

WIND-TUNNEL STUDY OF
SUN GAS BUILDING, DALLAS

by

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LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U	Local mean velocity
D	Characteristic dimension (building height, width, etc.)
ν, ρ	Kinematic viscosity and density of approach flow
$\frac{UD}{\nu}$	Reynolds number
E	Mean voltage
A, B, n	Constants
U_{rms}	Root-mean-square of fluctuating velocity
E_{rms}	Root-mean-square of fluctuating voltage
U_{∞}	Reference mean velocity outside the boundary layer
X, Y	Horizontal coordinates
Z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U_{\infty}}$ or $\frac{U_{rms}}{U}$
$C_{P_{mean}}$	Mean pressure coefficient, $\frac{(p-p_{\infty})_{mean}}{0.5 \rho U_{\infty}^2}$
$C_{P_{rms}}$	Root-mean-square pressure coefficient, $\frac{((p-p_{\infty}) - (p-p_{\infty})_{mean})_{rms}}{0.5 \rho U_{\infty}^2}$
$C_{P_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_{\infty})_{max}}{0.5 \rho U_{\infty}^2}$
$C_{P_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_{\infty})_{min}}{0.5 \rho U_{\infty}^2}$
() _{min}	Minimum value during data record
() _{max}	Maximum value during data record

<u>Symbol</u>	<u>Definition</u>
p	Fluctuating pressure at a pressure tap on the structure
p_{∞}	Static pressure in the wind tunnel above the model
F_x, F_y	Forces in X, Y direction
A_R	Reference Area
CF_X	Force coefficient, X direction, $\frac{F_x}{A_R 0.5\rho U_{\infty}^2}$
CF_Y	Force coefficient, Y direction, $\frac{F_y}{A_R 0.5\rho U_{\infty}^2}$

1. INTRODUCTION

1.1 General

A significant characteristic of modern building design is lighter cladding and more flexible frames. These features produce an increased vulnerability of glass and cladding to wind damage and result in larger deflections of the building frame. In addition, increased use of pedestrian plazas at the base of the buildings has brought about a need to consider the effects of wind and gustiness in the design of these areas.

The building geometry itself may increase or decrease wind loading on the structure. Wind forces may be modified by nearby structures which can produce beneficial shielding or adverse increases in loading. Overestimating loads results in uneconomical design; underestimating may result in cladding or window failures. Tall structures have historically produced unpleasant wind and turbulence conditions at their bases. The intensity and frequency of objectionable winds in pedestrian areas is influenced both by the structure shape and by the shape and position of adjacent structures.

Techniques have been developed for wind tunnel modeling of proposed structures which allow the prediction of wind pressures on cladding and windows, overall structural loading, and also wind velocities and gusts in pedestrian areas adjacent to the building. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed. Accurate knowledge of the intensity and distribution of the pressures on the structure permits adequate but economical selection of cladding strength to meet selected maximum design winds and overall wind loads for the design of the frame for flexural control.

Modeling of the aerodynamic loading on a structure requires special consideration of flow conditions in order to guarantee similitude between model and prototype. A detailed discussion of the similarity requirements and their wind-tunnel implementation can be found in references (1), (2), and (3). In general, the requirements are that the model and prototype be geometrically similar, that the approach mean velocity at the building site have a vertical profile shape similar to the full-scale flow, that the turbulence characteristics of the flows be similar, and that the Reynolds number for the model and prototype be equal.

These criteria are satisfied by constructing a scale model of the structure and its surroundings and performing the wind tests in a wind tunnel specifically designed to model atmospheric boundary-layer flows. Reynolds number similarity requires that the quantity UD/ν be similar for model and prototype. Since ν , the kinematic viscosity of air, is identical for both, Reynolds numbers cannot be made precisely equal with reasonable wind velocities. To accomplish this the air velocity in the wind tunnel would have to be as large as the model scale factor times the prototype wind velocity, a velocity which would introduce unacceptable compressibility effects. However, for sufficiently high Reynolds numbers ($>2 \times 10^4$) the pressure coefficient at any location on the structure will be essentially constant for a large range of Reynolds numbers. Typical values encountered are 10^7 - 10^8 for the full-scale and 10^5 - 10^6 for the wind-tunnel model. In this range acceptable flow similarity is achieved without precise Reynolds number equality.

1.2 The Wind-Tunnel Test

The wind-engineering study is performed on a building or building group modeled at scales ranging from 1:150 to 1:400. The building model

is constructed of clear plastic fastened together with screws. The structure is modeled in detail to provide accurate flow patterns in the wind passing over the building surfaces. The building under test is often located in a surrounding where nearby buildings or terrain may provide beneficial shielding or adverse wind loading. To achieve similarity in wind effects the area surrounding the test building is also modeled. A flow visualization study is first made (smoke is used to make the air currents visible) to define overall flow patterns and identify regions where local flow features might cause difficulties in building curtain-wall design or produce pedestrian discomfort.

The test model, equipped with pressure taps (200 to 600 or more), is exposed to an appropriately modeled atmospheric wind in the wind tunnel and the fluctuating pressure at each tap measured electronically. The model, and the modeled area, are rotated 10 or 15 degrees and another set of data recorded for each pressure tap. Normally, 24 or 36 sets of data (360 degrees of turning) are taken; however, when flow visualization or recorded data indicate high pressure regions of small azimuthal extent, data is obtained in smaller azimuthal steps.

Data are recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several types are calculated by the computer for each reading on each piezometer tap and are printed in tabular form as computer readout. Using wind data applicable to the building site, representative wind velocities are selected for combination with measured pressures on the building model. Integration of test data with wind data results in prediction of peak local wind pressures for design of glass or cladding and may include overall forces and moments on the structure (by floor if desired) for design of

the structural frame. Pressure contours are drawn on the developed building surfaces showing the intensity and distribution of peak wind loads on the building. These results may be used to divide the building into zones where lighter or heavier cladding or glass may be desirable.

Based on the visualization (smoke) tests and on a knowledge of heavy pedestrian use areas, a dozen or more locations may be chosen at the base of the building where wind velocities can be measured to determine the relative comfort or discomfort of pedestrians in plaza areas, near building entrances, near building corners, or on sidewalks.

Usually a reference pedestrian position is also tested to determine whether the wind environment in the building area is better or worse than the environment a block or so away in an undisturbed area.

The following pages discuss in greater detail the procedures followed and the equipment and data collecting and processing methods used. In addition, the data presentation format is explained and the implications of the data are discussed.

2. EXPERIMENTAL CONFIGURATION

2.1 Wind Tunnel

Wind-engineering studies are performed in the Fluid Dynamics and Diffusion Laboratory at Colorado State University (Figure 1). Three large wind tunnels are available for wind loading studies depending on the detailed requirements of the study. The wind tunnel used for this investigation is shown in Figure 2. All tunnels have a flexible roof adjustable in height to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously in each tunnel to the maximum velocity available.

2.2 Model

In order to obtain an accurate assessment of local pressures using piezometer taps, models are constructed to the largest scale that does not produce significant blockage in the wind-tunnel test section. The models are constructed of 1/2 in. thick Lucite plastic and fastened together with metal screws. Significant variations in the building surface, such as mullions, are machined into the plastic surface. Piezometer taps (1/16 in. diameter) are drilled normal to the exterior vertical surfaces in rows at several or more elevations between the bottom and top of the building. Similarly, taps are placed in the roof and on any sloping, protruding, or otherwise distinctive features of the building that might need investigation.

