	2,355	2,395	2,435	2,477	2,519	2,567	2,605	2,650	2,695	1.7%
TOTAL LOADS	35,377	35,995	36,604	37,225	37,857	38,601	39,162	39,825	40,507	41,201	1.7%
II. RESOURCES											
(A) EXISTING GENERATION CAPACITY											
Hydro	4,273	4,273	4,273	4,273	4,273	4,273	4,273	4,273	4,273	4,273	NA
Natural Gas/Oil	19,494	19,494	19,494	19,494	19,494	19,494	19,494	19,494	19,494	19,494	NA
Geothermal	36	36	36	36	36	36	36	36	36	36	NA
Nuclear	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	NA
Other	2,379	2,379	2,379	2,379	2,379	2,379	2,379	2,379	2,379	2,379	NA
SUBTOTAL EXISTING GENERATION	28,332	28,332	28,332	28,332	28,332	28,332	28,332	28,332	28,332	28,332	NA
(B) PROPOSED NEW GENERATION CAPACITY											
Hydro	0	0	0	0	0	0	0	0	0	0	NA
Natural Gas/Oil	500	5,726	6,845	7,775	7,775	7,775	7,775	7,775	7,775	7,775	NA
Geothermal	0	0	0	125	125	125	125	125	125	125	NA
Nuclear	0	0	0	0	0	0	0	0	0	0	NA
Other	0	0	0	0	0	0	0	0	0	0	NA
SUBTOTAL NEW GENERATION	500	5,726	6,845	7,775	7,775	7,775	7,775	7,775	7,775	7,775	NA
(C) OUTAGE ADJUSTMENT (17.5%)	(5,046)	(5,960)	(6,156)	(6,319)	(6,319)	(6,319)	(6,319)	(6,319)	(6,319)	(6,319)	NA
(D) TRANSMISSION IMPORT CAPABILITY	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	NA
TOTAL RESOURCES	36,786	41,097	42,021	42,788	42,788	42,788	42,788	42,788	42,788	42,788	NA
LOAD / RESOURCE BALANCE (SURPLUS/(DEFICIT))	1,409	5,102	5,416	5,563	4,931	4,187	3,631	2,962	2,281	1,547	NA
PERCENT OF TOTAL LOAD	4%	14%	15%	15%	13%	11%	9%	7%	6%	4%	NA

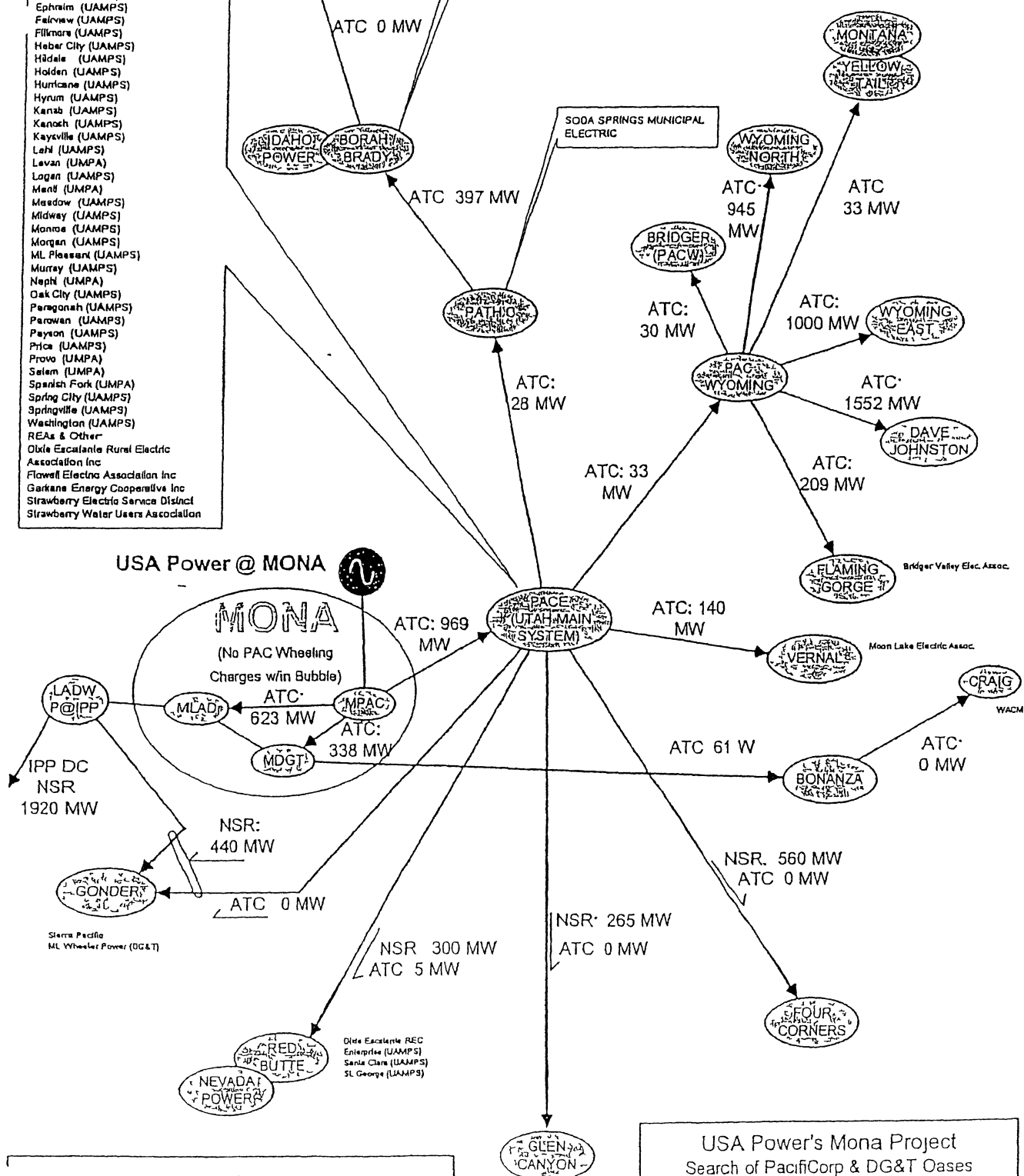
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APPENDIX B



- MUNICIPALS**
- Beaver (UAMPS)
 - Blending (UAMPS)
 - Bountiful (UAMPS)
 - Brigham City (UAMPS)
 - Charleston (UAMPS)
 - Eagle Mountain (UAMPS)
 - Ephraim (UAMPS)
 - Fairview (UAMPS)
 - Fillmore (UAMPS)
 - Heber City (UAMPS)
 - Hildale (UAMPS)
 - Holden (UAMPS)
 - Hurricane (UAMPS)
 - Hyrum (UAMPS)
 - Kanab (UAMPS)
 - Kanosh (UAMPS)
 - Keyville (UAMPS)
 - Lehi (UAMPS)
 - Levan (UMPA)
 - Logan (UAMPS)
 - Manti (UMPA)
 - Meadow (UAMPS)
 - Midway (UAMPS)
 - Monroe (UAMPS)
 - Morgan (UAMPS)
 - ML Pleasant (UAMPS)
 - Murray (UAMPS)
 - Nephi (UMPA)
 - Oak City (UAMPS)
 - Paragonah (UAMPS)
 - Parowan (UAMPS)
 - Payson (UAMPS)
 - Price (UAMPS)
 - Provo (UMPA)
 - Salem (UMPA)
 - Spanish Fork (UMPA)
 - Spring City (UAMPS)
 - Springville (UAMPS)
 - Washington (UAMPS)
 - REAs & Other
 - Oxide Escalante Rural Electric Association Inc
 - Flavel Electric Association Inc
 - Garkane Energy Cooperative Inc
 - Strawberry Electric Service District
 - Strawberry Water Users Association

- Salmon River Elec. Co-op
- Last River Elec. Co-op Inc.
- Fall River Elec. Co-op
- Raft River Rural Elec. Co-op
- Lower Valley Power & Light
- Idaho Falls Electric Light



LEGEND

NSR Non Simultaneous Rating (From WSCC Path Rating Catalog)

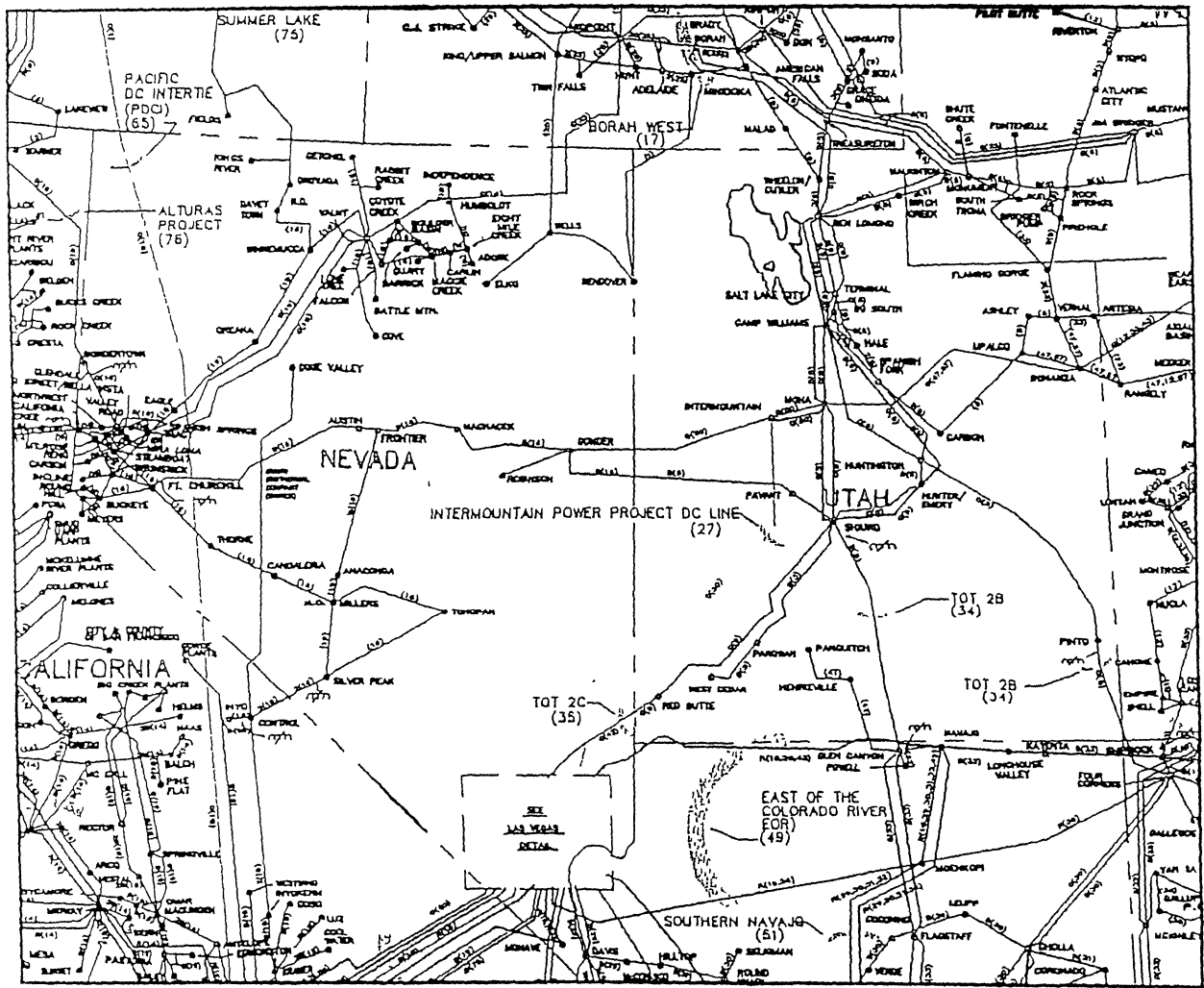
ATC Available Transfer Capability

USA Power's Mona Project

Search of PacifiCorp & DG&T Oases

ATC's From June 2002 thru May 2003

Oasis Bubble Diagram vsd rsh rev2 05-015-2002



10199
P80

Tab 7

APPENDIX C

PacifiCorp System-wide
Long-term Wholesale Purchases
Summer Capacity (MW)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
Purchases												
Black Hills Capacity	68	68	68	68	68	68	68	68	68	68		-
Colockum (P)	103	103	-	-			-	-	-	-		-
CSPE	18	16	-	-	-	-	-	-	-	-		-
Deseret Annual	104	-	-	-	-	-	-	-	-	-		-
Gem State	22	22	22	22	22	22	22	22	22	22	22	22
Grant County	14	14	14	14	14	14	14	14	14	14	14	14
Idaho Load Control	150	150	150	150	150	150	150	150	150	150	150	150
Interruptible (P)	161	161	161	161	161	161	161	161	161	161	161	161
PGE Cove	2	2	2	2	2	2	2	2	2	2	2	2
QF Goshen	9	9	9	9	9	9	9	9	9	9	9	9
QF Or/Wa	67	67	67	67	67	67	67	67	67	67	67	67
QF Utah	60	60	60	60	60	60	60	60	60	60	60	60
QF Wyoming	3	3	3	3	3	3	3	3	3	3	3	3
Redding (P)	22	22	22	22	22	22	22	22	22	22	22	-
Trans Alta	300	400	400	400	400	400	-	-	-	-	-	-
Tri-State Basic	50	50	50	50	50	50	50	50	50	50	50	50
WPP Seasonal Ex (P)	50	50	50	50	50	50	50	50	-	-	-	-
WPP Summer Purchase	150	150	150	-	-	-	-	-	-	-	-	-
Purchased Power	1,351	1,345	1,226	1,076	1,076	1,076	676	676	626	626	558	537

PacifiCorp System-wide
Long-term Wholesale Sales
Summer Capacity (MW)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020
Sales												
APPA	35	15	25	-	-	-	-	-	-	-	-	-
APS Sea Ex (S)	480	480	480	480	480	480	480	480	480	480	480	480
Black Hills 1996	30	30	-	-	-	-	-	-	-	-	-	-
Black Hills Load	65	60	55	50	50	50	50	50	50	50	50	50
BPA Wind Sale	6	6	6	6	6	6	6	6	6	6	6	6
Canadian Entitlement	5	4	-	-	-	-	-	-	-	-	-	-
CDWR	100	100	100	100	-	-	-	-	-	-	-	-
Citizens Power	80	80	-	-	-	-	-	-	-	-	-	-
Clark County PUD	100	-	-	-	-	-	-	-	-	-	-	-
Clark-WT	10	10	-	-	-	-	-	-	-	-	-	-
Cowlitz-BHP	10	-	-	-	-	-	-	-	-	-	-	-
Hurricane Net Sale	3	3	3	3	3	3	3	-	-	-	-	-
Large Industrials	367	367	367	367	367	367	367	367	367	367	367	367
Montana Sell Back	70	70	70	70	70	70	-	-	-	-	-	-
Okanogan	5	-	-	-	-	-	-	-	-	-	-	-
PSCol	176	176	176	176	176	176	176	176	176	176	176	176
Puget 2	200	200	200	-	-	-	-	-	-	-	-	-
SCE OWC	100	100	100	100	100	100	-	-	-	-	-	-
SCE Utah	100	100	100	100	100	100	-	-	-	-	-	-
Sierra 2	75	75	75	75	75	75	75	75	75	-	-	-
SMUD	100	100	100	100	100	100	100	100	100	100	-	-
Springfield	45	45	45	45	45	45	45	45	45	45	45	-
Tri-State Ex (S)	50	50	50	50	50	50	-	-	-	-	-	-
UMPA 1	8	8	8	8	-	-	-	-	-	-	-	-
UMPA 2	21	25	25	25	25	25	25	25	25	25	25	25
WAPA 1	60	60	60	60	-	-	-	-	-	-	-	-
WAPA 2	75	75	75	75	-	-	-	-	-	-	-	-
Total Sales	2,377	2,239	2,120	1,890	1,647	1,647	1,327	1,324	1,324	1,249	1,149	1,104



ABB CONSULTING

FATAL FLAW ANALYSIS OF USA POWER'S 550 MW GENERATING PLANT AT MONA 345KV SUBSTATION

REPORT NO.: CONSULTING – 2002-10368-2.R01

April 1, 2002

SUBMITTED TO:

USA Power, LLC

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EXECUTIVE SUMMARY

USA Power Company is developing a project in Utah, about 80 miles south of Salt Lake City. This project involves 2 units with a combined output of 550 MW and planned in-service date by the end of year 2003. The plant will be located about 1 mile from PacificCorp's Mona 345kV substation. In this context, ABB Consulting has been contracted by USA Power to conduct a fatal flaw analysis.

2003 Summer WSCC base case power flow data file in PSS/E format was used for the study. In the base case, generation power flow pattern is from East and South to West and North. This case was modified to have this power plant connected to Mona 345kV substation.

Power transfer scenarios were studied to access the capability of the transmission network. The five scenarios are:

- North-West: Area 60
- East : Area 70
- South: Area 19
- South-West : Area 18
- West: Area 64

All branches within 4 tiers from Mona were defined as monitoring elements. In addition, 10 WSCC transfer O paths also were identified as monitoring elements (Table A, Figure A).

The thermal transfer limit analysis, based on N-1 criteria, for exporting the USA Power generation to the all five directions around Mona substation was performed, using PTI's "Must" program. All transfer limits then were checked and verified by AC contingency analysis, using PSS/E program.

It was found that the Path of Intermountain - Gonder - Pavant 230kV circuit (No 4 in Table A) is the most limiting element and the contingency of the 245kV line outage (64059 HUMBOLDT 345 64061 IDAHO-NV 345 1) is the most limiting contingency, when transport power out from Mona area. There is no other significant transfer limit identified as long as the export is less then 550 MW, except for moving power to the West. The Western transfer is limited around 227 MW. Details of transfer limits are given in the following page.

In addition to that, input assumptions and map are attached to the Appendix A; detailed output results, corresponding to the tables in Summary are listed in the Appendix B; and the results of AC contingency analysis for verification are listed in Appendix C.

1. Power Transfer to the West – Area 64 – Sierra Pacific Power

Phase shifter at Sigurd could help to increase power transfer capability, but not significantly.

Table 1. Transfer Limits for Power Transfer to the West

Incremental Transfer Limit (MW)	Overloaded branch or Path	Contingency	Transfer Limit with AC Analysis (MW)	Transfer Limit with Phase Shifter On (MW)
16	Path: Intermnt_Gonder_Pavant	(1)	0	32
227	Path: Intermountain_Gonder	(1)	255	255
341	Path: Intermnt_Gonder_Pavant	None	395	444
350	Path: Intermountain_Gonder	(2)	423	454
382	64056 GONDER 230 64124 UTAH-NEV 230 1	(1)	273	273

(1) - 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1

(2) - 66210 PAVANT 230 66345 SIGURD 230 1

2. Power Transfer to the East – Area 70 –Public Service of Colorado

The system is able to move approximately 500 MW eastward. It is limited by the contingency of a transformer at Bonanza outage, which causes 138kV line from Bonanza to Rangely overloaded.

Table 2. Transfer Limits for Power Transfer to the East

Incremental Transfer Limit (MW)	Overloaded branch or Path	Contingency	Transfer Limit with AC Analysis (MW)
500	65192 BONANZA 138 66278 RANGELY 138 1	(1)	603

(1) - 65192 BONANZA 138 65193 BONANZA 345 1

3. Power transfer to the Northwest – Area 60 – Idaho Power

There is no significant transfer limit found under 550 MW of power transfer, though the Path of Intermountain - Gonder – Pavant is overloaded by a contingency of the 345kV line (64059 HUMBOLDT 345 64061 IDAHO-NV 345 1) in base case condition. If counted, the corresponding Incremental Transfer Limit could be 174 MW.

4. Power transfer to the South – Area 19 – Western Area Power Administration

There is no significant transfer limit found under 550 MW of power transfer, though the Path of Intermountain - Gonder – Pavant is overloaded by a contingency of the 345kV line (64059 HUMBOLDT 345 64061 IDAHO-NV 345 1) in base case condition. If counted, the corresponding Incremental Transfer Limit could be 262 MW.

5. Power transfer to the Southwest – Area 18 - Nevada Power load

There is no significant transfer limit found under 550 MW of power transfer, though the Path of Intermountain - Gonder – Pavant is overloaded by a contingency of the 345kV line (64059 HUMBOLDT 345 64061 IDAHO-NV 345 1) in base case condition. If counted, the corresponding Incremental Transfer Limit could be 248 MW.

Appendix A

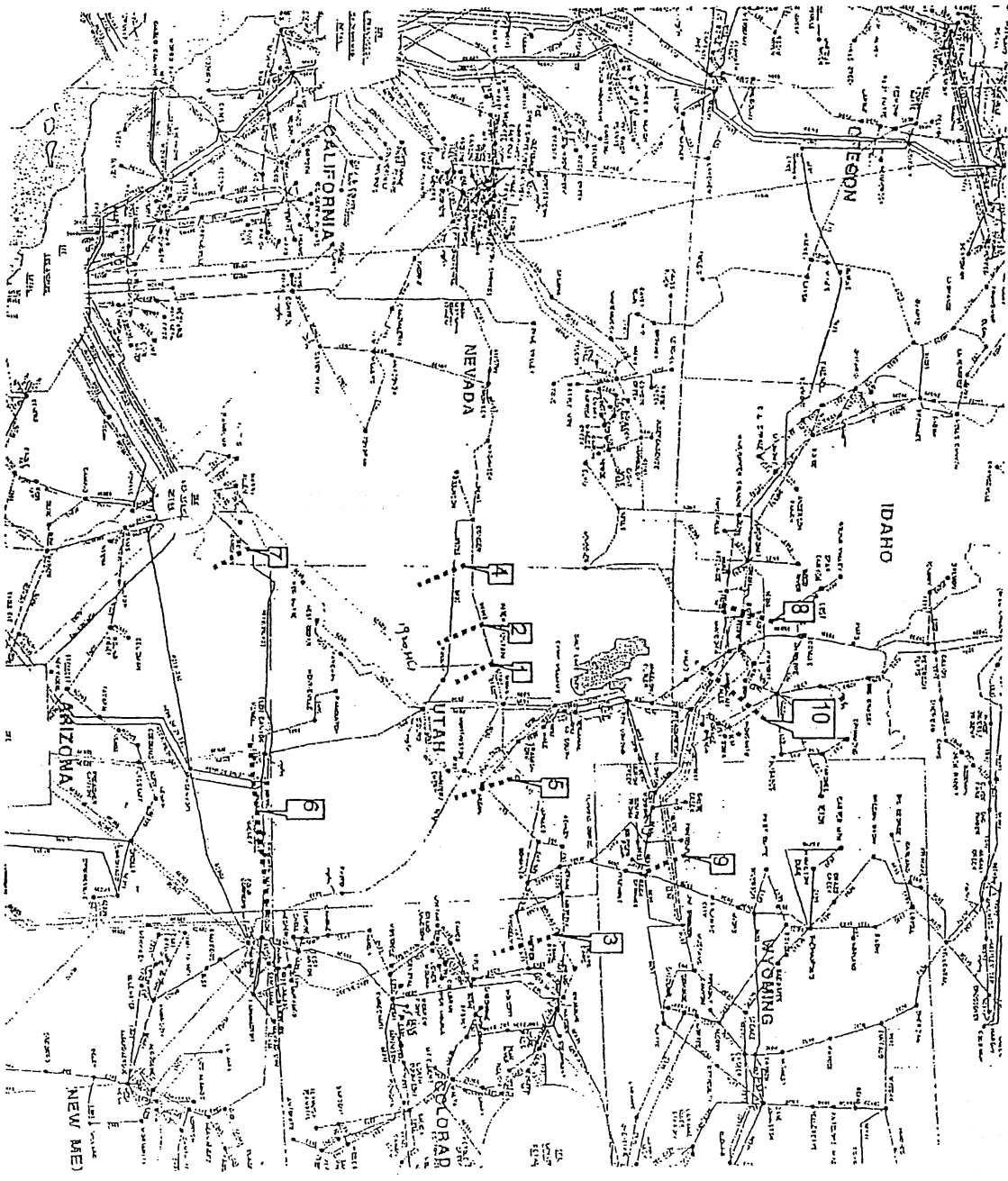
Input Assumptions

- Load flow case: WSCC 2003 Summer peak load flow case in PSS/E format
- Tool and methodology: PTI's "Must" and PSS/E programs were used. First the thermal transfer limits were identified by using DC analysis. All transfer limits then were verified with AC contingency analysis.
- Monitoring elements: All branches within 4 ties from Mona Substation. Beside that 10 paths were also included (table A). Illustration in the Figure A.
- Reference:
"WSCC 1998 Path Rating Catalog" by WSCC Technical Studies Subcommittee.

Table A. Paths identified as monitoring elements.

No	Path Name	Lines Including in the Path	Bus Numbers in the Power Flow	Transfer Rating (MW)
1	Intermountain - Mona 345kV	Intermountain – Mona 345kV	FROM BUS 26043 TO BUS 65995 CKT 1 FROM BUS 26043 TO BUS 65995 CKT 2	1200
2	Intermountain - Gonder 230kV	Intermountain – Gonder 230kV	FROM BUS 26041 TO BUS 64056 CKT 1	200 (EtW)
3	TOT_1A	Bears Ears – Bonanza 345kV Hayden – Artesia 138kV Meeker – Rangely 138kV	FROM BUS 79005 TO BUS 65193 CKT 1 FROM BUS 79038 TO BUS 79001 CKT 1 FROM BUS 79046 TO BUS 66278 CKT 1	650 (EtW)
4	Intermountain - Gonder 230kV Pavant - Gonder 230kV	Intermountain – Gonder 230kV (Pavant) Utah_Nev - Gonder 230kV	FROM BUS 26041 TO BUS 64056 CKT 1 FROM BUS 64124 TO BUS 64056 CKT 1	245 (EtW)
5	Bonanza_West	Bonanza – Mona 345kV Upalco - Emmapark (Carbon) 138kV	FROM BUS 65193 TO BUS 65995 CKT 1 FROM BUS 66590 TO BUS 65520 CKT 1	735 (EtW)
6	TOT_2B	Sigurd - Glen Canyon 230kV Pinto- Four Corners 345kV	FROM BUS 66355 TO BUS 79031 CKT 1 FROM BUS 66235 TO BUS 14101 CKT 1	780
7	TOT_2C	Red Butte - Harry Allen 345kV	FROM BUS 66280 TO BUS 18002 CKT 1	300
8	Borah_West	Kinport – Midpoint 345kV Borah – Adelaide 345kV Borah – Adelaide 345kV AmFalls - Pleasant Valley 138kV AmFalls - Raft River 138kV	FROM BUS 60190 TO BUS 60235 CKT 1 FROM BUS 60060 TO BUS 60005 CKT 1 FROM BUS 60060 TO BUS 60006 CKT 2 FROM BUS 60020 TO BUS 60295 CKT 1 FROM BUS 60020 TO BUS 61900 CKT 1	2307 (EtW)
9	Bridger_West	Jim Bridger – Borah 345kV Jim Bridger – Goshen 345kV Jim Bridger – Kinport 345kV	FROM BUS 60090 TO BUS 60060 CKT 1 FROM BUS 60092 TO BUS 65665 CKT 1 FROM BUS 60091 TO BUS 60190 CKT 1	2200 (EtW)
10	C	Ben Lomond – Borah 345kV Treasureton – Brady 230kV Grace – Goshen 161kV Malad – AmFalls 138kV	FROM BUS 65135 TO BUS 60060 CKT 1 FROM BUS 66565 TO BUS 60073 CKT 1 FROM BUS 65560 TO BUS 65670 CKT 1 FROM BUS 65920 TO BUS 60020 CKT 1	1000

Figure A. WSCC Network with Paths



Appendix B

FCITC Single Study

```

*** MUST 4 02 02 *** THU, JAN 10 2002 11.51 ***
WESTERN SYSTEMS COORDINATING COUNCIL
2001 H52-SA BASE CASE
Subsys File C:\Project\BSC\Mona\Mona.sub
Monit File C:\Project\BSC\Mona\Mona.mon
ContIn File C:\Project\BSC\Mona\Mona.con
Exclud File C:\Project\BSC\Mona\Mona.exc
    
```

Study transfer: From MONA_345 To WEST . Transfer level = 600.0 MW

Base Case Violations report ordered by transfer capability. Total 755 violations

Interface	Interface	ID	Name	Init.Flow	TDF
Interface-1	Interface	9	Borah_West	706.98	TDF= 0.4509
Interface-2	Interface	10	Bridger_West	1818.85	TDF= 0.1089
Interface-3	Interface	11	C	-630.20	TDF= 0.3511
Interface-4	Interface	4	Int_Gonder_P	120.19	TDF= 0.3651
Interface-5	Interface	2	Interant_Gon	57.60	TDF= 0.2102
Interface-6	Interface	1	Interant_Mon	-325.14	TDF=-0.2102
Interface-7	Interface	3	TOT_1A	318.13	TDF=-0.0861
Interface-8	Interface	6	TOT_2B	77.57	TDF= 0.1244
Interface-9	Interface	7	TOT_2C	151.18	TDF= 0.0000

ID	IntC	IntFce1	IntFce2	IntFce3	IntFce4	IntFce5	IntFce6	IntFce7	IntFce8	IntFce9	Limiting constraint	Base Flow	MW Rating	PTDF
217	341.2	860.8	1856.0	-510.4	245.0	129.3	-396.8	288.8	120.0	151.2	Interface 4 Int_Gonder_P	120.4	245.0	0.36527
601	577.4	967.3	1881.7	-427.5	331.3	178.9	-446.5	268.4	149.4	151.2	64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	-288.4	-645.0	-0.61767

Study transfer: From MONA_345 To WEST . Transfer level = 600.0 MW

Violations report ordered by transfer capability. Total 755 violations

10201

Fatal Flow Analysis of USA Power's 550 MW Generating Plant at Mona 345kV Substation

Interface	Interface	ID	Name	Init.Flow	TDF
Interface-1	Interface	9	Borah_West	706.98	TDF= 0.4509
Interface-2	Interface	10	Bridger_West	1818.85	TDF= 0.1089
Interface-3	Interface	11	C	-630.20	TDF= 0.3511
Interface-4	Interface	4	Int_Gonder_P	120.39	TDF= 0.3633
Interface-5	Interface	2	Intermnt_Gon	57.60	TDF= 0.2102
Interface-6	Interface	1	Intermnt_Mon	-325.14	TDF=-0.2102
Interface-7	Interface	3	TOT_1A	318.13	TDF=-0.0861
Interface-8	Interface	6	TOT_2B	77.57	TDF= 0.1244
Interface-9	Interface	7	TOT_2C	151.18	TDF= 0.0000

N	FCITC	IntFce1	IntFce2	IntFce3	IntFce4	IntFce5	IntFce6	IntFce7	IntFce8	IntFce9	L: Limiting constraint	PreShift	MW	TDF	PTDF	#Base Case Flow								
1	15	7	714	1	1820.6	-624	7	126.1	60.9	-328.4	316.8	79.5	151.2	L: Interface 4 Int_Gonder_P	235.4	245.0	0.61157	LODF	0.36527	120.4	126.1			
											C:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1		22											
											Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1													
2	99	7	751.9	1	1829.7	-595.2	2	156.8	78.6	-346.1	309.6	90.0	151.2	L:64059 HUMBOLDT 345 64080 HUMBOLDT 120 1	127.1	150.0	0.23004		0.02506	50.9	53.4			
											C:64032 COYOTECR 345 64059 HUMBOLDT 345 1		13											
											Open 64032 COYOTECR 345 64059 HUMBOLDT 345 1													
3	131	6	766.3	1	1833.2	-584.0	2	168.4	85.3	-352.8	306.8	93.9	151.2	L: Interface 4 Int_Gonder_P	176.9	245.0	0.51736		0.36527	120.4	168.4			
											C:64032 COYOTECR 345 64059 HUMBOLDT 345 1		13											
											Open 64032 COYOTECR 345 64059 HUMBOLDT 345 1													
7	226	5	809.1	1	1843.5	-550.7	2	203.1	105.2	-372.7	298.6	105.8	151.2	L: Interface 2 Intermnt_Gon	121.4	200.0	0.34687		0.21016	57.6	105.2			
											C:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1		22											
											Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1													
217	341	2	860.8	1	1856.0	-510.4	2	245.0	129.3	-396.8	288.8	120.0	151.2	L: Interface 4 Int_Gonder_P	120.4	245.0	0.36527							
											Base Case													
343	350.4	865	0	1857.0	-507	2	248.4	131.3	139.8	-398.8	288.0	121.2	151.2	L: Interface 2 Intermnt_Gon	100.8	200.0	0.28307		0.21016	57.6	131.3			
											C:66210 PAVANT 230 66345 SIGURD 230 1		169											
											Open 66210 PAVANT 230 66345 SIGURD 230 1													
363	381	7	879	1	1860	-496	2	259	9	137.8	-405.4	285.3	125.1	L:64056 GONDER 230 64124 UTAH-NEV 230 1	-214.0	-215.0	-0.26471		-0.35511	-91.9	-146.3			
											C:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1		22											
											Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1													
365	395	9	885	5	1862.0	-491	2	265	0	140.8	-408.3	284.0	126.8	L:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	-400.5	-645.0	-0.61767		-0.61767	-288.4	-524.2			
											C:64017 BRDRTNPS 345 64058 HIL TOP 345 1		11											
											Open 64017 BRDRTNPS 345 64058 HIL TOP 345 1													
368	399	0	886	9	1862.3	-490.1	2	266.1	141.5	-409.0	283.8	127.2	151.2	L:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	-398.6	-645.0	-0.61767		-0.61767	-288.4	-534.8			
											C:64017 BRDRTNPS 345 64018 BRDRTNH 345 1		10											
											Open 64017 BRDRTNPS 345 64018 BRDRTNH 345 1													
371	425	8	899	0	1865	-480	2	275.9	147.1	-414.6	281.5	130.6	151.2	L:64115 TRACY 345 64207 TRACY E 50.0	187.1	280.0	0.21810		0.16065	108.3	176.7			
											C:64077 HIRA LHA 345 64115 TRACY 345 1		23											
											Open 64077 HIRA LHA 345 64115 TRACY 345 1													
378	469	8	918	8	1870	-465	2	292.0	156.3	-423.9	277.7	136.0	151.2	L:64043 FALCON 345 64042 FALCON 120 1	-0.2	-150.0	-0.31886		-0.03167	42.8	28.0			

10201

P90



FCITC Single Study

*** MUST 4 02 02 *** THU, JAN 03 2002 12 35 ***

WESTERN SYSTEMS COORDINATING COUNCIL

2003 HS2-SA BASE CASE

Subsys File C:\Project\ESC\Mona\Mona.sub

Monit File C:\Project\ESC\Mona\Mona.mon

Cont'n File C:\Project\ESC\Mona\Mona.con

Exclud File none

Study transfer From MONA_345 To EAST . Transfer level = 600.0 MW

**** No Base Case Violations have been found

Study transfer From MONA_345 To EAST . Transfer level = 600.0 MW

Violations report ordered by transfer capability Total 4 violations

Interface	Interface	Bus	Init.Flow	TDF
Interface-1	Interface	5 Bonanza_West	606.48	TDF=-0.4161
Interface-2	Interface	12 Borah_West	706.98	TDF= 0.0431
Interface-3	Interface	13 Bridges_West	1160.22	TDF=-0.0922
Interface-4	Interface	14 C	-630.20	TDF= 0.2092
Interface-5	Interface	4 Int_Conder_P	120.39	TDF= 0.0435
Interface-6	Interface	2 Intermnt_Con	57.60	TDF= 0.0310
Interface-7	Interface	3 TOT_1A	218.13	TDF=-0.4383
Interface-8	Interface	6 TOT_2B	77.57	TDF= 0.2123
Interface-9	Interface	7 TOT_3C	151.18	TDF= 0.0000

N	FCITC	IntFce1	IntFce2	IntFce3	IntFce4	IntFce5	IntFce6	IntFce7	IntFce8	IntFce9	L: Limiting constraint	PreShift	MW	TDF	PTDF	#Base Case Flow								
											C: Contingency description	Ncon	Flow	Rating	LODP	Init	Final							
1	499	5	398	7	728	5	1114	2	-525	7	142.1	73	1	99.2	183.6	151.2	L:65192 BONANZA 138 66278 RANGELY 138 1	141.7	160.0	0.03667	0.04254	40.1	61.3	
											C: 65192 BONANZA 138 65193 BONANZA 145 1			55										
											Open 65192 BONANZA 138 65193 BONANZA 145 1													
2	546	4	379	2	730	5	1109	8	-515	9	144.1	74.5	78.6	193.6	151.2	L:73212 WELD LH 230 70471 WELD PS 230 1	422.0	500.0	0.14280	0.12403	329.9	397.6		
											C:73078 HARMONY 230 73199 TIMBERLN 230 1			242										
											Open 73078 HARMONY 230 73199 TIMBERLN 230 1													

10211 P92

Fatal Flaw Analysis of USA Power's 550 MW Generating Plant at Mona 345kV Subs. III

Generation/Load adjustments in the (MONA_345) sub-system. Type PartFactDef.

Total change 600.0 MW (Load Changes are shown with negative sign)

Bus#	BusName	KV	Max	Zna	PartFact	Pload	Pmin	Pmax	Pgen	Reserv-	Reserv+	MaxGen	Change	Viol
65995	MONA	345	65	656	600.00	0.0	-999.0	999.0	1.0	1000.0	998.0	601.0	600.0	
	Total				600.00	0.0	-999.0	999.0	1.0	1000.0	998.0			

Maximum transfers without violating limits with specified participation factors

Import= 1000.0 MW Export= 998.0 MW

10213

P93

FCITC Single Study

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-- MUST 4 02 02 *** THU JAN 03 2002 12:29 ***
WESTERN SYSTEMS COORDINATING COUNCIL
2001 H52-SA BASE CASE
Subsys File C:\Project\ESC\Mona\Mona sub
Monit File C:\Project\ESC\Mona\Mona mon
Contin File C:\Project\ESC\Mona\Mona con
Exclud File none
    
```

Study transfer From MONA_345 To NORTH_WEST . Transfer level = 600.0 MW

* * No Base Case Violations have been found

Study transfer From MONA_345 To NORTH_WEST . Transfer level = 600.0 MW

Violations report ordered by transfer capability Total 3 violations

Interface	Interface	Flow	Init.Flow	TDF
Interface-1	Interface 9 Idaho_Sierr	288.37	288.37	TDF=-0.0922
Interface-2	Interface 5 Bonanza_West	606.48	606.48	TDF=-0.1557
Interface-3	Interface 12 Borah_West	706.98	706.98	TDF= 0.4119
Interface-4	Interface 11 Bridger_West	1160.22	1160.22	TDF= 0.4974
Interface-5	Interface 14 C	-630.20	-630.20	TDF= 0.4979
Interface-6	Interface 4 Int_Gonder_P	120.39	120.39	TDF= 0.0922
Interface-7	Interface 2 Intermnt_Gon	57.60	57.60	TDF= 0.0590
Interface-8	Interface 6 TOT_2B	77.57	77.57	TDF= 0.1832
Interface-9	Interface 7 TOT_2C	151.18	151.18	TDF= 0.0000

N	FCITC	IntFce1	IntFce2	IntFce3	IntFce4	IntFce5	IntFce6	IntFce7	IntFce8	IntFce9	L Limiting constraint	PreShift	MW	TDF	PTDF	Base Case Flow															
											C Contingency description	Ncon	Flow Rating	LODF		Init	Final														
1	170	5	272	4	579	5	778	4	1177	1	-543	8	136	4	67	8	109.4	151.2	L Interface 4 Int_Gonder_P	235.4	245	0	0.05545	0	0.9222	120	4	136	4		
											C.64059 HUMBOLDT 345 64061 IDAHO-NV 345 1				22																
											Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1																				

Generation/Load adjustments in the [MONA_345] sub-system. Type PartFactDef.
 Total change 600.0 MW (1 Load Changes are shown with negative sign)

10213
 P94

Fatal Flaw Analysis of USA Power's 550 MW Generating Plant at Mona 345kV Subs. 07/11

Bus#	BusName	kV	Nbr	Ine	ParPact	Pload	PMin	PMax	Pgen	Reserv-	Reserv+	NewGen	Change	Viol
65995	MONA	345	65	656	600.00	0.0	-999.0	999.0	1.0	1000.0	998.0	601.0	600.0	
	Total				600.00	0.0	-999.0	999.0	1.0	1000.0	998.0			

Maximum transfers without violating limits with specified participation factors
 Import= 1000.0 MW Export= 998.0 MW

PG&E
 10/11/11

FCITC Single Study

MUST 4 02 02 ** THU JAN 03 2002 11:01 ***
 WESTERN SYSTEMS COORDINATING COUNCIL
 2001 H52 SA BASE CASE

Subsys File C:\Project\ESCA\Hona\Hona sub
 Monit File C:\Project\ESCA\Hona\Hona mon
 Contain File C:\Project\ESCA\Hona\Hona con
 Exclud File none

Study transfer From MONA_345 To SOUTH . Transfer level - 600.0 MW

No Base Case Violations have been found

Study transfer From MONA_345 To SOUTH Transfer level - 600.0 MW

Violations report ordered by transfer capability Total 3 violations

Interface 1	Interface	5 Bonanza_West	Init Flow	606 48 TDF=0 1946
Interface 2	Interface	12 Borah_West	Init Flow	706 98 TDF= 0 3098
Interface 3	Interface	13 Bridger_West	Init Flow	1160 22 TDF= 0 0395
Interface 4	Interface	14 C	Init Flow	-630 20 TDF= 0 3028
Interface 5	Interface	4 Int_Gonder_P	Init Flow	120 39 TDF= 0 0611
Interface 6	Interface	2 Intermnt_Gon	Init Flow	57 60 TDF= 0 0450
Interface 7	Interface	3 TOT_1A	Init Flow	318 13 TDF=-0 1841
Interface 8	Interface	6 TOT_2B	Init Flow	77 57 TDF= 0 1825
Interface 9	Interface	7 TOT_2C	Init Flow	151 18 TDF= 0 0000

N	FCITC	Intfcel	Intfcel2	Intfcel3	Intfcel4	Intfcel5	Intfcel6	Intfcel7	Intfcel8	Intfcel9	L: Limiting constraint	PreShift	MW	TDF	PTOF	Base Case Flow																	
											C Contingency description	Ncon	Flow	Rating	LODF	Init	Final																
1	261	8	555	5	788	1	1170	6	-550	3	136	4	69	4	269	9	177	7	151	2	L: Interface 4 Int_Gonder_P	235	4	245	0	0	03675	0	06112	120	4	136	4
											C 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	22										Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1				-0	39876	0	06112	-288	4	272	4

Generation/Load adjustments in the [MONA_345] sub-system Type PartFactDef
 Total change 600.0 MW (! Load Changes are shown with negative sign)

10215
P96

Fatal flaw. Analysis of USA Power's 550 MW generating plant

Bus	BusName	KV	Nbr	Zne	ParFact	Pload	Pmin	Pmax	Pgen	Reserv-	Reserv+	NewGen	Change	Vial
65995	MONA	345	65	656	600.00	0.0	-999.0	999.0	1.0	1000.0	998.0	601.0	600.0	
	Total				600.00	0.0	-999.0	999.0	1.0	1000.0	998.0			

Maximum transfers without violating limits with specified participation factors

Import= 1000.0 MW, Export= 998.0 MW

10216

FCITC Single Study

JUST 4 02 02 -- THU JAN 03 2002 13 05 ***

WESTERN SYSTEMS COORDINATING COUNCIL

2003 HS2-SA BASE CASE

Subsys File C:\Project\ESC\Hona\Hona sub

Monit File C:\Project\ESC\Hona\Hona mon

Contin File C:\Project\ESC\Hona\Hona con

Exclud File none

Study transfer From MONA_345 To SOUTH WEST . Transfer level - 600.0 MW

* No Base Case Violations have been found

Study transfer From MONA_345 To SOUTH_WEST . Transfer level - 600.0 MW

Violations report ordered by transfer capability Total 3 violations

Interface 1	Interface	5	Bonanza_West	Init Flow	606.48	TDF=-0.1948
Interface-2	Interface	12	Borah_West	Init Flow	706.98	TDF= 0.2292
Interface-3	Interface	13	Bridget_West	Init Flow	1160.22	TDF= 0.0440
Interface-4	Interface	14	C	Init Flow	-630.20	TDF= 0.2184
Interface-5	Interface	4	Int_Gonder_P	Init Flow	120.33	TDF= 0.0645
Interface-6	Interface	2	Incarnat_Con	Init Flow	57.60	TDF= 0.0463
Interface 7	Interface	3	TOT_1A	Init Flow	318.13	TDF=-0.1826
Interface 8	Interface	6	TOT_2B	Init Flow	77.57	TDF= 0.3620
Interface-9	Interface	7	TOT_2C	Init Flow	151.18	TDF= 0.0000

N	FCITC	Intfce1	Intfce2	Intfce3	Intfce4	Intfce5	Intfce6	Intfce7	Intfce8	Intfce9	L	Limiting constraint	PreShift	MW	TDF	PTDF	Base Case Flow															
												C: Contingency description	Ncon	Flow	Rating	LOOP	Init	Final														
1	248	0	558	2	788	6	1171	1	-551	2	136	4	69	1	272	8	167	3	151.2	L: Interface 4 Int_Gonder_P	235.4	245	0	0.01879	0	06452	120	4	136	4		
												C.64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	22																			
												Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1																				

Generation/Load adjustments in the [MONA_345] sub-system Type PartFactDef.

Total change 600.0 MW (1 Load Changes are shown with negative sign)

10217
Pg 8

Fatal flaw analysis of USA Power's 550 MW generating plant

Bus#	BusName	KV	Max	Zone	PartFact	Pload	Pmin	Pmax	Pgen	Reserv-	Reserv+	NewGen	Change	Viol
65995	HQNA	145	65	656	600.00	0.0	-999.0	999.0	1.0	1000.0	998.0	601.0	600.0	
Total					600.00	0.0	-999.0	999.0	1.0	1000.0	998.0			

Maximum transfers without violating limits with specified participation factors
 Import= 1000.0 MW Export= 998.0 MW

Fatal

Appendix C

AC FCITC Single Study

*** MUST 4 02.02 *** THU, JAN 10 2002 11:31 ***
 WESTERN SYSTEMS COORDINATING COUNCIL
 2003 HS2-SA BASE CASE
 Subsys.File C \Project\ESC\Mona\Mona.sub
 Monit.File C \Project\ESC\Mona\Mona.mon
 Contain File C.\Project\ESC\Mona\Mona.con
 Exclud File C \Project\ESC\Mona\Mona.exc

Study transfer level - 1000.0 MW. Total violations: 2208
 First violation - 15.7 MW.

Study transfer. From MONA_345 To WEST . Transfer level - 1000.0 MW

AC	DC	Delta L.	Limiting constraint	PreShft	PostShf	AC_TDF	DC_TDF
FCITC	FCITC	FCITC	C· Contingency description	Ncon	MVA/MW	MVA/MW	Rating
0	7	15	7	-15.1	L:	Interface	4
			Int_Gonder_P	244.6	244.8	245.0	0.31243
			C:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	22			0.61157
			Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1				
128	8	99	7	29.1	L:64059 HUMBOLDT 345 64080 HUMBOLDT 120 1	130.7	149.6
					C:64032 COYOTE CR 345 64059 HUMBOLDT 345 1	13	150.0
					Open 64032 COYOTE CR 345 64059 HUMBOLDT 345 1		0.14645
145	6	131.6	14	0	L. Interface 4 Int_Gonder_P	182.4	244.2
					C:64032 COYOTE CR 345 64059 HUMBOLDT 345 1	13	245.0
					Open 64032 COYOTE CR 345 64059 HUMBOLDT 345 1		0.42436
254	8	226.5	28	2	L. Interface 2 Intermnt_Gon	124.8	200.7
					C:64059 HUMBOLDT 345 64061 IDAHO-NV 345 1	22	200.0
					Open 64059 HUMBOLDT 345 64061 IDAHO-NV 345 1		0.29802
394	7	341.2	53.5	L:	Interface 4 Int_Gonder_P	120.4	243.9
					Base Case	245.0	0.31305
							0.36527
422	8	350	4	72	4 L: Interface 2 Intermnt_Gon	99.8	199.2
						200.0	0.23503
							0.28307

P100
ID214

Fatal flaw. Analysis of USA Power's 550 MW generating plant

				C.66210 PAVANT	230	66345	SIGURD	230	1	169					
				Open 66210 PAVANT	230	66345	SIGURD	230	1						
272	7	381.7	-109.0	L 64056 GONDER	230	64124	UTAH-NEV	230	1	117.3	199.3	215.0	0.30068	-0.26471	
NotConv				C 64059 HUMBOLDT	345	64061	IDAHO-NV	345	1						22
				Open 64059 HUMBOLDT	345	64061	IDAHO-NV	345	1						
368	1	395.9	-27.8	L 64059 HUMBOLDT	345	64061	IDAHO-NV	345	1	402.5	610.8	645.0	0.56606	-0.61767	
NotConv				C 64017 BRDRTNPS	345	64058	HIL TOP	345	1						11
				Open 64017 BRDRTNPS	345	64058	HIL TOP	345	1						

AC FCITC Single Study

*** MUST 4.02.02 *** THU, JAN 10 2002 10:15 ***

WESTERN SYSTEMS COORDINATING COUNCIL

2003 HS2-SA BASE CASE

Subsys.File C:\Project\ESC\Mona\Mona.sub

Monit.File C:\Project\ESC\Mona\Mona.mon

Contin.File C:\Project\ESC\Mona\Mona.con

Exclud.File C:\Project\ESC\Mona\Mona.exc

Study transfer level - 1000.0 MW. Total violations: 7

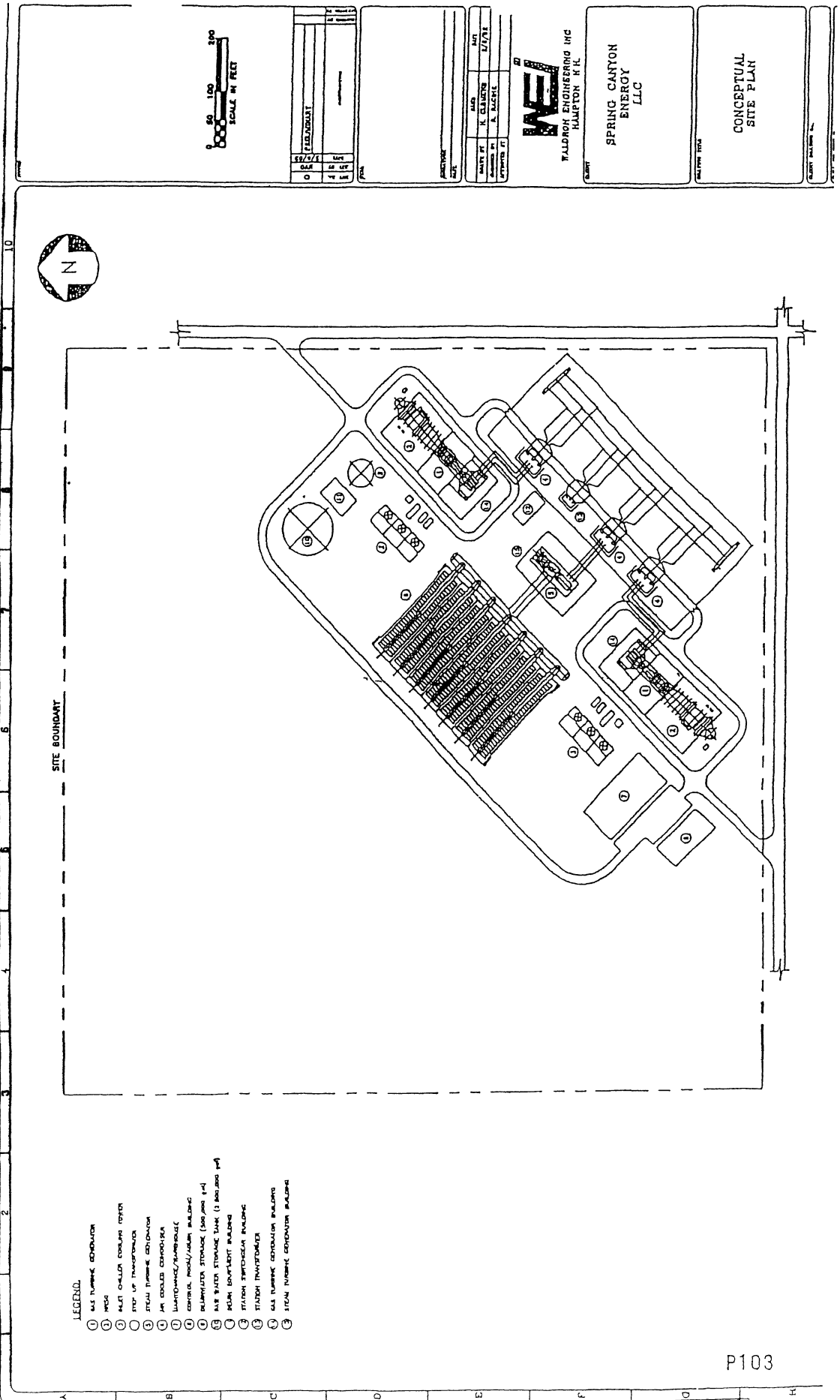
First violation - 499.5 MW.

Study transfer. From MONA_345 To EAST . Transfer level - 1000.0 MW

AC	DC	Delta L: Limiting constraint	PreShft	PostShf	AC_TDP	DC_TDP	
FCITC	FCITC	FCITC C: Contingency description,	Ncon	MVA/MW	MVA/MW	Rating	Average
602.5	499.5	103.0 L:65192 BONANZA 138 66278 RANGELY 138 1	137.9	160.3	160.0	0.03709	0.03667
		C:65192 BONANZA 138 65193 BONANZA 345 1	55				
		Open 65192 BONANZA 138 65193 BONANZA 345 1					

10221

P102



SCALE IN FEET
0 50 100 200

NO.	DESCRIPTION	DATE
1	PRELIMINARY	1/1/18
2	REVISED	1/1/18
3	REVISED	1/1/18
4	REVISED	1/1/18
5	REVISED	1/1/18

PROJECT NO.	DATE
DRAWN BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

WE
WALDRON ENGINEERING INC
HAMPTON, N.Y.

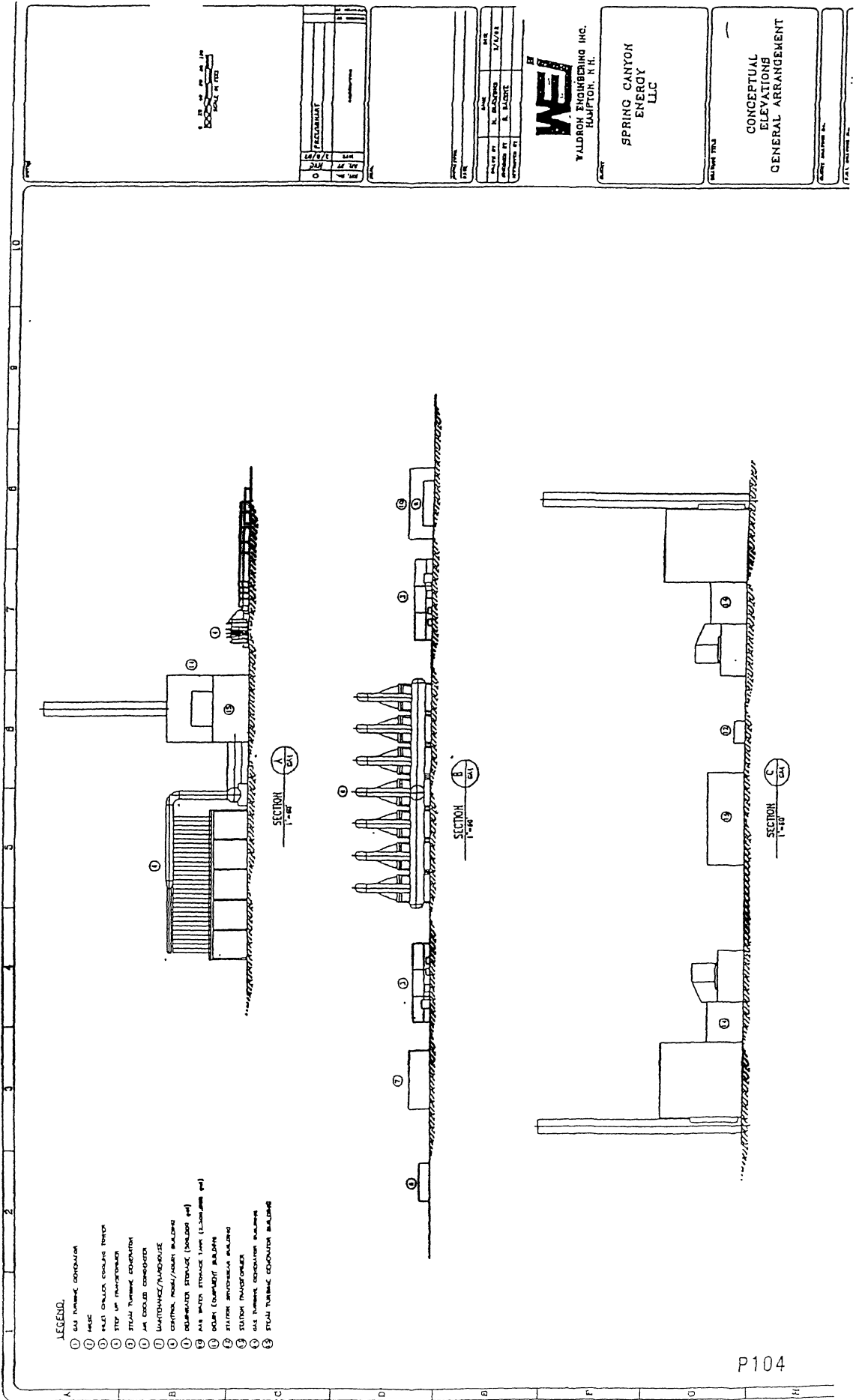
CLIENT
SPRING CANYON ENERGY LLC

PROJECT TITLE
CONCEPTUAL SITE PLAN

LEGEND.

- ① GAS TURBINE CONDENSER
- ② HEAT EXCHANGER CONDENSER
- ③ STEAM TURBINE CONDENSER
- ④ STEAM TURBINE CONDENSER
- ⑤ CONTROL ROOM/OPERATOR STATION
- ⑥ MAIN WATER STORAGE TANK (200,000 gal)
- ⑦ STEAM TURBINE CONDENSER
- ⑧ STEAM TURBINE CONDENSER
- ⑨ STEAM TURBINE CONDENSER
- ⑩ STEAM TURBINE CONDENSER
- ⑪ STEAM TURBINE CONDENSER
- ⑫ STEAM TURBINE CONDENSER
- ⑬ STEAM TURBINE CONDENSER

103



LEGEND.

- ① GAS TURBINE CONDENSER
- ② PUMP
- ③ PLEI ON/OFF COOLING TOWER
- ④ STEAM TURBINE CONDENSER
- ⑤ GAS COOLED CONDENSER
- ⑥ WATER/WATER/WATER
- ⑦ CONTROL ROOM/OPER BUILDING
- ⑧ DISTRIBUTOR STORAGE (DOLDRUP #4)
- ⑨ AIR WATER STORAGE TANK (LAWRENCE #4)
- ⑩ BOILER EQUIPMENT BUILDING
- ⑪ STEAM TURBINE CONDENSER
- ⑫ GAS TURBINE CONDENSER BUILDING
- ⑬ STEAM TURBINE CONDENSER BUILDING

DATE	1/2/12
BY	H. BALDWIN
CHECKED BY	H. BALDWIN
APPROVED BY	
SCALE	AS SHOWN
TITLE	CONCEPTUAL ELEVATIONS GENERAL ARRANGEMENT

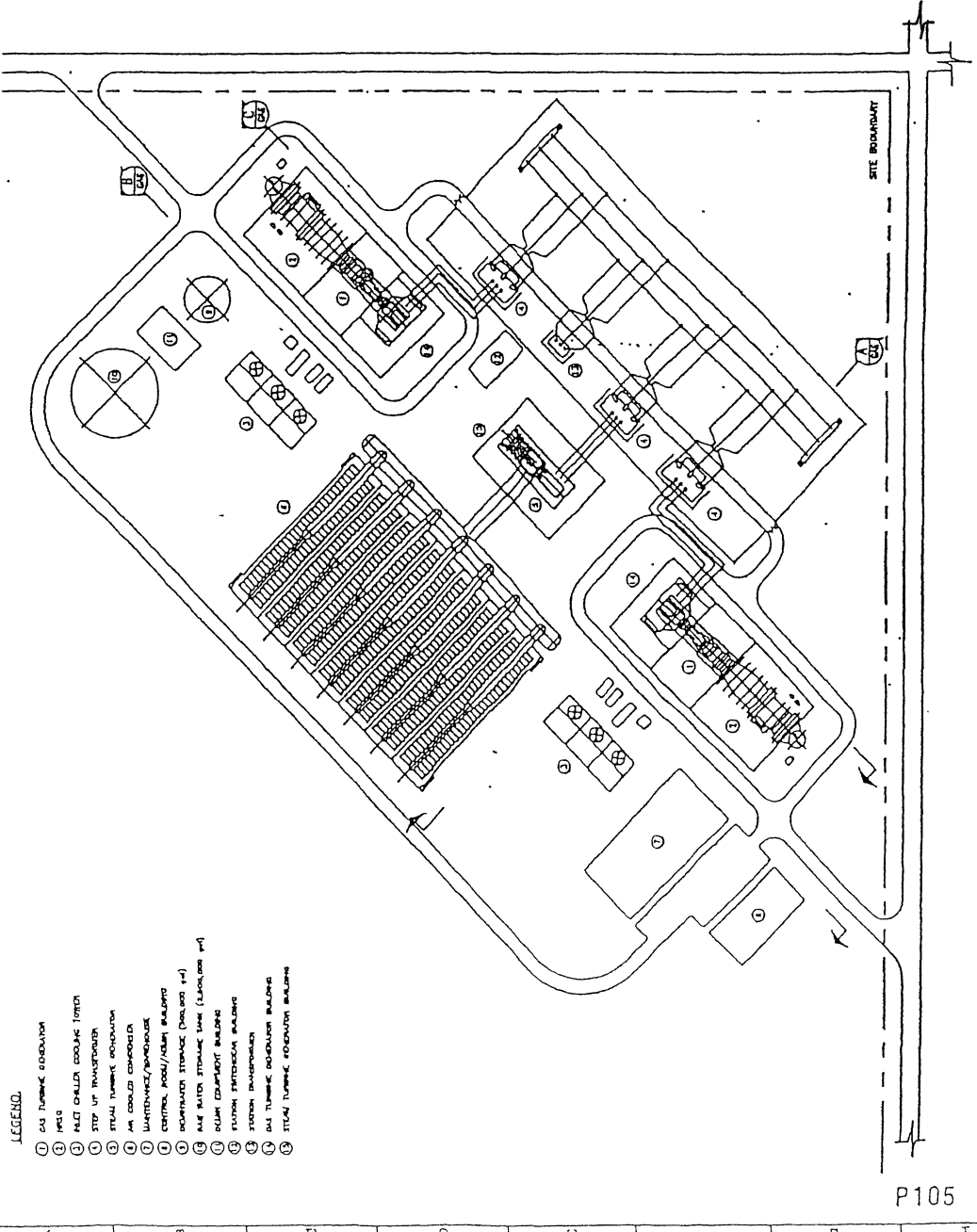


WALBROCK ENGINEERING INC.
HAMPTON, N.H.

SPRING CANTON
ENERGY
LLC

CONCEPTUAL
ELEVATIONS
GENERAL ARRANGEMENT

10220



LEGEND.

- ① GAS TURBINE GENERATOR
- ② PMS
- ③ FLEET GALLIA COOLING TOWER
- ④ STOP UP TRANSDUCER
- ⑤ STEEL TOWER ROOFING
- ⑥ AIR COOLED CONDENSER
- ⑦ WATERWHEEL/WINDHOUSE
- ⑧ CENTRAL PUMP/VALVE BUILDING
- ⑨ DISTRIBUTION STORAGE (DIESEL OR #1)
- ⑩ AIR RATIO STORAGE TANK (LUBRICANT #1)
- ⑪ OILMAN COMPARTMENT BUILDING
- ⑫ STEAM DISTRIBUTION BUILDING
- ⑬ STORAGE BUILDING
- ⑭ GAS TURBINE GENERATOR BUILDING
- ⑮ STEAM TURBINE GENERATOR BUILDING



DATE	12/17/12
BY	J. BLONDE
CHECKED BY	J. BLONDE
SCALE	AS SHOWN
PROJECT	WALDRON ENGINEERING INC
SHEET NO.	1
TOTAL SHEETS	1

DATE	12/17/12
BY	J. BLONDE
CHECKED BY	J. BLONDE
SCALE	AS SHOWN
PROJECT	WALDRON ENGINEERING INC
SHEET NO.	1
TOTAL SHEETS	1



WALDRON ENGINEERING INC
HAMPTON, N H

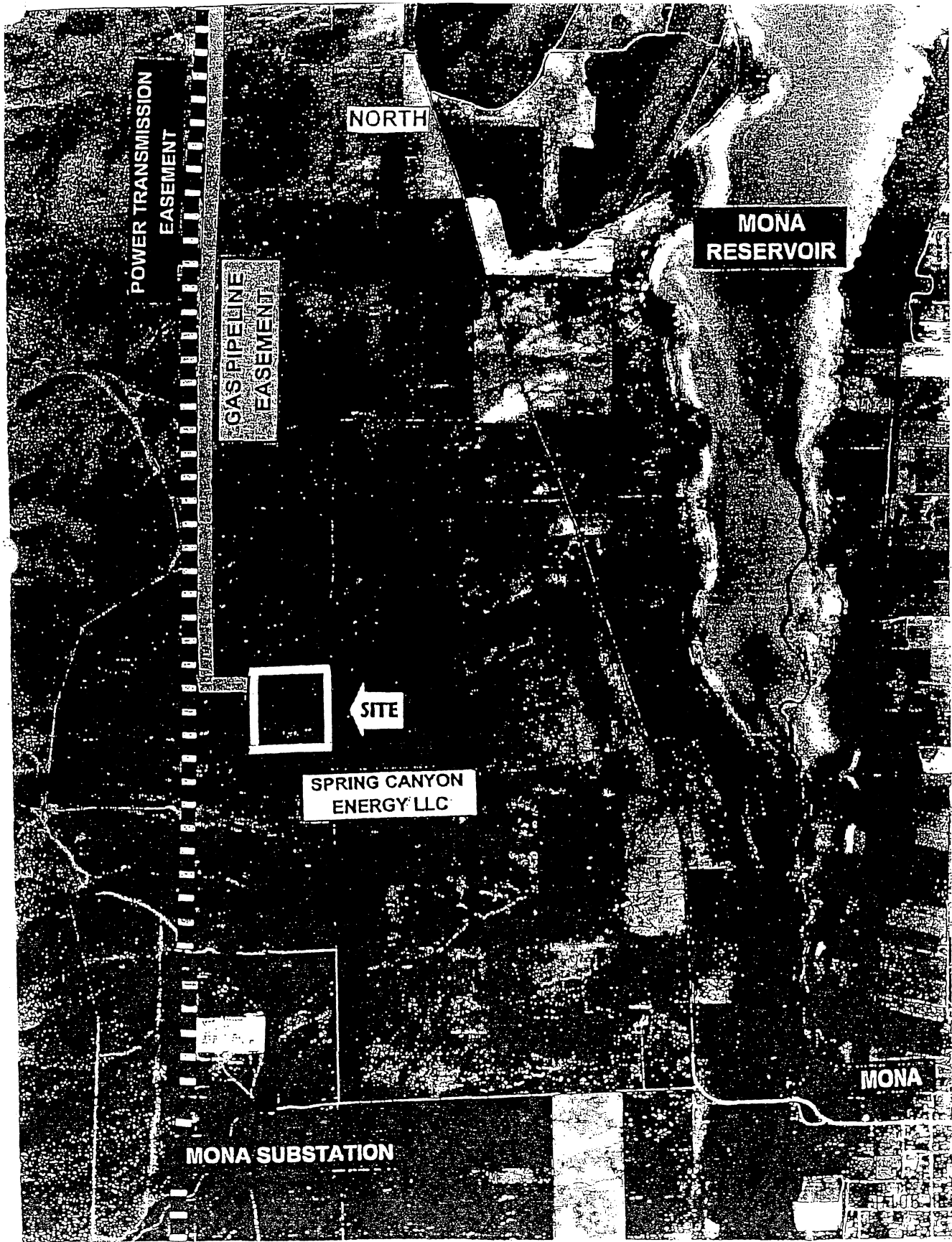
SPRING CANYON
ENERGY
LLC

CONCEPTUAL
PLAN VIEW
GENERAL ARRANGEMENT

SCALE: 1/2"=1'-0"

P105

10224



NORTH

MONA
RESERVOIR

POWER TRANSMISSION
EASEMENT

GAS PIPELINE
EASEMENT

← SITE

SPRING CANYON
ENERGY LLC

MONA SUBSTATION

MONA

1022

NORTH

GAS PIPELINE
EASEMENT

SITE

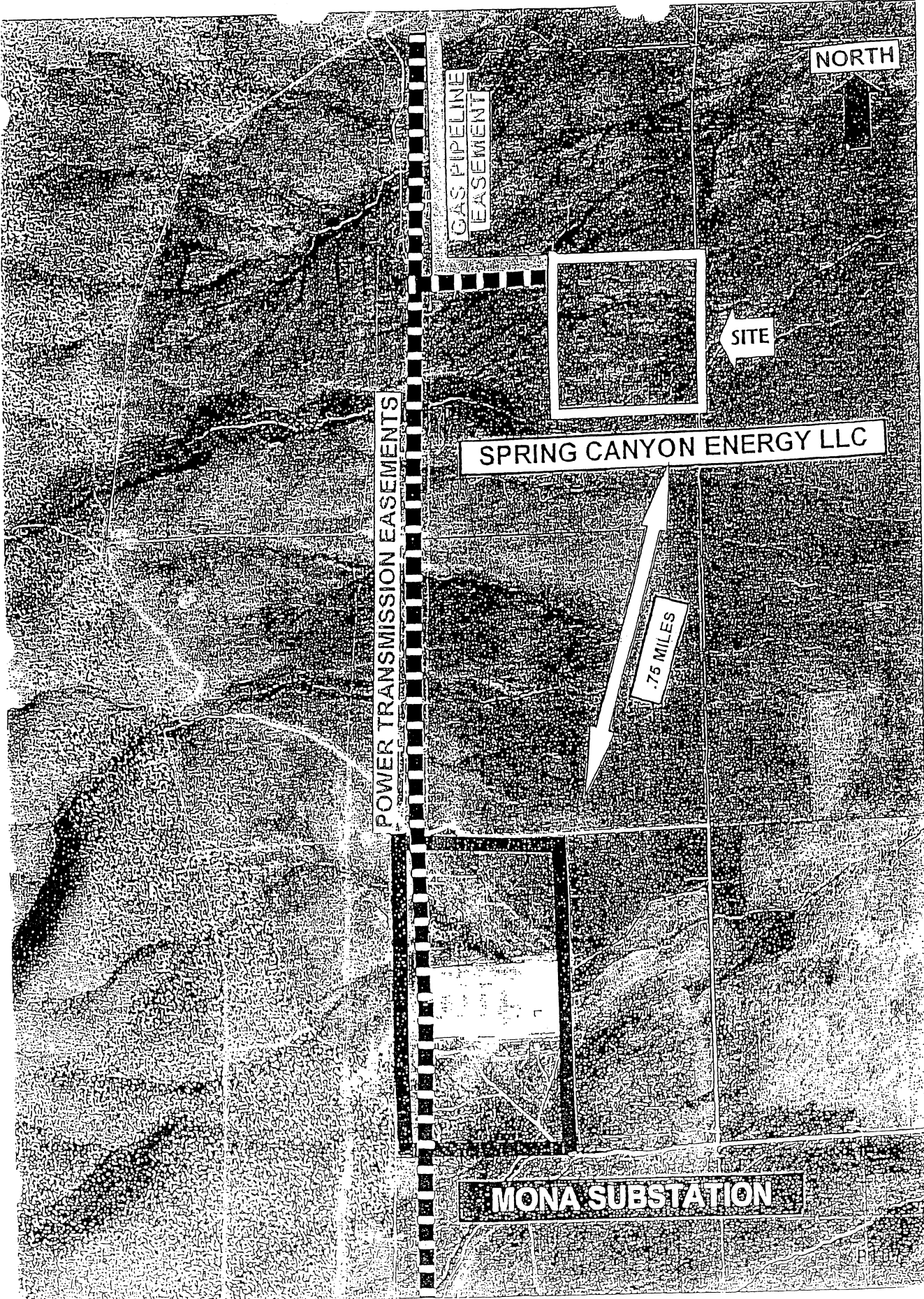
SPRING CANYON ENERGY LLC

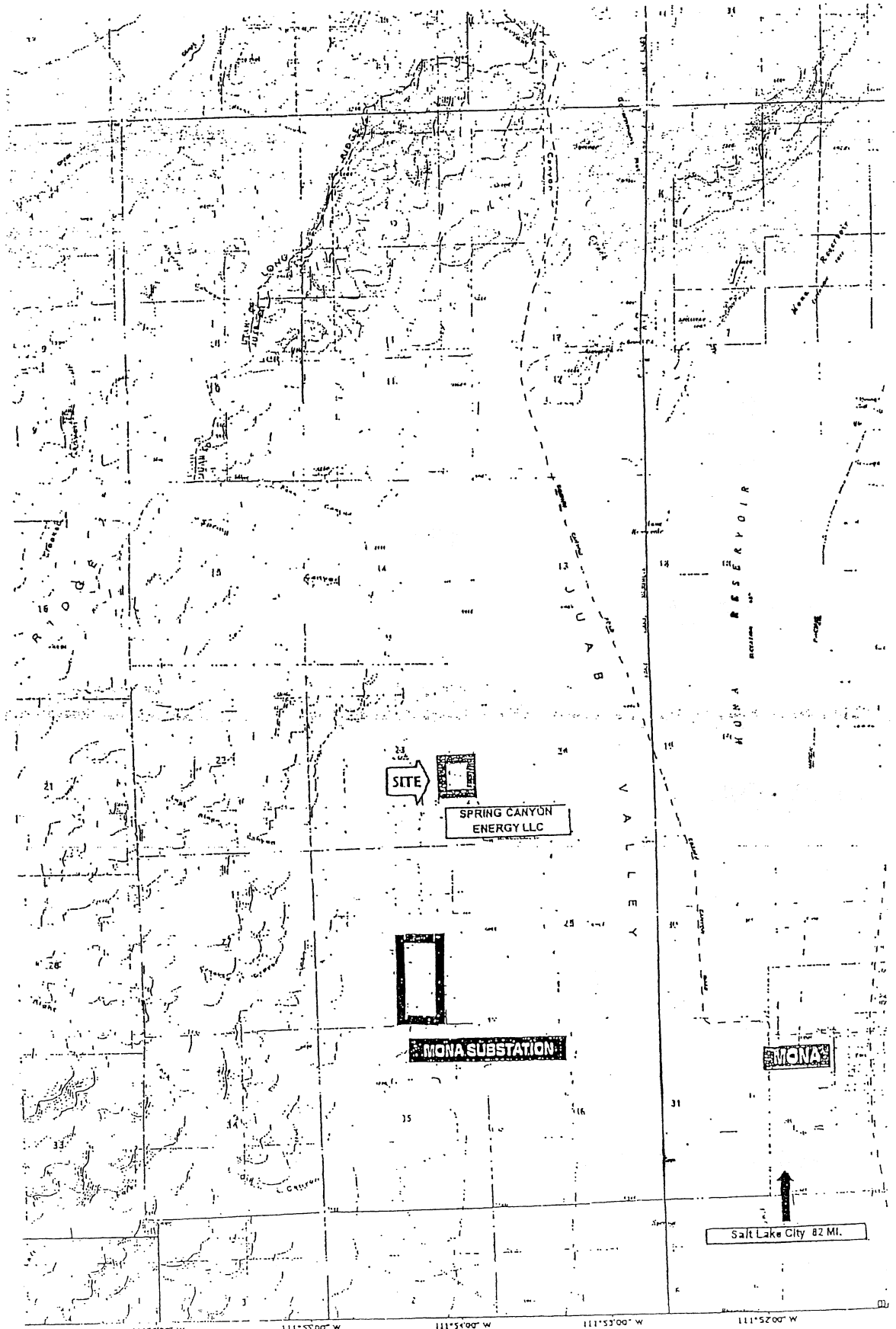
.75 MILES

POWER TRANSMISSION EASEMENTS

MONA SUBSTATION

10226





MGN
130°
Magnetic Declination

Scale 1:30,730
Contour Interval Varies: 20 ft, 40 ft

This map was printed by ITC



1	2	3
4	5	6
7	8	9

1. Garfield, UT 77
2. Grand, UT 71
3. Kane, UT 73
4. Uintah, UT 77
5. Wasatch-Cache, UT 71
6. Wasatch-Cache, UT 71
7. Fremont, UT 73
8. Garfield, UT 77
9. Kane, UT 77

P108

10227

TED D. GUTTI, Ph.D.

July 1, 2002

Mr. F. David Graeber
Spring Canyon Energy LLC
10440 North Central Expressway, Suite 1400
Dallas, Texas 75231

Re: Spring Canyon Energy LLC Application to the Utah Division of Air Quality

Dear Mr. Graeber:

Spring Canyon Energy, LLC submitted an application for an air permit to the Utah Division of Air Quality in February 2002. The application specifies that the facility will consist of two General Electric Model 7FA gas turbines firing only natural gas operating in a combined cycle configuration with heat recovery steam generators (HRSGs) and a single steam turbine generator. Subsequent correspondence has clarified that the configuration may utilize two independent steam turbine generators. The HRSGs will each be supplementary fired with natural gas duct burners to augment waste heat from the gas turbine exhaust. The gas turbines will be fitted with air inlet chillers, which allows for power augmentation when ambient temperature exceeds 59°F. The application further specifies that the Spring Canyon facility will have a nominal generation capacity of 539Mw at 59°F with duct firing and inlet chillers operating.

It is anticipated that the air permit will be issued with limitations consistent with the permit application, which are as follows:

The gas turbine emissions will be controlled to 2.0 ppm NO_x and 4.0 ppm CO (while the original application specified CO to be controlled to 5 ppm, GE subsequently provided a letter guarantee of a CO emission limit of 4.0 ppm). While duct firing, CO will be limited to 9.0 ppm. Further discussions with GE provide the basis for the expectation that actual CO emissions will be less than 2.0 ppm.

As a result of these emission restrictions, the annual emissions from the facility will be limited to 97.2 tons of NO_x and 97.5 tons of CO. These pollutants will be continuously monitored and actual emissions continuously tracked throughout each year to help plan operations while ensuring compliance. Other criteria pollutant emissions are well below the 100 tons per year threshold for major emission sources. As a result, the Spring Canyon Energy facility is not considered a PSD major source.

These emission restrictions will provide a great deal of operational flexibility. However, if the facility were to operate at the GE guarantee of 4.0 ppm of CO, (rather than the expected ≤ 2.0 ppm level) the gas turbines would be limited to approximately 7200 hours per year. This

619-670-3157
619-670-9454 (FAX)

3850 EL CANTO
SPRING VALLEY, CA 91977

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is not expected since GE has cited much operational experience providing confidence that CO emissions will be in the range of 1.0 to 2.0 ppm.

The attached analysis from Waldron Engineering provides a view of the operational flexibility of the facility with both gas turbines operating, limiting CO to 97.5 tons per year, assuming both 4.0 ppm and 2.0 ppm. At the maximum expected CO emission level of 2.0 ppm, the gas turbines may be operational up to 8760 hours per year with the duct burners limited to 1388 hours per year. As gas turbine hours are reduced, available hours of duct firing increase. For example, if the gas turbines are limited to 6000 hours per year, the duct burners could be operated at their full output of 119 Mw for up to 2024 hours per year. Duct burners are typically operating in much the same way a peaking power plant operating approximately 10-20% of the year, therefore, even with the gas turbines operating the full year, the duct burners would be available to operate in a manner consistent with market projections. The duct burners could also be operated at a higher number of hours if their output was reduced. The analysis of operational flexibility associated with an emission level of 4.0 ppm is included to show that over 7200 hours of gas turbine operation is available under this most conservative and most unlikely scenario.

At the time that the original application was submitted, it was anticipated that the facility would not be required to obtain emission credits. However, the Utah Division of Air Quality has determined that approximately 225 tons of emission credits are indeed required in order to achieve the operational flexibility described above. Further, the applicant must have title to the emission credits prior to the public comment period associated with issuing the permit. An investigation of the emission credit market revealed that emission credits are readily available at a price ranging from \$5,000 to \$7,000 per ton or a total cost of \$1.1 to \$1.5 million. In order to defer this expense to a more appropriate time, the applicant has requested that the Utah Division of Air Quality issue a permit allowing the construction and operation of a single train (i.e. one gas turbine and one steam turbine generator), which does not trigger the need for emission credits. At such time that the applicant finds it prudent to secure title to the emission credits, the applicant will file an application to amend the requested permit.

At this time, I believe that the Utah Division of Air Quality has received all information necessary to issue a draft permit by the end of July 2002. At that time, a required 30-day public comment period will begin. Without significant public comment, the Utah Division of Air Quality will be able to issue the final permit without holding a public hearing. If the comment period results in significant comments, a public hearing will be held, which if necessary would mean that the final permit should be issued no later than September 2002.

It is my professional opinion that, as the proposed plant will have lower emissions than any plant currently operating in Utah, any opposition to the issuance of this permit will be without merit. The Utah Division of Air Quality has indicated that the applicant has complied with all of its requirements and that no delays are envisioned with regards to the issuance of this permit. If you have any questions, please call me at your convenience at (619) 987-1111

Sincerely,

Dr. Ted D. Guth

Notice of Intent
Spring Canyon Energy, LLC

Submitted to

Utah DAQ

February 2002



Utah Division of Air Quality
New Source Review Section

Form 1
General Information

Application for: Initial Approval Order

Approval Order Modification

A PERMIT TO CONSTRUCT MUST BE APPROVED BEFORE ANY ACTUAL WORK IS BEGUN ON THE FACILITIES. This is not a stand alone document. Please refer to the Permit Application Instructions for specific details required to complete the application. Please print or type all information requested. All information requested herein must be completed and submitted before an engineering review can be completed. Contact the Engineering Section of the Division of Air Quality with any questions at (801) 536-4000. Written inquiries may be addressed to: Division of Air Quality, Engineering Section, P.O. Box 144820, Salt Lake City, Utah 84114-4820.

General Owner and Facility Information	
1. Company name and address: Spring Canyon Energy, LLC PO Box 774000-359 Steamboat Springs CO 80477 Phone No.: (970) 871-6223 Fax No.: (970) 871-6234	2. Company contact for environmental issues: Dr. Ted Guth Phone No.: (619) 670-3157 Fax No.: (619) 670-9454
3. Facility address (if different from above): Spring Canyon Energy, LLC same address, phone and fax Phone no.: () Fax no.: ()	4. Owners name and address: Same as company name, address, phone, fax Phone no.: () Fax no.: ()
5. County facility is located in: Juab	6. Latitude & longitude, township & range, and/or UTM coordinates of plant: NAD27 Zone 12 422810 Easting X 4410042 Northing
7. Directions to Installation (street address and/or directions to site) (include U.S. Coast and Geodetic Survey map if necessary): From Salt Lake City: 15 South approximately 77 miles to Hwy 54. Take exit and proceed west through Mona. Go 1/2 mile north on Goshen Canyon Road. Plant site is 1/2 mile to the west	
8. Identify any current Approval Order(s): AO# _____ Date _____ AO# _____ Date _____ AO# _____ Date _____ AO# _____ Date _____ AO# _____ Date _____ AO# _____ Date _____	
9. If request for modification, previous permit # and date: DAQE # _____ DATE: ___/___/___	
10. Type of business at this facility: Electricity Generation	
11. Total company employees greater than 100? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. Standard Industrial Classification Code 4 9 1 1

Date Feb. 11, 2002
 Company Spring Canyon Energy, LLC
 Site Spring Canyon/Mona



Utah Division of Air Quality
 New Source Review Section

Form 2
 Process Information

Process Data		
1. Name of process: <u>Gas-fired electric generation</u>	2. End product of this process: <u>Electricity</u>	
3. Primary process equipment: <u>Two (2) gas turbines</u> Manufacturer: <u>General Electric</u> Make or model: <u>GE Model PG 7241 FA</u> Identification #: _____ Capacity of equipment (lbs/hr): <u>combined cycle</u> Year installed: <u>2002/2003</u> Rated <u>270 MW each</u> Max. <u>285 MW each</u> (Add additional sheets as needed) Gas turbines only: Nominal <u>170MW</u> each at iso conditions		
4. Method of exhaust ventilation: <input checked="" type="checkbox"/> Stack <input type="checkbox"/> Window fan <input type="checkbox"/> Roof vent <input type="checkbox"/> Other, describe _____ Are there multiple exhausts: <input checked="" type="checkbox"/> Yes <u>2</u> <input type="checkbox"/> No		
Operating Data		
5. Maximum operating schedule: <u>24</u> hrs/day <u>7</u> days/week <u>52</u> weeks per yr	6. Percent annual production by quarter: Winter <u>25</u> Spring <u>25</u> Summer <u>25</u> Fall <u>25</u>	
7. Hourly production rates (lbs.): (Total Plant) Average <u>540 MW</u> Maximum <u>570 MW</u>	8. Maximum Annual production (indicate units) <u>4.6 million MW hours</u> Projected percent annual increase in production _____	
9. Type of operation: <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Batch <input type="checkbox"/> Intermittent	10. If batch, Indicate minutes per cycle _____ Minutes between cycles _____	
11. Materials Used in Process		
Raw Materials	Principal Use	Amounts (Specify Units)
Natural Gas	source of fuel for combustion	4309 MMBTU/hr (HHV)
Water	converted to steam	354 gpm
Air	source of oxygen for combustion	1.4 MMcfm
Ammonia	reactant to reduce NO _x	160 lb/hr

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**Combustion Turbine
Form 22 (Continued)**

Oil Firing

Type of oil: <u>N/A</u>	
Grade number <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> Other: specify _____	
13. Annual consumption: _____ gallons	14. Heat content: <input type="checkbox"/> BTU/lb <input type="checkbox"/> BTU/gal
15. Sulfur content: _____ % by wt.	16. Ash content _____ % by wt.
17. Direction of firing: <input type="checkbox"/> horizontal <input type="checkbox"/> tangential <input type="checkbox"/> other: specify _____	
18. Average firing rate: _____ gal/hr	19. Maximum firing rate: _____ gal/hr
Operation	
20. Application: <input checked="" type="checkbox"/> Electric generation <input checked="" type="checkbox"/> Base load <input type="checkbox"/> Peaking <input type="checkbox"/> Driving pump/compressor <input checked="" type="checkbox"/> Exhaust heat recovery <input type="checkbox"/> Other (specify) _____	21. Cycle <input type="checkbox"/> Simple cycle <input type="checkbox"/> Regenerative cycle <input type="checkbox"/> Cogeneration <input checked="" type="checkbox"/> Combined cycle
22. Is turbine equipped with exhaust heat recovery equipment? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (for both units) If yes, supply the size, flow rate, steam output capacity and temperature profile. <u>1.265 MMlb/hr 188 psi 1000°F high pressure steam; 1.479 MMlb/hr 432 psi 989°F hot</u> <u>reheat steam</u>	
23. Is turbine equipped with duct burners? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (for both units) If yes, provide burner description, fuel usage, combustion air input and location of the burners. Show all heat transfer surface locations with the waste heat boiler and temperature profile. Coen (or equivalent burners): <u>1,024 MMBTU/hr (HHV) see attached heat balance</u>	
Emissions Data	
24. Attach manufacturer's information showing emissions of NO _x , CO, VOC, SO _x , and PM ₁₀ for each proposed fuel at turbine loads and site ambient temperatures representative of the range of proposed operation. The information must be sufficient to determine maximum hourly and annual emission rates. Annual emissions may be based on a conservatively low approximation of site annual average temperature. Provide emissions in pounds per hour and except for PM ₁₀ , parts per million by volume at actual conditions and corrected to dry, 15% oxygen conditions. Method of Emission Control: <input checked="" type="checkbox"/> Lean premix combustors <input checked="" type="checkbox"/> Oxidation catalyst <input type="checkbox"/> Water Injection <input checked="" type="checkbox"/> Other (specify) <input type="checkbox"/> Other low-NO _x combustor <input checked="" type="checkbox"/> SCR catalyst <input type="checkbox"/> Steam Injection <u>Dry-LoNO_x</u>	
Additional Information	
25. On separate sheets provide the following: A. Details regarding principle of operation of emission controls. If add-on equipment is used, provide make and model and manufacturer's information. Example details include controller input variables and operational algorithms for water or ammonia injection systems, combustion mode versus turbine load for variable mode combustors, etc B Exhaust parameter information on attached form.	

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- Appendix C – Process/Equipment Description
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1.0 Introduction

Summary

In an effort to ensure a reliable supply of electrical generation to Utah, Spring Canyon Energy, LLC intends to install natural gas fueled turbine-generators at a new power plant to be located in Spring Canyon near Mona in Juab County. (see Appendix A). The facility will consist of two natural gas fueled gas turbine (GT) engine generator sets operating in a combined cycle configuration with heat recovery steam generators (HRSG's) and a single steam turbine-generator. The HRSG's will each be supplementary fired with natural gas duct burners to augment waste heat from the gas turbine exhaust, which produces steam for powering the steam turbine generator. The Spring Canyon Energy facility will have a nominal generating capacity of 539 MW (net) at 59°F with duct firing and inlet chillers operating.