Pressure tap locations are chosen so that the entire surface of the building can be investigated for pressure loading and at the same time permit critical examination of areas where experience has shown that maximum wind effects may be expected to occur. Locations of the pressure taps for this study are shown in Figure 3. Dimensions are

given both for full-scale building (in ft) and for model (in in.). The pressure tap numbers are shown adjacent to the taps.

The pressure tests are sometimes made in two stages. In the first stage measurements are made on the initial distribution of pressure taps. If it becomes apparent from the data that the loading on the building is being influenced by some unsuspected geometry of the building or adjacent structures, additional pressure taps are installed in the critical areas. The locations of the taps are selected so that the maximum loading can be detected and the area over which this loading is acting can be defined. Any added taps are also shown in Figure 3.

A circular area 750 to 2000 ft in radius depending on model scale and characteristics of the surrounding buildings and terrain is modeled in detail. Structures within the modeled region are made from styrofoam and cut to the individual building geometries. They are mounted on the turntable in their proper locations. Significant terrain features are included as needed. The model is mounted on a turntable (Figure 2) near the downwind end of the test section. Any buildings or terrain features which do not fit on the turntable are placed on removable pieces which are placed upwind of the turntable for appropriate wind directions. A plan view of the building and its surroundings is shown in Figure 4. The turntable is calibrated to indicate azimuthal orientation to 0.1 degree.

The region upstream from the modeled area is covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Different roughness sizes may be used for different wind directions. Spires are installed at the test-section entrance to provide a thicker boundary layer than would otherwise be

available. The thicker boundary layer permits a somewhat larger scale model than would otherwise be possible. The spires are approximately triangularly shaped pieces of 1/2 in. thick plywood 6 in. wide at the base and 1 in. wide at the top, extending from the floor to the top of the test section. They are placed so that the broad side intercepts the flow. A barrier approximately 8 in. high is placed on the test-section floor downstream of the spires to aid in development of the boundary-layer flow.

The distribution of the roughness cubes and the spires in the roughened area was designed to provide a boundary-layer thickness of approximately 4 ft, a velocity profile power-law exponent similar to that expected to occur in the region approaching the modeled area for each wind direction (a number of wind directions may have the same approach roughness). A photograph of the completed model in the wind tunnel is shown in Figure 5. The wind-tunnel ceiling is adjusted after placement of the model to obtain a zero pressure gradient along the test section.

3. INSTRUMENTATION AND DATA ACQUISITION

3.1 Flow Visualization

Making the air flow visible in the vicinity of the model is helpful

- (a) in understanding and interpreting mean and fluctuating pressures,
- (b) in defining zones of separated flow and reattachment and zones of vortex formation where pressure coefficients may be expected to be high and
- (c) in indicating areas where pedestrian discomfort may be a problem.

Titanium tetrachloride smoke is released from sources on and near the model to make the flow lines visible to the eye and to make it possible to obtain motion picture records of the tests. Conclusions obtained from these smoke studies are discussed in Sections 4.1 and 5.1.

3.2 Pressures

Mean and fluctuating pressures are measured at each of the pressure taps on the model structure. Data are obtained for 24 or 36 wind directions, rotating the entire model assembly in a complete circle. Seventy-six pieces of 1/16 in. I.D. plastic tubing are used to connect 76 pressure ports at a time to an 80 tap pressure switch mounted inside the model. The switch was designed and fabricated in the Fluid Dynamics and Diffusion Laboratory to minimize the attenuation of pressure fluctuations across the switch. Each of the 76 measurement ports is directed in turn by the switch to one of four pressure transducers mounted close to the switch. The four pressure input taps not used for transmitting building surface pressures are connected to a common tube leading outside the wind tunnel. This arrangement provides both a means of performing in-place calibration of the transducers and, by connecting this tube to a pitot tube mounted inside the wind tunnel, a means of automatically monitoring the tunnel speed. The switch is operated by means of a shaft projecting through

the floor of the wind tunnel. A computer-controlled stepping motor steps the switch into each of the 20 required positions. The computer keeps track of switch position but a digital readout of position is provided at the wind tunnel.

The pressure transducers used are setra differential transducers (Model 237) with a 0.10 psid range. Reference pressures are obtained by connecting the reference sides of the four transducers, using plastic tubing, to the static side of a pitot-static tube mounted in the wind tunnel free stream above the model building. In this way the transducer measures the instantaneous difference between the local pressures on the surface of the building and the static pressure in the free stream above the model.

Output from the pressure transducers is fed to an on-line data acquisition system consisting of a Hewlett-Packard 21 MX computer, disk unit, card reader, printer, Digi-Data digital tape drive and a Preston Scientific analog-to-digital converter. The data are processed immediately into pressure coefficient form as described in Section 4.3 and stored for printout or further analysis.

All four transducers are recorded simultaneously for 16 seconds at a 250 sample per second rate. The results of an experiment to determine the length of record required to obtain stable mean and rms (root-mean-square) pressures and to determine the overall accuracy of the pressure data acquisition system is shown in Figure 6. A typical pressure port record was integrated for a number of different time periods to obtain the data shown. Examination of a large number of pressure taps showed that the overall accuracy for a 16 second period is, in pressure coefficient form, 0.03 for mean pressures, 0.1 for peak pressures, and 0.01 for rms pressures. Pressure coefficients are defined in Section 4.3.

3.3 Velocity

Mean velocity and turbulence intensity profiles are measured upstream of the model to determine that an approach boundary-layer flow appropriate to the site has been established. Tests are made at one wind velocity in the tunnel. This velocity is well above that required to produce Reynolds number similarity between the model and the prototype as discussed in Section 1.1.

In addition, mean velocity and turbulence intensity measurements are made 5 to 7 ft (prototype) above the surface at a dozen or more locations on and near the building for 16 wind directions. The measurement locations are shown on Figure 4. The surface measurements are indicative of the wind environment to which a pedestrian at the measurement location would be subjected. The locations are chosen to determine the degree of pedestrian comfort or discomfort at the building corners where relatively severe conditions frequently are found, near building entrances and on adjacent sidewalks where pedestrian traffic is heavy, and in open plaza areas. In most studies a reference pedestrian position, located about a block away, is also tested. These data are helpful in evaluating the degree of pedestrian comfort or discomfort in the proposed plaza area in terms of the undisturbed environment in the immediate vicinity.

Measurements are made with a single hot-wire anemometer mounted with its axis vertical. The instrumentation used is a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. diameter platinum film sensing element 0.020 in. long. Output is directed to the on-line data acquisition system for analysis.

Calibration of the hot-wire anemometer is performed by comparing output with the pitot-static tube in the wind tunnel. The calibration

data are fit to a variable exponent King's Law relationship of the form

$$E^2 = A + BU^n$$

where E is the hot-wire output voltage, U the velocity and A , B , and n are coefficients selected to fit the data. The above relationship was used to determine the mean velocity at measurement points using the measured mean voltage. The fluctuating velocity in the form U_{rms} (root-mean-square velocity) was obtained from

$$U_{\text{rms}} = \frac{2 E E_{\text{rms}}}{B n U^{n-1}}$$

where E_{rms} is the root-mean-square voltage output from the anemometer. For interpretation all turbulence measurements for pedestrian winds were divided by the mean velocity outside the boundary-layer U_{∞} . Turbulence intensity in velocity profile measurements used the local mean velocity.