The gas turbine emissions (corrected to 15% O₂) will be 2.0 ppm NO_x and 5.0 ppm CO (9.0 ppm with duct firing). Annual emissions from the facility are estimated to be no greater than 97.2 tons of NO_x, 240.1 tons of CO, 69.4 tons of fine particulates (PM₁₀), 83.3 tons of volatile organic compounds (VOCs), 8.3 tons SO₂ and 9.5 tons of hazardous air pollutants (HAPs). Modeling of these emissions indicates no violations of the National Ambient Air Quality Standards (NAAQS) as a result of operations. The complete modeling study, performed after approval of the proposed air dispersion modeling protocol, is being submitted to Division of Air Quality with this application. This Notice of Intent (NOI) is being submitted to obtain an approval order for the installation of the two gas turbines at the Spring Canyon site.

Background

The need for the facility is a result of a significant increase in the electrical demand. Additionally, the plant will act as a hedge against high prices for independent operators in the Utah area as well as to provide voltage support. Power generation from natural gas fuel provides the lowest emission option. It is necessary to locate the facility within the Juab Valley near the existing high capacity power lines and high pressure natural gas supply line.

2.0 Process Description

The Spring Canyon facility will consist of two natural gas fueled turbine generator sets. Natural gas (no other fuel will be used) will be introduced with ambient air (chilled when ambient temperatures are above 59°F) into two (2) General Electric Frame 7-FA (PG7241FA) gas turbines to produce approximately 170 MW output, gross, from each turbine generator.

The gas turbines are heavy duty industrial type frame units representing state of the art current day technology. Gas turbine inlet air is compressed and fuel is then introduced and ignited to produce hot exhaust gases that are then expanded through the turbine section of the machine. The rotating turbines in turn drive the generators that produce electricity, the only product delivered by the facility. Waste exhaust heat from the gas turbines is augmented by natural gas fired duct burners and is then directed into heat recovery steam generators to produce steam. This steam is used internally to the plant to drive a steam turbine to create additional "combined cycle" power for export. An air-cooled condenser will condense spent steam back into water for recycling to the HRSG's. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

It is anticipated that the two gas turbines will be purchased from General Electric. The units are being manufactured in Greenville, South Carolina, and are being configured with the latest technology Dry Lo-NO_x combustion systems and catalysts for Lowest Achievable Emission Rate (LAER) for NO_x, CO and the remaining criteria pollutants. NO_x emissions in the turbine exhaust gas will be controlled to 12-15 ppm by Dry Lo-NO_x prior to passing through the selective catalytic NO_x removal (SCR) system. NO_x emissions will be reduced to 2.0 ppmvd at the stack exit with the SCR catalyst and CO emissions will be 5.0 ppmvd at the stack exit (9.0 ppm for up to 5000 hours per year when turbines augmented with duct firing).

The plant is designed to operate up to 8150 hours per year in base load configuration 24 hours per day, 7 days per week, with only minimal down time for required maintenance. Raw materials used at the Spring Canyon plant in addition to natural gas and air are water (to generate the steam) and ammonia for the selective catalytic (NO_x) reduction process.

The Spring Canyon facility will have a maximum generating capacity of approximately 539 MW at 59°F and is projected to begin operation in September, 2003. Annual emissions from the facility (assuming 8,150 hours of operation per year-including up to 5000 hours per year of duct burner operation) are estimated to be 97.2 tons of NO_x, 240.1 tons of CO, 69.4 tons of fine particulates (PM₁₀), 83.3 tons of volatile organic compounds (VOCs), 8.3 tons of SO₂ and 9.5 tons of hazardous air pollutants (HAPs). All levels are well-below the 250 ton-per-year

PSD threshold. Modeling of the emissions indicates no violations of the National Ambient Air Quality Standards (NAAQS) will result from operation of the plant.

Monitoring of emissions from these units will be performed pursuant to 40 CFR 60.334 (a) and 40 CFR Part 75.

3.0 Emissions Summary

Emissions estimates for NO_x and CO are based on emissions data provided by equipment manufacturers. SO₂ emissions are based on sulfur content data from Questar. Emissions estimates for VOC's are based on the EPA's *Compilation of Air Pollutant Emission Factors (AP-42)*. Ammonia slip from the SCR will be limited to approximately 10 ppmvd, (also based on vendor design data).

The hourly emission rates listed in Table 1 are the maximum rates for operation of the two proposed turbines and duct burners firing natural gas at 100 percent load. The annual emissions from both turbines running with SCR control are also displayed. This assumes a maximum fuel throughput with duct firing of 4034.1 MMBtu/hr (HHV at 59°F) and 8150 hours of annual operation for the turbines.

See Appendix D for detailed emissions model/summary

TABLE 1
Spring Canyon Turbines Emissions Summary with SCR/CO Catalyst Controls^{1,2,3}

Pollutant	Annual Emissions (tpy)	Hourly Emissions (lb/hr)	Emission Factor Reference
Criteria Pollutants			
Nitrogen Oxides	97.2	29.0	Vendor
Carbon Monoxide	240.1	7.9	Vendor
Sulfur Dioxide	8.3	2.26	Questar S data
VOCs (Hydrocarbons)	83.3	30.2	5
Particulate Matter ⁴	69.4	22.0	Vendor
Fine Particulate Mater (PM ₁₀)	69.4	22.0	Vendor
Hazardous Air Pollutants (HAPs)			
1,3 Butadiene	.035	.008	5
Acetaldehyde	.31	.07	6
Acrolein	.03	.007	6
Benzene	.35	.08	6
Ethylbenzene	2.7	.61	5
Formaldehyde	0.91	.207	6
Naphthalene	.02	.004	6
PAH	.004	.001	6
Propylene Oxide	2.41	.55	5
Toluene	2.24	.51	6
Xylenes	.53	.12	6
	9.54	2.17	

- The emissions values provided in the tables are the cumulative emissions for both turbines.
- The hourly emission rates are the maximum rates for operation of the proposed turbines with duct burners firing natural gas at 100 percent loads based on operation at 59°F.
- Annual emissions are based on operation for 8150 hours per year on natural gas, with up to 5000 hours per year of duct firing.
- The PM and PM₁₀ emissions are EPA Method 5 (front half only).
- AP-42
- Ventura County (CA) Air Pollution Control District

Notes:

- CO = Carbon monoxide
- hrs/yr = hours per year
- lb/hr = pounds per hour
- NO_x = Oxides of nitrogen
- PM = Particulate matter
- PM₁₀ = Particulate matter less than 10 microns in size
- SO₂ = Sulfur dioxide; based on fuel sulfur = 2 gr/1000 cu ft
- Tpy = tons per year
- VOC = Volatile organic compound

4.0 Regulatory Review

This section provides a regulatory review for the installation of two turbines at the Spring Canyon facility in Utah. The review is divided into two sections. The first section addresses approval order permitting requirements, and the second section addresses other air quality regulatory requirements.

4.a. Air Permit Requirements

Notice of Intent and Approval Order

As required by UAC R307-401, Permit: Notice of Intent and Approval Order, this Notice of Intent application (NOI) is required to be submitted to UDAQ to obtain an approval order (AO) permit prior to installation of the two turbines. Juab County is attainment for all pollutants. As required by R307-401-6, best available control technology (BACT) will be used to control carbon monoxide (CO) emissions. In fact, LAER is being proposed for all remaining criteria pollutants.

New and Modified Sources in Non-attainment Areas and Maintenance Areas

UAC R307-403, Permits: New and Modified Sources in Non-attainment Areas and Maintenance Areas describes the requirements for proposed source permit approval. R307-403-3, Review of Major sources of Air Quality Impact, requires the Executive Secretary to determine if a source will cause or contribute to a violation of the National Ambient Air Quality Standard (NAAQS) as of the source's projected start-up date. The installation of the turbines at the Spring Canyon plant will not cause or contribute to a violation of the NAAQS. The air quality impact analysis demonstrating this is presented in Section 6.

Offsets: General Requirements

The project location is in Juab County, which is an attainment area for all pollutants. Hourly, daily, and annual emission levels are below any and all offset threshold levels. Additionally modeling results show insignificant impact of the project on adjacent non-attainment (for PM₁₀) Utah County. As such, offsets are not required for any pollutant. Thus, provisions of UAC R307-403-4(2), 403-5 and 420 do not apply.

Operating Permit Requirements

The Spring Canyon turbines are required to obtain a Title V Operating Permit. An application for operating permit is required within 12 months of the commencement of operation (UAC R307-415A (B), Permits: Operating Permit Requirements.)

4.b Other Air Quality Regulatory Requirements

New Source Performance Standards

NSPS Subpart GG is applicable to the turbines at Spring Canyon.

Subpart GG- Standards of Performance for Stationary Gas Turbines – Subpart GG of 40 CFR 60 establishes emission limits for NO_x and SO₂ emissions from stationary gas-fired turbines with a heat input at peak load equal to or greater than 10.7 gigajoules per hour (10 MMBtu/hr), based on the lower heating value of the fuel fired. The turbines at the Spring Canyon facility are subject to this regulation. The higher heating value heat input (fuel flow) of the facility is approximately 4034.1 MMBtu per hour at 59°F at full load when burning natural gas. This is equal to approximately 3181 gigajoules per hour on a lower heating value basis.

Each of the Spring Canyon facility turbines also meets the Subpart GG definition for electric utility stationary gas turbines, since the heat input of each turbine at peak load is greater than 107.2 gigajoules per hour (100 MMBtu/hr). The Spring Canyon turbines are therefore subject to the standards for nitrogen oxides requirements in 40 CFR 60.332. Each turbine is also subject to the SO₂ provisions of 40 CFR 60.333.

The applicable standard limiting the discharge of NO_x into the atmosphere from each of these turbines described in 40 CFR 60.332 is expressed as:

$$\text{STD} = 0.0075 (14.4)/Y + F,$$

Where

- STD = allowable NO_x emissions (percent by volume at 5% Oxygen [O₂], and on a dry basis)
- Y = manufacturer's rated heat rate in kilojoules per watt hour(kJ/W-hr), not to exceed 14.4
- F = fuel-bound nitrogen allowance.

The heat input rate for each of the Frame 7 turbines is approximately 10 kW-hr at 100% load and 59°F. The resulting NSPS limitation for NO_x is approximately 100 parts per million by volume (ppmvd). The maximum emission rate for each of the turbines of 12 -15 ppmvd before SCR control and 2.0 ppmvd with SCR controls will be well below the NSPS emission limit for NO_x

The SO₂ standard of Subpart GG restricts gaseous discharges from each turbine to a maximum SO₂ content of 0.015% by volume at 15% O₂ and on a dry basis. The SO₂ content of the discharged gases when combusting natural gas will be negligible

40 CFR 60.334 describes monitoring requirements for stationary gas turbines. NO_x, CO and O₂ will be the parameters monitored continuously.

This part also contains requirements for monitoring the sulfur and nitrogen content of the fuel being fired in the turbine; 40 CFR 60.334(b) details the frequency with which the fuel must be tested.

Acid Deposition Regulations

The requirements for affected sources under the Acid Rain Program, established pursuant to Title IV of the CAA, are covered under 40 CFR 72 through 78. The turbines at Spring Canyon are subject to these requirements. Specifically this facility will be subject to 40 CFR 72, Permit Regulations, and 40 CFR 75, Continuous Emission Monitoring.

National Emission Standards for Hazardous Air Pollutants for Source Categories

The turbines at Spring Canyon will not emit or have the potential to emit 10 tons/year or greater of any hazardous air pollutant (HAP) or 25 tons/year or greater of any combination of HAPs; therefore, the Spring Canyon facility is not a major source of HAPs. As such, the requirements of 40 CFR part 63 do not apply to the Spring Canyon turbines.

5.0 Control Technology Analyses

In accordance with EPA's "top-down" policy for NO_x, CO and SO₂, this section presents the required best available control technology (BACT) analyses. The section also addresses lowest achievable emission rates (LAER) requirements for PM, PM₁₀, and VOC emissions.

5.a Applicability

UACR R307-401-6 states, "The Executive Secretary shall issue an approval order if he determines through plan review that the following conditions have been met: The degree of pollution control for emissions, to include fugitive emissions and fugitive dust, is at least BACT except as otherwise provided in these regulations".

The following analyses are presented to determine the BACT/LAER controls for each criteria pollutant being emitted for this project.

5.b Top-Down BACT Process

EPA developed a process for conducting BACT analyses, referred to as the "top-down" method. The steps to conducting a top-down analysis were listed in EPA's *New Source Review Workshop Manual*, Draft, October 1990.

- Step 1. Identify Potential Control Technologies: The following were conducted: A thorough search of the EPA's RACT/BACT/LAER clearinghouse; Federal/state/local NSR permits; control technology vendors; and environmental consultants.
- Step 2. Eliminate Technically Infeasible Options: Technically feasible option means a technology that is available and applicable to the permittee's operations. The analysis is based on chemical, physical and engineering principles or empirical data.
- Step 3. Rank Remaining Control Technologies by Control Effectiveness.
- Step 4. Evaluate Most Effective Controls and Document Results: The factors considered while evaluating the most effective control options are energy impacts, environmental impacts, and economic impacts
- Step 5. Select BACT

Each of these steps has been conducted for CO, and are described below. A LAER analysis of NO_x, SO₂, PM, PM₁₀, and VOC has also been conducted. Note – it is the Spring Canyon project applicant's desire to install LAER for these criteria pollutants.

5.c LAER NO_x Control Analysis

Step 1 – Identify Potential Control Technologies

Potential NO_x control technology options are:

- Selective Catalytic Reduction (SCR) and Dry Lo-NO_x (DLN);
- Xonon
- SCONO_x
- DLN only
- SCR only
- Water or Steam Injection

Step 2 - Eliminate Technically Infeasible Options

Conventional SCR requires an exhaust temperature in the 400°F to 800°F range, and when combined with Dry Lo-Nox, achieves 2.0 ppm NO_x. No other technology has achieved this level on gas turbines of this size.

XONON is not available as a control technology for this application. XONON is being developed by Catalytica Combustion Systems, Inc. It is a catalytic combustion system that reduces the production of NO_x. Extensive information on the technology's development indicates that the technology has only been tested on small turbines (less than 10 MW) and is not yet used commercially. This technology has not yet been tested on turbines in the size range of this project's turbines.

Catalytica has entered into an agreement with GE to collaboratively develop the technology for installation on GE Frame E-class and F-class turbines. Catalytica cautions potential investors that adaptation of the technology to GE's turbines will require anywhere from 12 to 24 months. In fact, in a comparison of NO_x control technologies on the website, Catalytica indicates that the technology is "in process" of being proven in practice. XONON cannot be considered an available technology for this project.

Another promising developing technology is SCONO_x. SCONO_x, like SCR, operates effectively in temperatures ranging from 300°F to 700°F. SCONO_x has not been demonstrated in practice on gas turbines of this scale.

Water injection into the combustion process is an option to reduce NO_x production. Water or steam injection can be utilized to reduce NO_x levels. By injecting water or steam into the flame, flame temperatures are reduced, thereby lowering thermal NO_x formation and overall NO_x levels. Water or steam injection can reduce NO_x levels by up to 80% (when firing natural gas) and can achieve greater reduction when firing oil. There is a practical limit to the amount of water or steam that can be injected into the flame before flame stability problems are experienced. Additionally, under normal operating conditions, water/steam injection can result in 3-10% efficiency loss. Many times water or steam injection is used in conjunction with other NO_x control methods such as burner modifications or flue gas recirculation. Water or steam injection alone can only achieve NO_x levels of 25 ppm.

In summary, for gas turbines of this size, SCR (combined with Dry-Lo-NO_x) is the only viable option to achieve 2.0 ppm NO_x for exhaust temperatures cooled to between 400°F to 850°F. The control effectiveness of any other viable options and possible combinations are presented in Step 3.

Step 3 – Rank Remaining Control Technologies by Control Effectiveness

There is only one other proven NO_x reduction control technology combination proven on the large General Electric frame units. A combination of water injection and SCR control can lower emission rates to 5 ppmvd for NO_x. Since the top (minimum NO_x emissions) alternative is proposed for NO_x, no cost, environmental or energy impact analyses are required.

Step 4 – Evaluate Most Effective Controls and Document Results

For combined-cycle operation, LAER is a combination of Dry Lo-NO_x and SCR controls for NO_x.

Step 5 – Select LAER

The final step is to select LAER for the General Electric Frame 7-FA combined cycle operations at Spring Canyon. For the combined cycle GE Frame 7-FA turbine operations, Dry Lo-NO_x and SCR control with a corresponding emission limit of 2.0 ppmvd is proposed as LAER.

5.d BACT Analysis for CO Emissions (see Appendix E)

Step 1 – Identify All Control Technologies

Only two control technologies have been identified for CO control:

1. Combustion Controls
2. CO catalyst

Step 2 – Eliminate Technically Infeasible Options

Both identified control technologies are technically feasible for this project.

Step 3 – Rank Remaining Control Technologies by Control Effectiveness

CO catalyst vendors quote guarantee emissions levels of 5.0 ppm. For this project, the turbine vendor has indicated that proper operation of the turbine will result in CO emissions from the combustor of 5.0 ppmvd (corrected to 15% O₂). Thus there is no additional cost to achieve 5.0 ppm CO on these turbines. This level is below that listed in the California Air Resources Board BACT guidance document (6 ppm).

TABLE 5-1
Control Technology Emission Rate Ranking

Control Technology	CO Emissions (ppmv)	Reduction
Combustion Controls	5	NA
CO Catalyst	5	0%

Step 4 – Evaluate Most Effective Controls and Document Results

This step involves the consideration of energy, environmental, and economic impacts associated with each control technology. The top-down process requires that the evaluation begin with the most effective technology. The “top” technologies are Combustion Controls or a CO catalyst. Since the top alternative

is proposed as BACT for CO, the cost, environmental, and energy impact analyses are not required.

Step 5 – Select BACT

The final step in the top-down BACT analysis process is to select BACT. Good combustion control is proposed as BACT for this project. Good combustion control with CO emissions of 5.0 ppm is proposed as BACT for this project. Note: CO emissions will be kept below 9.0 ppm during the up to 5000 hours per year when the turbines are augmented with duct firing.

5.e LAER Analysis for PM/PM₁₀ Emissions

Step 1 – Identify Potential Control Technologies

Three control methods have been identified for PM/PM₁₀ control in power generation units:

- Electrostatic precipitators (ESPs)
- Fabric filters
- Combustion of pipeline-quality gas (primary) as the primary fuel

Step 2 – Eliminate Technically Infeasible Options

Neither electrostatic precipitators nor fabric filters are considered to be technically feasible options for combined cycle combustion turbines because of the high exhaust flow rates and the low concentration of particulate in the turbine exhaust.

The particle resistivity associated with gas turbine exhaust is a major problem for ESPs. ESPs remove particles by charging the particles and then collecting them on plates. ESP performance is greatly affected by the ability of the particles to accept and maintain a charge. Because of the resistivity of the exhaust particles from gas turbines, ESPs are not an effective control of turbine particulate matter.

LAER control

The only remaining feasible control method is the use of pipeline-quality natural gas as combustion fuel. This option is PM and PM₁₀ LAER for this project

5.f LAER Analysis for SO₂ Emissions

Step 1 – Identify Potential Control Technologies

Four potential control methods have been identified for SO₂ control:

- Wet flue gas desulfurization (FGD) systems;
- Dry FGD systems;
- Spray dryers
- Combustion of pipeline-quality gas as the combustion fuel.

Step 2 - Select LAER

No wet FGD systems, dry FGD systems, nor spray dryers have been applied to the exhaust gases from turbines, and significant technological difficulties are envisioned to apply all of these technologies. The low SO₂ emissions levels inherent with firing natural gas in a turbine constitutes BACT. In a review of the EPA Clearinghouse, the only control methods for SO₂ with turbines were related to the fuel combusted. Each turbine listed in the database was required to fire either pipeline-quality natural gas or a low sulfur fuel oil.

For this application, LAER for SO₂ is the use of pipeline-quality natural gas as the combustion fuel.

5.g LAER Analysis for VOC Emissions

Step 1 – Identify Potential Control Technologies

A review of EPA's Clearinghouse showed LAER control for combined cycle gas turbine combustion units is combustion of pipeline-quality natural gas as the primary fuel.

Select LAER

Use of only pipeline-quality natural gas as the fuel for the turbines is LAER for VOCs for this project.

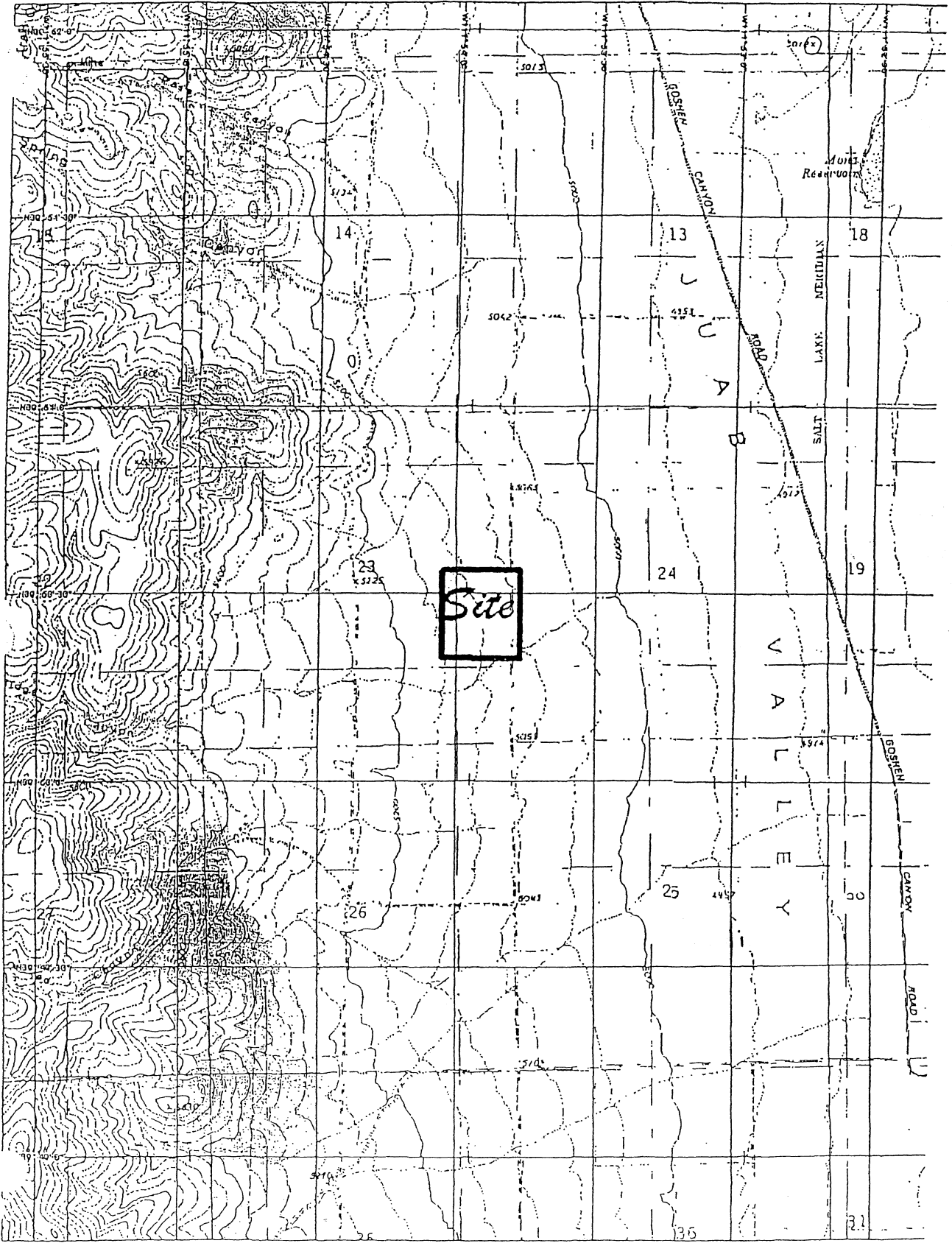
6.0 Ambient Air Quality Impact Analysis
(attached)

7.0 Alternate Siting Analysis

As the Spring Canyon project is located in a county (Juab) in attainment with all national air quality standards, no alternate siting analysis is required.

**Appendix A
Site Plan of Facility
(attached)**

There are two (2) emission points – identical stacks (269 ft high, 19 feet in diameter). Building dimensions are shown on the Site Plan and the Elevations Drawing.



3-D TopoQuad Copyright © 1999 Delorme Yarmouth, ME 04096 Source Data: USGS 1:25,000 Scale: 1:25,000 Extent: 11-0 Datum: NAD83

10256

Appendix B
Flow Diagram
(attached)

Appendix C

Process/Equipment Description

Natural gas (no other fuel will be used) will be introduced with ambient air (chilled when ambient temperatures are above 59°F) into two (2) General Electric Frame 7-FA gas turbines. The gas turbines are oversize versions of the turbines on the wings of aircraft. The gas turbine inlet air is compressed and fuel is then introduced and ignited to produce hot exhaust gases that are expanded through the turbine section of the machine. The rotating turbines in turn drive the generators that produce electricity, the only product delivered by the facility. Waste exhaust heat from the gas turbines is augmented by natural gas fired duct burners and is then directed into heat recovery steam generators to produce steam. This steam is used internally to the plant to drive a steam turbine to create additional "combined cycle" power for export. An air-cooled condenser will condense spent steam back into water for recycling to the HRSG's. Use of the dry type air-cooled condenser greatly reduces the plant's water usage.

Appendix D Potential Emissions of Air Pollutants

Pollutant	Annual Emissions (tpy)	Hourly Emissions (lb/hr)	Emission Factor Reference
Criteria Pollutants^{1,2,3}			
Nitrogen Oxides	97.2	29.0	Vendor
Carbon Monoxide	240.1	79.0	Vendor
Sulfur Dioxide	8.3	2.28	Questar S data
VOCs (Hydrocarbons)	83.3	30.2	5
Particulate Matter ⁴	69.4	22.0	Vendor
Fine Particulate Mater (PM ₁₀)	69.4	22.0	Vendor
Hazardous Air Pollutants (HAPs)			
1,3 Butadiene	.035	.008	5
Acetaldehyde	.31	.07	6
Acrolein	.03	.007	6
Benzene	.35	.08	6
Ethylbenzene	2.7	.61	5
Formaldehyde	0.91	.207	6
Naphthalene	.02	.004	6
PAH	.004	.001	6
Propylene Oxide	2.41	.55	5
Toluene	2.24	.51	6
Xylenes	.53	.12	6
	9.54	2.17	

1. The emissions values provided in the tables are the cumulative emissions for both turbines.
2. The hourly emission rates are the maximum rates for operation of the proposed turbines with duct burners firing natural gas at 100 percent loads based on operation at 59°F.
3. Annual emissions are based on operation for 8150 hours per year on natural gas, with up to 5000 hours per year of duct firing.
4. The PM and PM₁₀ emissions are EPA Method 5 (front half only).
5. AP-42
6. Ventura County (CA) Air Pollution Control District

Notes:

CO = Carbon monoxide
 hrs/yr = hours per year
 lb/hr = pounds per hour
 NO_x = Oxides of nitrogen
 PM = Particulate matter
 PM₁₀ = Particulate matter less than 10 microns in size
 SO₂ = Sulfur dioxide; based on fuel sulfur = 2 gr/1000 cu ft
 Tpy = tons per year
 VOC = Volatile organic compound

**112-01 SPRING CANYON ENERGY, LLC; Utah
GE PG7241(FA) DLN 9 Combustor, 5130 Ft Elevation.**

Per GT/DB Hourly Emission Rates		0F	30F	59F	80F	100F	Maximum
Combined GT/DB NOx	#/hr	15.1	14.8	14.5	14.7	14.7	15.1
Combined GT/DB CO	#/hr	41.2	40.6	39.5	40.1	40.1	41.2
Combined GT/DB VOC	#/hr	15.3	15.1	15.1	15.1	15.1	15.3
Combined GT/DB SO2	#/hr	1.2	1.2	1.13	1.1	1.1	1.2
Combined GT/DB Acid Mist	#/hr	0.4	0.4	0.4	0.4	0.4	0.4
Combined GT/DB PM10 (Part + Acid Mist)	#/hr	11.2	11.1	11.0	11.1	11.1	11.2
Per GT/DB Annualized Emission Rates							
Combined GT/DB NOx	Tons/Year	51.2	49.9	48.6	49.2	49.2	51.2
Combined GT/DB CO	Tons/Year	126.9	124.6	120.1	122.4	122.4	126.9
Combined GT/DB VOC	Tons/Year	42.4	41.6	41.6	41.6	41.6	42.4
Combined GT/DB SO2	Tons/Year	4.5	4.3	4.1	4.2	4.2	4.5
Combined GT/DB Acid Mist	Tons/Year	1.6	1.5	1.5	1.5	1.5	1.6
Combined GT/DB PM10 (Part + Acid Mist)	Tons/Year	35.4	35.2	34.7	35.2	35.2	35.4
Annualized Plant Emission Rates							
Combined GT/DB NOx	Tons/Year	102.4	99.8	97.2	98.5	98.5	102.4
Combined GT/DB CO	Tons/Year	253.9	249.3	240.1	244.7	244.7	253.9
Combined GT/DB VOC	Tons/Year	84.9	83.3	83.3	83.3	83.3	84.9
Combined GT/DB SO2	Tons/Year	8.9	8.6	8.3	8.4	8.4	8.9
Combined GT/DB Acid Mist	Tons/Year	3.2	3.1	2.9	3.0	3.0	3.2
Combined GT/DB PM10 (Part + Acid Mist)	Tons/Year	70.8	70.5	69.4	70.4	70.4	70.8
Stack Emissions, Dry @ 15% O2 Ref							
NOx	ppmvd	1.93	1.95	1.99	1.98	1.98	2.0
CO	ppmvd	8.63	8.81	8.89	8.88	8.88	8.9
VOC	ppmvd	6.05	6.19	6.45	6.35	6.35	6.5
SO2	ppmvd	0.11	0.11	0.11	0.11	0.11	0.1
Stack Emissions, Lb/mmBTU HHV							
NOx	lb/mmBtu HHV	0.0071	0.0072	0.0073	0.0072	0.0072	0.0073
CO	lb/mmBtu HHV	0.0192	0.0196	0.0198	0.0198	0.0198	0.0198
VOC	lb/mmBtu HHV	0.0077	0.0079	0.0082	0.0081	0.0081	0.0082
SO2	lb/mmBtu HHV	0.0008	0.0006	0.0006	0.0006	0.0006	0.0006
Acid Mist	lb/mmBtu HHV	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
PM10 (Part + Acid Mist)	lb/mmBtu HHV	0.0052	0.0054	0.0056	0.0055	0.0055	0.0056
Base Load + Fired Stack Velocity	FV/sec	67.93	65.56	60.95	63.17	64.10	
Base Load Stack Velocity	FV/sec	73.72	68.58	63.80	65.81	66.90	
75% Load Stack Velocity	FV/sec	50.57	50.61	50.14	50.23	51.69	
50% Load Stack Velocity	FV/sec	41.16	41.33	40.85	41.24	42.09	

Annual GT Operating Hours	hr/yr	8150
Annual DB Operating Hours	hr/yr	5000
No of GT/DB Units		2
Fuel Sulfur	Gr/100 SCF	0.2
Fuel LHV	BTU/SCF	912.1
Fuel HHV	BTU/SCF	1011.4
HHV/LHV ratio		1.109
Duct Burner Firing Rate	mmBtu HHV	520
Stack Diameter	ft	19
SCR Catalyst Effectiveness		84%
CO Catalyst Effectiveness		

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P141

EmissionMatrix2
Summary
10/31/01

112-01 SPRING CANYON ENERGY LLC, Utah
 GE PG741(FA) DLN 3 Combustor, 5130 Ft. Elevation

Assumptions							
Annual GT Operating Hours	h/yr	8150					
Annual DB Operating Hours	h/yr	5000					
Fuel Sulfur	Gr/100 SCF	0.2					
Fuel LHV	BTU/SCF	912.1					
Fuel HHV	BTU/SCF	1011.4					
HHV/LHV ratio		1.100					
Duct Inputs							
Ambient Pressure	psia	12.19	12.18	12.18	12.18	12.18	12.18
Ambient Temperature	F	0	0	0	0	0	0
Relative Humidity	%	25	25	25	25	25	25
GT Load	%	100	100	100	100	76	30
Duct Burner Fuel	lbm/mbtu HHV	520	364	22.6	22.6	22.6	22.6
GT NOx	ppmv	63	53	63	63	60	31
GT CO	ppmv	16	16	16	15	11	8
GT UHC	ppmv	13	13	13	13	8	8
GT Particulates	ppmv	4	4	4	4	4	4
GT Fuel Consumption	lbm/mbtu LHV	1462.3	1462.3	1462.3	1462.3	1087.2	816.4
Duct Burner NOx	lbm/mbtu HHV	0.080	0.040	0.080	0.080	0.080	0.080
Duct Burner CO	lbm/mbtu HHV	0.050	0.040	0.050	0.050	0.050	0.050
Duct Burner VOC	lbm/mbtu HHV	0.016	0.036	0.010	0.010	0.010	0.010
Duct Burner Particulate (PM10)	lbm/mbtu HHV	0.010	0.010	0.010	0.010	0.010	0.010
GT Exhaust Flow	scfm	2312.0	2312.0	2312.0	2312.0	2312.0	1668.0
Argon	Vol %	0.80	0.80	0.80	0.80	0.80	0.80
Nitrogen	Vol %	76.18	76.18	76.18	76.18	76.11	76.2
Oxygen	Vol %	12.01	12.01	12.01	12.01	12.50	12.66
Carbon Dioxide	Vol %	3.71	3.71	3.71	3.71	3.67	3.68
Water	Vol %	7.40	7.40	7.40	7.40	7.67	7.36
Compostion Hourly Emission Rates							
GT NOx	lb/hr	53.00	53.00	53.00	53.00	40.00	31.00
GT CO	lb/hr	15.20	15.20	15.20	15.20	11.26	8.01
GT VOC	lb/hr	2.60	2.60	2.60	2.60	1.80	1.80
GT SO2	lb/hr	0.82	0.82	0.82	0.82	0.60	0.55
GT Acid Mist	lb/hr	0.35	0.35	0.35	0.35	0.11	0.08
GT PM10 (Part. + Acid Mist + VOC)	lb/hr	4.74	4.74	4.74	4.74	4.38	4.32
Duct Burner NOx	lb/hr	41.80	28.12	2.60	2.60	2.60	2.60
Duct Burner CO	lb/hr	26.00	21.84	7.15	7.15	7.15	7.15
Duct Burner VOC	lb/hr	7.60	12.74	2.81	2.81	2.81	2.81
Duct Burner SO2	lb/hr	0.20	0.21	0.02	0.02	0.02	0.02
Duct Burner Acid Mist	lb/hr	0.07	0.06	0.00	0.00	0.00	0.00
Duct Burner Particulate (PM10)	lb/hr	5.20	3.84	0.33	0.33	0.33	0.33
Duct Burner PM10 (Part. + Acid Mist + VOC)	lb/hr	6.44	5.80	0.77	0.77	0.77	0.77
Abated Hourly Emission Rates							
Combined GT/DB NOx	lb/hr	15.14	13.14	8.80	8.44	6.40	4.86
Combined GT/DB CO	lb/hr	41.20	37.04	22.35	16.20	11.26	8.01
Combined GT/DB VOC	lb/hr	10.40	18.34	5.55	2.80	1.80	1.80
Combined GT/DB SO2	lb/hr	1.21	1.12	0.83	0.82	0.60	0.55
Combined GT/DB Acid Mist	lb/hr	0.42	0.40	0.35	0.35	0.11	0.08
Combined GT/DB PM10 (Part. + Acid Mist)	lb/hr	11.18	10.34	5.51	4.53	4.38	4.32
Annualized Emission Rates							
Combined GT/DB NOx	Tons/Year	51.2	46.2	35.8	34.8	28.1	20.2
Combined GT/DB CO	Tons/Year	120.8	118.5	79.8	61.8	45.8	38.7
Combined GT/DB VOC	Tons/Year	30.1	42.4	17.8	10.8	7.3	6.5
Combined GT/DB SO2	Tons/Year	4.5	4.2	3.8	3.7	2.8	2.2
Combined GT/DB Acid Mist	Tons/Year	1.8	1.8	1.4	1.4	0.4	0.3
Combined GT/DB PM10 (Part. + Acid Mist)	Tons/Year	35.4	33.2	21.2	18.3	17.8	17.8
Volumetric Calculations							
GT Exhaust	scfm	1	2	3	4	5	6
GT Exhaust Mol Wt, wet	lb/hr	28,488	28,488	28,488	28,488	28,474	28,407
GT Exhaust Mol, wet	Mol/hr	118,298	118,298	118,298	118,298	84,008	88,788
Ar	Mol/hr	1,047	1,047	1,047	1,047	756	819
N2	Mol/hr	87,443	87,443	87,443	87,443	63,088	51,713
O2	Mol/hr	14,887	14,887	14,887	14,887	10,568	8,837
CO2	Mol/hr	4,315	4,315	4,315	4,315	3,201	2,538
H2O	Mol/hr	8,808	8,808	8,808	8,808	6,383	5,061
GT Exhaust Mol, Dry	Mol/hr	107,890	107,890	107,890	107,890	77,815	83,708
GT Exhaust Mol %, Dry	Mol %	13.83%	13.83%	13.83%	13.83%	13.82%	13.87%
Stack Exhaust (GT + Duct Burner)							
Ar	Mol/hr	1,047	1,047	1,047	1,047	756	819
N2	Mol/hr	87,443	87,448	87,443	87,443	63,088	51,713
O2	Mol/hr	12,182	12,097	14,728	14,897	10,568	8,837
CO2	Mol/hr	5,704	5,287	4,401	4,315	3,201	2,538
H2O	Mol/hr	11,302	10,489	8,774	8,808	6,383	5,061
Stack Flow, Mol/hr, Wet	Mol/hr	117,882	117,288	118,383	118,301	84,016	88,768
Stack Flow, Mol/hr, Dry	Mol/hr	106,380	106,278	107,810	107,707	77,822	83,708
Stack O2 Mol %, Dry	Mol %	11.45%	12.17%	13.89%	13.83%	13.81%	13.87%
Stack Exhaust Mol Wt, wet	lb/hr	28,347	28,388	28,478	28,485	28,471	28,487
Stack Emissions, Wet							
NOx	ppmv	2.80	2.44	1.68	1.58	1.68	1.57
CO	ppmv	12.50	11.28	8.06	4.67	4.78	4.68
VOC	ppmv	5.51	8.15	2.98	1.39	1.34	1.45
SO2	ppmv	0.18	0.15	0.13	0.12	0.12	0.18
Stack Emissions, Dry							
NOx	ppmv	3.08	2.87	1.80	1.71	1.79	1.89
CO	ppmv	13.83	12.34	7.41	5.04	5.18	5.05
VOC	ppmv	6.08	8.93	3.20	1.50	1.45	1.57
SO2	ppmv	0.18	0.18	0.14	0.13	0.14	0.18
Stack Emissions, Dry @ 15% O2 Ref							
NOx	ppmv	1.83	1.81	1.47	1.43	1.45	1.42
CO	ppmv	8.83	8.37	5.06	4.21	4.18	4.24
VOC	ppmv	3.81	6.05	2.82	1.28	1.17	1.31
SO2	ppmv	0.11	0.11	0.11	0.11	0.11	0.11
Stack Emissions, Lb/mbtu HHV							
NOx	lb/mbtu HHV	0.0071	0.0066	0.0054	0.0052	0.0051	0.0051
CO	lb/mbtu HHV	0.0182	0.0187	0.0135	0.0094	0.0083	0.0092
VOC	lb/mbtu HHV	0.0048	0.0077	0.0023	0.0018	0.0015	0.0018
SO2	lb/mbtu HHV	0.0006	0.0004	0.0006	0.0006	0.0006	0.0006
Acid Mist	lb/mbtu HHV	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002
PM10 (Part. + Acid Mist)	lb/mbtu HHV	0.0052	0.0052	0.0033	0.0028	0.0026	0.0052
Min Stack Temperature							
F		214	214	214	273	238	234
Stack Velocity							
F/Sec		67.93	67.83	67.62	73.72	50.51	41.15
Stack SCFM							
SCFM		744,804	741,988	736,456	735,911	531,587	435,113

5 ppmv

Guarantee is 8

OF Max

OF Max

OF Max

10266

112-01 SPRING CANYON ENERGY LLC, Utah
 GE PG7241(FA) DLN # Combustor, 5130 Ft Elevation

Assumptions							
Annual GT Operating Hours	hr/yr		8150				
Annual OB Operating Hours	hr/yr		5000				
Fuel Sulfur	Gr/100 SCF		0.2				
Fuel LHV	BTU/SCF		812.1				
Fuel HHV	BTU/SCF		1011.4				
H ₂ O/LHV ratio			1.103				
Data Inputs		1	2	3	4	5	6
Ambient Pressure	psia	12.18	12.19	12.19	12.19	12.19	12.19
Ambient Temperature	F	30	30	30	30	30	30
Relative Humidity	%	28	28	28	25	25	16
GT Load	%	100	100	100	100	75	50
Duct Burner Fuel	lbm/br/hr, HHV	520	364	323	272	204	137
GT NOx	lb/yr	51	51	51	51	38	25
GT CO	lb/yr	15	15	15	15	11	7
GT UHC	lb/yr	12	12	12	12	9	6
GT Particulates	lb/yr	4	4	4	4	3	2
GT Fuel Consumption	lbm/br/hr, LHV	1288.5	1388.5	1388.5	1388.5	1048.8	672.7
Duct Burner NOx	lbm/br/hr, HHV	0.049	0.049	0.049	0.049	0.049	0.049
Duct Burner CO	lbm/br/hr, HHV	0.050	0.049	0.049	0.049	0.049	0.049
Duct Burner VOC	lbm/br/hr, HHV	0.015	0.015	0.015	0.015	0.015	0.015
Duct Burner Particulate (PM10)	lbm/br/hr, HHV	0.010	0.010	0.010	0.010	0.010	0.010
GT Exhaust Flow	scph	3158.0	3158.0	3158.0	3158.0	2393.0	1567.0
Argon	Vol %	0.91	0.91	0.91	0.91	0.89	0.89
Nitrogen	Vol %	76.08	76.08	76.08	76.08	75.03	75.14
Oxygen	Vol %	12.78	12.78	12.78	12.78	12.82	12.82
Carbon Dioxide	Vol %	7.72	7.72	7.72	7.72	3.78	3.43
Water	Vol %	7.64	7.64	7.64	7.64	7.67	7.40
Component Hourly Emission Rates							
GT NOx	lb/yr	51.00	51.00	51.00	51.00	38.00	25.00
GT CO	lb/yr	14.64	14.64	14.64	14.64	11.24	7.01
GT VOC	lb/yr	2.40	2.40	2.40	2.40	1.80	1.20
GT SO2	lb/yr	0.88	0.88	0.88	0.88	0.66	0.55
GT Acid Mist	lb/yr	0.34	0.34	0.34	0.34	0.26	0.17
GT PM10 (Part + Acid Mist + VOC)	lb/yr	4.70	4.70	4.70	4.70	3.57	2.32
Duct Burner NOx	lb/yr	41.80	30.12	26.00	22.00	16.70	11.10
Duct Burner CO	lb/yr	38.00	31.84	27.15	22.92	17.10	11.10
Duct Burner VOC	lb/yr	7.80	7.14	6.23	5.29	3.94	2.52
Duct Burner SO2	lb/yr	0.59	0.21	0.02	0.02	0.02	0.02
Duct Burner Acid Mist	lb/yr	0.07	0.05	0.00	0.00	0.00	0.00
Duct Burner Particulate (PM10)	lb/yr	3.20	3.64	0.33	0.33	0.33	0.33
Duct Burner PM10 (Part + Acid Mist + VOC)	lb/yr	6.44	5.60	0.77	0.77	0.77	0.77
Abated Hourly Emission Rates							JOF Max
Combined GT/DB NOx	lb/yr	14.62	12.62	8.58	6.10	6.24	4.90
Combined GT/DB CO	lb/yr	40.84	38.48	21.79	14.84	11.28	8.01
Combined GT/DB VOC	lb/yr	10.20	10.14	8.33	7.40	5.80	4.00
Combined GT/DB SO2	lb/yr	1.71	1.08	0.88	0.86	0.68	0.55
Combined GT/DB Acid Mist	lb/yr	0.40	0.38	0.34	0.33	0.26	0.17
Combined GT/DB PM10 (Part + Acid Mist)	lb/yr	11.13	10.29	5.46	4.49	4.37	3.32
Annualized Emission Rates							
Combined GT/DB NOx	Tons/Year	40.8	44.8	34.3	33.3	25.4	20.2
Combined GT/DB CO	Tons/Year	124.0	114.2	77.5	59.0	45.9	36.7
Combined GT/DB VOC	Tons/Year	28.3	41.8	17.1	8.0	7.3	6.5
Combined GT/DB SO2	Tons/Year	4.3	4.1	3.8	3.8	2.8	2.2
Combined GT/DB Acid Mist	Tons/Year	1.5	1.5	1.4	0.5	0.4	0.3
Combined GT/DB PM10 (Part + Acid Mist)	Tons/Year	35.2	32.1	21.1	18.2	17.8	15.2
Volumetric Calculations		1	2	3	4	5	6
GT Exhaust	scph	28,478	28,475	28,476	28,476	28,402	28,478
GT Exhaust Mol/Wet	Mol/yr	119,806	119,806	119,806	119,806	84,077	69,070
Ar	Mol/yr	1,000	1,009	1,008	1,009	748	615
N2	Mol/yr	83,288	83,288	83,288	83,288	63,083	51,889
O2	Mol/yr	14,152	14,152	14,152	14,152	10,811	8,924
CO2	Mol/yr	4,128	4,128	4,128	4,128	3,187	2,521
H2O	Mol/yr	4,362	4,362	4,362	4,362	4,448	4,115
GT Exhaust Mol/Wet, Dry	Mol/yr	102,544	102,544	102,544	102,544	77,828	63,858
GT Exhaust Mol % Dry	Mol %	13.80%	13.80%	13.80%	13.80%	13.87%	13.85%
Stack Exhaust (GT + Duct Burner)							
Ar	Mol/yr	1,008	1,009	1,008	1,008	748	615
N2	Mol/yr	83,272	83,271	83,288	83,288	63,083	51,889
O2	Mol/yr	11,436	12,251	13,882	14,152	10,811	8,924
CO2	Mol/yr	5,515	5,098	4,213	4,128	3,187	2,521
H2O	Mol/yr	11,938	10,249	8,331	6,362	4,448	3,111
Stack Flow Mol/Wet, Wet	Mol/yr	112,282	111,819	111,083	110,817	84,077	69,070
Stack Flow Mol/Wet, Dry	Mol/yr	101,233	101,830	102,472	102,555	77,828	63,858
Stack O2 Mol % Dry	Mol %	11.56%	12.05%	13.84%	13.80%	13.67%	13.85%
Stack Exhaust Mol/Wet, Wet	scph	28,328	28,370	28,483	28,472	28,492	28,478
Stack Emissions, Wet							JOF Max
NOx	ppmv	2.87	2.49	1.88	1.80	1.81	1.58
CO	ppmv	12.82	11.84	7.01	4.71	4.78	4.06
VOC	ppmv	5.88	6.44	2.89	1.25	1.32	1.44
SO2	ppmv	0.18	0.15	0.13	0.12	0.13	0.12
Stack Emissions, Dry							
NOx	ppmv	3.18	2.74	1.83	1.73	1.75	1.89
CO	ppmv	14.23	12.81	7.58	5.10	5.18	5.03
VOC	ppmv	6.28	8.29	3.24	1.48	1.45	1.56
SO2	ppmv	0.18	0.17	0.14	0.13	0.14	0.13
Stack Emissions, Dry @ 15% O2 Ref							
NOx	ppmv	1.85	1.83	1.44	1.44	1.43	1.43
CO	ppmv	8.81	8.55	6.17	4.23	4.22	4.27
VOC	ppmv	3.88	8.19	2.83	1.21	1.18	1.32
SO2	ppmv	0.11	0.11	0.11	0.11	0.11	0.11
Stack Emissions, lbm/br/hr HHV							
NOx	lbm/br/hr HHV	0.0072	0.0067	0.0054	0.0053	0.0052	0.0051
CO	lbm/br/hr HHV	0.0198	0.0190	0.0138	0.0094	0.0093	0.0093
VOC	lbm/br/hr HHV	0.0048	0.0048	0.0034	0.0034	0.0035	0.0037
SO2	lbm/br/hr HHV	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Acid Mist	lbm/br/hr HHV	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002
PM10 (Part + Acid Mist)	lbm/br/hr HHV	0.0054	0.0054	0.0034	0.0028	0.0038	0.0054
Min Stack Temperature		F	112	222	222	257	234
Stack Velocity		ft/sec	85.58	85.48	85.25	86.58	50.81
Stack SCFM		SCFM	710,503	707,865	702,351	701,808	531,982
							437,025
							110,503

EmissionMetric2
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112-01 SPRING CANYON ENERGY LLC, Utah
 GE PG7241(F) DLN 9 Combustor, 6130 Ft Elevation.

Assumptions							
Annual GT Operating Hours	hr/yr	8150					
Annual DB Operating Hours	hr/yr	5000					
Fuel Sulfur	Gr/100 SCF	0.2					
Fuel LHV	BTU/SCF	912.1					
Fuel HHV	BTU/SCF	1011.4					
HHV/LHV ratio		1.109					
Data Inputs		1	2	3	4	5	6
Ambient Pressure	psia	12.19	12.19	12.19	12.19	12.19	12.19
Ambient Temperature	F	58	59	58	58	59	58
Relative Humidity	%	45	45	45	45	45	45
GT Load	mmBtu/hr, HHV	100	100	100	100	100	100
Duct Burner Fuel	mmBtu/hr, HHV	520	364	372	364	364	364
GT NOx	#/hr	48	49	48	48	49	48
GT CO	#/hr	14	14	14	14	14	14
GT UHC	#/hr	8.4	12	12	12	12	8.4
GT Particulates	#/hr	4	4	4	4	4	4
GT Fuel Consumption	mmBtu/hr, LHV	1217.7	1217.7	1217.7	1217.7	1217.7	1217.7
Duct Burner NOx	mmBtu HHV	0.040	0.040	0.040	0.040	0.040	0.040
Duct Burner CO	mmBtu HHV	0.050	0.050	0.050	0.050	0.050	0.050
Duct Burner VOC	mmBtu HHV	0.016	0.016	0.016	0.016	0.016	0.016
Duct Burner Particulate (PM10)	mmBtu HHV	0.010	0.010	0.010	0.010	0.010	0.010
GT Exhaust Flow	scfm	2848.0	2848.0	2848.0	2848.0	2848.0	2848.0
Ar	Vol %	0.88	0.89	0.89	0.88	0.89	0.88
N2	Vol %	74.61	74.51	74.61	74.51	74.49	74.61
O2	Vol %	15.59	12.68	12.68	12.58	12.63	12.81
Carbon Dioxide	Vol %	2.72	3.72	3.72	3.72	2.76	2.68
Water	Vol %	8.28	8.28	8.28	8.28	8.23	7.89
Component Hourly Emission Rates							
GT NOx	#/hr	48.00	48.00	48.00	48.00	48.00	48.00
GT CO	#/hr	13.51	13.51	13.51	13.51	13.51	13.51
GT VOC	#/hr	1.88	2.40	2.40	2.40	1.80	1.80
GT SO2	#/hr	0.83	0.83	0.83	0.83	0.84	0.84
GT Acid Mist	#/hr	0.32	0.32	0.32	0.32	0.10	0.10
GT PM10 (Part. + Acid Mist + VOC)	#/hr	4.57	4.68	4.68	4.68	4.37	4.35
Duct Burner NOx	#/hr	41.60	28.12	2.60			
Duct Burner CO	#/hr	76.00	21.84	7.15			
Duct Burner VOC	#/hr	7.80	12.74	2.03			
Duct Burner SO2	#/hr	0.29	0.21	0.02			
Duct Burner Acid Mist	#/hr	0.07	0.05	0.00			
Duct Burner Particulate (PM10)	#/hr	5.20	3.84	0.33			
Duct Burner PM10 (Part. + Acid Mist + VOC)	#/hr	6.44	5.80	0.77			
Abated Hourly Emission Rates							
Combined GT/DB NOx	#/hr	14.50	12.80	8.30	7.84	6.21	4.88
Combined GT/DB CO	#/hr	39.51	35.29	20.60	13.51	10.70	4.01
Combined GT/DB VOC	#/hr	8.48	16.14	5.33	2.40	1.80	1.61
Combined GT/DB SO2	#/hr	1.13	1.04	0.85	0.83	0.68	0.54
Combined GT/DB Acid Mist	#/hr	0.39	0.37	0.32	0.13	0.10	0.08
Combined GT/DB PM10 (Part. + Acid Mist)	#/hr	11.01	10.78	5.45	4.49	4.37	4.35
Annualized Emission Rates							
Combined GT/DB NOx	Tons/Year	48.8	43.0	33.0	31.8	25.4	20.2
Combined GT/DB CO	Tons/Year	120.1	109.7	72.9	65.7	43.6	36.7
Combined GT/DB VOC	Tons/Year	28.3	41.6	17.1	8.8	7.3	7.3
Combined GT/DB SO2	Tons/Year	4.1	3.9	3.4	3.4	2.8	2.2
Combined GT/DB Acid Mist	Tons/Year	1.5	1.4	1.3	0.5	0.4	0.3
Combined GT/DB PM10 (Part. + Acid Mist)	Tons/Year	34.7	33.1	21.9	18.3	17.8	17.7
Volumetric Calculations							
GT Exhaust	scfm	1	2	3	4	5	6
GT Exh Mol Wgt, wet	lb/hr	28,380	28,380	28,380	28,380	28,382	28,412
GT Exh Mol Wgt, dry	lb/hr	105,248	105,248	105,248	105,248	84,145	89,871
Ar	lb/hr	837	837	837	837	757	830
N2	lb/hr	78,420	78,420	78,420	78,420	82,878	52,219
O2	lb/hr	13,251	13,251	13,251	13,251	10,543	8,033
CO2	lb/hr	3,928	3,928	3,928	3,928	3,164	2,505
VOC	lb/hr	4,715	8,715	3,715	3,715	1,009	5,981
GT Exh Mol Wgt, Dry	lb/hr	96,533	96,533	96,533	96,533	77,135	84,380
GT Exh O2 Mol Wgt, Dry	lb/hr	13,734	13,734	13,734	13,734	13,874	14,034
Stack Exhaust (GT + Duct Burner)							
Ar	lb/hr	837	837	837	837	757	830
N2	lb/hr	78,424	78,423	78,420	78,420	82,878	52,219
O2	lb/hr	10,538	11,350	13,081	13,251	10,543	8,033
CO2	lb/hr	5,316	4,889	4,013	3,928	3,164	2,505
H2O	lb/hr	11,410	10,802	8,883	8,715	7,089	5,391
Stack Flow, Mol/hr, Wet	lb/hr	158,822	158,210	165,334	165,248	84,163	89,978
Stack Flow, Mol/hr, Dry	lb/hr	85,212	85,808	94,431	94,533	77,144	84,382
Stack O2 Mol %, Dry	Mol %	11.02%	11.87%	13.56%	13.73%	13.67%	14.03%
Stack Exhaust Mol Wgt, wet	lb/hr	28,440	28,284	28,381	28,380	28,389	28,408
Stack Emissions, Wet							
NOx	ppmww	2.95	2.56	1.70	1.62	1.81	2.95
CO	ppmww	13.23	11.88	7.00	4.56	4.54	13.23
VOC	ppmww	3.54	8.88	3.15	1.42	1.33	8.88
SO2	ppmww	0.17	0.15	0.13	0.13	0.13	0.17
Stack Emissions, Dry							
NOx	ppmvd	3.31	2.84	1.88	1.77	1.78	3.31
CO	ppmvd	14.82	13.20	7.85	5.00	4.95	14.82
VOC	ppmvd	8.21	8.87	3.44	1.55	1.45	8.21
SO2	ppmvd	0.18	0.17	0.14	0.13	0.14	0.18
Stack Emissions, Dry @ 15% O2 Ref							
NOx	ppmvd	1.89	1.88	1.50	1.46	1.43	1.89
CO	ppmvd	8.88	8.63	6.15	4.11	4.04	8.88
VOC	ppmvd	3.72	6.45	2.77	1.27	1.18	6.45
SO2	ppmvd	0.11	0.11	0.11	0.11	0.11	0.11
Stack Emissions, lb/mmBtu HHV							
NOx	lb/mmBtu HHV	0.0073	0.0068	0.0055	0.0053	0.0051	0.0073
CO	lb/mmBtu HHV	0.0198	0.0182	0.0137	0.0092	0.0088	0.0198
VOC	lb/mmBtu HHV	0.0047	0.0082	0.0035	0.0016	0.0015	0.0047
SO2	lb/mmBtu HHV	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Acid Mist	lb/mmBtu HHV	0.0022	0.0022	0.0022	0.0001	0.0001	0.0022
PM10 (Part. + Acid Mist)	lb/mmBtu HHV	0.0055	0.0056	0.0036	0.0030	0.0036	0.0056
Min Stack Temperature		F	108	108	108	143	171
Stack Velocity	ft/sec	80.95	80.45	80.55	83.80	50.14	80.85
Stack SCFM	SCFM	671,610	672,021	688,478	685,935	532,463	674,610

5 ppmvd
 Guarantee is

89F Max

89F Max

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112-01 SPRING CANYON ENERGY, LLC, Utah
 GE PG7241(F) DLN 3 Combustor, 8130 Ft Elevation

Assumptions:						
Annual GT Operating Hours	hr/yr	8130				
Annual DB Operating Hours	hr/yr	5000				
Fuel #/hr	GM100 ECF	0.2				
Fuel LHV	BTU/GCF	112.1				
Fuel HHV	BTU/GCF	1011.4				
HHV/LHV ratio		1.098				
Data Inputs						
		1	2	3	4	5
Ambient Pressure	psia	12.19	12.19	12.19	12.19	12.19
Ambient Temperature	F	40	40	40	40	40
Relative Humidity	%	40	40	40	40	40
GT Load	%	100	100	100	100	76
Duct Burner Fuel	mmBtu/hr, HHV	520	364	32.6		
GT NOx	#/hr	50	50	50	50	31
GT CO	#/hr	14	14	14	14	11
GT VOC	#/hr	17	17	17	17	10
GT Particulates	#/hr	4	4	4	4	4
GT Fuel Consumption	mmBtu/hr, LHV	1354.0	1354.0	1354.0	1354.0	1044.3
Duct Burner NOx	mmBtu HHV	0.040	0.040	0.040		
Duct Burner CO	mmBtu HHV	0.045	0.045	0.045		
Duct Burner VOC	mmBtu HHV	0.015	0.015	0.015		
Duct Burner Particulate (PM10)	mmBtu HHV	0.010	0.010	0.010		
GT Exhaust Flow	scph	3038.0	3038.0	3038.0	3038.0	2411.0
Argon	Vol %	0.80	0.80	0.80	0.80	0.80
Nitrogen	Vol %	74.21	74.21	74.21	74.21	74.1
Oxygen	Vol %	12.50	12.50	12.50	12.50	12.46
Carbon Dioxide	Vol %	3.73	3.73	3.73	3.73	3.73
Water	Vol %	8.67	8.67	8.67	8.67	8.68
Component Hourly Emission Rates						
GT NOx	#/hr	50.00	50.00	50.00	50.00	30.00
GT CO	#/hr	14.08	14.08	14.08	14.08	11.28
GT VOC	#/hr	2.40	2.40	2.40	2.40	2.00
GT SO2	#/hr	0.85	0.85	0.85	0.85	0.68
GT Acid Mist	#/hr	0.32	0.32	0.32	0.32	0.10
GT PM10 (Part. + Acid Mist + VOC)	#/hr	4.68	4.68	4.68	4.68	4.40
Duct Burner NOx	#/hr	11.00	28.12	2.80		
Duct Burner CO	#/hr	28.00	21.84	7.13		
Duct Burner VOC	#/hr	7.80	12.74	2.83		
Duct Burner SO2	#/hr	0.38	0.31	0.09		
Duct Burner Acid Mist	#/hr	0.07	0.05	0.02		
Duct Burner Particulate (PM10)	#/hr	5.20	3.64	0.33		
Duct Burner PM10 (Part. + Acid Mist + VOC)	#/hr	6.44	5.60	0.77		
Abated Hourly Emission Rates						
Combined GT/DB NOx	#/hr	14.68	12.60	8.42	8.00	8.24
Combined GT/DB CO	#/hr	40.08	35.92	21.73	14.08	11.28
Combined GT/DB VOC	#/hr	10.20	15.14	6.23	2.40	2.00
Combined GT/DB SO2	#/hr	1.14	1.05	0.87	0.85	0.88
Combined GT/DB Acid Mist	#/hr	0.39	0.37	0.33	0.33	0.10
Combined GT/DB PM10 (Part. + Acid Mist)	#/hr	11.12	10.28	5.45	4.48	4.40
Annualized Emission Rates						
Combined GT/DB NOx	Tons/Year	48.2	44.2	33.8	33.0	25.4
Combined GT/DB CO	Tons/Year	122.4	112.0	75.2	57.4	45.9
Combined GT/DB VOC	Tons/Year	28.3	41.6	17.1	8.0	8.2
Combined GT/DB SO2	Tons/Year	4.2	4.0	3.5	3.5	2.8
Combined GT/DB Acid Mist	Tons/Year	1.5	1.4	1.3	0.5	0.4
Combined GT/DB PM10 (Part. + Acid Mist)	Tons/Year	35.2	33.1	21.0	18.3	17.0
Volumetric Calculations						
GT Exhaust		1	2	3	4	5
GT Exhaust Mol Wt, wet	Mol/hr	28,382	28,352	28,352	28,352	28,318
GT Exhaust Mol Wt, wet	Mol/hr	107,155	107,155	107,155	107,155	83,148
Ar	Mol/hr	864	864	864	864	798
N2	Mol/hr	79,519	79,519	79,519	79,519	82,874
O2	Mol/hr	13,384	13,384	13,384	13,384	10,808
CO2	Mol/hr	3,887	3,887	3,887	3,887	3,187
H2O	Mol/hr	8,290	8,290	8,290	8,290	7,848
GT Exhaust Mol Wt, Dry	Mol/hr	87,884	87,884	87,884	87,884	77,500
GT Exhaust Mol Wt, Dry	Mol %	13.89%	13.89%	13.89%	13.89%	13.89%
Stack Exhaust (GT + Duct Burner)						
Ar	Mol/hr	964	964	964	964	758
N2	Mol/hr	79,523	79,523	79,520	79,519	82,874
O2	Mol/hr	10,879	11,494	13,225	13,384	10,808
CO2	Mol/hr	5,387	4,870	4,084	3,887	3,187
H2O	Mol/hr	11,989	11,777	8,438	8,290	7,848
Stack Flow, Mol/hr, Wet	Mol/hr	108,539	108,127	107,251	107,185	86,154
Stack Flow, Mol/hr, Dry	Mol/hr	96,553	96,930	87,782	87,875	77,308
Stack O2 Mol %, Dry	Mol %	11.06%	11.96%	13.52%	13.89%	13.86%
Stack Exhaust Mol Wt, Wet		28,201	28,345	28,338	28,349	28,313
Stack Emissions, Wet						
NOx	ppmmw	2.83	2.54	1.71	1.62	1.58
CO	ppmmw	13.18	11.86	7.07	4.99	4.72
VOC	ppmmw	5.06	8.73	3.09	1.40	1.48
SO2	ppmmw	0.18	0.15	0.13	0.12	0.12
Stack Emissions, Dry						
NOx	ppmvd	3.30	2.84	1.87	1.78	1.75
CO	ppmvd	14.82	13.23	7.75	5.13	5.19
VOC	ppmvd	6.54	9.73	3.38	1.53	1.61
SO2	ppmvd	0.18	0.17	0.14	0.14	0.13
Stack Emissions, Dry @ 15% O2 Ref						
NOx	ppmvd	1.38	1.85	1.50	1.45	1.43
CO	ppmvd	8.88	8.82	6.20	4.20	4.24
VOC	ppmvd	3.95	6.35	2.71	1.23	1.24
SO2	ppmvd	0.11	0.11	0.11	0.11	0.11
Stack Emissions, LblmmBTU HHV						
NOx	lbmmBTU HHV	0.0072	0.0068	0.0055	0.0053	0.0052
CO	lbmmBTU HHV	0.0188	0.0182	0.0134	0.0084	0.0084
VOC	lbmmBTU HHV	0.0050	0.0081	0.0035	0.0018	0.0017
SO2	lbmmBTU HHV	0.0008	0.0008	0.0006	0.0006	0.0006
Acid Mist	lbmmBTU HHV	0.0002	0.0002	0.0002	0.0001	0.0001
PM10 (Part. + Acid Mist)	lbmmBTU HHV	0.0035	0.0038	0.0033	0.0030	0.0037
In Stack Temperature						
	F	270	270	270	260	277
Stack Velocity						
	F/Sec	83.17	83.07	87.88	85.61	50.23
Stack SCFM						
	SCFM	686,763	644,154	678,811	678,097	538,796

EmissionAbat2
 80F
 10/20/01

10264

112-01 SPRING CANYON ENERGY, LLC; Utah
 GE PG7241(FA) DLN-9 Combustor, 5130 Ft Elevation.

Assumptions:						
Annual GT Operating Hours	hr/yr	8150				
Annual GB Operating Hours	hr/yr	5000				
Fuel Btu/lb	BTU/lb	100,000				
Fuel LHV	BTU/lb	18,121				
Fuel HHV	BTU/lb	19,114				
HVA/LHV ratio		1.108				
Conditions						
Date Inputs		1	2	3	4	5
Ambient Pressure	psia	12.18	12.18	12.19	12.19	12.19
Ambient Temperature	F	100	100	100	100	100
Relative Humidity	%	10	10	10	10	10
GT Load	%	100	100	100	100	75
Duct Burner Fuel	mmBtu/hr, HHV	520	564	32.5	50	38
GT NOx	#/hr	14	14	14	14	10
GT CO	#/hr	12	12	12	12	10
GT Particulates	#/hr	4	4	4	4	4
GT Fuel Consumption	mmBtu/hr, LHV	1266.0	1254.0	1266.0	1256.0	857.5
Duct Burner NOx	#/mmBtu HHV	0.089	0.080	0.080	0.080	0.080
Duct Burner CO	#/mmBtu HHV	0.050	0.040	0.220	0.050	0.050
Duct Burner VOC	#/mmBtu HHV	0.016	0.037	0.080	0.016	0.016
Duct Burner Particulate (PM10)	#/mmBtu HHV	0.010	0.010	0.010	0.010	0.010
Exhaust Flow	scfm	3038.0	3038.0	3038.0	3038.0	2454.0
Argon	Vol %	0.91	0.89	0.90	0.89	0.89
Nitrogen	Vol %	74.21	74.21	74.21	74.21	74.66
Oxygen	Vol %	12.60	12.54	12.60	12.60	12.75
Carbon Dioxide	Vol %	3.73	3.73	3.73	3.73	3.67
Water	Vol %	8.67	8.67	8.67	8.67	7.84
Component Hourly Emission Rates						
GT NOx	#/hr	50.00	50.00	50.00	50.00	38.00
GT CO	#/hr	14.08	14.08	14.08	14.08	11.28
GT VOC	#/hr	2.40	2.40	2.40	2.40	1.80
GT SO2	#/hr	0.85	0.85	0.85	0.85	0.88
GT Acid Mist	#/hr	0.27	0.32	0.32	0.32	0.10
GT PM10 (Part. + Acid Mist + VOC)	#/hr	4.56	4.58	4.88	4.48	4.32
Duct Burner NOx	#/hr	41.80	28.12	2.50	2.50	2.50
Duct Burner CO	#/hr	28.00	21.64	7.16	7.16	7.16
Duct Burner VOC	#/hr	7.50	12.74	2.93	2.93	2.93
Duct Burner SO2	#/hr	0.29	0.21	0.02	0.02	0.02
Duct Burner Acid Mist	#/hr	0.07	0.05	0.00	0.00	0.00
Duct Burner Particulate (PM10)	#/hr	5.20	3.84	0.33	0.33	0.33
Duct Burner PM10 (Part. + Acid Mist + VOC)	#/hr	8.44	6.60	0.77	0.77	0.77
Blended Hourly Emission Rates						
Combined GT/DB NOx	#/hr	14.68	12.68	8.42	8.00	8.24
Combined GT/DB CO	#/hr	40.08	35.82	21.23	14.08	11.28
Combined GT/DB VOC	#/hr	10.20	15.14	5.32	2.40	2.00
Combined GT/DB SO2	#/hr	1.14	1.05	0.87	0.85	0.88
Combined GT/DB Acid Mist	#/hr	0.38	0.37	0.33	0.32	0.10
Combined GT/DB PM10 (Part. + Acid Mist)	#/hr	11.12	10.28	5.45	4.49	4.40
Annualized Emission Rates						
Combined GT/DB NOx	Tons/Year	49.2	44.2	33.8	32.0	25.4
Combined GT/DB CO	Tons/Year	122.4	112.8	75.2	37.4	38.0
Combined GT/DB VOC	Tons/Year	29.3	41.8	17.1	8.0	8.3
Combined GT/DB SO2	Tons/Year	4.2	4.0	3.5	3.5	2.2
Combined GT/DB Acid Mist	Tons/Year	1.5	1.4	1.3	0.5	0.3
Combined GT/DB PM10 (Part. + Acid Mist)	Tons/Year	35.2	33.1	21.0	18.3	17.8
Volumetric Calculations						
GT Exhaust		1	2	3	4	5
GT Exhaust Mol Wt, wet	Mol/hr	78,352	78,352	78,352	78,352	28,418
GT Exhaust Mol Wt, dry	Mol/hr	107,155	107,155	107,155	107,155	86,380
N2	Mol/hr	964	964	964	964	777
O2	Mol/hr	78,519	78,519	78,519	78,519	84,478
CO2	Mol/hr	13,284	13,284	13,284	13,284	11,811
H2O	Mol/hr	3,897	3,897	3,897	3,897	3,189
GT Exhaust Mol Wt, Dry	Mol/hr	8,290	8,290	8,290	8,290	6,835
GT Exhaust Mol Wt, Wet	Mol/hr	97,854	97,854	97,854	97,854	78,425
Stack Exhaust (GT + Duct Burner)						
N2	Mol/hr	964	964	964	964	777
O2	Mol/hr	78,522	78,522	78,522	78,522	84,478
CO2	Mol/hr	10,678	11,484	13,225	13,284	11,811
H2O	Mol/hr	5,287	4,870	4,044	3,897	3,189
Stack Flow, Mol/hr, Wet	Mol/hr	11,888	11,177	8,458	8,290	6,835
Stack Flow, Mol/hr, Dry	Mol/hr	108,539	108,127	107,251	107,165	86,389
Stack Exhaust Mol Wt, Dry	Mol/hr	86,553	86,850	87,792	87,875	78,434
Stack Exhaust Mol Wt, Wet	Mol/hr	11,086	11,000	13,626	13,689	14,255
Stack Emissions, Wet						
NOx	ppmww	2.83	2.54	1.71	1.62	1.57
CO	ppmww	13.18	11.86	7.07	4.68	4.80
VOC	ppmww	5.06	8.73	3.08	1.40	1.40
SO2	ppmww	0.16	0.15	0.13	0.12	0.12
Stack Emissions, Dry						
NOx	ppmvd	3.30	2.84	1.87	1.78	1.71
CO	ppmvd	14.82	13.23	7.76	5.13	5.18
VOC	ppmvd	6.58	9.73	3.38	1.57	1.52
SO2	ppmvd	0.18	0.17	0.14	0.14	0.13
Stack Emissions, Dry @ 12% O2 Ref						
NOx	ppmvd	1.86	1.65	1.50	1.45	1.43
CO	ppmvd	8.88	8.07	6.20	4.20	4.24
VOC	ppmvd	3.95	6.35	2.71	1.25	1.25
SO2	ppmvd	0.11	0.11	0.11	0.11	0.11
Stack Emissions, lb/mmBtu HHV						
NOx	lb/mmBtu HHV	0.0072	0.0068	0.0055	0.0053	0.0052
CO	lb/mmBtu HHV	0.0108	0.0102	0.0138	0.0094	0.0101
VOC	lb/mmBtu HHV	0.0050	0.0061	0.0035	0.0016	0.0017
SO2	lb/mmBtu HHV	0.0006	0.0006	0.0008	0.0008	0.0008
Acid Mist	lb/mmBtu HHV	0.0002	0.0002	0.0002	0.0001	0.0001
PM10 (Part. + Acid Mist)	lb/mmBtu HHV	0.0055	0.0055	0.0035	0.0030	0.0045
Min Stack Temperature	F	230	230	230	264	224
Stack Velocity	ft/sec	84.10	84.00	87.78	86.80	51.49
Stack SCFH	SCFH	866,763	864,154	878,011	876,067	546,481

5 ppmvd

Guarantee is 5

100F Max

100F Max

Emissions Matrix
 100F
 100001

10265

Appendix E Air Pollution Control Equipment

Air pollution control equipment for this project includes:

- Combustion Control for CO
- Dry Lo-NO_x Combustor
- Selective Catalytic Reduction (SCR) Catalyst (NO_x)

Note: Natural Gas is the only fuel proposed for use at the Spring Canyon Energy plant. Natural gas is LAER for PM-10, VOC and SO₂ control.
Maximum stack exhaust flow is 744, 999 ACFM @230°F at low ambient temperature conditions.

SUPPORT FOR ELIMINATION OF OXIDATION CATALYST REQUIREMENTS FOR GENERAL ELECTRIC CO. (GE) PG7241FA DLN COMBUSTION TURBINES

Brahim Richani, Ph.D., Manager, Environmental Engineering, GE Power Systems
Joel Chalfin, GT/CC Environmental Compliance Manager, GE Power Systems

APPLICABILITY

This position paper applies to GE PG7241FA combustion turbines with DLN combustors firing natural gas and located in all attainment areas and ozone non-attainment areas. For all other GE heavy-duty frame machines, owners are advised to contact their GE Power Generation sales representative for information regarding oxidation catalysts and related requirements.

ABSTRACT