4. RESULTS

4.1 Flow Visualization

A film is included as part of this report showing the characteristics of flow about the structure using smoke to make the flow visible. A listing of the contents of the film is shown in Table 1. Several features can be noted from the visualization. As with all large structures, wind approaching the building is deflected down to the plaza level, up over the structure and around the sides. A description of the smoke test results emphasizing flow patterns of concern relative to possible high-wind load areas and pedestrian comfort is given in Section 5.1.

4.2 Velocity

Velocity and turbulence profiles are shown in Figure 7. Profiles were taken upstream from the model which are characteristic of the boundary layer approaching the model and sometimes at the building site with building removed. The boundary-layer thickness, δ , is shown in Figure 7. The corresponding prototype value of δ for this study is also shown in the figure. This value was established as a reasonable height for this study. The mean velocity profile approaching the modeled area has the form

$$\frac{U}{U_{\infty}} = \left(\frac{z}{\delta}\right)^n.$$

The exponent n for the approach flow established for this study is shown in Figure 7.

Profiles of longitudinal turbulence intensity in the flow approaching the modeled area are shown in Figure 7. The turbulence intensities are appropriate for the approach mean velocity profile selected. For the velocity profiles, turbulence intensity is defined

as the root-mean-square about the mean of the longitudinal velocity fluctuations divided by the local mean velocity U ,

$$Tu = \frac{U_{rms}}{U} .$$

Velocity data obtained at each of the pedestrian measurement locations shown in Figure 4 are listed in Table 2 as mean velocity U/U_{∞} , turbulence intensity U_{rms}/U_{∞} , and largest effective gust

$$U_{pk} = \frac{U + 3U_{rms}}{U_{\infty}} .$$

These data are plotted in polar form in Figure 8. Measurements were taken 5 to 7 ft above the ground surface. A site map is superimposed on the polar plots to aid in visualization of the effects of the nearby structures on the velocity and turbulence magnitudes. An analysis of these wind data is given in Section 5.2.

To enable a quantitative assessment of the wind environment, the wind-tunnel data were combined with wind frequency and direction information obtained at the local airport. Table 3 shows wind frequency by direction and magnitude obtained from summaries published by the National Weather Service. These data, usually obtained at an elevation of about 30-40 ft, were converted to velocities at the reference velocity height for the wind-tunnel measurements and combined with the wind-tunnel data to obtain cumulative probability distributions (percent time a given velocity is exceeded) for wind velocity at each measuring location. The percentage times were summed by wind direction to obtain a percent time exceeded at each measuring position independent of wind direction (but accounting for the fact that the wind blows from different directions with varying frequency). These results are plotted in Figure 9.

Interpretation of Figure 9 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise (4) and Melbourne (5). The Beaufort scale (from ref. 4), based on mean velocity only, is reproduced as Table 4 including qualitative descriptions of wind effects. Table 4 suggests that mean wind speeds below 12 mph are of minor concern and that mean speeds above 24 mph are definitely inconvenient. Quantitative criteria for acceptance from reference 5 are superimposed as dashed lines on Figure 9. The peak gust curves shown in Figure 9 are the percent of time during which a short gust of the stated magnitude could occur (say about one of these gusts per hour). Implications of the data plotted in Figure 9 are presented in Section 5.2

Because some pedestrian wind measuring positions are purposely chosen at sites where the smoke tests showed large velocities of small spacial extent, the general wind environment about the structure may be less severe than one might infer from a strict analysis of Table 2 and Figure 9.

4.3 Pressures

For each of the pressure taps examined at each wind direction, the data record is analyzed to obtain four separate pressure coefficients.

The first is the mean pressure coefficient

$$C_{p_{\text{mean}}} = \frac{(p-p_{\infty})_{\text{mean}}}{0.5 \rho U_{\infty}^2}$$

where the symbols are as defined in the List of Symbols. It represents the mean of the instantaneous pressure difference between the building pressure tap and the static pressure in the wind tunnel above the building model, nondimensionalized by the dynamic pressure

$$0.5 \rho U_{\infty}^2$$

at the reference velocity position. This relationship produces a dimensionless coefficient which indicates that the mean pressure difference between building and ambient wind at a given point on the structure is some fraction less or some fraction greater than the undisturbed wind dynamic pressure near the upper edge of the boundary layer. Using the measured coefficient, prototype mean pressure values for any wind velocity may be calculated.

The magnitude of the fluctuating pressure is obtained by the rms pressure coefficient

$$C_{p_{\text{rms}}} = \frac{\left((p-p_{\infty}) - (p-p_{\infty})_{\text{mean}} \right)_{\text{rms}}}{0.5 \rho U_{\infty}^2}$$

in which the numerator is the root-mean-square of the instantaneous pressure difference about the mean .

If the pressure fluctuations followed a Gaussian probability distribution, no additional data would be required to predict the

frequency with which any given pressure level would be observed.

However, the pressure fluctuations do not, in general, follow a Gaussian probability distribution so that additional information is required to show the extreme values of pressure expected. The peak maximum and peak minimum pressure coefficients are used to determine these values:

$$C_{P_{\max}} = \frac{(p-p_{\infty})_{\max}}{0.5 \rho U_{\infty}^2}$$

$$C_{P_{\min}} = \frac{(p-p_{\infty})_{\min}}{0.5 \rho U_{\infty}^2}$$

The values of $p-p_{\infty}$ which were digitized at 250 samples per second for 16 seconds, representing about one hour of time in the full-scale, are examined individually by the computer to obtain the most positive and most negative values during the 16-second period. These are converted to $C_{P_{\max}}$ and $C_{P_{\min}}$ by nondimensionalizing with the free stream dynamic pressure.

The four pressure coefficients are calculated by the on-line data acquisition system computer and tabulated along with the approach wind azimuth in degrees from true north. The list of coefficients is included as Appendix A. The pressure tap code numbers used in the appendix are explained in Figure 3.

To determine the largest peak loads acting at any point on the structure for cladding design purposes, the pressure coefficients for all wind directions were searched to obtain, at each pressure tap, the largest absolute value of peak pressure coefficient. Table 6 provides these pressure coefficients and associated wind directions. Included in Section 5.3 is an analysis of the coefficients of Table 6 including the maximum values obtained and where they occurred on the building.

The pressure coefficients of Table 6 can be converted to full-scale loads by multiplication by a suitable reference pressure selected for the field site. This reference pressure is represented in the equations for pressure coefficients by the $0.5 \rho U_{\infty}^2$ denominator. This value is the dynamic pressure associated with an hourly mean wind at the reference velocity measurement position at the edge of the boundary layer. In general, the method of arriving at a design reference pressure for a particular site involves selection of a design wind velocity, translation of the velocity to an hourly mean wind at the reference velocity location and conversion to a reference pressure. Selection of the design velocity can be made from statistical analysis of extreme wind data or selected from wind maps contained in the proposed wind loading code ANSI A58.1 of the American National Standards Institute (6). The calculation of reference pressure for this study is shown in Table 5. The factor used in Table 5 to reduce gust winds to hourly mean winds is given in reference (7).