Regulated emissions requirements have become more stringent for combustion turbines (CTs), generally requiring installation of post combustion controls regardless of uncontrolled emission levels, plant location, costs, process feasibility, or resulting environmental impacts. Federal and state regulatory agencies have sought to justify post-combustion controls primarily on the grounds that some existing installations are currently using oxidation catalysts for carbon monoxide (CO) control. However, a "one-size-fits-all" approach, where all units are required to install a particular technology without consideration of individualized factors, is in direct conflict with the Clean Air Act (CAA) Best Available Control Technology (BACT) analysis procedures and requirements.

The BACT analysis for CO (or any criteria pollutant) must weigh a variety of factors including energy, environmental and economic impacts. Dry Low NOx (DLN) combustors for GE PG7241FA combustion turbines are now demonstrating uncontrolled CO emissions in a range so low that the requirement to add an oxidation catalyst on these units will only serve to reduce

efficiency and output; produce negative environmental impacts; and, in light of the measured data, will not yield detectable CO emissions reduction benefits under normal operating conditions.

As mentioned above, the comparison to existing installations with CO catalysts is apparently the primary factor influencing regulatory agencies to insist on the installation of oxidation catalysts on all combustion turbine units. However, two additional factors are also considered in this paper; the impetus for expedited permitting, and the anticipated federal regulation for hazardous air pollutant (HAP) emissions from combustion turbines.

The objective of this paper is to demonstrate that the installation of an oxidation catalyst to achieve lower CO levels from GE PG7241FA DLN combustion turbines sited in attainment areas and ozone non-attainment areas should not be required by state, local, and/or federal regulatory agencies. The addition of oxidation catalysts to these units results in minimal CO emissions reduction, adds costs, and produces negative environmental impacts.

1.0 INTRODUCTION

State and federal regulatory agencies are requiring oxidation catalysts as BACT for CO emissions on combustion turbines in an attempt to achieve lower CO emissions. Such requirements are making it difficult for site owners and combustion turbine manufacturers to avoid the installation of oxidation catalysts as add-on controls, regardless of the uncontrolled CO emissions levels. The statutorily mandated BACT process is being circumvented and U.S.

EPA's own BACT guidance is being ignored. The Clean Air Act (CAA) clearly requires that a BACT determination be conducted on a "case-by-case" basis; however it appears that in many cases the regulatory agencies are influencing applicants' control technology choices and their BACT determination based on the following factors:

- Existing installations of various manufacturers' units that are using CO catalysts (i.e., "presumptive BACT");
- Applicants demands for an expedited permitting process; and
- Currently non-existent, but anticipated, Maximum Achievable Control Technology (MACT) Requirements.

Consequently, the regulatory agencies appear to be excluding other important factors in their BACT determinations, such as:

- Cost effectiveness and feasibility of control,
- Evaluation of collateral environmental impacts, and
- Evaluation of expected CO emissions on public health.

GE PG7241FA DLN natural gas-fired combustion turbines have consistently demonstrated uncontrolled CO emissions below 9 parts per million by volume dry (ppmvd) at base load. A requirement to add an oxidation catalyst to a GE PG7241FA DLN combustion turbine with single digit CO emissions will reduce efficiency and output, and produce negative environmental consequences while yielding non-detectable reduction in CO emissions under normal operating conditions. For areas designated as attainment for carbon monoxide, it becomes critical that the BACT analysis for CO includes environmental, cost effectiveness, and potential health impacts. The following provides an explanation of why BACT determinations for CO emissions for GE's PG7241FA DLN units should result in a conclusion of "No Add-on Controls."

2.0 EXISTING INSTALLATIONS

A review of existing CT installations located in attainment areas which are using oxidation catalysts, indicates that uncontrolled CO emission levels from these units are much higher than the demonstrated emission levels from GE's PG7241FA DLN combustion turbines. The existing installations reviewed have uncontrolled CO emission rates in the range of 15 to 25 ppmvd, while GE's PG7241FA DLN's have demonstrated uncontrolled CO levels of much less than 9 ppmvd. As a result, the cost effectiveness of an oxidation catalyst for installations other than the GE PG7241FA DLN combustion turbine is more reasonable, since greater CO emissions reductions are achieved from the higher emitting units. When post combustion control, such as an oxidation catalyst, is added to the higher emitting units, the resulting CO level achieved and permitted is approximately 5 ppmvd. This emission rate is achieved by the GE PG7241FA DLN units, *without any add-on controls.*

In ozone non-attainment areas, an additional consideration is VOC emissions. Oxidation catalysts can be used to reduce VOC emissions from CTs. However, GE PG7241 DLN units produce no measurable quantities of VOC emissions, and an oxidation catalyst for the reduction of VOCs serves no purpose and produces no benefits.

Given this fact, it seems clear that recent EPA BACT decisions requiring add-on controls for CO emissions for GE PG7241 FA DLN units have failed to undertake a case-by-case BACT analysis as required by the CAA. In addition, the EPA's determination has, in many cases, excluded the results of cost effectiveness analyses and collateral environmental impacts.

3.0 EXPEDITED PERMITTING PROCESS

The current demand to increase electric power supply availability in the U.S. is at an all-time high. Some states are experiencing rotating power blackouts (e.g., CA) and others (e.g., NY) are expected to follow suit because of the increased energy demand and

the limited number of new power plants which have been permitted and built in the deregulated market. As a result of the need for immediate energy supplies, limited or no BACT analyses are conducted for many projects because the applicants have included all available controls (SCR and oxidation catalyst) and yielded to regulatory pressures to expedite the permitting process. The result is that BACT has essentially become an automatic requirement of an oxidation catalyst for CO emissions reduction for future projects.

4.0 UP-COMING MACT REQUIREMENTS FOR HAPS

Some state and local regulatory agencies are using the soon to be issued U.S. EPA Maximum Achievable Control Technology (MACT) standard intended for the reduction of hazardous air pollutants (Primarily formaldehyde) emission levels from combustion turbines as the basis for requiring oxidation catalysts. As of August 2001, when this position paper was drafted, the MACT rule for combustion turbines had not yet been proposed. However, EPA has provided some information on what the rule would require through correspondence detailing the meeting minutes between the EPA and PRCI dated April 4, 2001. According to the EPA's minutes, all new combustion turbines will likely be required to install an oxidation catalyst to reduce hazardous air pollutants (HAPs), unless a formaldehyde emission level of less than 25 parts per billion by volume, dry (ppbvd) corrected to 15% O₂ is achieved. For combustion turbines achieving less than 25 ppbvd @15% O₂ of formaldehyde, the MACT requirement is expected to be "No Additional Control."

On August 21, 2001, EPA issued a memorandum indicating, "HAP emissions from lean premix stationary combustion turbines are equivalent or lower than HAP emissions from diffusion flame stationary combustion turbines equipped with oxidation catalyst systems. Thus, lean premix

combustion is a comparable technology to oxidation catalyst systems."

Additionally, GE has tested and provided EPA with formaldehyde emissions data using CARB Method 430 from two PG7241FA DLN natural gas-fired turbines. The test results demonstrate that the uncontrolled formaldehyde emissions when blank corrected are typically below 25 ppbvd @ 15% O₂. Therefore, based on the blank corrected measurements, GE's PG7241FA DLN units may not be subject to the upcoming MACT regulation and an oxidation catalyst would not be justified for MACT compliance.

5.0 COST EFFECTIVENESS

Inconsistent implementation of BACT across regions will occur if cost of control and the resulting cost-effectiveness levels are not evaluated. As indicated in Table 1, dollars per ton cost effectiveness analyses as low as \$2,055 per ton (Newington Energy in New Hampshire) have resulted in a decision that no oxidation catalyst is required for CO from gas combustors with emissions of 15 ppmvd. These figures conflict directly with a recent decision by EPA Region II that \$6,000/ton and less is considered cost effective for CO control in attainment areas. The lack of uniform EPA guidance regarding cost effectiveness determinations is causing inconsistencies in BACT determinations across the country.

GE's data collected to date on PG7241FA combustion turbines, shown in Figure 1, indicate CO levels below 2 ppmvd at various loads. These data suggest that the addition of oxidation catalysts to GE's PG7241FA DLN units will not result in any appreciable CO reductions, and that the cost effectiveness of such controls will be low (i.e., very high cost per ton controlled).

To demonstrate that GE's PG7241FA DLN units should not require add-on controls for BACT determinations, cost effectiveness calculations are presented in Figure 2.

TABLE 1 – COST EFFECTIVENESS LEVELS FOR RECENTLY PERMITTED SITES

Source/State	Model	Type of Operation	Catalytic Oxidation System Required	Cost Eff. (\$/ton)	Final CO BACT based on Natural Gas	Issuance
Westbrook Pwr/ME	PG7241FA	Combined Cycle	No	>\$3,000	15 ppmv	Draft findings of Fact and Order (12/98)
Newington Energy/NH	PG7241FA	Combined Cycle	No	\$2,055	15 ppmv	4/99
EMI Tiverton/RI	PG7241FA	Combined Cycle	No	\$7,400	12 ppmv	2/98
RockGen Energy/WI	PG7241FA	Simple Cycle	No	\$15,780	12 ppmv	1/99
SEL/WI	PG7241FA	Simple Cycle	No	\$14,000	12 ppmv	2/99
Tenaska Georgia Ptnrs/GA	PG7241FA	Simple Cycle	No	\$2,300	15 ppmv	12/98
PeopleGas and Light, McDonnell Energy/IL	PG7241FA	Combined and Simple Cycle	No	\$3,043 \$17,000	0.03 lb/mmBtu	1/99

FIGURE 1 - Average Raw CO Emissions vs. Load Size
GE PG7241FA CT Units

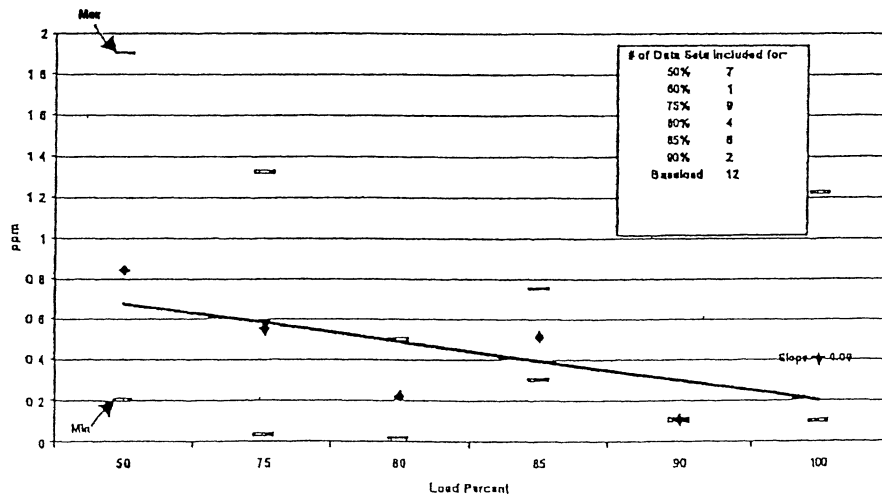
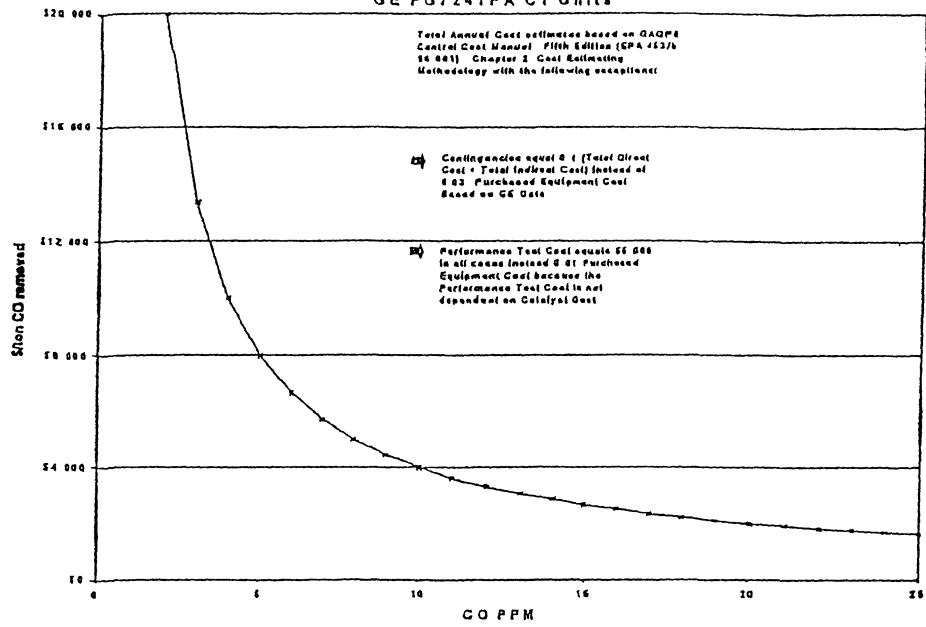


FIGURE 2 - Cost Effectiveness of Oxidation Catalysts
 \$/Ton CO Removed vs. PPM
 GE PG7241FA CT Units



These cost estimates are based on recently (1st Quarter, 2001) gathered information from two leading catalyst manufacturers (Englehard & Johnson Matthey). As evidenced in Figure 2, the requirement for an oxidation catalyst is not cost effective for units with uncontrolled CO levels less than 6 ppmvd, based upon the value of \$6,000/ton identified by EPA-Region II.

GE's CO guarantee is meant to accommodate operating conditions at all permitted ambient conditions and has a small margin to account for measurement error and machine and fuel variations. Generally for CO, extremely cold ambient conditions, concurrent with part load combustion turbine operations, will represent the worst-case emissions. GE's PG7241FA DLN turbine is one of the lowest emitting operating combustion turbines in simple cycle and combined cycle systems. These turbines are expected to operate near full load conditions for practically all of their operating hours. Consequently, GE's analysis shows that the CO emission levels from these combustion turbines can be tuned to be below 5 ppmvd. For any emission level below 5 ppmvd, the cost effectiveness will be greater than \$8,000/ton of CO removed. Based on these considerations, GE is offering CO guarantees lower than its current "across the board" 9 ppmvd on a case-by-case basis following a detailed evaluation of the situation, thus validating its position that oxidation catalysts are not economically justified for CO emissions reduction for the PG7241FA, DLN units while firing natural gas.

6.0 OTHER ENVIRONMENTAL IMPACTS

Use of oxidation catalysts to control CO emissions from GE PG7241FA DLN combustion turbines produces collateral impacts that are environmentally detrimental. A BACT analysis, by its definition, must include consideration of collateral environmental impacts. The EPA must consider the severity and resulting expense of these impacts when requiring controls for combustion turbines like GE's PG7241FA

DLN machines. In this case, nitric oxide (NO) and sulfur dioxide (SO₂) present in the exhaust will be oxidized by add-on catalysts to nitrogen dioxide (NO₂) and sulfur trioxide (SO₃), both of which promote the formation of acid rain. In addition, if applied in combination with selective catalytic reduction (SCR) for nitrogen oxides (NO_x) control, ammonium salts formed as a result of ammonia (NH₃) slip and SO₃ will result in additional generation of PM₁₀ and accelerated corrosion of the heat recovery steam generator (HRSG). The EPA identified this issue in its August 4, 2000, draft guidance "Consideration of Collateral Environmental Impacts Associated with the Use of SCR on Dry Low NO_x Combined Cycle Gas Turbines," by John S. Sietz, Director, OAQPS. Finally, additional carbon dioxide (CO₂) will be generated due to the output and efficiency losses associated with the pressure drop of the catalyst.

7.0 CO AS A PUBLIC HEALTH CONCERN

According to a health risks study conducted by a noted toxicologist in a May 2001, report ("*Carbon Monoxide Catalysis: Assessment of Need to Mitigate Public Health Risks Posed by Acute and Chronic Exposure to CO Emitted by Combined Cycle Natural Gas Turbines*"; R.A. Michaels, Ph.D., C.E.P., RAM TRAC Corporation, May 21, 2001), "Ground level CO concentrations arising from combined cycle natural gas turbines were found to be *below conservative standards and guidelines* limiting human exposure to airborne CO. CO also was found to be *below concentrations posing acute or chronic exposure risks to public health*." These findings support the conclusion in the report that "*public health concerns do not justify requiring natural gas power generators to be equipped with CO catalysis to reduce ground level CO impacts*." The health risks study was based on analysis of a CO emission rate of 9 ppmvd, which, as stated previously, is significantly higher than the uncontrolled emissions from GE's PG7241 DLN combustion turbines firing natural gas.

The following excerpt from page 23 of the RAM TRAC report summarizes the important conclusion that CO catalysts do nothing to improve public health:

"...Risks posed to public health are quantified in this report to be zero, with or without CO catalysts. Indeed, this report reveals that ground level impacts of combined cycle natural gas turbines as modeled by GE are far from impacts which would be required to elicit adverse public health effects. Modeled turbine impacts would have to be increased by over an order of magnitude to elicit adverse effects associated herein with acute or chronic exposure to CO."

8.0 OTHER CONSIDERATIONS

Use of an oxidation catalyst reduces system efficiency and output. System inefficiencies and output losses, in turn, will result in an increase in emissions. Due to the increase in pressure drop associated with the oxidation catalyst in the exhaust gas path, output (MW) will decrease and heat rate (Btu/kW-hr) will increase. Since combustion turbines are recognized as the least polluting combustion sources to generate electricity, any attempt to make up the energy losses will increase emissions.

The installation and use of an oxidation catalyst will increase the cost of the electricity (COE) produced. With oxidation catalyst requirements on a new PG7241 DLN combustion turbine, the added capital and operating costs of the catalyst will be absorbed and paid for by the consumer. The higher cost of electricity will drive consumers to purchase cheaper electricity produced by older plants emitting higher levels of pollutants. This will occur because fewer new combined cycle plants will be built due to the increased capital cost and operation and maintenance costs resulting in high COE, and thus less electricity will be generated from the new plants that are built. Therefore, total CO emissions will increase, not decrease, as a result of requiring

oxidation catalysts on the new plants, as will emissions of acid rain pollutants and fine particulate matter. NO_x, SO₂, CO₂, and mercury emissions will also increase on a national and regional basis due to continued operation of existing coal plants.

The use of an oxidation catalyst creates heavy metal wastes. Oxidation catalyst materials contain heavy metal oxides such as platinum and palladium, which are considered hazardous substances by the EPA. Handling, maintenance, cleaning, and disposal of the catalyst elements are harmful to humans and the environment. In addition, spent catalyst elements are considered hazardous waste, thus transferring an air emissions issue into a long-term solid waste disposal problem. When applied in combination with SCR, additional salt formation will occur. Ammonia salts cleaned from HRSGs are also wastes, which will need to be disposed of accordingly.

9.0 SUMMARY

In summary, the use of an oxidation catalyst to control CO emissions from GE's PG7241FA DLN combustion turbines will not result in a measurable reduction of CO and will not substantially reduce ambient CO levels since minimal CO is emitted under normal operating conditions. The application of an oxidation catalyst on GE PG7241FA DLN combustion turbines firing natural gas in simple cycle and combined cycle plants is not cost effective, and produces collateral impacts, which are detrimental to the environment.

Appendix F

Compliance Monitoring Devices and/or Activities

1. Monitoring of emissions from these units will be performed pursuant to 40 CFR 60.334 and 40 CFR 75.
2. Applicable test methods used to determine compliance will be confined to those methods defined in 40 CFR 60-335.



WALDRON ENGINEERING, INC.
37 Industrial Drive
Exeter, NH 03833

Telephone (603) 772-7153
Facsimile (603) 772-7693

July 1, 2002

Mr Dave Graeber
10440 N. Central Expressway, Suite 1400
Dallas, TX 75231

Subject: 112-02; Spring Canyon Energy, plant water requirements.

Dear Dave:

Our evaluation of water usage at the proposed Spring Canyon Energy facility is based on the application of two GE Frame 7FA combustion turbine-generators with two heat recovery steam boilers and one steam turbine. This is known in the industry as a "two on one" combined cycle configuration. The gas turbines also utilize an inlet air chilling system to maintain higher power output under high ambient temperature operating conditions. In a combined cycle plant, steam is produced from gas turbine exhaust heat in each of the heat recovery steam boilers, and is piped to the inlet of the steam turbine to produce additional power from the waste heat. After expanding through the steam turbine, the exhaust steam is condensed in an air cooled condenser, and the liquid condensate is then returned to the heat recovery boiler as feed water to repeat the steam generation, expansion and condensing cycle.

In this plant design there are two primary uses which determine plant water requirements: a) Heat recovery steam boiler blow-down, and b) Wet cooling tower evaporation associated with the cooling process required for chilling combustion turbine inlet air. There is no water usage associated with the steam condensing process as this plant will utilize a dry type air cooled condenser specifically for the purpose of minimizing plant water consumption.

When the inlet air chilling system is not in service, the expected continuous plant water consumption is comprised of boiler blowdown. This mode of operation will consume about 80 gpm. This is represented on the attached estimated plant water balance for a 59F day with the inlet chiller off.

Under operating conditions whereby the inlet chilling system is brought into service, such as on a 100F day, plant water consumption is comprised of boiler blowdown plus wet cooling tower evaporation for cooling of the inlet air chilling system. The attached water balance for a 100F day represents this condition, requiring approximately 290 gpm from the plant water supply.

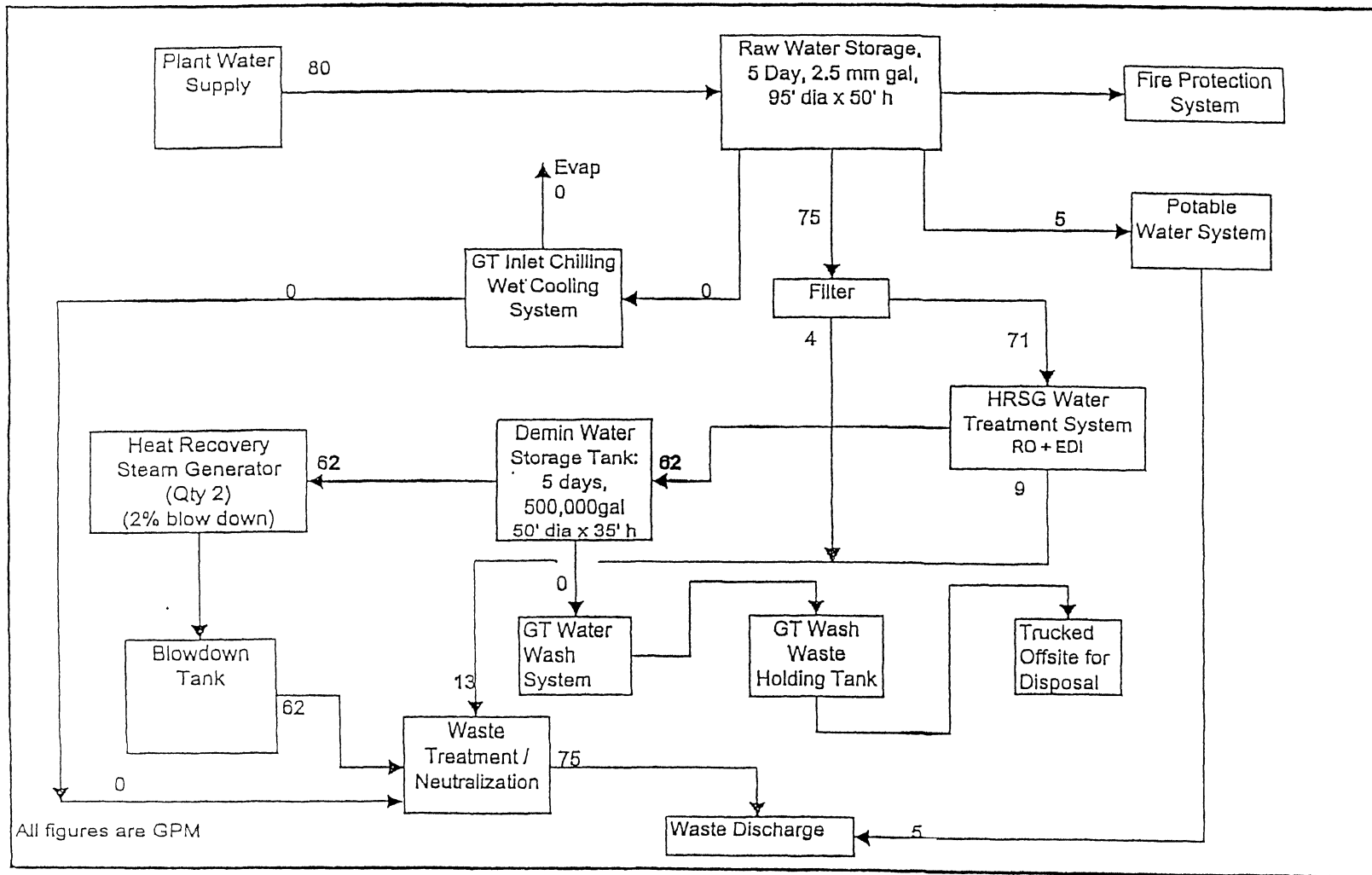
In order to arrive at an estimate of annual plant water usage, it is necessary to make a couple of assumptions about plant operating hours, and when the inlet chilling system will be in operation. In order to consider a worst case scenario, it is assumed that the plant would operate 8,760 hours per year (full time continuous). Further, it is assumed that the inlet chilling system will also be operating full time over a period of five months during the summer, from mid May through mid October. Under this very conservative scenario, the annual water consumption is calculated to be 88 million gallons. This figure translates to about 270 acre-feet of water, or a little less than half of the available 550 acre feet per year under the current supply contract terms. A copy of this worst case analysis is provided for reference.

Please contact me if you have any questions or need additional information.

Sincerely,



Raymond F. Racine, PE
Project Manager
603-772-7153, Ext 118
email: rfr@waldroneng.com



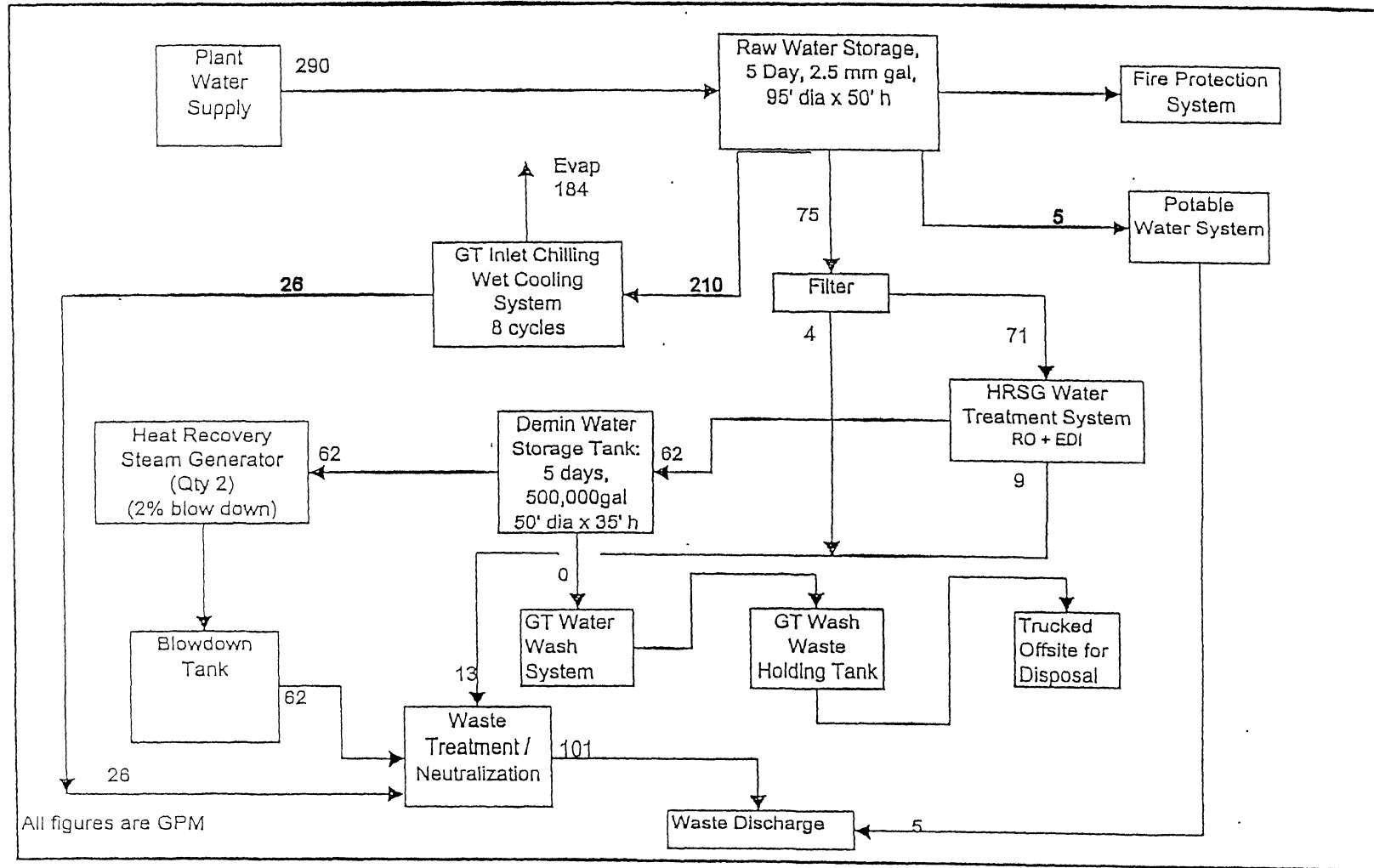
All figures are GPM

10277

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112- Water Balance,
Spring Canyon Energy
Preliminary Estimate

Plant Water Balance
207FA Combined Cycle
100F - Max Chilling



All figures are GPM

10275

P159

Waldron Engineering Inc
37 Industrial Drive
Exeter, NH 03842

Peak Electrical Generation
100F - Max Chilling
11/29/01

Water Use Spring Canyon-Proj Bk
Expected Case

1	Acre foot =	43,560	Cu Ft
1	Cu Ft =	7.48	Gal
Acre Feet	550	per year	<= Water available
Volume	23,958,000	Cu Ft	179,206 kgal

Data for Spring Canyon Project:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Avg daily F	28.0	33.3	40.5	48.6	57.2	67.1	75.4	73.2	63.7	52.2	39.6	29.7	50.5
Avg max F	39.6	45.0	53.6	63.1	73.0	84.6	93.0	90.9	80.8	68.4	52.2	41.0	65.5
Operating Profile.													
Op'n factor	0.30	0.30	0.50	0.70	0.80	1.00	1.00	1.00	1.00	0.70	0.50	0.30	
Hours/mo	730	730	730	730	730	730	730	730	730	730	730	730	
Op'n Hours	219	219	365	511	584	730	730	730	730	511	365	219	5913
Chill Opn factor	-	-	-	-	0.20	0.30	0.60	0.60	0.60	0.20	-	-	
Chiller Hours	0	0	0	0	116.8	219	438	438	438	102.2	0	0	1752
Firing factor	-	-	-	-	0.30	0.40	0.60	0.60	0.40	0.30	-	-	
Fired Hours	0	0	0	0	219	292	438	438	292	219	0	0	1898
CC Make-up, gpm	75	75	75	75	75	75	75	75	75	75	75	75	
Make-up, kgal	986	986	1,643	2,300	2,628	3,285	3,285	3,285	3,285	2,300	1,643	986	26,609
Inlet Chill CT evap. gpm	184	184	184	184	184	184	184	184	184	184	184	184	
Evap Loss, kgal	-	-	-	-	1,289	2,418	4,836	4,836	4,836	1,128	-	-	19,342
												Tot Annual Use, kgal	45,951
												Percent of Available	26%

10279

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Spring Canyon Water Balance
Worst Case

1	Acre foot =	43,560	Cu Ft
1	Cu Ft =	7.48	Gal
Acre Feet	550 per year	<= Water available	
Volume	23,958,000	Cu Ft	179,206 kgal

Data for Spring Canyon Project:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Avg daily F	28.0	33.3	40.5	48.6	57.2	67.1	75.4	73.2	63.7	52.2	39.6	29.7	50.5
Avg max F	39.6	45.0	53.6	63.1	73.0	84.6	93.0	90.9	80.8	68.4	52.2	41.0	65.5
Operating Profile.													
Op'n factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hours/mo	730	730	730	730	730	730	730	730	730	730	730	730	730
Op'n Hours	730	730	730	730	730	730	730	730	730	730	730	730	8760
Chill Opn factor	-	-	-	-	0.50	1.00	1.00	1.00	1.00	0.50	-	-	-
Chiller Hours	0	0	0	0	365	730	730	730	730	365	0	0	3650
Firng factor	-	-	-	-	-	1.00	1.00	1.00	1.00	-	-	-	-
Fired Hours	0	0	0	0	0	730	730	730	730	0	0	0	2920
CC Make-up, gpm	80	80	80	80	80	80	80	80	80	80	80	80	80
Make-up, kgal	3,504	3,504	3,504	3,504	3,504	3,504	3,504	3,504	3,504	3,504	3,504	3,504	42,048
Inlet Chill CT evap, gpm	210	210	210	210	210	210	210	210	210	210	210	210	210
Evap Loss, kgal	-	-	-	-	4,599	9,198	9,198	9,198	9,198	4,599	-	-	45,990
Max use	290												
Boiler only	80												
Tot Annual Use, kgal													88,038
Percent of Available													49%

10230

Waste Water Chemistry

Developer: Waldron Engineering/USA Power
 Location: Nephi, Utah
 Project: Hypothetical Only Water Analysis Required
 Project Location: 365
 Days of Operation: 365
 Revision: 1 cycles CT Operation

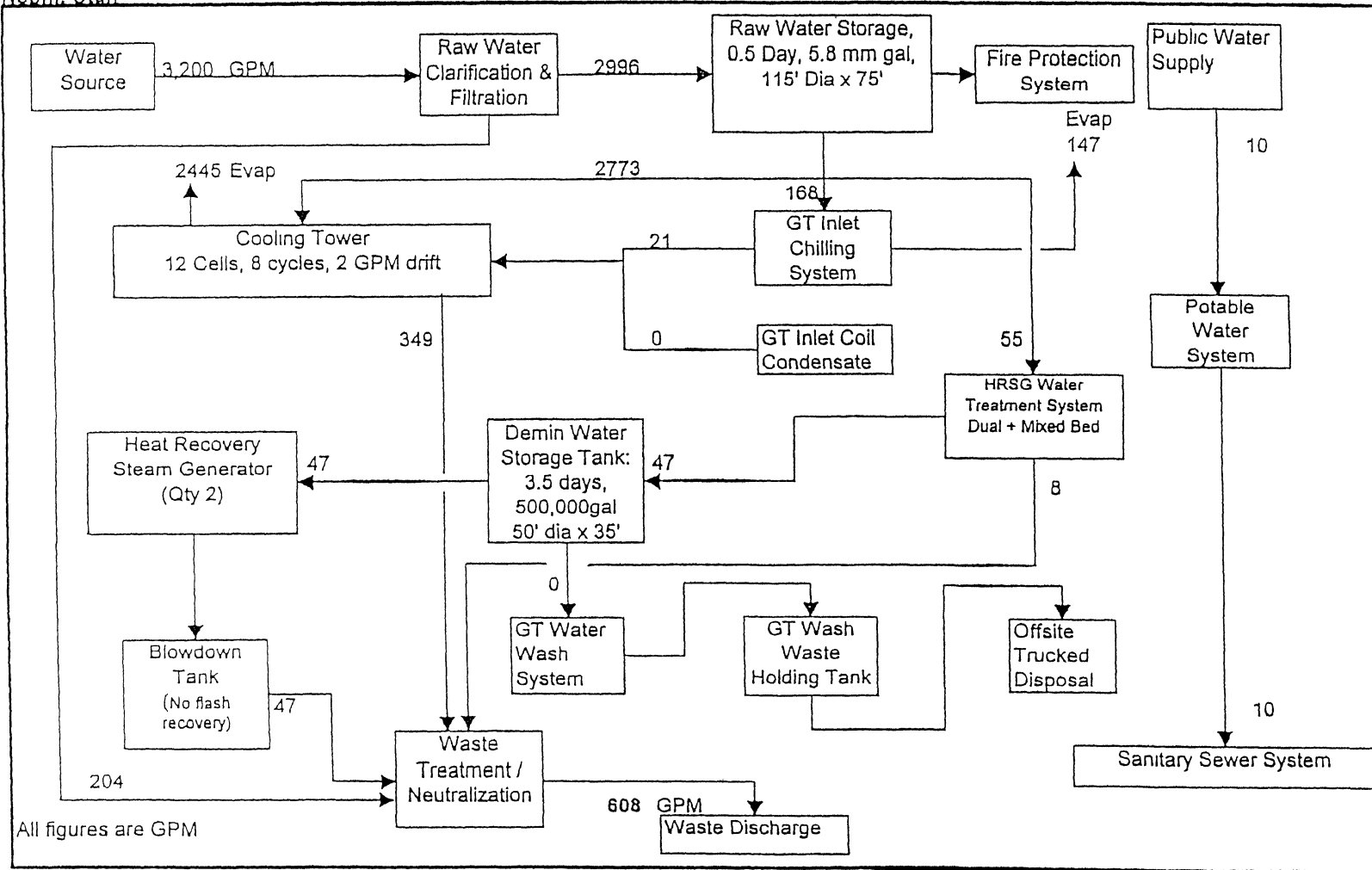
Include (Yes/No)	YES	NO	YES	YES	YES	NO	0.0000%	0.0000%	0.0000%	Waste Water Totals						
										Flows		Values below are per DAY				
Percent of Flow	85.9606%	0.0000%	0.2483%	1.7241%	12.0680%	0.0000%	0.0000%	0.0000%	0.0000%	406.00	92.27	ppm	ppm	mg/l	mg/l	
Gpm	349.00		1.00	7.00	48.00	0										
M3/hr	79.32		0.23	1.59	11.14	0.00										
	Cooling Tower BO	RO Reject	Mixed Bed Waste	Dual Bed Waste	HRSG BO	Once Through						ppm CaCO3	ppm Iron	mg/l as Iron	mg/l as Iron	
CATIONS AS CaCO3																
Al	Aluminum	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
NH4	Ammonia	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
As	Arsenic	0.080	0.000	0.005	0.020	0.000	0.000					0.089	0.03	0.2	0.1	
Ba	Barium	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
B	Boron	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Ca	Calcium	800.000	0.000	50.000	202.767	0.000	0.000					604.923	277.97	1,355.3	814.6	
Cd	Cadmium	0.010	0.000	0.001	0.003	0.000	0.000					0.009	0.01	0.0	0.0	
Co	Cobalt	0.054	0.000	0.003	0.014	0.000	0.000					0.047	0.03	0.1	0.1	
Cu	Copper (cupric)	0.063	0.000	0.004	0.016	0.000	0.000					0.055	0.04	0.2	0.1	
Cr	Chromium	0.254	0.000	0.016	0.064	0.000	0.000					0.221	0.08	0.4	0.2	
Au	Gold	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Fe	Iron (ferrous)	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Pb	Lead	0.042	0.000	0.003	0.011	0.000	0.000					0.037	0.08	0.4	0.2	
Li	Lithium	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Mg	Magnesium	407.055	0.000	25.441	103.172	0.000	0.000					353.591	84.86	413.8	187.6	
Mn	Manganese (Manganous)	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Hg	Mercury	0.008	0.000	0.001	0.002	0.000	0.000					0.007	0.01	0.1	0.0	
Mo	Molybdenum	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Ni	Nickel	0.178	0.000	0.011	0.045	0.000	0.000					0.164	0.09	0.4	0.2	
K	Potassium	108.032	0.000	6.752	27.382	0.000	0.000					93.842	73.20	356.9	161.9	
Se	Selenium	0.334	0.000	0.021	0.085	0.000	0.000					0.290	0.08	0.4	0.2	
Ag	Silver	0.018	0.000	0.001	0.005	0.000	0.000					0.016	0.03	0.2	0.1	
Na	Sodium	1501.363	0.000	945.050	4052.733	14.000	0.000					1480.501	681.03	3,320.5	1,505.9	
Sr	Strontium	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Tl	Thallium (thallic)	0.012	0.000	0.001	0.003	0.000	0.000					0.010	0.01	0.1	0.0	
Sn	Tin	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Ti	Titanium	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
V	Vanadium	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Zn	Zinc	0.135	0.000	0.008	0.034	0.000	0.000					0.117	0.08	0.4	0.2	
Sum of Cations as CaCO3																
		1617.6	0.000	1027.2	3388.4	14.0	0.0					1326.3	510.1	2623.9	1176.6	