The reference pressure associated with the design hourly mean velocity at the reference velocity location can be used directly with the peak-pressure coefficients to obtain peak local design wind loads for cladding design. Local, instantaneous peak loads on the full-scale building suitable for cladding design were computed by multiplying the reference pressure of Table 5 by the peak coefficients of Table 6 and are listed as peak pressures in that table. The maximum psf load given at each tap location is the absolute value of the maximum value found in the tests, irrespective of its algebraic sign. For ease in visualizing the loads on the structure, contours of equal peak pressures for cladding load shown in Table 6 have been plotted on developed elevation

views of the structure, Figure 10. For control of water infiltration from outside to inside, the largest positive (inward-acting) pressure at each tap location is tabulated in Table 6.

For glass design pressures, a glass load factor is used to account for the different duration between measured peak pressures and the one minute loading commonly used in glass design charts. The design pressure used for glass is normally less than the peak pressures used for cladding design because of the static fatigue property of glass which can withstand higher pressures for short duration loads than for long duration loads. Recent research (8) indicates that the period of application of the peak pressures reported herein is about 5-10 seconds or less. If a glass design is based on these peak-pressure values, then a glass strength associated with this duration load should be used. Because glass design charts are normally based on some alternate load duration--usually one minute--then some reduction in peak loads should be made. An estimate of a load reduction factor can be obtained from an empirical relation of glass strength as a function of load duration. Current glass selection charts showing glass strength as a function of load duration (9) and older references (10) indicate the following load reduction factors:

	ref 9	ref 10
annealed float	0.80	0.81
heat strengthened	0.94	
tempered	0.97	0.98

Loadings appropriate for glass design can be computed by multiplying the peak-pressure loads of Table 6 by these load factors.

4.4 Forces and Moments

Force coefficients in the horizontal X and Y directions and moment coefficients about the X, Y, and Z axes with the origin at ground level at the base of the building with Z axis vertical may be computed for all wind directions tested by integration of mean pressures on the building. Overall forces and moments acting on the full-scale building due to wind loading which are useful in designing the structural framing of the proposed building may be obtained from use of these coefficients.

Force coefficients were computed for each floor for each wind direction using the equations shown below.

$$CF_X = \frac{F_X}{A_R 0.5 \rho U_\infty^2} \quad CF_Y = \frac{F_Y}{A_R 0.5 \rho U_\infty^2}$$

Terms and symbols used in the equations are defined in the List of Symbols and the axes are defined for the building in Figure 3. Force coefficients CF_X and CF_Y were computed for the horizontal forces acting along the X and Y axes using the mean pressure coefficient at each pressure tap. A_R represents a constant reference area for nondimensionalization of the forces and moments.

The total forces acting on the full-scale building for each floor and wind direction were computed by multiplying the above coefficients by the appropriate full-scale reference area, by the reference pressure of Table 5, and by a gust load factor selected for an appropriate wind gust duration. The gust load factor, shown in Table 5, was selected to increase the loads from an hourly mean load to that of a gust whose duration would be sufficient for its effect to be fully felt by the structure. A table of gust load factors for various gust durations is

incorporated in Table 5 so that force and moment data of Table 7 may be adjusted to a different load duration if desired.

The forces obtained at each floor were used to obtain load, shear, and moment diagrams for the building for each wind direction. The shear diagram, in kips, was obtained by algebraic sum of all forces in each coordinate direction acting above the floor of interest. The load diagram, in psf, was obtained by dividing the shear values by their contributing areas (listed in Table 7). The moment diagram, in 1000 ft-kips, was obtained by integration of the shear values so that the moment due to forces acting above the floor level of interest was calculated. The sign of the moment was established by the right-hand rule about an X' , Y' axis through the floor of interest. Moments about the Z axis were calculated by considering the displacement of forces in the X and Y directions from the Z axis shown in Figure 3. Load, shear, and moment diagrams are shown in Figure 11 for several wind directions.

5. DISCUSSION

5.1 Flow Visualization

Flow patterns identified with smoke did not show any areas of the building on which unusually large local pressures might occur except for the two roof corners where classical roof corner vortices were observed to occur. Somewhat higher local pressures may be found on the curved walls. Evidence of building torsional loading generally cannot be identified with smoke flow. Velocities at ground level adjacent to the building were largest along the curved walls and at the two ends of the building. Velocities in these regions were large only for a limited range of wind directions for any one location. Velocities near the entrance along Blackwell Street (see Figure 4) appeared to be moderate.

5.2 Pedestrian Winds

Figure 4 shows the 19 locations selected for investigation of pedestrian wind comfort. Location 1 was selected as a reference location in an open area which should not be greatly affected by the Sun Gas Building for most wind directions. Location 19 duplicates 18 but with the presence of the adjacent building to the east. Table 2 and Figure 8 show that the largest values of mean velocity were measured at locations 6 and 9 with values ranging from 72 to 75 percent of U_{∞} , the mean velocity at the boundary-layer height. For comparison, the largest mean velocity measured at reference location 1 was 59 percent for a wind direction where the wind at location 1 was accelerated by the Sun Gas Building. In an open-country environment, one might expect a mean velocity of about 45 percent of U_{∞} .

The largest values of fluctuating velocity, U_{rms} , were measured at locations 2, 10 and 17 with values of 20 and 23 percent of U_{∞} . Reference location 1 had a largest value of 18 percent (again under influence of the Sun Gas Building) while an open-country environment might show a value of 10 to 12 percent. The largest values of peak gust, represented by the mean plus three rms as discussed in Section 4.2, were measured at locations 2, 10 and 17 with values ranging from 118 to 127 percent of U_{∞} . For comparison, the largest value at reference location 1 was 96 percent and an open-country environment might expect 80 to 85 percent of U_{∞} . The large values at locations 2 and 17 are caused by winds which are deflected by the Sun Gas Building.

Velocity data of Table 2 integrated with local wind data listed in Table 3 are shown in Figure 9. Based on the data of this figure, the windiest locations fall above the acceptable criteria line for mean winds more than 20 to 40 percent of the time. These locations are 6, 10, 16 and 19. Locations which are above the acceptability criteria for less than 10 percent of the time are 2, 9, 11 and 18. Reference location 1 falls between the comfort criteria line for walking and the unacceptable line. The entrance near locations 4, 7 and 8 is more comfortable for mean winds falling above the short-exposure criteria line less than 6 to 8 percent of the time. Wind gusts appear to be of less concern than mean winds.

The results of the pedestrian wind analysis showed that several pedestrian locations about the Sun Gas Building fall above published acceptability criteria for wind speeds a significant percentage of time. Much of the reason for this is the high wind speeds reported

at the airport. Based on the published acceptability criteria, an open-country environment near Dallas would be considered uncomfortable for walking more than 20 to 40 percent of the time. Thus, wind protection for pedestrians is necessary to meet the acceptability criteria; in most cities, a wind environment which duplicates an open-country environment provides an acceptable pedestrian wind environment based on the published criteria.