ANIONS																
CO3	Bicarbonate	200.000	0.000	31.180	126.364	5.000	0.000					177.811	218.93	1,057.7	479.7	
B4O7	Borate	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Br	Bromide	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
CO3	Carbonate	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
OH	Hydride	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
Cl	Chloride	998.407	0.000	61.139	247.939	5.000	0.000					887.498	615.92	3,003.0	1,361.9	
F	Fluoride	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
MoO4	Molybdate	0.000	0.000	0.000	0.000	0.000	0.000					0.000	0.00	0.0	0.0	
NO3	Nitrate	5.832	0.000	0.365	1.478	0.000	0.000					5.068	6.28	30.8	13.9	
NO2	Nitrite	6.048	0.000	0.378	1.533	0.000	0.000					5.254	4.89	23.8	10.8	
PO4	Phosphate (as PO4)	12.000	0.000	0.000	0.000	4.000	0.000					10.656	6.71	32.7	14.8	
P	Phosphorous (Valence 3)	14.737	0.000	0.921	3.735	0.000	0					12.801	2.89	13.1	5.9	
SO4	Sulfate	1679.837	0.000	928.857	3990.585	0.000	0.000					1543.429	1481.69	7,224.2	3,276.3	
SiO2	Reactive Silica	83.000	0.000	5.188	21.037	0.000	0.000					72.098	86.52	421.8	191.3	
Sum of Anions																
		2899.9	0.000	1025.9	5592.2	14.0	0.0					2684.4	2674.8	13,262.3	5,828.3	
Cooling Tower Control Levels of Chemical Additives																
	PO4	10.0														
	Zinc	0.0														
	Organic-PO4	2.0														
	Tolyltriazole	0.0														
	Polymer	0.0														

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10281

Hypothetical Only,
Water Analysis Required.
Nephi, Utah

Plant Water Balance
207FA Combined Cycle



All figures are GPM

ESEA

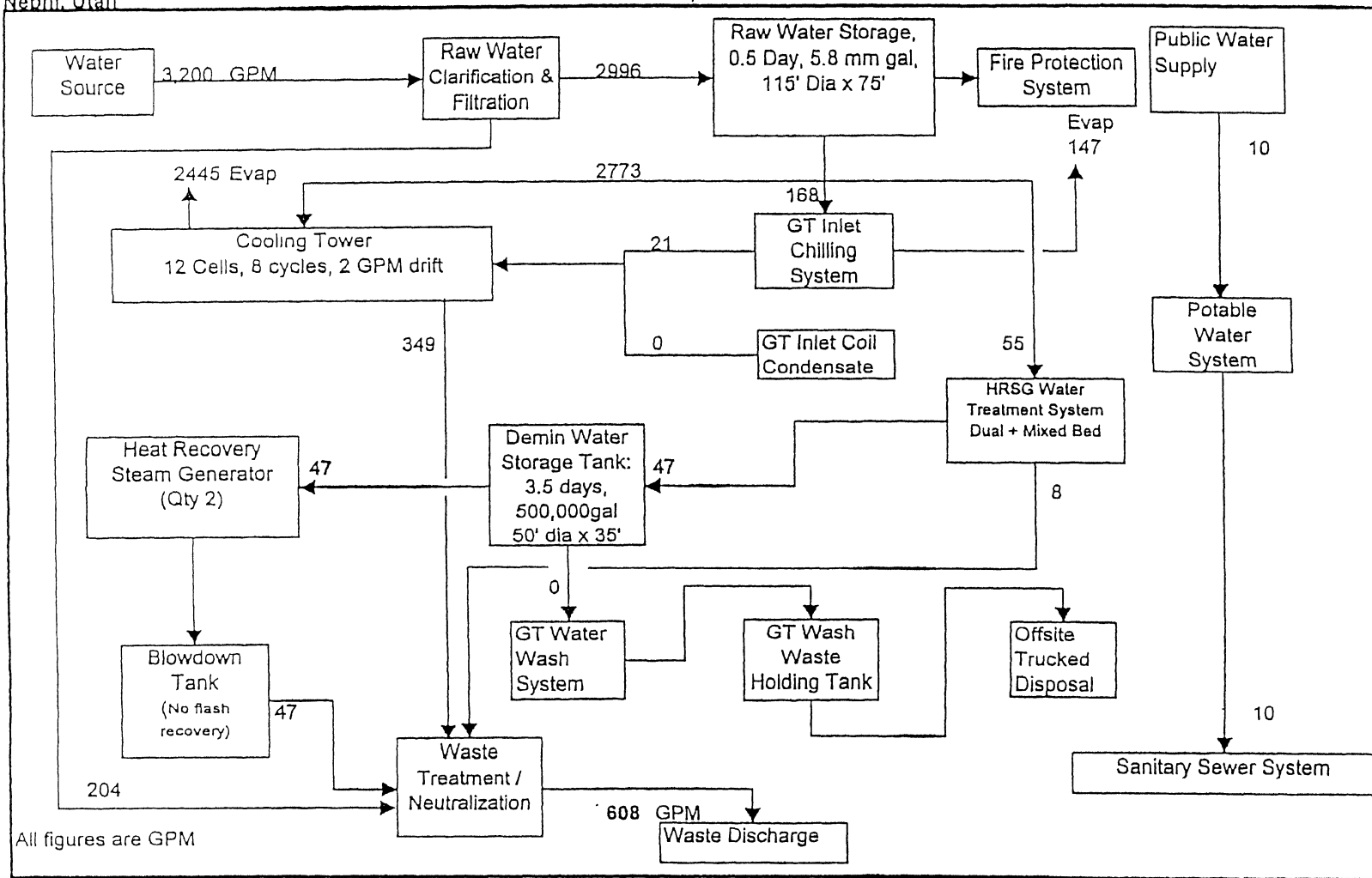
P 163

Waldron Engineering Inc
32 Depot Square
Hampton, NH 03842

TYPICAL ONLY
Water Balance - 8 Cycles
9/14/01

Hypothetical Only,
 Water Analysis Required.
 Nephi, Utah

Plant Water Balance
 207FA Combined Cycle



10383

P 164

Waldron Engineering Inc
 32 Depot Square
 Hampton, NH 03842

TYPICAL ONLY
 Water Balance - 8 Cycles
 9/14/01

Estimator 2000® Cost Estimate Data Input Sheet

This report is designed to calculate operating data and cost estimates for boiler and cooling water systems in independent power plants.
Enter all the data in following sections.

Chemical Process Summary

Project Information

Developer: Waldron Engineering/USA Power
 Location: Naphi, Utah
 Project ID: Hypothetical Only; Water Analysis Required
 Project Location:
 Revision:

Operation Information

Boiler Information

HRSG Treatment Product Information

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Phosphate Treatment Product	Nalco BT4000			9.10	1.06
O2 Scavenger Product	Elimin-Ox			8.50	1.02
Amine Treatment Product	Nalco 356			8.20	0.98
Dispersant Product	(none)				
Other	(none)				

Field Erected & Package Boiler Treatment Product Information

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Phosphate Treatment Product					
O2 Scavenger Product					
Amine Treatment Product					
Dispersant Product					
Other					

Auxiliary Boiler Treatment Product Information

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Phosphate Treatment Product					
O2 Scavenger Product					
Amine Treatment Product					
Dispersant Product					
Other					

Once Through Cooling System

8.1 Once Through Chemical Treatment Program

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Oxidizer					
Acid-Brom					
Bio-Dispersants					
Other					

Raw Water Treatment

Raw Water Chlorination

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Chlorine					
Ion Control					
Dispersant					

Multimedia Filters

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Dosage ppm
Oxidizer	(none)				
Coagulant #1	(none)				
Coagulant #2	(none)				
Flocculant	(none)	0	0		0
Media	Sand/Anthracite	\$35.00	\$/cu ft	1236.01	local/M3

Green Sand Filters

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Pre-Chlorination					
Potassium Permanganate					
Other					
Media			\$/cu ft		local/M3
Pre-chlorination ?	NO				

Contact Clarifier

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Chlorination	Bleach 12.5 %			9.90	1.19
Coagulant 1	Alum-dry basis				
Coagulant 2	Nalco 8105			8.80	1.05
Flocculant	Nalco 8110				
pH Control	(none)				
Lime Softening					

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Chlorination					
Lime					
Magnesium Oxide					
Soda Ash					
Caustic Soda					
Coagulant 1					
Coagulant 2					
Flocculant					
pH Adjustment					
Carbon Filters					

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Biological Control					
Ion Control					
Dispersant					
Media			\$/cu ft		local/M3

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Recirculating Cooling Water System

Cooling Product Information

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Scale/Corrosion Control	Nalco PCL-102			9.70	1.16
Dispersant	(none)				
Corrosion Control	Nalco CL-50			9.00	1.08
Oxidizer	Bleach - 12.5%			9.90	1.19
Other Bio Control	(none)				
Other	(none)				
Acid for pH Control (note 1)	H2SO4 66 Be'			15.28	1.83
Slug Feed Treatment	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Biocide	(none)				
Other	(none)				

Note 1: Acid dosage is non acid per ppm alkalinity reduction of make up water

Closed Loop Cooling System

Closed Loop Chemical Program

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
Corrosion Inhibitor					
Biocide					
Other					
Biocide Additions per Year					

Ion Exchange

Cation Ion Exchange

Unit Type	Name	Local Cost/kg	US \$/lb	Resin \$/cu ft	ppm, cap or lb/cuft
Cation Resin					
Regenerant					
Dechlorination					
Cleaner					

Dual Bed Demineralizer

Function	Name	Local Cost/kg	US \$/lb	Resin \$/cu ft	ppm, cap or lb/cuft
Dechlorination	Nalco 7408				4 ppm
Cation Resin	Dowex Marathon C (H)				16500 gr/cu.ft.
Regenerant	H2SO4 66 Be'				8 lb/cu.ft.
Anion Resin	Dowex Marathon A (Cl)				13500 gr/cu.ft.
Regenerant	Caustic Soda (liquid 50%)				8 lb/cu.ft.
Cation Cleaner	(none)				
Anion Cleaner	(none)				
Decarbonator ?	YES				

Mixed Bed Demineralizer

Function	Name	Local Cost/kg	US \$/lb	Resin \$/cu ft	capacity-gr. or lb/cuft
Cation Resin	Dowex Marathon C (H)				17500 gr/cu.ft.
Regenerant	H2SO4 66 Be'				8 lb/cu.ft.
Anion Resin	Dowex Marathon A (Cl)				14500 gr/cu.ft.
Regenerant	Caustic Soda (liquid 50%)				8 lb/cu.ft.

RO System

Function	Name	Local Cost/kg	US \$/lb	Density lb/gal	Density kg/L
pH Adjustment					
Antiscalant					
Bio Control					
Dechlorination					

Item	Name	Cost	Units
Membrane			US \$/element
Pre-treatment Filters			US \$/TIE
	Electric Power		US \$/kWh
	Recovery		%

See Water RO Only	Primary % Recovery	%
	Secondary % Recovery	%

User Defined	User Defined	User Defined
User Defined		
User Defined		
User Defined		

10000067-2

LO 2/2/04

ORDINANCE NO. 7-01-02

AN ORDINANCE CHANGING THE ZONING FOR CERTAIN PROPERTIES IN SECTION 23, TOWNSHIP 11 SOUTH, RANGE 1 WEST FROM GMRF TO ID.

WHEREFORE, after a duly noticed public hearing and in conformity with the Juab County General Plan, the subject property is found suited for industrial development.

BE IT ORDAINED BY THE BOARD OF JUAB COUNTY COMMISSIONERS AS FOLLOWS:


The zoning of the following described property is hereby changed from GMRF to ID:

NE ¼ of the SE ¼ of Section 34, Township 11 S Range 1 West, Salt Lake Baseline and Meridian, containing an area of 40 acres more or less.

The Juab County Zoning Map shall be amended accordingly.

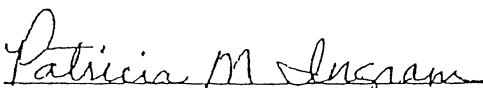
EFFECTIVE DATE: This ordinance shall take effect within 30 days or upon publication, whichever is shorter.

Passed and approved this 1st day of July, 2002.



William Boyd Howarth, Commission Chairman

Attest:



Patricia M. Ingram, Juab County Clerk



Salt Lake City Office
230 South 500 East, Suite 380
Salt Lake City, Utah 84102 2015
Tel 801 322 4307 Fax 801 322 4308
www.swca.com

June 20, 2002

Mr. F. David Graeber
Principal
USA Power
10440 North Central Expressway, Suite 1400
Dallas, TX 75231

Dear Mr. Graeber;

SWCA, Inc. Environmental Consultants has prepared this letter report that outlines the permit/approval requirements necessary to construct and operate the proposed Spring Canyon Energy Project near Mona, Utah. The permit descriptions are divided by federal and state jurisdictions and include the name of the permit or approval, granting agency, a narrative of the process and issues, and the likely time requirements. This report does not include the ongoing air quality, water rights transfer, or county conditional use permit processes.

I. FEDERAL

A. Permit/Approval: Right-of-Way Grant

Granting Agency: Bureau of Land Management (BLM) – Salt Lake Field Office

Process/Issues: The attached map illustrates the BLM-managed lands crossed by the project. As indicated on the map, the project includes a natural gas pipeline and an electrical transmission power line. The pipeline will traverse approximately five miles and the power line will traverse approximately one mile of BLM-administered land, respectively. The applicant submits a Form 299 Right-of-way Application that describes the proposed project. The BLM will require a Plan of Development (POD) be submitted as part of the complete right-of-way application. The POD outlines the purpose and need for the project and procedures from construction through reclamation and operation.

The BLM is mandated by the National Environmental Policy Act (NEPA) to analyze environmental impacts of the proposed action. SWCA contacted Alice Stephenson, NEPA Coordinator for the BLM Salt Lake Field Office, to determine the appropriate NEPA

process for the project. Based on this conversation, we determined an Environmental Assessment (EA) would likely be required as part of the project impact disclosure and permitting process. An EA is produced for uncomplicated, non-controversial projects expected not to have significant environmental impacts. In the majority of cases, an EA results in a Finding of No Significant Impact (FONSI) and fulfills the federal agency's NEPA requirements.

The EA analyzes existing conditions and potential environmental impacts on 13 critical elements according to the BLM NEPA Guidelines. The 13 critical elements include:

- Air Quality
- Areas of Critical Environmental Concern
- Cultural Resources
- Farm Lands
- Floodplains
- Environmental Justice
- Invasive, Non-native Species
- Native American Religious Concerns
- Threatened, Endangered or Candidate Species
- Hazardous or Solid Wastes
- Water Quality
- Wetlands/Riparian
- Wild and Scenic Rivers
- Wilderness

This EA process will satisfy many other federal regulations triggered by the BLM right-of-way application. Cultural resources inventories and analysis will be completed to satisfy the National Historic Preservation Act including Native American consultations. The Utah State Historic Preservation Office will be required to review and concur with the cultural resources investigations and findings. Threatened and endangered species surveys and consultations will be completed to satisfy the Endangered Species Act. Wetland delineations will be completed to satisfy portions of the Clean Water Act (see Joint Stream Alteration Permit).

The BLM may conduct a 30-day scoping period to solicit public input on the project during the initial phase of the NEPA process. Additionally, the BLM may allow 30 days for public comment on the Draft EA. Based on SWCA's understanding of Spring Canyon Energy's proposed project and extensive experience with the BLM and similar pipeline projects in the project area, we believe a relatively simple EA process will satisfy the BLM's NEPA obligations.

Time Requirement: To expedite the preparation of the EA, a third party environmental consultant can be contracted by the applicant to prepare the EA on behalf of the BLM. The timing of this process is highly dependent on the coordination and cooperation between the applicant, third-party consultant, and the BLM. The proposed natural gas and power transmission lines parallel an existing overhead power line corridor and have recently been surveyed by SWCA for a proposed petroleum products pipeline. SWCA inventoried the project area for cultural resources, wetlands, and threatened and endangered species. Given SWCA's recent survey work in the project area, it is our opinion that the proposed project would result in a Finding of No Significant Impact and the process could be completed within 3 to 6 months.

II. STATE OF UTAH

A. Permit/Approval: Right-of-Way Easement

Granting Agency: School and Institutional Trust Lands Administration (SITLA)

Process/Issues: The attached map illustrates the proposed natural gas pipeline crosses less than a half-mile of SITLA-managed land. The applicant submits an easement application to SITLA and is required to complete cultural resource investigations and threatened and endangered species investigations. The investigations required for the BLM EA process will satisfy the SITLA requirements. In SWCA's experience, obtaining a utility easement from SITLA has not been problematic.

Time Requirement: SITLA estimates 90 days to process this application following the completion of the appropriate investigations.

B. Permit/Approval: Joint Stream Alteration Permit

Granting Agency: Utah Department of Natural Resources Division of Water Rights and the U.S. Army Corps of Engineers

Process/Issues: The attached map illustrates several stream crossings along the proposed natural gas pipeline route. The State of Utah Division of Water Rights and the U.S. Army Corps of Engineers (COE) have a joint application procedure for permitting impacts to Waters of the United States including jurisdictional wetlands. A Waters of the U.S. and jurisdiction wetland delineation is completed according to the COE's requirements. The application is submitted to the Division of Water Rights and the Division routes the application to the COE, U.S. Fish and Wildlife Service, and other State agencies for comment. A follow-up inspection by the Division of Water Rights is required upon completion of the

construction and rehabilitation. This process is routine for all stream alteration activities.

Time Requirement: There are no permanent, aboveground impacts to wetlands; therefore the completed application can be processed within 30-45 days.

C. Permit/Approval: Construction Storm Water Discharge Permit

Granting Agency: Utah Department of Environmental Quality, Division of Water Quality

Process/Issues: In the State of Utah the EPA granted jurisdiction of the National Pollution Discharge Elimination System (NPDES) portion of the Clean Water Act to the Utah Department of Environmental Quality, Division of Water Quality (DWQ). A permit is required for construction activities involving greater than 5 acres of ground disturbance. The applicant is required to prepare a Storm Water Pollution Prevention Plan (SWPPP), to have available on site during construction activities. The applicant is required to submit a Notice of Intent (NOI) to the DWQ describing the project. This permit applies to construction activities, in this case, the pipeline, power line, and plant site construction. The DWQ may visit the site at any time for a site inspection and the applicant is required to perform and document routine inspections. A Notice of Termination is required when the site has been successfully stabilized. There is no agency review process associated with obtaining a Construction Storm Water Discharge Permit.

Time Requirement: Authorization to discharge is effective immediately after the NOI is received by the DWQ along with the appropriate permit fee.

D. Permit/Approval: General Multi-Sector Industrial Storm Water Discharge Permit

Granting Agency: Utah Department of Environmental Quality, Division of Water Quality

Process/Issues: Similar to the construction storm water discharge permit, however, this permit only applies to the plant site. The industrial storm water discharge permit applies to the long-term operation and handling of storm water on the plant site. The applicant is required to prepare a plan to have available on site during the long-term operation of the plant. There is no agency review process associated with obtaining a General Multi-Sector Industrial Storm Water Discharge Permit.

Time Requirement: Authorization to discharge is effective immediately after the NOI is received by the DWQ along with the appropriate permit fee.

E. Permit/Approval: Trench Dewatering/Hydrostatic Test Water Discharge Permit

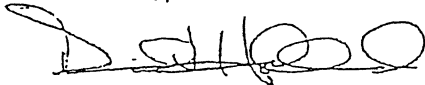
Granting Agency: Utah Department of Environmental Quality Division of Water Quality

Process/Issues: This permit is required for discharging groundwater and/or hydrostatic test water from construction activities to streams, creeks, canals, ditches, storm drains, or wetlands. A Notice of Intent is prepared that describes the nature of the activity and likely discharge points and rates. The permit requires that water quality sampling is performed and that the discharge meets appropriate water quality standards. The sampling data must be reported to the Division of Water Quality on a monthly basis. A Notice of Termination is required at the completion of the work.

Time Requirement: A permit is typically granted with 30 days of the Notice of Intent being submitted.

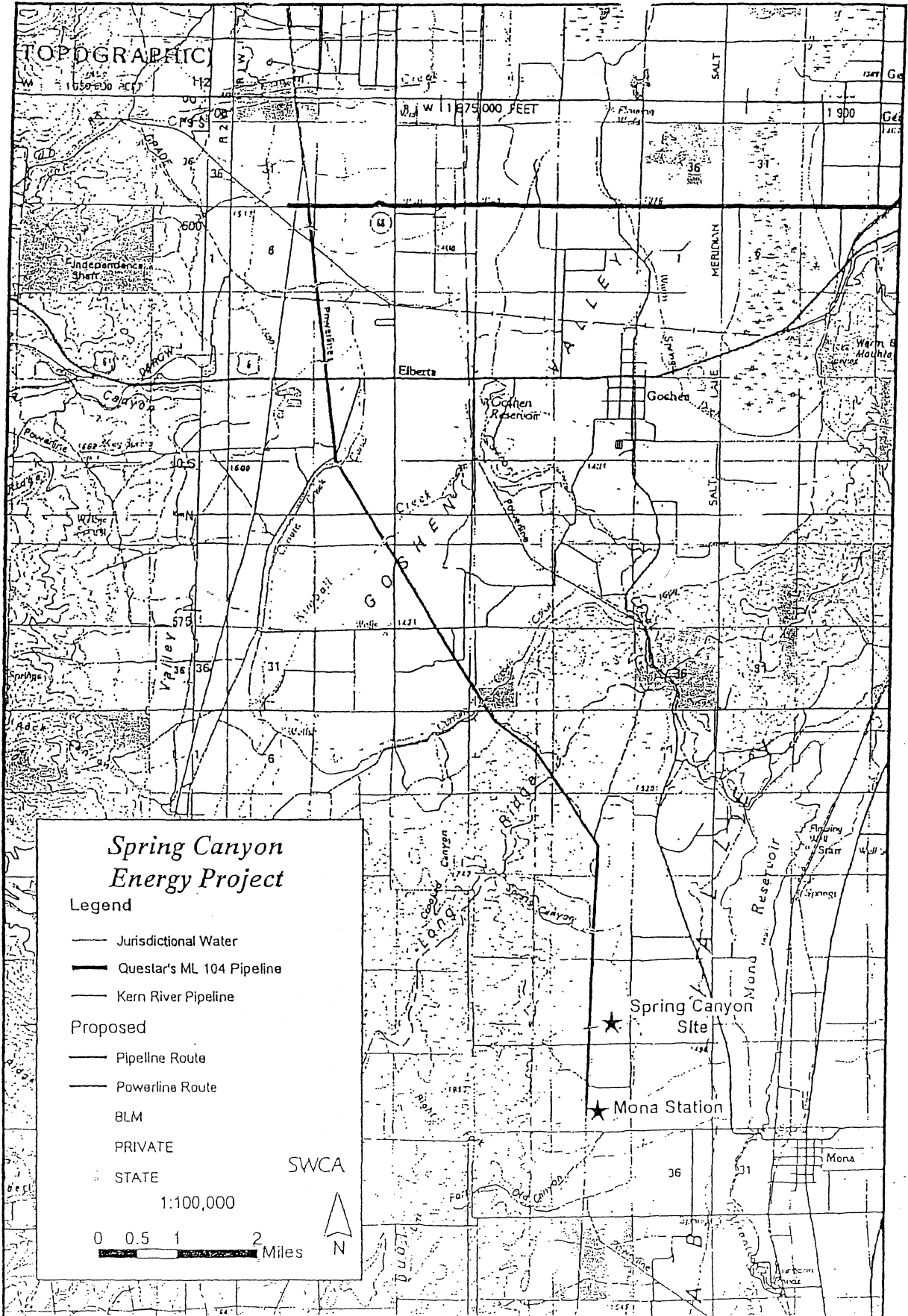
If you have any questions regarding the information contained in this report, please feel free to contact me at (801) 322-4307 ext. 206.

Sincerely,



David N. Holland
Program Director

Attachment



Tab 8

Timeline of Events

USA Power v. PacifiCorp, Jody Williams, and Holme, Roberts & Owen, LLP

Issue Key:

- 1. PacifiCorp's Negotiations with Panda Energy**
- 2. PacifiCorp's Development of Currant Creek**
- 3. Williams/HRO's Representation of PacifiCorp**
- ~~4. Negotiations between USA Power and PacifiCorp~~
- 5. Williams/HRO's Representation of USA Power**
- 6. USA Power's Development of Spring Canyon**

Abbreviations:

Dave = Dave Graeber
HRO = Holme, Roberts & Owen
Lois = Lois Banasiewicz
PaC = PacifiCorp
Spring Canyon = Spring Canyon Energy Development in Mona
Ted = Ted Banasiewicz
Thurgood = Rand Thurgood
USA = USA Power
Williams = Jody Williams

Early 1997

April 1998

May - June 1998

July 1998

Early 2001

Panda
Negotiations.

Capital
Development

Williams/HRO's
Representation
of PacifiCorp

PacifiCorp/
UBA Power
Negotiations

Williams/HRO's
Representation
of UBA Power

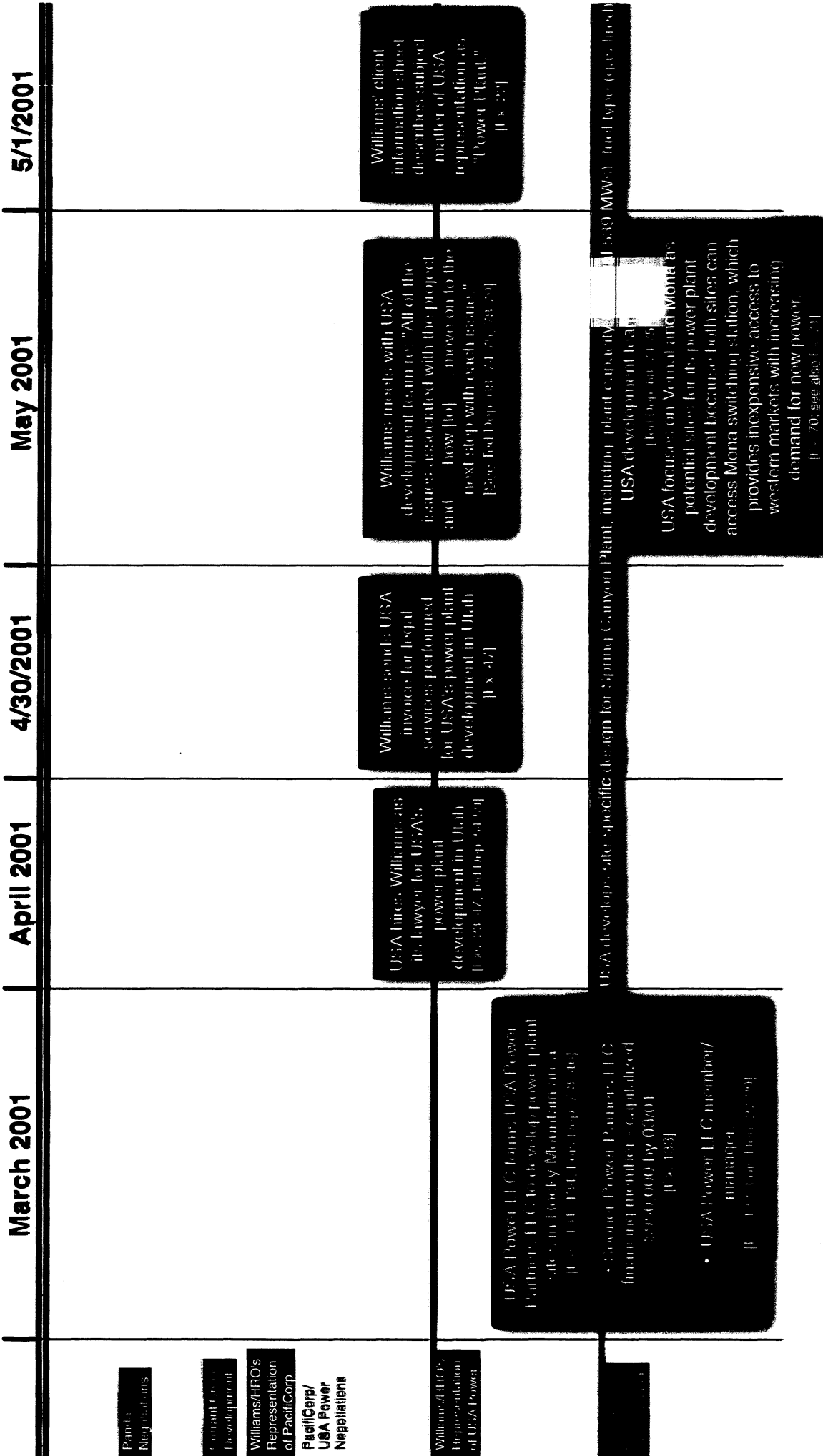
For. creates Acme Project
Development, Inc. ("APD").
Mays, Landing, N.J., to
develop power plant sites.
[For Dep. 20-21, 23]

Ted Jones; APD
[Ted Dep. 19-20,
22-24]

APD starts looking at
Rocky Mt. area to develop
power plant sites, because
costs and delays of project
development in the East
and California are too high.
[Ted Dep. 23, 30-31, 34]

For. & Ted travel to Utah
and look at transmission
lines and water systems
for APD's Rocky Mt.
Business Plan.
[Ted Dep. 36-38]

APD becomes USA
Power LLC
[For Dep. 37-38]



Plant's Negotiations

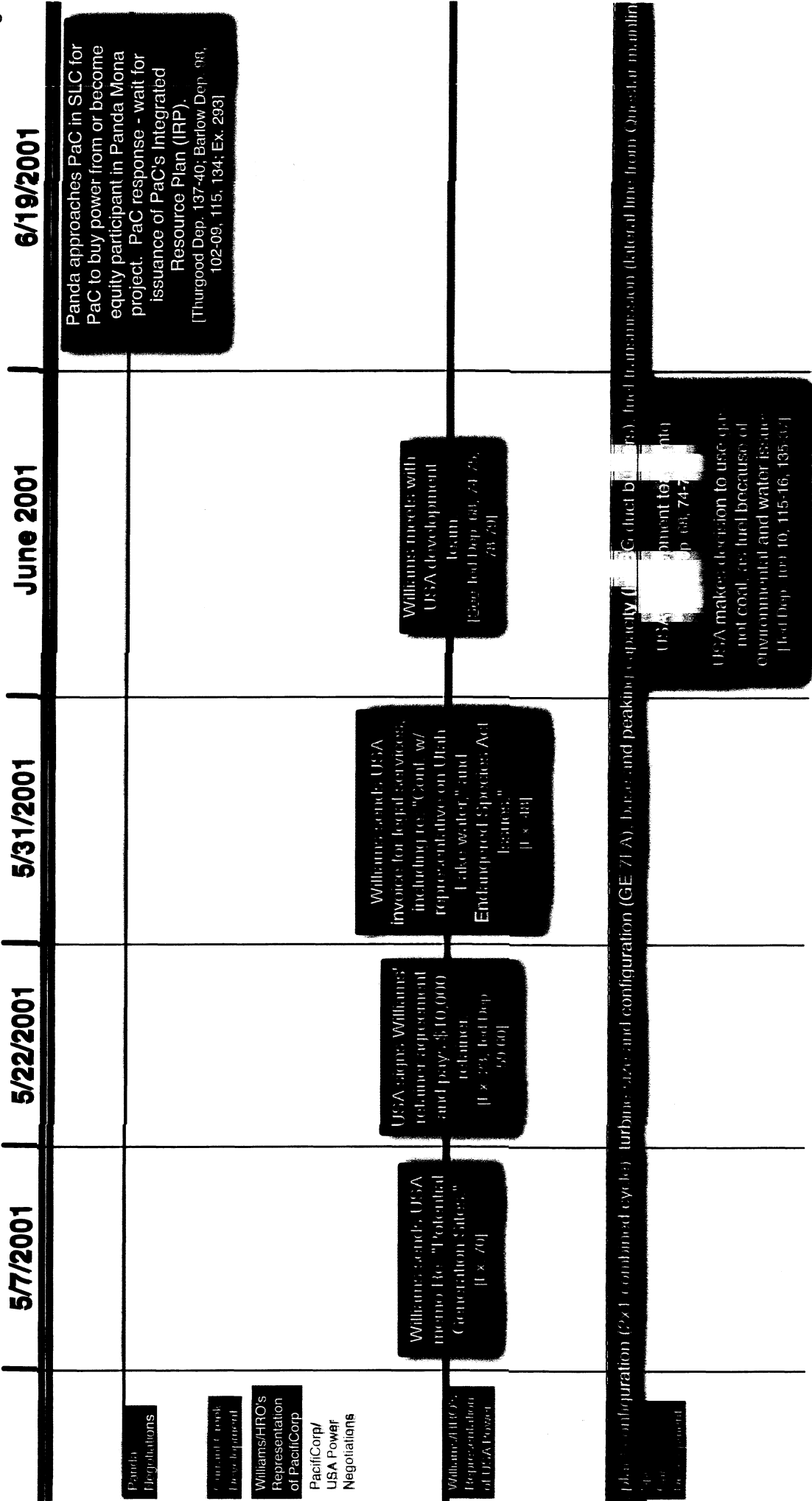
Contract Cost Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

USA Power



Panda
Negotiations

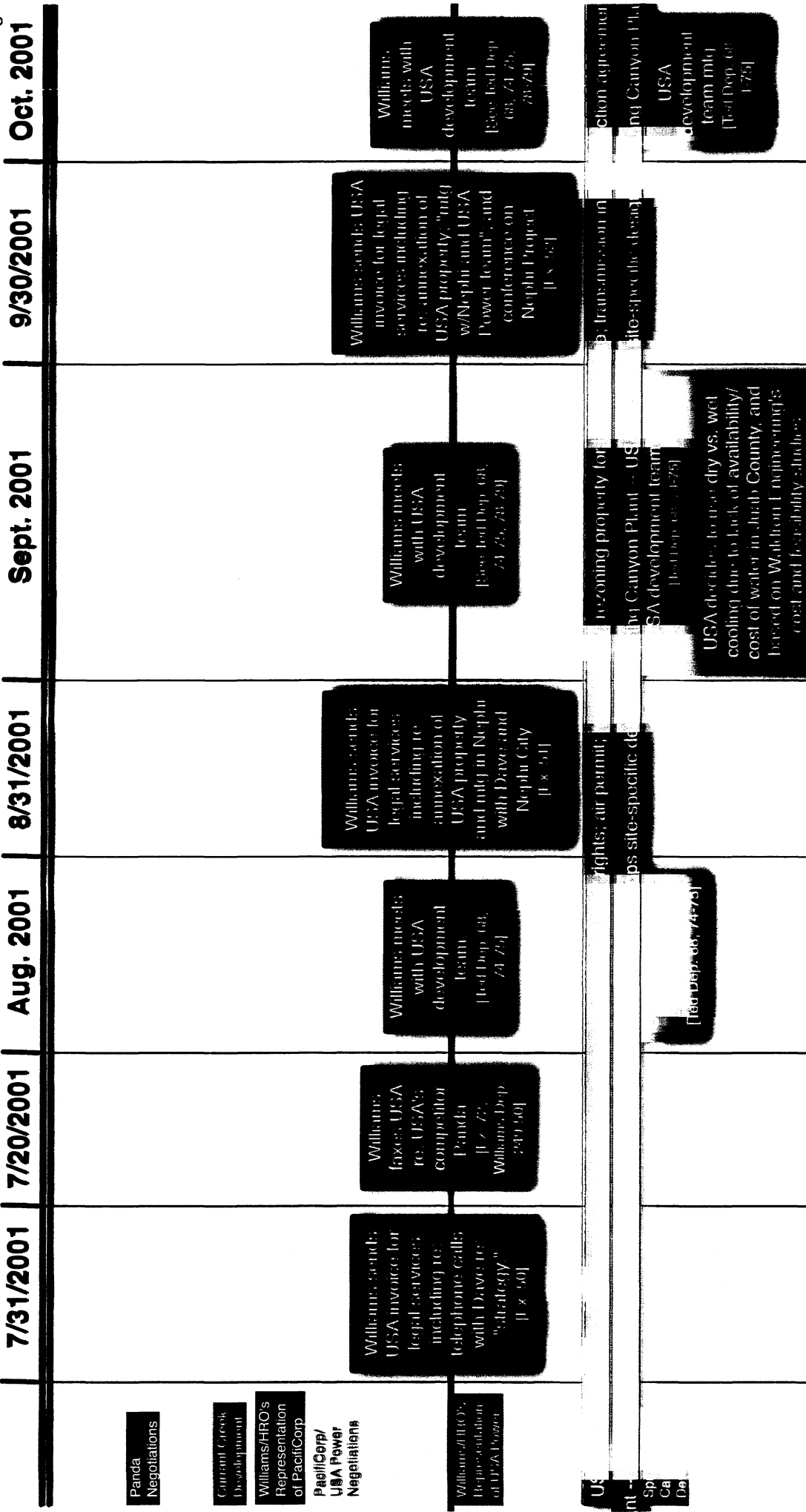
Contract
Development

Williams/HRO's
Representation
of PacifiCorp

PacifiCorp/
USA Power
Negotiations

Williams/HRO's
Representation
of USA Power

Panda
Approaches
PaC for
Equity
Participation



Panda Negotiations

Current Creek Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

USA
m -
Sp
Ca
De

10/03/2001 | 10/31/2001 | Nov. 2001 | 11/31/2001 | Dec. 2001 | 12/31/2001 | Jan. 2002 | 1/04/2002

Panda Negotiations

Granddaddy Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/USA Power Negotiations

Williams/HRO's Representation of USA Power

USA acquires

USA

USA

Williams agrees to handle USA's "Public Communication/Response" to obtain public support for Spring Canyon [Ex. 74]

Williams sends USA invoice for legal services, including re transmission interconnection, real estate, and negotiations, with Don Jones. [Ex. 53]

Williams meets with USA development team [See Fed Dep. 68, 74-75, 78-79]

Williams sends USA invoice for legal services, including re zoning, annexation, option agreements, and conference with Don Jones. [Ex. 54]

Williams meets with USA development team [See Fed Dep. 68, 74-75, 78-79]

Williams sends USA invoice for legal services, including re annexation, drafting water options, and negotiations with Michael Keyte for property purchase [Ex. 55]

Williams meets with USA development team [See Fed Dep. 68, 74-75, 78-79]

Williams obtains real estate option for USA [Ex. 41 at P175; Fed Dep. 81-82]

USA acquires

PacifiCorp

USA development team mtg

USA development team mtg [Fed Dep. 68, 74-75]

USA

USA

USA development team mtg

USA development team mtg [Fed Dep. 68, 74-75]

USA

USA

USA development team mtg

USA development team mtg [Fed Dep. 68, 74-75]

USA signs

USA signs

USA signs late Option Purchase Contract with Keyte for 40 acres, .75 miles north of Mona Substation. [Ex. 41 at P175; Fed Dep. 81-82]

	1/31/2002	Feb. 2002	2/07/2002	2/11/2002	2/28/2002	Mar. 2002	3/31/2002	Apr. 2002
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Panda Negotiations

Contract Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

Williams sends USA invoice for legal services, including re-purchase of Keyte property, telephone call "on County Commission", and negotiations with Don Jones. [Ex. 56]

Williams meets with USA development team [See Fed Dep. 68, 74-75, 78-79]

Williams creates and registers Spring Canyon LLC to hold certain development assets. [Ex. 11 at P325]

Williams sends USA invoice for legal services, including re-formation of Spring Canyon Energy LLC and negotiations with Don Jones. [Ex. 57]

Williams meets with USA development team [See Fed Dep. 68, 74-75, 78-79]

Williams sends USA invoice for legal services, including re-water appraisals and negotiations with Don Jones. [Ex. 58]

Williams meets with USA development team [Fed Dep. 68, 74-75]

Develop Spring Canyon Plant -- USA Power
 It is necessary to develop Spring Canyon Plant -- USA Power
 A development team is necessary to develop Spring Canyon Plant -- USA Power
 USA Power acquires Spring Canyon Plant -- USA Power
 It is necessary to develop Spring Canyon Plant -- USA Power

USA development team mtg [Fed Dep. 68, 74-75]

USA development team mtg [Fed Dep. 68, 74-75]

USA development team signs with Real Estate Option and Purchase Contract with Keyte [Ex. 11 at P33]

USA development team calls per new plat site Mon. [Ex. 10 at P1]

USA development team mtg [Fed Dep. 68, 74-75]

USA meets with Nephi Officials and begins application process to rezone property for use as industrial site [Fed Dep. 130-131]

	4/01/2002	4/30/2002	May 2002	5/09/2002	5/31/2002
<p>Panel Negotiations</p> <p>Current Case Development</p> <p>Williams/HRO's Representation of PacifiCorp</p> <p>PacifiCorp/USA Power Negotiations</p>		<p>Williams sends USA invoice for legal services, including re: "Cont. w/ USA", formation of Spring Canyon LLC, zoning, and purchase of Keyle water. [Ex. 10]</p>	<p>Williams meet. with USA development team and air and environmental consultants. Williams recommends USA hire HRO re: air permit issues. [Ted Dep. 68, 74-75, 141-42]</p> <p>Williams introduces USA to Blaine Rawson at HRO to represent USA on air permit issues. [Ted Dep. 141-42]</p>		<p>Williams sends USA invoice for legal services, including re: zoning, draft water purchase options, and air permit. [Ex. 60]</p>
<p>Williams/HRO's Representation of USA Power</p>					
<p>Develop Spring Canyon Plant - USA</p> <p>Spring Canyon Development</p>	<p>USA acquires assets necessary to develop Spring Canyon plant -- USA develops site-specific design for Spring Canyon Plant</p> <p>Flaw Analysis: USA's 550 MW generating plant at Mona 345 kV substation. [Ex. 10 at 134]</p>	<p>USA acquires assets necessary to develop Spring Canyon plant -- USA develops site-specific design for Spring Canyon Plant</p>	<p>USA acquires assets necessary to develop Spring Canyon plant -- USA develops site-specific design for Spring Canyon Plant</p> <p>USA development team mtg with air and environmental consultants. [Ted Dep. 68, 74-75, 141-42]</p>	<p>USA acquires assets necessary to develop Spring Canyon plant -- USA develops site-specific design for Spring Canyon Plant</p> <p>USA retains HRO to assist Williams based on Williams' recommendation. [Ex. 145A; Ted Dep. 141-42]</p>	<p>USA acquires assets necessary to develop Spring Canyon plant -- USA develops site-specific design for Spring Canyon Plant</p>

June 2002

6/20/2002

6/30/2002

End of June 2002

Panda Negotiations

Garraut Creek Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

Williams meets with USA development team [See Fed Dep. GB, 7A-75, 7B-79]

Williams sends USA invoice for legal services including repair permit, prepare escrow agreement, and Blake Garrett sale of water. [Ex. 144A]

Williams asks USA to move with her to HRO and USA agrees. [Ex. 73, Fed Dep. 4E-45]

USA acquires assets necessary to develop Spring Canyon Plant - USA develops specific design for Spring Canyon

Can

Navigator issues Market Assessment for Spring Canyon, concluding that, "based upon existing resources in the Utah market area and the expected load growth for the region, [PAC] should be looking for additional capacity in the Utah market and Spring Canyon would provide fuel diversity and operational flexibility for the Utah market area." [Ex. 10 at P19-20-21]

USA Environmental Consultants issue expert report outlining the permit/approval requirements to construct and operate Spring Canyon Project [Ex. 10 at P167]

July 2002

7/01/2002

7/05/2002

7/08/2002

Panda Negotiations

Carroll Creek Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/USA Power Negotiations

Williams/HRO's Representation of USA Power

Carroll Creek Development

Williams meets with USA development team. [See Fed Dep. 68, 71-75, 78-79]

USA development team mtg. [See Fed Dep. 68, 71-75]

USA acquires assets necessary to develop Spring Canyon - USA acquires design for Spring Canyon Plant - USA develops site specific design for Spring Canyon Plant - USA obtains zoning variance approved for industrial use of property [See Fed Dep. 68, 71-75]

Waldron Engineering issues USA its expert report on Spring Canyon performance analysis and alternative equipment configuration. [See Fed Dep. 68, 71-75]

Dr. Ted Guth issues USA his expert report on USA's application for an air permit concluding that the UDAQ will issue an air permit for a 250 MW plant and USA can readily obtain the emission credits necessary to obtain an air permit for a 500 MW plant when the need arises. [See Fed Dep. 68, 71-75]

Waldron Engineering issues USA its expert report on the water requirements for the proposed Spring Canyon Plant. [See Fed Dep. 68, 71-75]

HRO (Blaine Harrison) sends USA invoice for legal services including re: air permit. [Ex. 145A]

Williams moves to HRO and takes USA Power and its files with her. [Ex. 23, Fed Dep. 142-143]

7/15/2002

7/31/2002

Aug. 2002

8/01/2002

8/01 - 8/22/2002

Panda calls PaC re: Status of IRP. They discuss "range of possibilities" including "PaC becoming an equity participant and PaC buying power from Panda." PaC expresses possible interest in buying Mona site, but makes no further contact until December 2002, after PaC had received USA's confidential information re: Mona. Selling assets to PaC not Panda's first choice because Panda wants to build plant.
[Barlow Dep. 78, 144, 152-54; Ex. 300]