5.3 Pressures

Table 6 shows the largest peak pressure coefficients and corresponding loads measured on the building for each pressure tap location. Data identified as Configuration A in Table 6 and Appendix A represent data obtained at all tap locations for 36 wind directions with a future adjacent building removed (see Figure 5). Configuration B is the same as Configuration A, but with the future adjacent building in place (Figure 5). Configuration C represents data obtained at selected taps at 2-degree azimuthal increments near azimuths where large pressure peaks were observed in Configuration A to ensure that the largest peaks were obtained. The largest peak pressure coefficients measured on the building for Configurations A and B were -3.1 at tap 1007 for Configuration A and tap 2008 for Configuration B. This coefficient value represents, using the 50-year recurrence wind reference pressure of Table 5, peak cladding pressures of -71 psf (outward acting). One pressure coefficient of -3.85 corresponding to a peak cladding pressure of 89 psf was measured at tap 2015 for Configuration C; this event appears to be a low-probability event occurring during the design wind storm and could reasonably be replaced with the peak pressure of 64 psf obtained from the Configuration A data.

Figure 10 shows the peak negative (outward acting) pressures obtained from Configuration A without the proposed adjacent building in place. Most of the area of the building shows peak cladding pressures in the 20 to 40 psf range. If the proposed building added for Configuration B is to be accounted for in the design of the cladding, then pressures near the taps identified in Table 6B as being 5 psf or larger for Configuration B should be increased. The largest pressure increases for Configuration B were at tap 1001 which increased from -38 to -62 psf and tap 2044 which increased from -35 to -51 psf. Peak positive pressures (inward acting) were almost all less than 25 psf for both A and B configurations.

Figure 11 shows load, shear and moment diagrams plotted from Table 7 for the largest loads in the X and Y direction. When the maximum shear in the Y direction occurs, at wind direction 300, the X shear remains at about twice the Y shear.

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FIGURES

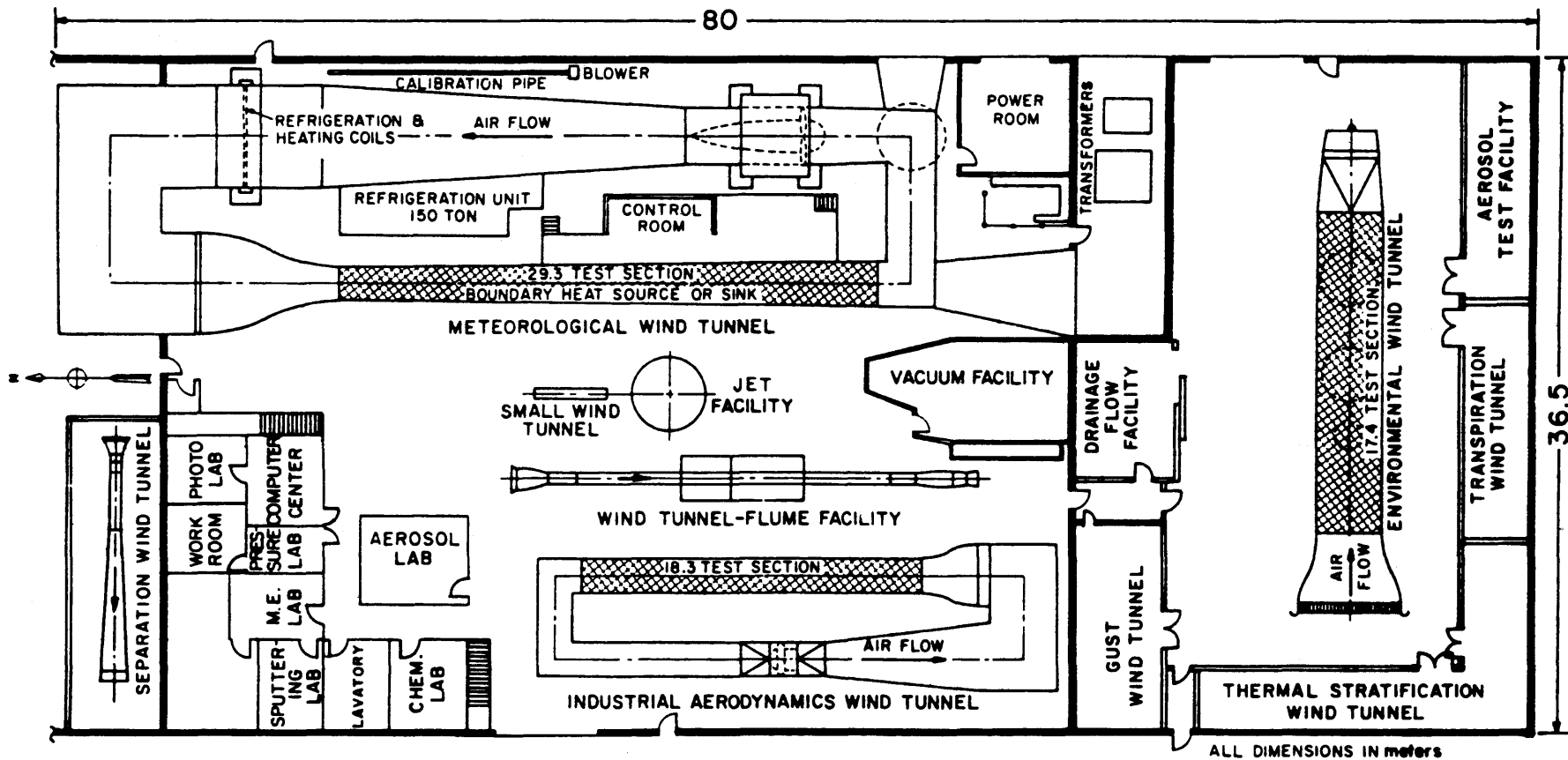
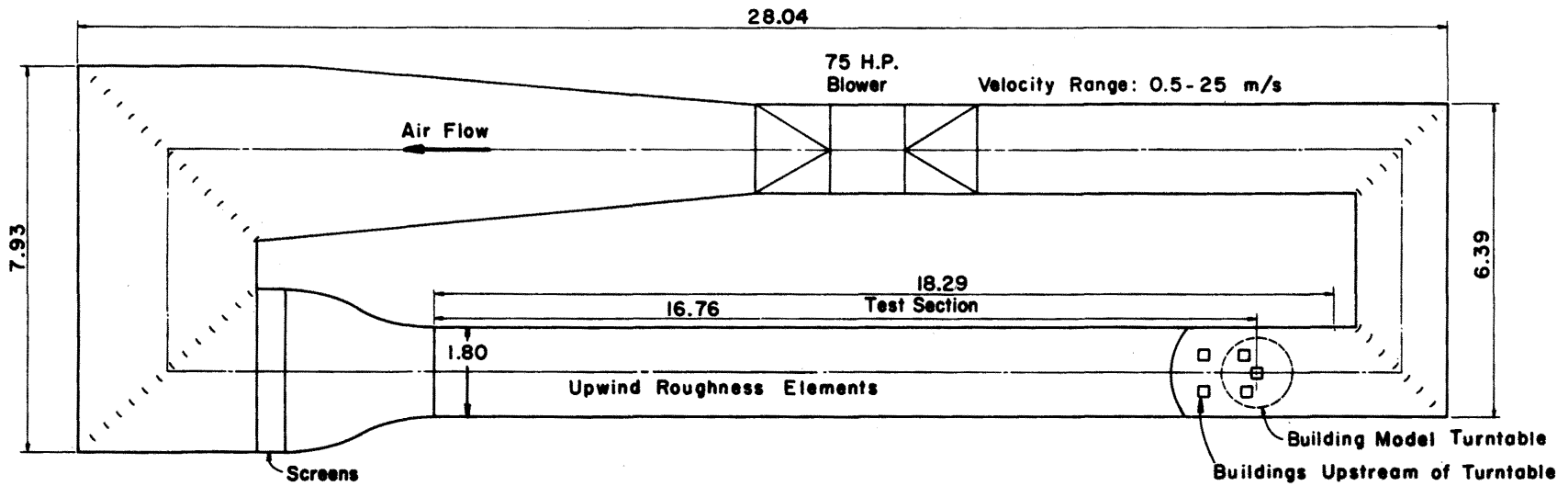
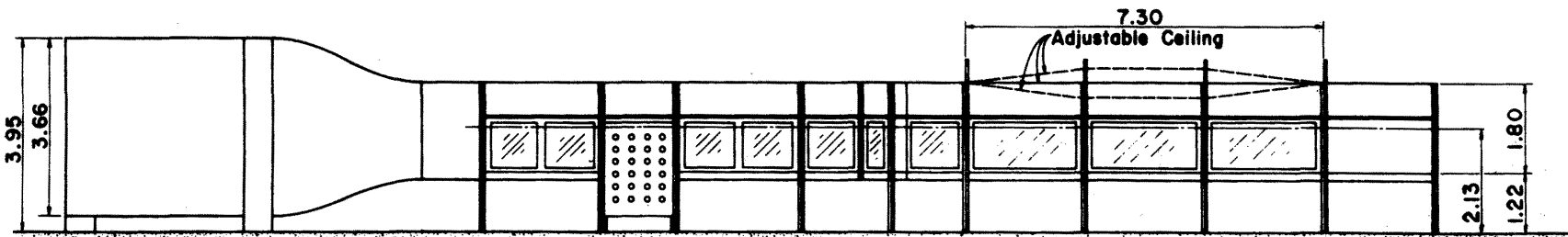
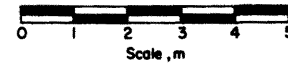


Figure 1. FLUID DYNAMICS AND DIFFUSION LABORATORY
 COLORADO STATE UNIVERSITY



PLAN



All Dimensions in m

ELEVATION

INDUSTRIAL AERODYNAMICS WIND TUNNEL

Figure 2 - Wind-Tunnel Configuration

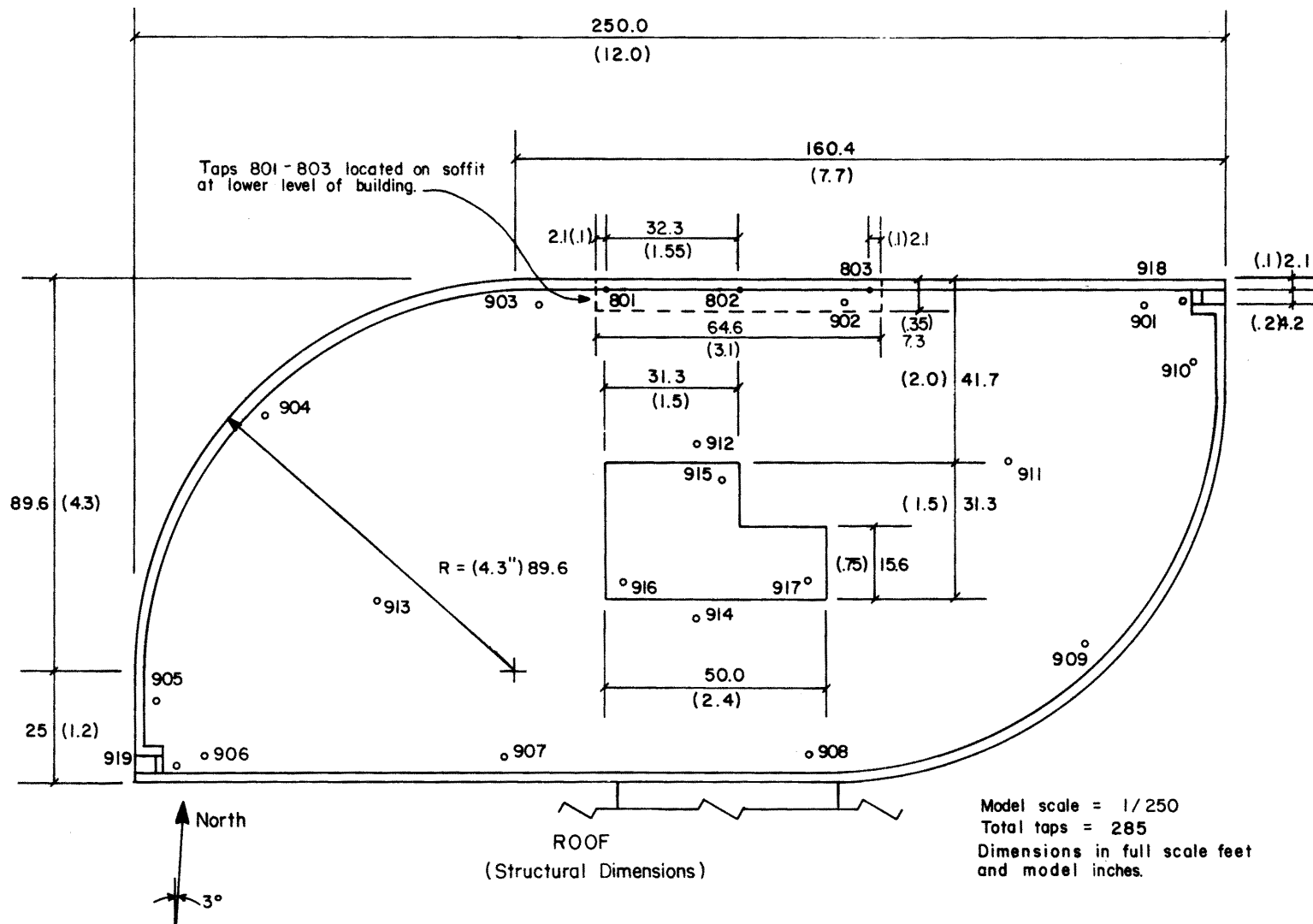
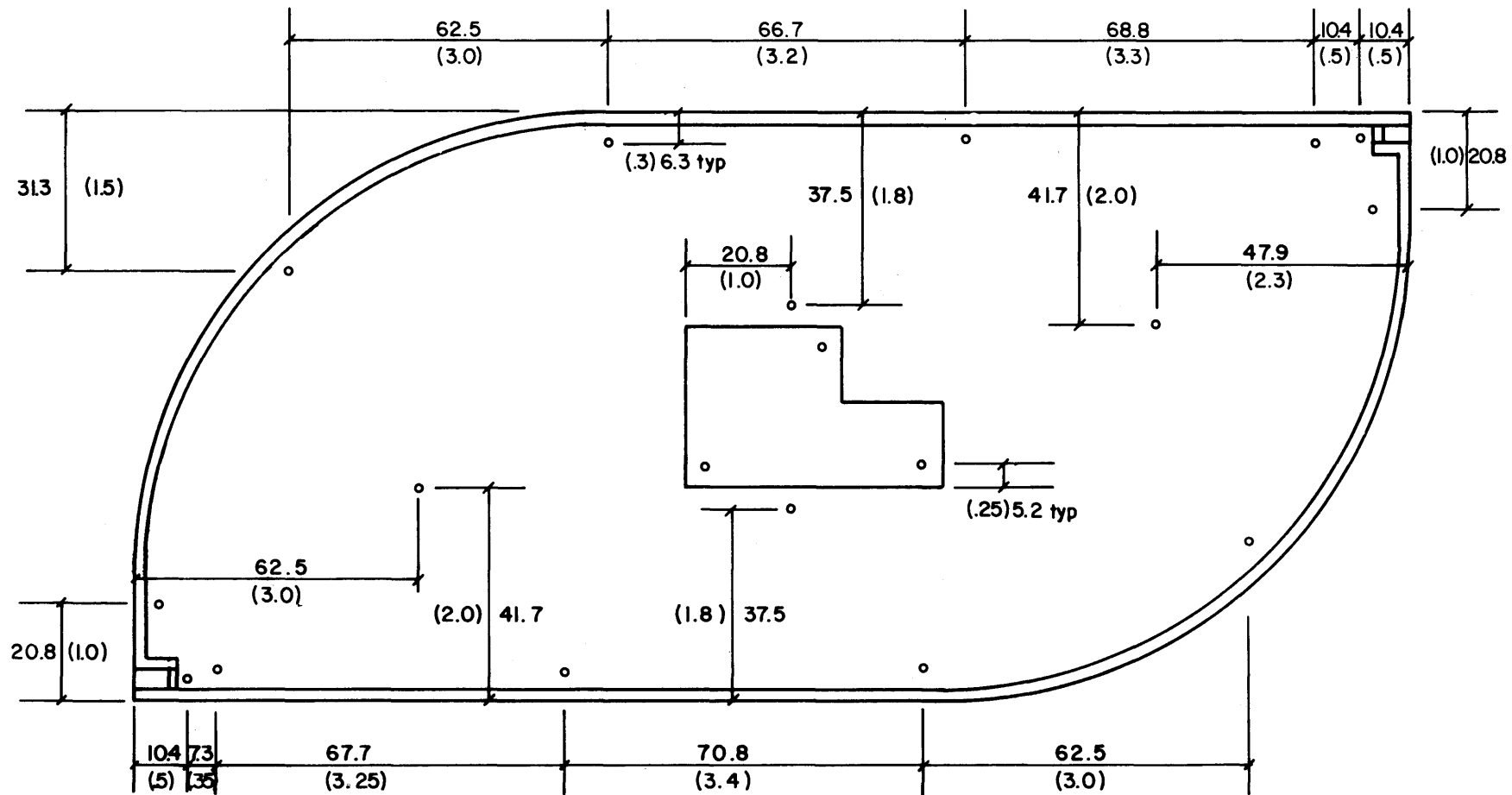