USA Calls PaC to set-up mtg. for 8/22/02 in Portland
[Ted Dep. 153-60; Ex. 7]

USA and Williams develop Vol. I of confidential information in preparation for PaC negotiations.
[Ex. 10, 86, 87, 88]

Williams helps USA prepare "Marketing Book" for negotiations w/ PaC. Williams understands book will be used to facilitate sale of Spring Canyon.
[Ex. 10, 86, 87, 89, Williams Dep. 268]

PaC (Thurgood) calls USA re: Spring Canyon.
[Ted Dep. 153-64]

Williams meets with USA development team
[See Ted Dep. 63, 74-75, 78-79]

USA calls Williams re: PaC contact.
[For. Dep. 183, 197-98, 215-19, For. Aff. Ex. 3 (801) 521-5800]

USA acquires assets necessary to develop Spring Canyon

USA development team mtg.
[See Ted Dep. 63, 74-75]

Panda Negotiations

Williams/HRO's Representation of PacifiCorp

Williams/HRO's Representation of PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

Assets necessary to develop Spring Canyon Plant

Spring Canyon Development

PaC transmission reconnection with Mona substation
[See Over Call for (970) 871-6223]

	8/05/2002	8/08, 8/12, 8/14/2002	8/14/2002	8/15/2002	8/16/2002	8/20-8/21/2002	8/22 or 8/23/2002
Panda Negotiations							
Carroll Creek Development							
Williams/HRO's Representation of PacifiCorp							USA meets with PaC in Portland (approx. 2 hrs). USA refuses to give confidential information to PaC without non-disclosure agreement. Parties agree to meet again on 9/11/02. [Ted Dep. 155-62; Lois Dep. 219-21, 236; Ex. 7]
PacifiCorp/ USA Power Negotiations	USA calls Williams. [Lois Aff. Ex. 3 - (801) 521-5300]	USA calls Williams. [Lois Aff. Ex. 3 - (801) 521-5300]			USA calls PaC. [Lois Aff. Ex. 3 - (503)-813-5380]	USA calls Williams. [Lois Aff. Ex. 3 - (801) 521-5300]	USA meets with and calls Williams re upcoming PaC negotiations. [Lois Dep. 180-86; Lois Aff. Ex. 3 - (801) 521-5300]
Williams/HRO's Representation of USA Power	HRO sends USA invoice for legal services. [Ex. 146A]				Williams sends USA invoice for legal services, including re USA's marketing book and contract. [Ex. 186]		
Spring Canyon Development	USA signs Water Right Option & Purchase Agreement with Carroll (\$4,000 per acre). [Ex. 11 at p. 1]		USA signs Water Right Option & Purchase Agreement with Keyte (\$4,000 per acre). [Ex. 11 at p. 2]	UDAQ issues USA NOI for 250 MW plant on its Mona site. [Ex. 7 at p. 279; Ted Dep. 144-49]			
es assets, necessary to develop Spring Canyon - USA acquires assets necessary to develop Spring Canyon - USA acquires assets necessary to develop Spring Canyon - USA acquires							

9/09/2002

9/10/2002

9/11/2002

9/12/2002

Panda Negotiations

Grand Creek Development

Williams/HRO's Representation of PacifiCorp

PacifiCorp/ USA Power Negotiations

Williams/HRO's Representation of USA Power

USA acquires assets necessary to develop Spring Canyon

USA meets in SLC with PaC, [Ted Dep. 166-96; Lois Dep. 221-90]

- PaC signs Confidentiality Agreement. [Ex. 9]
- USA gives PaC 2 volumes of confidential information. [Exs. 10, 11; see Ex. 20]
- PaC admits it has never considered Mona as a site. [Ted Dep. 188-90]
- PaC admits USA has advantage of 2-3 years and several million dollars over PaC. [Ted Dep. 190]
- PaC says it is skeptical of dry-cooling, especially in Mona. [Ted Dep. 187-90]

USA memo to PaC re: 9/11/02 mtg in SLC. [Ex. 8]

USA meets with and calls Williams re: negotiations with PaC [Ted Dep. 169-69; Lois Dep. 221-90]

HRO sends USA invoice for legal services. [Ex. 117A]

USA meets with and calls Williams before and after its mtg with PaC

[Ted Dep. 199-202; Lois Dep. 161-66; 169-70; Lois Dep. 221-90]

USA meets with and calls Williams re PaC negotiations [Lois Dep. 191, 194; Lois Dep. 221-90]

Williams attend USA's negotiations with UAMP. [Ted Dep. 214-15; Lois Dep. 172-73] Williams notes: "If interested sign Confidentiality Agmt" [Ex. 88]

USA calls Williams. [Lois Dep. 191-94; Lois Dep. 221-90]

USA obtains Letter of Intent from Quectar to provide natural gas transportation lateral line to Spring Canyon [Ex. 11 at P313]

USA files application with FERC for determination Spring Canyon is FWC - Exempt Wholesale Generator status. [Lois Dep. 221-90]

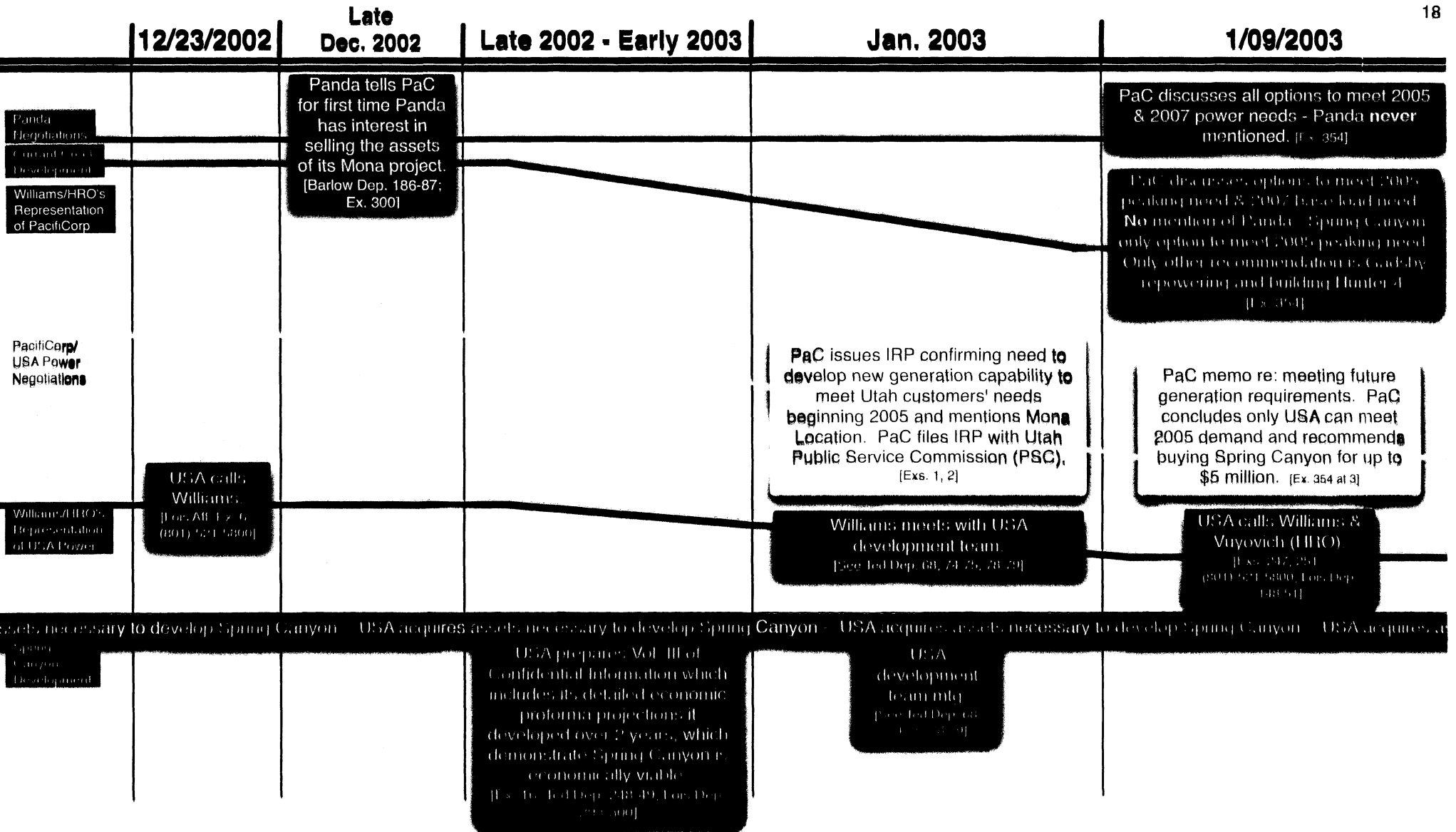
USA signs PaC Interconnect Agreement at Mona substation. [Ex. 11 at P308-310; Ted Dep. 117-119]

USA acquires assets necessary to develop Spring Canyon

	9/16/2002	9/19/2002	9/23, 9/25, & 9/27/2002	Late Sept./ Early Oct. 2002	Oct. 2002	10/01 - 10/8/2002	10/10/2002	10/11/2002
Panda Negotiations Contract Development								
Williams/HRO's Representation of PacifiCorp								USA ltr to PaC with offer as requested by PaC. [Ex. 115; Ted Dep. 204-08]
PacifiCorp/ USA Power Negotiations				PaC calls USA and requests firm offer for purchase of power from Spring Canyon. [Ted Dep. 202-10]				USA calls PaC. PaC expresses skepticism of dry-cooling. [Lois Aff. Ex. 5 - (801)-220-4648; Ted Dep. 215-17]
Williams/HRO's Representation of USA Power	USA calls Williams. [Lois Aff. Ex. 4 (801)-521-5300]	Williams sends USA invoice for legal services including re-marketing rates, air rates, and zoning. [p. 34]	USA calls Williams. [Lois Aff. Ex. 4 (801)-521-5300]		Williams meets with USA development team. [See Ted Dep. 68, 74-75, 78-79]	USA calls Williams. [Lois Aff. Ex. 4 (801)-521-5300]	Williams sends USA invoice for legal services including re-marketing, Keyfile change application, and negotiations w/ UAMPS. [p. 39]	
Assets necessary to develop Spring Canyon -- USA acquires assets necessary to develop Spring Canyon -- USA acquires assets necessary to develop Spring Canyon -- USA acquires					USA development team mtg. [See Ted Dep. 68, 74-75, 78-79]		UDAQ issues USA draft plan review with Recommended Approval Order for 230 MW plant at its Monticello. [p. 11 at 12:00-1:54 Dep. 111-9]	

	10/15/2002	10/23/2002	10/24/2002	10/29/2002	Nov. 2002	11/06/2002	11/11/2002	11/12/2002
<p>Panda Negotiations</p> <p>Contract Terms Development</p> <p>Williams/HRO's Representation of PacifiCorp</p>	<p>USA meets in Portland with PaC. [Ted Dep. 200-11]</p> <p>PaC requests USA send option agreement for asset purchase. [Ted Dep. 204-11]</p>	<p>USA ltr to PaC with draft option agreement. [Ex. 13; Ted Dep. 211-13]</p> <p>USA calls PaC. PaC expresses skepticism of dry-cooling. [Lois Aff. Ex. 5 - (801)-220-4648; Ted Dep. 215-17]</p>		<p>USA obtains ltr from Waldron Engineering verifying its decision to use dry-cooling in response to PaC's dry-cooling concerns. (Ltr. sent to PaC 11/26/02) [See Ex. 15; Ted Dep. 215-16, 229-40]</p> <p>USA calls PaC. [Lois Aff. Ex. 5 - (801)-220-4807]</p>	<p>USA calls PaC re: asset purchase agreement. [Ted Dep. 215]</p> <p>PaC again tells USA that PaC is skeptical of dry-cooling because of loss of efficiency. [Ex. 14; Ted Dep. 215-16, 229-30, 241-42]</p>		<p>USA calls PaC. [Lois Aff. Ex. 6 - (801)-220-4807]</p>	
<p>PacifiCorp/ USA Power Negotiations</p>								
<p>Williams/HRO's Representation of USA Power</p>			<p>USA calls Williams. [Lois Aff. Ex. 5 - (801)-220-4800]</p>		<p>Williams meets with USA development team. [See Ted Dep. 68, 74-75, 76-79]</p>	<p>Williams sends USA invoice for legal services including re-conferences with Ted & Lois. [S. 29]</p>		
<p>assets necessary to develop Spring Canyon</p>		<p>USA acquires assets necessary to develop Spring Canyon</p>						
					<p>USA development team mtg. [See Ted Dep. 68, 74-75, 76-79]</p>			<p>USA calls PaC transmission re interconnection to Mona substation. [Lois Aff. Ex. 6 - (801)-220-4807]</p>

	11/20/2002	11/26/2002	11/27/2002	Dec. 2002	12/11/2002	12/12/2002	12/13/2002
<p>Panda Negotiations</p> <p>Carr and Creek Development</p> <p>Williams/HRO's Representation of PacifiCorp</p>		<p>USA ltr to PaC:</p> <ul style="list-style-type: none"> Enclosing revised option agreement. [Ex. 14; Ted Dep. 226-42] Enclosing Waldron Engineering's ltr demonstrating feasibility of dry-cooling to address PaC's concerns. [Exs. 14, 15; Ted Dep. 226-42] 					
<p>PacifiCorp/ USA Power Negotiations</p>	<p>USA calls PaC. [Lois Aff. Ex. 6 - (503)-813-5351 & (801)-220-4807]</p>	<p>USA calls PaC. [Lois Aff. Ex. 6 - (801)-220-4848]</p>				<p>USA calls PaC. [Ex. 246 - (801)-220-4807]</p>	
<p>Williams/HRO's Representation of USA Power</p>	<p>USA calls Williams. [For All Ex. 6 - (801)-521-5300]</p>		<p>USA calls Williams. [For All Ex. 6 - (801)-521-5300]</p>	<p>Williams meets with USA development team. [See Ted Dep. 68, 74-75, 78-79]</p>	<p>Williams sends USA invoice for legal services. [Ex. 91]</p>	<p>USA calls Williams. [For All Ex. 6 - (801)-521-5300]</p>	
<p>USA acquires assets necessary to develop Spring Canyon</p>			<p>USA obtains UDAQ Approval Order for Spring Canyon Air Permit. [Ex. 16 at P1100, Ex. 168; Ted Dep. 226-42]</p>	<p>USA development team mtg. [See Ted Dep. 68, 74-75, 78-79]</p>			<p>Utah Division of Water Rights approves Change Application for USA water rights purchased from Garrett. [Ex. 16 at P1112-15, Ted Dep. 159]</p>



	1/13/2003	1/14/2003	1/16/2003	1/22/2003	1/27/2003
Panda Negotiations		<p>PaC's first negotiations with Panda to purchase Panda's site in Mona. [Ex. 304; Barlow Dep. 154, 156-57, 185-86; Thurgood Dep. 137-40]</p>	<p>Panda, at PaC's request, provides PaC with "confidential information regarding the project details" and "a summary of the work completed." Panda claims to have spent \$964,818 on its site development; its only assets are 2 land options and studies and reports primarily relating to air monitoring (met data) - nothing regarding air vs. water cooling. [Ex. 304]</p>		
Williams/HRO's Representation of PacifiCorp	<p>USA calls PaC, [Ex. 251 - (801)-220-4807]</p> <p>Williams sends USA invoices for legal services including re: researching Don Jones' water rights. [Ex. 92]</p>	<p>USA calls PaC (44 min), [Ex. 247 - (801)-220-4807]</p>			<p>PaC contacts Williams/HRO re: acquiring water in Elberta - a location near the Mona substation. [PAC025267; see Williams Dep. 208]</p> <p>Williams never advises USA or seeks its consent. [Ted Dep. 410-11; Williams Dep. 233]</p>
PacifiCorp/USA Power Negotiations				<p>Utah Division of Water Rights approves Change Application for USA water rights purchased from Keyde. [Ex. 317]</p>	
Williams/HRO's Representation of USA Power					
PacifiCorp/USA Power Negotiations					
Williams/HRO's Representation of USA Power					
PacifiCorp/USA Power Negotiations					
Williams/HRO's Representation of USA Power					
PacifiCorp/USA Power Negotiations					
Williams/HRO's Representation of USA Power					
PacifiCorp/USA Power Negotiations					

	1/31/2003	2/02/2003	2/05/2003	2/10/2003	2/11/2003	2/18/2003
<p>Panda Negotiations</p>	<p>Pac sends letter of intent to Panda. [Ex. 301]</p> <p>The only assets PaC purchases are:</p> <p>(1) Real Estate Purchase Options, and</p> <p>(2) Reports and Studies, none of which relate to wet vs. dry cooling or plant design and none of which PaC considers material except relating to met data.</p> <p>[Exs. 301-02; Barlow Dep. 155-58; Thurgood Dep. 161-04]</p>	<p>Williams, a former PaC potential water seller, w/ PaC, provides info. Williams only specifically mentions seller, who had contacted for USA purchase of PaC.</p> <p>Williams speaks, and provides probable price for water right. The exact price USA confidentially paid for the water right, PaC is to address later.</p>	<p>PaC authorizes purchase of Panda project solely for future options (2006 or later) and to assist in negotiations with USA. [Ex. 355; Ted Dep. 339-40]</p> <p>PaC authorizes acquisition of Spring Canyon as the necessary basis for developing its own power plant in Kenya Central Creek because Spring Canyon project site capable of meeting 2003's demand. [Ex. 355 at 34]</p>	<p>USA calls PaC. [Ex. 248 - (801)-220-4807]</p>	<p>Williams sends USA invoice for legal services. [Ex. 94]</p>	<p>USA meets with PaC in SLC. [Ted Dep. 249-57, 261-78; Lois Dep. 238-44, 288]</p> <ul style="list-style-type: none"> USA delivers Vol. 3 of confidential information to PaC. [Ex. 16; Tomisc Aff. 3A, Ex. 8] PaC verbally offers \$5 million for Spring Canyon assets. [See Tomisc Aff. 3A, Ex. 8; Ted Dep. 249-53]
<p>Williams/HRO's Representation of PacifiCorp</p>			<p>PaC authorizes purchase of Spring Canyon for \$3.5 million. [Ex. 355 at 3, 5, 8]</p>			
<p>PacifiCorp/ USA Power Negotiations</p>						
<p>Williams/HRO's Representation of PaC/USA</p>						
<p>Spring Canyon Development</p>						

	2/20/2003	2/24/2003	2/27/2003	3/02/2003	3/04/2003	3/07/2003
Panda Negotiations		PaC closes Panda Purchase. [Thurgood Dep. 142; Ex. 202]	PaC compares USA's work with PaC's work and concludes, "we seem to be behind." [Ex. 391]			
Currant Creek Development	PaC concludes it should "test dry-cooling experience" when finding an engineer for Currant Creek project. PaC would not internally "research" or formally "decide" to test dry-cooling until 03/10/03. [PaC Dep. 171, 174]		PaC's internal notes reference Williams/HRO. [PAC025304 to 06]	Williams officially begins representing PaC relative to its competing Currant Creek project in Mona. [Ex. 66].	Williams meets w/ PaC re: RFP, etc. [PAC025309]	
Williams/HRO's Representation of PacifiCorp			PaC sends \$2 million written offer to USA for Spring Canyon. [Ex. 17; Lois Dep. 265-67; Ted Dep. 278-83]	Williams never advises USA or seeks its consent. [Ex. 66; Williams Dep. 233]		
PacifiCorp/ USA Power Negotiations		USA calls PaC. [Ex. 248 - (503)-813-5351]		Williams knows USA negotiating w/ PaC. [See e.g., Ted Dep. 157-58, 162-65]		USA sends \$6.5 million counter-offer to PaC. [Lois Dep. 266-67; Ex. 18; Ted Dep. 282-86]
Williams/HRO's Representation of USA Power						
Spring Canyon Development			USA calls PaC transmission. [Ex. 248 - (503)-813-5735]			

	3/10/2003	3/11/2003	3/12/2003	03/14/2003	3/17/2003	3/17 - 3/18/2003
Grant Creek Development						
Williams/HRO's Representation of PacifiCorp						
PacifiCorp/USA Power Negotiations	<p>USA calls PaC re: counter-offer and compromise. [See Ted Dep. 285-86]</p>	<p>USA emails PaC confirming PaC's \$3 million offer and counters with \$5 million offer. [Lois Dep. 288-72; Ex. 185]</p>	<p>Williams sends USA invoice for legal services. Williams does not terminate representation or return files. USA continues to believe Williams is its lawyer. [Ted Dep. 286-90; Lois Dep. 142-43, 245-49, Exs. 19, 249 - (801)-220-4807]</p>	<p>USA and PaC agree PaC will purchase Spring Canyon for \$3 million and enter into Joint Development Agreement with USA. [Ted Dep. 286-90; Lois Dep. 142-43, 245-49, Exs. 19, 249 - (801)-220-4807]</p>	<p>USA principals travel to Portland to close deal w/ PaC. [Lois Dep. 248-48, 280]</p>	<p>PaC calls USA after USA principals arrive in Portland and declares deal is off for PaC's own business reasons and PaC will issue RFP. [Ted Dep. 286-96; Lois Dep. 245-47, 280, 392-93] Ted calls Dave from Portland to advise of PaC's decision (64 min). [Ex. 252 - (214)-520-8177]</p>
Williams/HRO's Representation of UFA Project						
Grant Creek Development						

	3/19/2003	3/20/2003	3/21/2003	3/26/2003	4/01/2003
Contract/Case No. 03-04007					
Williams/HRO's Representation of PacifiCorp	USA calls PaC. [Ex. 252 - (801)-220-4807]	PaC emails USA confirming both \$3 million asset purchase and Joint Development Agreement are cancelled. [Ex. 19; Ted Dep. 296-98]	Williams participates in negotiations between PaC and Kennecott even though she had previously attended and represented USA during its negotiations w/Kennecott. [Compare Ex. 66; Williams Dep. 192-93 with Ex. 73; Williams Dep. 250]	USA requests PaC return USA's confidential info. [Ex. 254]	Williams approves/ drafts PaC memo seeking authorization to spend \$16.2 million to acquire water rights for Currant Creek claiming no other RFP bidder will have water rights, even though she knows USA does. [See e.g., Ex. 31, 68 at p. 7; Williams Dep. 216]
PacifiCorp/ USA Power Negotiations	PaC returns USA's call assuring USA the RFP is "yours to lose." [Ted Dep. 292-96; Lois Dep. 280-83]		Ted calls Williams, and informs her that PaC has called off the deal and PaC is going to re-tire RFP. USA specifically asks Williams for advice about project and how to move forward. Williams does not terminate representation or return files. USA continues to believe Williams is its lawyer. [Ted Dep. 306-10; Lois Dep. 413-14]	PaC only returns volume 1, [Ex. 10] claiming other 2 volumes destroyed. [Ted Dep. 292-96; Lois Dep. 280-83]	
Williams/HRO's Representation of USA Power					
Young Banyon Development			USA decides to pursue RFP because it is the only entity that has already developed a site at Mona to meet PaC's 2005 demand. [Kelleck Rpt. at 18; Ted Dep. 180-82, 215-16 see also Ex. 117 at P1304; Olive Rpt. 5-7 (Ex. 493); Malke Rpt. at 14-15, 18, 24 (Ex. 410)]	USA attends PaC's RFP pre-bid conference in Portland. [Ex. 116]	
				<ul style="list-style-type: none"> PaC claims all bids to be submitted under strict confidentiality. PaC affiliates could not bid. PaC will submit "virtual bid" to compare against bids. [Ted Dep. 300-10] 	

	6/02/2003	6/06/2003	6/09/2003	6/11/2003	6/13/2003	6/20/2003	7/14/2003	7/18/2003
<p>Currant Creek Development</p>			<p>Stone & Webster submit project cost analysis for Currant Creek. [PaC Memo on Support of Summary Judgment of 6/24]</p>	<p>PaC Notes: "TEA Power on One-Lin: How Do They Play Call?" [p. 97-98]</p>		<p>Stone & Webster performs PaC's first site-specific performance evaluations for dry cooling and the proposed Currant Creek plant." [p. 98-100, 101-102]</p>		
<p>Williams/HRO's Representation of PacifiCorp</p>	<p>Williams negotiates w/Don Jones re: water for Currant Creek, even though she had previously negotiated w/ Jones on USA's behalf. [Compare Exs. 34, 39, 41, 105 with Exs. 53-54, 56-58, 75]</p>				<p>Williams sends PaC invoice for legal services including mtg re: "Mona Plant" and Kennecott water. [Ex. 33]</p>		<p>Williams sends PaC invoice for legal services including re: Don Jones; Noreen Harper; and "Currant Creek Power Plant." [Ex. 34]</p>	
<p>Williams/HRO's Representation of USA Power</p>				<p>Williams sends USA invoice for legal services. [Ex. 92]</p>			<p>Williams sends USA invoice for legal services. [Ex. 93]</p>	
<p>Spring Canyon Development</p>		<p>PaC issues RFP requiring bids to be submitted by 7/22/03; no indication PaC going to bid on RFP; PaC represents all bids will be kept confidential. [Ex. 8; Ted Dep. 981]</p>						<p>USA Submits 4 confidential bids based on Spring Canyon in response to RFP. EIF/QUIXX active in preparing bids. [Ex. 117; Ted Dep. 988-99]</p>

	7/22/2003	7/25/2003	Aug. 2003	8/04/2003	8/07/2003	8/22 - 8/23/2003	8/26/2003
Grant Creek Development	PaC submits its HBA. All RFP bids are locked down (Ted Dep. 334-39-1)		PaC submits application for air permit from Fonda met data (Ted Dep. 334-39-1)				
Williams/HRO's Representation of PacifiCorp	PaC returns USA's confidential Vol. 2 (Ted Dep. 334-39-1) PaC never returns USA's confidential Vol. 3 (Ted Dep. 334-39-1)		PaC requires detailed design for Grant Creek, even though RFP still in process. (Ted Dep. 334-39-1)			Williams sends PaC invoice for legal services including re: "Mona Power Project" and "Gas turbine project near Mona, Utah." [Ex. 35]	
Williams/HRO's Representation of USA Power		USA sends Williams copy of USA's extension of option on Keyte's, and Garrell's water rights, pursuant to contract terms. (Ted Dep. 334-39-1)		USA sends Williams copy of USA's extension on Keyte's real property and Garrell's water rights, pursuant to contract terms. (Ted Dep. 334-39-1)			
Spring Canyon Development	• Look Down Date for RFP		USA learns for first time PaC considering its own NBA in determining RFP winner. (Ted Dep. 337-43)			PaC notifies USA that USA's two most expensive bids are on RFP short list. (Ted Dep. 334-38)	USA expresses concern to PaC "over Rand being in on analysis since (PaC) project is competing." (PAC025643)

	8/26/2003	9/02/2003	9/08/2003	9/10/2003	9/17/2003	9/22/2003	9/24/2003	9/25/2003
Cumant Creek Development		PaC signs agreement to acquire water rights. [Ex. 109]				PaC awards the RFP to itself for Cumant Creek. PaC emphasizes, stating RFP will keep PaC from submitting PaC's construction costs. [Ex. 104]		
Williams/HRO's Representation of PacifiCorp			Williams sends PaC invoice for legal services including re: Mona Project; conference; and change application. [Ex. 36]	Williams talks w/ Dave for 30 min re: obtaining air credits for Spring Canyon's amended air permit. [Ex. 69]		PaC does not disclose its decision to USA or other bidders. [Ex. 105]	Wangsgard emails Riley re: PaC's water. "Jody single handedly" obtained the necessary approval. Doing so "would not have been possible without her." [Ex. 107]	Bill White emails Jody/PaC. Jody "saved the day," because she obtained the approval necessary for PaC's water. [Ex. 108]
Williams/HRO's Representation of USA Power				Williams understood she was acting as USA's attorney. [Williams Dep. 242-24]	HRO attorney researches air credits for Spring Canyon. [Ex. 64]			
USA	USA executes Participation Agreement w/ QUIXX and EIF. [Ex. 481]			USA seeks Williams/HRO's assistance in acquiring air credits for Spring Canyon. [Ex. 121]				PaC requires USA to sign waiver of claims before PaC will negotiate w/USA on 2 short-listed bids; PaC does not disclose it has already awarded itself the RFP. [Ex. 164]

11/06/2003	11/07/2003	Nov. 2003	12/04/2003	12/05/2003	12/08/2003	12/18/2003
<p>Current Creek The development</p>	<p>USA emails Williams re conflict of interest in representing PaC on Current Creek. asks her to call back. Williams never responds. (Ted Dep. 367-62)</p>	<p>Humpoed files the January in CC&N proceedings (see Ted Dep. 367-64)</p> <p>Williams/HRO learn USA has filed objection to Current Creek's CC&N proceedings, but continues to represent PaC. (Vuyovich Dep. 63-64; see Ted Dep. 367-80)</p>	<p>PaC files injunction in CC&N proceedings (Ex. 39)</p>	<p>HRO sends PaC invoice for legal services including re Mona EPC contract. (Ex. 150A)</p>	<p>Williams sends invoice to PaC for legal services including re: Mona protests; water rights; and mtgs with "Mona Town." (Ex. 39)</p>	<p>When confronted by USA, Humpoed admits "we learned some things from you guys." When further confronted with USA's accusation that Current Creek was a "clone" of Spring Canyon, Humpoed admits "we learned a lot from you guys." Humpoed also admits he would be fired if Current Creek was not built (Ted Dep. 367-80)</p>
<p>Williams/HRO's Representation of PacificCorp</p>	<p>PaC notes "both Williams" "Spring Canyon really MAD work for competitor" (Ted Dep. 367-62)</p>					
<p>Spring Canyon The development</p>		<p>USA objects to PaC's application for CC&N. (Ted Dep. 367-86)</p>				<p>PaC admits to USA at SJ City that "we learned a lot from you guys," when confronted with USA's accusation that Current Creek was a "clone" of Spring Canyon. (Ted Dep. 367-80)</p>

	Early 2004	1/15/2004	1/21/2004	2/03/2004	2/13/2004	3/10/2004	3/14/2004
Current Creek Development	<p>Lin Andrews (PaC Resource Development team) makes first visit to Mona, Utah [Exhib. Dep. 24]</p>			<p>PaC's Current Creek water change application approved [Ex. 61]</p>			
Williams/HRO's Representation of PacifiCorp		<p>Williams sends invoice to PaC for legal services including re: Mona hearings water rights; and calls to Deseret News reporter. [Ex. 40]</p>	<p>Williams prepares PaC's responses to USA's objections filed in PSC hearings re: granting PaC a CC&N. [Ex. 41, 111; Jody Dep. 290-91]</p>		<p>Williams sends invoice to PaC for legal services including re: offers to settle and water rights. [Ex. 41]</p> <p>Williams attends mtg re: Current Creek. [Ex. 41]</p> <p>PaC admits <u>no</u> plans to do 2nd plant at Mona. [Ex. 61]</p>	<p>Williams sends PaC invoice for legal services. [Ex. 42]</p>	<p>Williams sends PaC invoice for legal services. [Ex. 45]</p>
Williams/HRO's Representation of UTA Power							
Current Creek Development							

	4/26/2004	5/05/2004	1/18/2005	1/18/2005	10/21/2005
Current Creek Development	<p>PAC closes on agreement to use water rights at Current Creek. [Ex. 44]</p>	<p>PAC awards PAC, CCEH for Current Creek. [Ex. 44]</p>			
Williams/HRO's Representation of PacifiCorp	<p>Williams sends PaC invoice for legal services. [Ex. 45]</p>				
Williams/HRO's Representation of USA Power			<p>USA requests Williams return all of its files. Williams does not do so until after USA files this action. [Ex. All 43, 44, 45]</p>	<p>USA files Complaint against Williams/HRO in Third District Court of Salt Lake County, seeking recovery for Williams/HRO's breach of their fiduciary duties of loyalty and confidentiality.</p>	<p>USA amends Complaint to add PAC as defendant, and seeks recovery for, <i>inter alia</i>, misappropriation of USA's trade secrets.</p>
Utah Energy Development					

	For Approval
X	For Information
X	For Discussion

Performance CEC Meeting

January 9, 2003

CEC014/03

Title: Meeting East Side IRP Thermal Generation Requirements

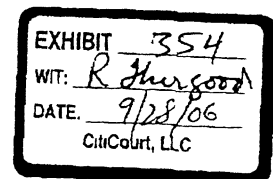
Decision(s) Requested: For Noting

Executive Summary:

- 1) New Thermal IRP Requirements CY2005 - CY2007
- 2) New Generation Alternatives
- 3) Recommended Action To Keep Alternatives Viable

Key Issue(s) for Discussion: For informational purposes

Sponsor: Barry Cunningham
Senior Vice President



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EXECUTIVE SUMMARY

PacifiCorp's IRP will be filed within the next few weeks. It calls for 1000 MW of new peaking capacity and 2000 MW of new base-load capacity in the eastern side of PacifiCorp over the next 10 years. While these requirements are extensive and capital intensive, perhaps the single most challenging aspect of the IRP, is the time frame in which the initial resources are needed. The IRP requires 200 MW of new peaking capacity in calendar year 2005 and 500 MW of new base-loaded generation in 2007. This paper addresses issues and challenges PacifiCorp faces in meeting these requirements and how they and related concerns might best be met.

MEETING IRP REQUIREMENTS

There are essentially three ways to meet the 2005 and 2007 requirements (over and above planned DSM and renewable purchases) – through contract purchases, acquisition of existing plants, or building new facilities. Each of these solutions is faced with difficulties. For the most part, contract purchases must come from outside the Utah bubble. The already full transmission paths into the bubble will limit if not prohibit purchases sufficient to meet the additional requirements. Planned transmission upgrades and those suggested by the IRP will help but not solve this problem within the required time frames. Acquisition of existing or essentially completed power plants in areas surrounding the Utah bubble would also be faced with the same transmission constraints. Finally two major issues confront us in building either new peaking or base-load capacity. First, we have not yet reached settlement or agreement on MSP to ensure cost recovery of invested capital. Second physical project schedules (design, engineering, permitting and construction) are extremely tight even if project approvals were given today.

How then can the IRP for the East Side, new thermal resource requirements be met? The remainder of this paper identifies the real alternatives PacifiCorp now has (independent of purchases), initial economics associated with each, and a recommended approach to pursuing the most promising solutions.

REAL RESOURCE ALTERNATIVES

Real alternatives available to us today consist of acquiring existing facilities or building new ones. Each will be briefly discussed.