Figure 3a. Pressure Tap Locations



ROOF
(Tap Dimensions)

Figure 3b. Pressure Tap Locations

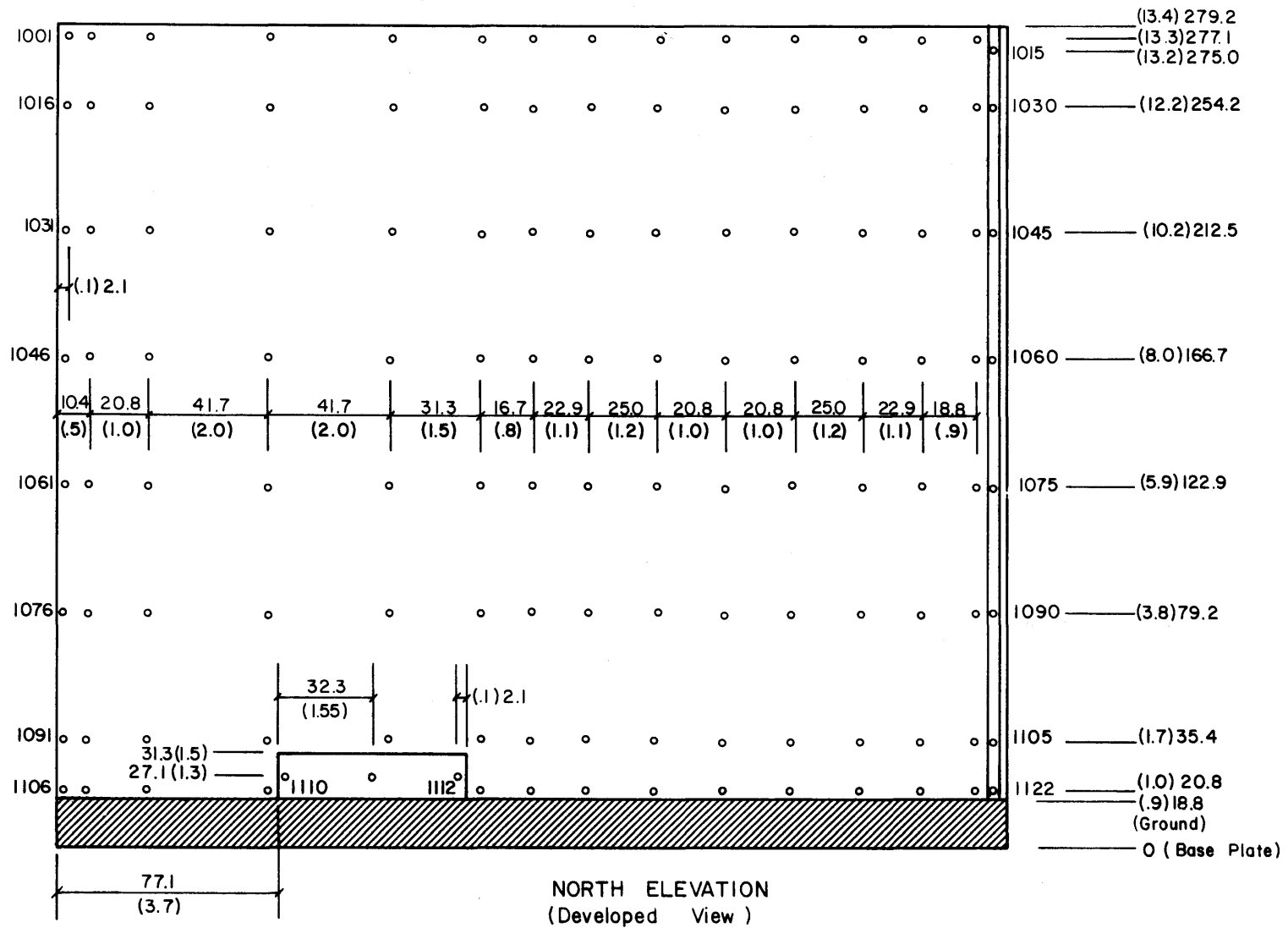


Figure 3c. Pressure Tap Locations

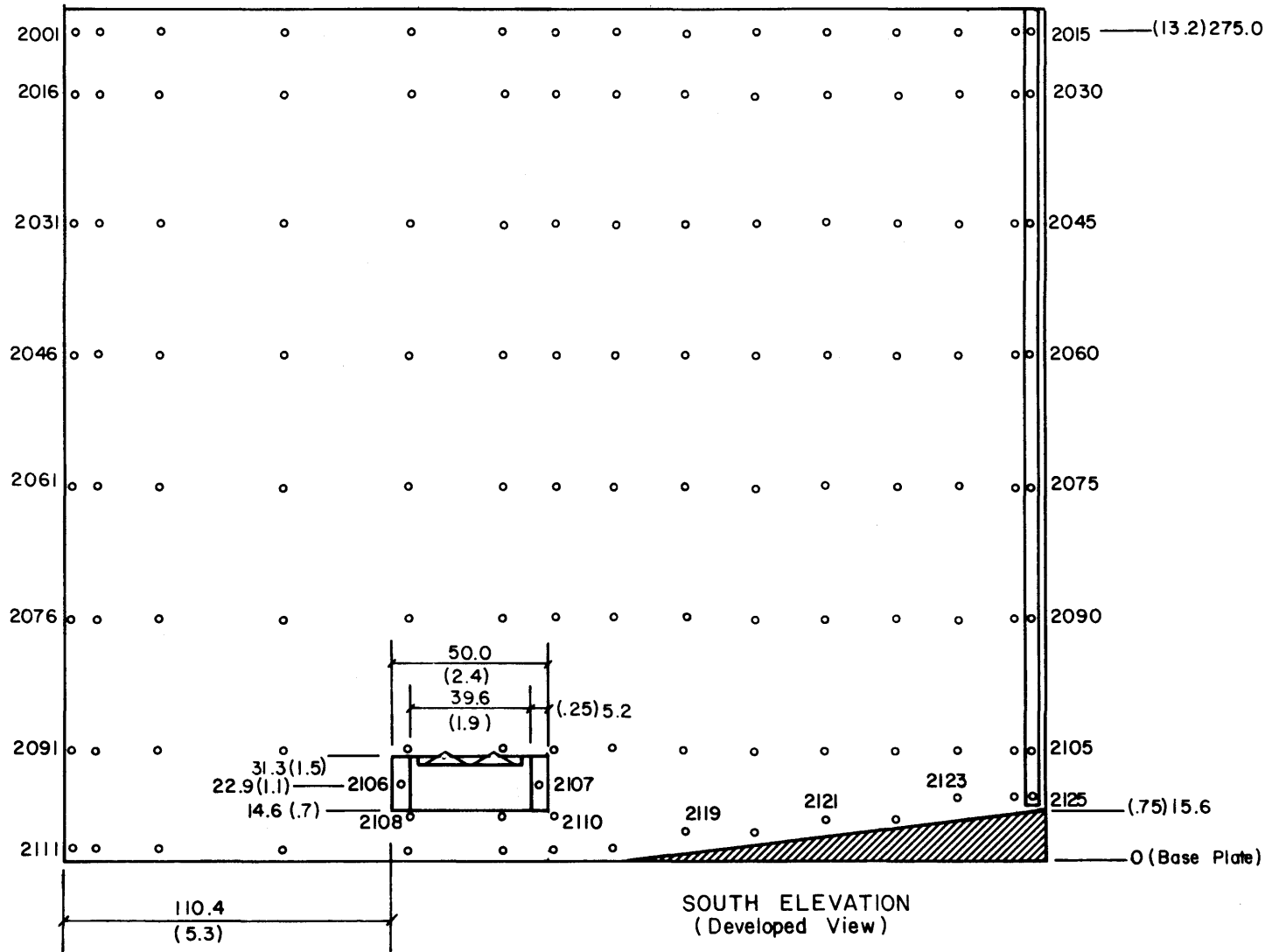