Plant Acquisitions

Within the Utah "bubble" it may be possible to buy back the Deseret portion of the Hunter Plant or buy a part of Deseret's Bonanza plant. The likelihood of this happening is uncertain but should be explored.

Outside the bubble, there are several possibilities. Two have been identified and are located adjacent to each other just north of Las Vegas, Nevada. They are the 530 MW Mirant CCCT and the 1060 MW Duke CCCT. The Mirant plant scheduled for commercial operation in April of this year, is mostly subscribed but the Duke facility may be available for part or full purchase. Construction on the Duke facility was halted a few months ago – it was originally scheduled for commercial operation at the same time as the Mirant plant. Currently the ability to move energy from either facility is limited to about 200 MW along our Red Butte transmission line.

Transmission upgrades for an additional 250 MW could be made at a cost of about \$50 million (see the IRP for transmission upgrade discussions). Each of these facilities are designed for base-load operation and could only supply a limited amount of peaking capability.

New Plant Opportunities

For the past two months work has been underway to determine the best possible sites for new gas-fired generation facilities within the Utah bubble. This study will be finalized within the next few weeks as will the study to determine the best use of the Gadsby site. Investigations and discussions with third parties have also been ongoing to determine what opportunities are available for new projects within the bubble or adjacent to it. The results of this work are summarized by the following list of opportunities.

- Build additional gas-fired facilities at West Valley
- Repower the Gadsby site with 480 MW of CCCT
- Build new gas-fired facilities at the Oquirrh Substation on the West side of Salt Lake Valley
- Build new gas-fired facilities at the Terminal Substation in Salt Lake City
- Buy the Spring Canyon Energy, LLC position (owned by USA Power) and build new gas-fired facilities (240 MW of CCCT) at the Mona Substation 80 miles south of Salt Lake
- Buy the Toquop LLC position (owned by Vidler Water company) and build new gas-fired facilities (planned for 1000 MW of CCCT) 10 miles northwest of Mesquite, Nevada
- Build Hunter 4

All of the above options with the exception of Hunter 4 would be gas-fired and could be either peaking or base-loaded facilities. Recent technology investigations and review indicate that the Company can meet the IRP heavy load hour peaking requirements by using CCCT facilities specifically designed to cycle day by day. Using this approach would eliminate the need for additional simple cycle peakers and would result in better heat rates and lower cost production.

Table 1 shows an economic comparison of combined-cycle plants built at the best of the above sites along with the expected economics of purchasing an existing Nevada facility. Also included are the comparative economics of Hunter 4. All production costs are shown in levelized values (as was done in the IRP). Spring Canyon is shown as both a dry cooled condenser version and a water-cooled condenser version (explained further in the recommendation section of this paper). Excluding Hunter 4, repowering Gadsby provides the best economics with Spring Canyon (water cooled) coming in a close second. Acquisition of a Nevada plant (a Mirant or Duke facility) is third if the plant could be purchased at a 50 % discount. Table 1 also differentiates between the base unit costs and those with duct firing. Duct firing has a higher heat rate but can be used for pure peaking capacity with a quick response time.

Table 1
Comparative Economics of East-Side Thermal Options
 Levelized \$/MWh

	Units	Spring Canyon Dry Cooled	Spring Canyon Water Cooled	Gadsby Repower	Toquop	Hunter 4	Nevada - Full Capital	Nevada - 50% Reduced Capital
Earliest Installed Date	Date	Dec-05	Dec-05	Jun-07	Apr-06	Jan-08	Jun-05	Jun-05
Listed Plant Output - Base	MW	210	210	420	440	575	460	460
Listed Plant Output - Duct Firing	MW	30	30	60	60		70	70
Base Unit Avg. Heat Rate	BTU/kWh	7615	7235	7235	7235	9483	7446	7446
Total Anticipated Capital Cost	\$/1000's	\$ 202,724	\$ 213,364	\$ 348,327	\$ 357,017	\$ 909,575	\$ 366,632	\$ 209,636
Base Unit Costs								
Total Variable Cost/MWh	\$/MWh	\$ 32.90	\$ 30.03	\$ 31.16	\$ 39.02	\$ 7.11	\$ 40.04	\$ 39.83
Total Emission Cost/MWh	\$/MWh	\$ 3.47	\$ 3.23	\$ 3.23	\$ 3.36	\$ 8.13	\$ 3.46	\$ 3.46
Total Capital & Other Costs/MWh	\$/MWh	\$ 14.22	\$ 14.65	\$ 11.99	\$ 12.29	\$ 20.41	\$ 11.91	\$ 7.04
Cost per MWh - Base Unit	\$/MWh	\$ 50.59	\$ 47.91	\$ 46.39	\$ 54.67	\$ -35.65	\$ 55.41	\$ 50.34
Cost per MWh - Base+Duct Firing	\$/MWh	50.89	49.03	47.69	54.16	35.65	54.18	49.59

The only project that has any possibility of meeting heavy load hour peaking for a 2005 or even a 2006 commercial date is the Spring Canyon project. This project has just acquired its approval order from the state of Utah. The Toquop project would be possible a few months later because it is close to having all necessary permits. Hunter 4 cannot now meet a 2007 commercial date but the Gadsby repowering project could meet a 2007 date if given Company go ahead approval in the next two months.

RECOMMENDATIONS

Recognizing that MSP is not yet settled and that approving a full-blown project without it is not advisable, we recommend consideration of the following to keep the three best options viable and progressing until the Company is prepared to commit to large capital expenditures for new plants.

Spring Canyon Energy, LLC (240 MW 1x1 CCCT)

USA Power owns this project located adjacent to our Mona Substation. They have an approval order for the project from the State of Utah and also have options on water and land for the project. The project currently intends to use an air-cooled condenser. We believe there may be sufficient water available to use a more economic water-cooled condenser (see Table 1 above). We recommend buying the Spring Canyon Energy, LLC from USA Power and believe their position could be acquired for \$5 million or less. We would propose a year long option agreement that would give USA Power an up front payment of no more than \$500,000 with the

remainder to be paid upon actual approval to proceed with the full project. We also recommend definitively determining the availability of buying sufficient water for a water-cooled condenser and proceeding with project engineering over the next several months at a cost about \$500,000. The plant would be designed to cycle each day so as to be able to meet heavy load hour operation. At the end of the engineering period, a decision could then be made on proceeding further with the project. This would maintain the schedule and make possible a 2005 or 2006 commercial date.

Gadsby Repowering (480 MW CCCT)

We have now concluded that the best use for the Gadsby site is to build a 480 MW CCCT facility. Work is still being done to determine whether the plant should consist of two 1x1 240 MW units or one 2x1 480 MW unit. We recommend starting preliminary engineering after the Gadsby study is complete and preparing and submitting the NOI for this project. This effort will require from 9 to 12 months at an estimated cost of \$400,000. This work would maintain a schedule that would bring the plant on line for the 2007 summer time frame.

Hunter 4 (575 MW)

The Hunter 4 NOI will be ready to submit the first week in February. Once a permit is secured, a process that will take from 9 to 12 months, we will have 18 months in which to start construction before the permit expires. We recommend submitting the permit consistent with the IRP requirement time frame. It should be noted that the NOI for IPP 3 was submitted last month and that the IPP 3 organization hopes to have an approval order by the summer of this year. We believe they will use the NOI to seek project financing – an effort that could take from 6 to 12 months or more. IPP 3 was designed based on Utah coal. It is doubtful that there is a sufficient coal supply in Utah for both an IPP 3 unit and for a Hunter 4 unit.

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PAC022563

103915

February 5, 2003

X	For Approval
	For Information
X	For Discussion

Performance CEC Meeting

February 5, 2003

CEC020/03

Title: Purchase of Project Positions at the Mona Substation Site

Decision(s) Requested:

- (1) Approval to immediately purchase the Panda Energy (Panda) project position adjacent to the Mona Substation site for \$964,818.81 and approval to extend the two land option agreements at a cost of \$42,168,
- (2) Approval to negotiate and purchase the USA Power site for up to \$3,500,000,
- (3) Approval to spend up to \$500,000 on preliminary engineering design,
- (4) Approval to issue an asset-based Request for Proposal (RFP) to meet the April 2005 IRP peaking need.

Executive Summary:

- (1) Purchase of Panda's Mona position is cost effective as compared to self-developing viable build options
- (2) Purchasing the Panda and USA positions is strategic and critical in expanding opportunities to cost effectively meet the asset-based IRP requirements
- (3) Preliminary engineering is necessary to firmly establish a viable build alternative, and
- (4) In this instance, issuance of an RFP is required to appropriately compare buy versus build.

Key Issue(s) for Discussion: Ability to cost effectively meet the IRP requirements for CY 2005, 2007, and 2008 and time is of the essence (as Panda desires to exit immediately before February 28, 2003 land option payment is due).

Sponsor: Barry Cunningham, Senior Vice President
Robert Klein, Senior Vice President

Author (if different): Rand Thurgood, Managing Director Resource Development
Mark Tallman, Director Origination

EXHIBIT	355
WIT.	R Thurgood
DATE	9/28/06
CitiCourt, LLC	

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EXECUTIVE SUMMARY

Generation and Commercial & Trading (C&T) seek approval to expend approximately \$5,000,000 to acquire a strategic generation development site in Utah, associated meteorological data, and related land options. The purpose is to establish a viable generation build alternative to meet the 2005, 2007, and 2008 IRP target dates for a peaking asset plus two base-load assets. These resources are needed to supply PacifiCorp's eastern system. Generation and C&T are seeking approval to:

1. Authorize Generation to purchase the Panda position at Mona for \$1,006,986.81 (consisting of \$964,818.61 for site rights and \$42,168 for related land options) and to extend these related land options.
2. Authorize Generation to negotiate and purchase USA Power's rights associated with their Mona site for a price not to exceed (without additional approval) \$3,500,000.
3. Assuming the USA Power rights are acquired, authorize Generation to spend not more than \$500,000 for preliminary engineering design during FY 2004, or assuming that only the Panda site is acquired, authorize Generation to spend not more than \$500,000 for preliminary engineering design during FY 2004.
4. Authorize C&T to issue an asset-based RFP in March 2003 to meet the April 2005 IRP defined peaking need for the resource deficit of PacifiCorp's eastern system.

PacifiCorp published its Integrated Resource Plan (IRP) on January 24, 2003. The document shows an East system need for at least 200 MW of peaking resource by April 2005, a 570 MW base load resource by April 2007, and another 500 MW base load resource by April 2008. Resource Development has determined that only a limited number of viable sites exist along the Wasatch Front for resource development.

PacifiCorp has an immediate opportunity to purchase the rights to one of the most attractive of these sites (the Panda site located adjacent to the Company's Mona substation) for \$964,818.81. This amount represents the direct cost incurred by Panda to develop the site. This purchase will provide PacifiCorp with both valuable meteorological data that must be collected for any site as well as the extension ability on two land purchase options by paying an additional \$42,168 (\$21,168 for 80 acres by February 28, 2003 and \$21,000 for 160 acres in April 2003). Panda has agreed to an exclusivity agreement to sell this site for their cost. Panda desires to exit their position as soon as possible and prior to the date that the land option payment is due (February 28, 2003). The exclusivity agreement expires on February 12, 2003 to allow Panda to pursue a second alternative in the event PacifiCorp is not interested.

A second entity, USA Power, holds rights to another site adjacent to the Mona substation. Whereas the Panda site provides a viable alternative for a 2006 or for the 2007 and/or 2008 IRP target dates, the USA Power site additionally provides a viable alternative for the 2005 IRP target date. The USA Power site is further along in the permitting process. However, Panda holds valuable meteorological data that would be of value for the USA site since USA submitted

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their permits based upon inferred data rather than actual data. Absent the purchase of the Panda site by PacifiCorp, USA power is the next most likely suitor for the Panda site. We believe the USA site to be the only viable project site that is capable of meeting a 2005 online date for a peaking unit with an efficient combined cycle design (versus a simple cycle design). This means that the data from the Panda site could prove to be key if the permitting process associated with the USA site is questioned for data quality reasons.

We are recommending that both sites be acquired. USA Power has indicated a willingness to negotiate but they are not willing to sell for cost. Generation believes the cost of the Panda rights to be reasonable and appropriate when compared against the cost of acquiring such data.

It is critical for the Company to hold these rights to improve PacifiCorp's bargaining position. The existence of viable alternatives is the most important factor when attempting to negotiate cost effective purchases. This will continue to be the case as the Company endeavors to cost effectively meet the asset-based IRP requirements. . The roughly \$5,000,000 expense on the part of the Company will provide many times that amount in negotiating value for customers as build versus buy comparisons are made. For comparison purposes, the expected cost of 200 MW in third party transmission from the Northern Nevada market for a 2-year period would exceed \$7.9 MM. Likewise, the expected cost of fees to exit the California ISO at Mona would exceed \$17 MM for a 200 MW peaking resource that dispatches 50% of the hours in a year.

Acquisition of the sites from Panda and USA will provide the Company, in conjunction with the Gadsby re-powering opportunity and the planned permitting of Hunter 4, sufficient viable options to fulfill a large portion of the asset-based IRP need in the event the market fails to provide more cost effective asset-based solutions.

STRATEGIC IMPLICATIONS OF THE PURCHASES

PacifiCorp published its IRP on January 24, 2003. The document shows an East system need for 200 MW of peaking resource by April 2005, a 570 MW base load resource by April 2007, and another 500 MW of based load resource by April 2008.

To better evaluate the overall asset-based market, the PacifiCorp commissioned CH₂Mhill to conduct a siting study for gas-fired generation along the Wasatch Front. This study is now nearing completion and it strongly indicates that the Mona area is one of the best areas (if not the best area) for the development of gas-fired generation to meet peaking and/or base load generation needs. The Mona area is attractive because of its strategic location near the Utah market, major electrical transmission lines and two major gas transportation lines. In addition, we have determined (through bi-lateral discussions with developers) that only a limited number of options are available to meet either the peaking resource requirement date of April 2005 or the base-load resource date of April 2007.

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The options for addressing the 2005 date are as follows:

- **Wheel In** - Procure (purchase, build or buy) the required 200 MW of asset-based peaking resources in another control area(s) and secure firm transmission rights to wheel the power to the resource deficit portion of PacifiCorp's East system (the Utah Bubble). For comparison purposes of the expense being proposed herein, the expected cost of 200 MW in third party transmission from the Northern Nevada market for a 2-year period would exceed \$7.9 MM. Likewise, the expected cost of fees to exit the California ISO at Mona would exceed \$17 MM for a 200 MW peaking resource that dispatches 50% of the hours in a year.
- **Purchase Within** - Purchase the required 200 MW of asset-based peaking resources from points inside the Utah Bubble. Absent the USA Power site, Generation and C&T are unaware of other entities capable of meeting an April 2005 date with a combined cycle machine,
- **Build Within** - Build PacifiCorp's own resources within the Utah Bubble.

PacifiCorp's build options for meeting the 2005, 2007, and 2008 IRP requirements are as follows:

Build Options to Meet IRP Target Dates

Option	April 2005 Target Date (peaker)	April 2007 Target Date (base-load)	April 2008 Target Date (base-load)
Re-power Gadsby		YES	YES
Hunter 4			YES
Panda site	YES*	YES	YES
USA Power Site	YES**	YES	YES

* - Using simple cycle technology only.

** - Using combined cycle technology.

Repower Gadsby

Gadsby Units 1,2 and 3 can be repowered at a capacity of 550 MW (490 MW of base capacity and 60 MW of duct firing peaking capacity). If started in February 2003, this project could be brought on line in March of 2007 and be available to meet the first base-load target date of April 2007.

Hunter 4

This 575 MW coal-fired project can meet the second base-load target date of April 2008 (online February 2008) if started in February 2003.

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Panda Mona Project

The Panda site adjacent to Mona can accommodate up to 1,000 MW of peaking and/or base-load resource. An online date of April 2005 can be achieved at the Panda site using simple cycle technology and an online date of March 2006 can be achieved using combined cycle technology. More importantly, as described below, control of the Panda site is expected to be instrumental in negotiations with respect to the only known site that can accommodate combined cycle construction to meet the April 2005 timeline.

USA Power Spring Canyon Project

The USA Power site is also adjacent to Mona. Indications are that USA Power has traveled far enough through the permitting process to support an online date of April 2005 using combined cycle technology (250 MW 1X1 CCCT). While this online date is assertive, it is achievable through close management, the immediate start of engineering design work, and the reservation/ordering of equipment by no later than the end of March 2003.

The most cost effective resource design for meeting the 2005 peaking need is a combined cycle design (as compared to a simple cycle design). The recommendation is that PacifiCorp meet the April 2005 peaking resource need with a combined cycle design that is capable of being operated in a peaking mode.

Informal discussions have begun with USA Power with respect to purchasing their site. To date, USA Power has indicated an interest in selling their project position. Owning the Panda position is critical to defining the limits of further negotiations with USA Power because it provides PacifiCorp with a viable build option to meet the April 2005 peaking date (albeit with a simple cycle design). Further, the Panda meteorological data has been of significant interest to USA Power (USA's application relies on inferred data versus actual data). Owning the Panda site, and associated meteorological data, validates USA's air permit application and enables either of the sites to be expanded up to 1,000 MW. If PacifiCorp does not acquire the Panda site, we believe USA Power will try to acquire the site for (at minimum) the associated valuable meteorological data.

The optimal outcome would be to acquire both the Panda and USA Power sites. This would provide the Company with the most flexible and cost effective build alternative for all three of the IRP target dates. If PacifiCorp owned both the USA Power and Panda positions, we would combine the projects and immediately begin engineering to secure a viable combined cycle build option for meeting the April 2005 target date for a peaking resource.

Concurrent with this action, we are preparing to issue an RFP for asset-based purchases. Results from the RFP would be used to determine the most economical alternative in meeting the April 2005 peaking need. In the event we are able to negotiate a purchase option more economical than building, the site rights would be held and utilized to assure that a viable build option exists for meeting the 2007 and/or 2008 target dates.

As the IRP action plan indicates, a variety of resource alternatives will be required to meet the IRP requirements over the next 10 years. Having viable build options available for our customers is critical to assure reliability and to assure that the Company is able to receive the

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most economical asset-based offers from the market place as we assess build versus buy options. The Panda and USA sites discussed herein will provide just such an option. These sites are adjacent to Mona and provide the potential to build up to 1,000 MW of gas-fired generation. Additionally, these sites hold additional strategic value since Hunter 4 and Gadsby re-power are subject to permitting risk.

Finally, we believe the Panda and USA Power assets have market value and could be re-sold at a later date if PacifiCorp does not develop a Mona area project.

THE PANDA MONA POWER PROJECT

During the high market period of 2000, Panda initiated a project adjacent to our Mona Substation with the intent of constructing up to 1,000 MW of gas-fired generation. Panda purchased options on 240 acres of land and began discussions for the purchase of water. Most importantly, they also erected a tower to collect meteorological data necessary for obtaining the required Prevention of Significant Deterioration (PSD) air permit. A data collection protocol was prepared and accepted by the State of Utah. This ensured that any data collected over the 14-month period would be PSD qualified. In addition to this work, Panda also conducted transmission and market studies and prepared an air modeling protocol that was also accepted by the State.

Since the market decline, Panda has been holding its information and position on their project at Mona. They now believe that it will be at least four to five years before a true merchant position will be available to them at their site. They are now willing to sell for cost their information and attendant assets as follows:

Panda Plant Site Property:

Two land purchase option agreements:

- Tract A:
 - 80-acre tract located adjacent to the Mona Substation
 - Property option up for renewal on 2-28-03
 - Renewal cost will be \$21,168. **Property option must be exercised 2-28-04.**
 - Exercise price is \$211,680.
- Tract B:
 - 160-acre tract located adjacent to Tract A
 - Property option up for renewal 4-16-03
 - Renewal cost will be \$21,000. **Property option must be exercised 4-16-04.**
 - Exercise price is \$110,400.

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Panda Environmental Permitting:

- Environmental Site Evaluation and Planning Report
- Ground Water Study Feasibility Screening Study Report
- Meteorological and Air Quality Monitoring Quality Assurance Plan –approved by Utah Department of Air Quality (UDAQ)
- Dispersion Modeling Protocol approved by UDAQ
- Air Quality PSD Monitoring Protocol
- 1-year Audited Meteorological data from the plant site property
- Meteorological Tower and associated equipment

Panda Electrical Transmission and Marketing Reports:

- Market Study from R. W. Beck
- Transmission Study from R. W. Beck
- PacifiCorp Interconnect Study Report

Panda has agreed to sell the above for their expended cost to date - \$964,818.81. Addition of the land option expenses would bring PacifiCorp's total expense to \$985,986.81 in the current fiscal year and \$21,000 in the following fiscal year.

We have reviewed the purchase price of \$964,818.61 and believe it to be a cost-effective alternative to acquiring necessary meteorological data and land options on our own. Data collection must be performed by every site (for permitting reasons) and must be acquired for a year or more.

THE USA POWER MONA POWER PROJECT

Similar to Panda, USA Power initiated a project adjacent to our Mona Substation during the high market period of 2000. Initial discussions with USA Power indicate that USA Power is willing to entertain an offer to purchase:

- Spring Canyon, LLC. (legal owner of USA Power's project position at their Mona site)
- Approval Order (air permit) from UDAQ to proceed with 250 MW project
- Options on water sufficient to operate the project
- Option on land for the project

TIME REQUIREMENTS OF THE PANDA PURCHASE

Panda has agreed to an exclusivity agreement to sell the site to PacifiCorp at their cost. Panda desires to exit their position as soon as possible and prior to the date that a land option payment is due (February 28, 2003). The exclusivity agreement expires on February 12, 2003, to allow Panda to pursue a second alternative in the event PacifiCorp is not interested.

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RECOMMENDATION

We recommend and request the following:

1. *The authority to purchase the Panda position at Mona for \$1,006,986.81 and extend the associated land options. This opportunity represents the best and most cost effective alternative available to secure viable build options. We have contacted every known developer who holds rights to viable sites such as this and Panda is the only entity who has expressed a sincere interest to sell their rights at cost. Failure to secure the Panda site will materially reduce PacifiCorp's negotiating ability in comparing build versus buy alternatives for meeting the 2007 and 2008 IRP target dates for assets in the Utah Bubble.*
2. *We request authority to negotiate and purchase USA Power's rights associated with their Mona site. We will not spend more than \$3,500,000 for these rights without additional approvals.*
3. *If we acquire the USA Power site, we request the authority to spend up to \$500,000 (during FY 2004) for engineering design. This design work will be applicable and necessary to firmly establish a viable build alternative for the 2005, 2007, and 2008 IRP target dates. In the event Generation is not able to acquire the USA Power site, but approval is granted to acquire the Panda site, Generation is seeking authority to spend up to \$500,000 during FY 2004 for preliminary engineering design for the Panda site.*
4. *We request the authority to issue an asset-based RFP in March or April 2003 to meet the April 2005 IRP peaking need for the Utah Bubble.*

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