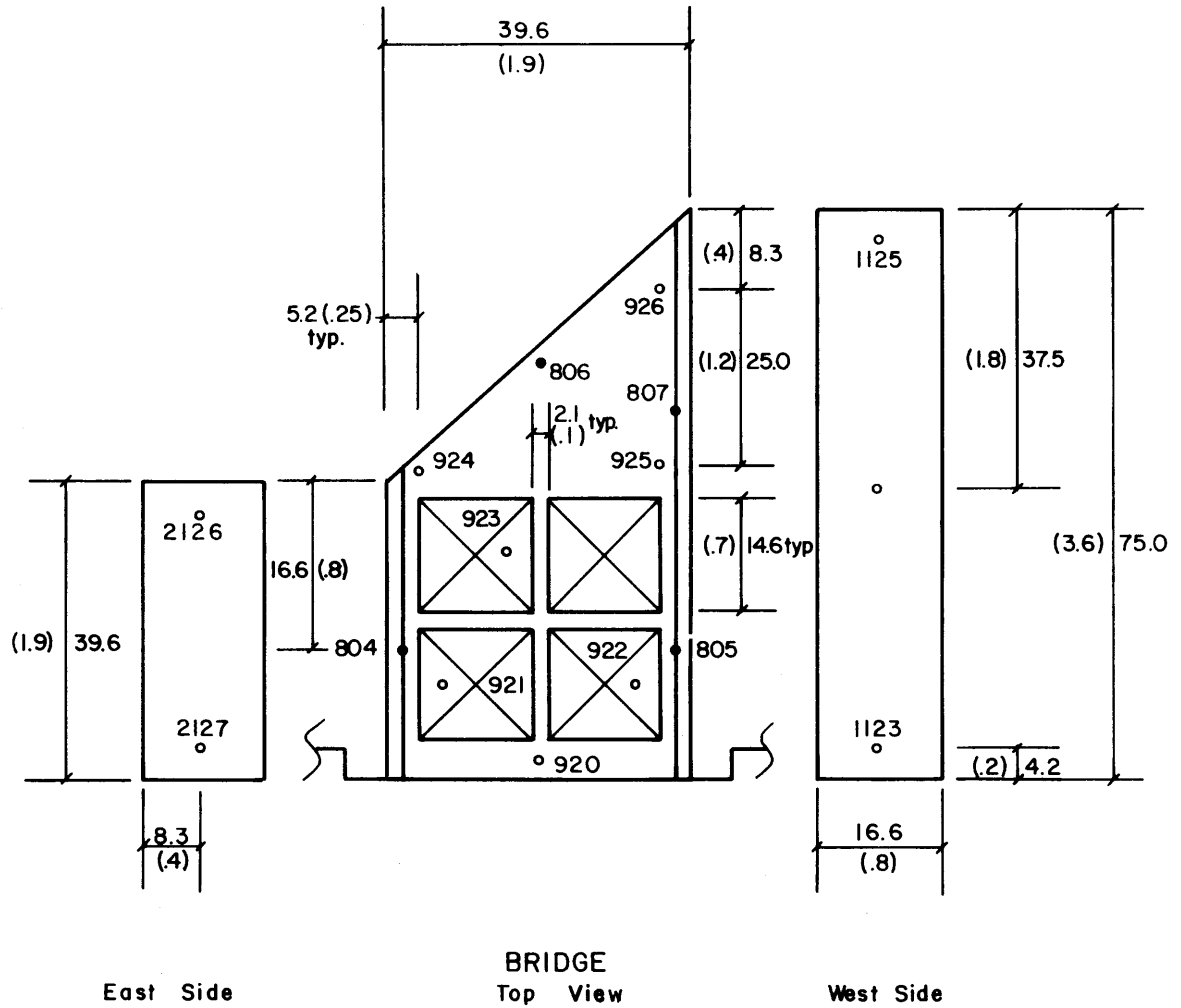


Figure 3d. Pressure Tap Locations



East Side

BRIDGE
Top View

West Side

Darkened taps represent those taps located on the bottomside of the bridge.

Figure 3e. Pressure Tap Locations

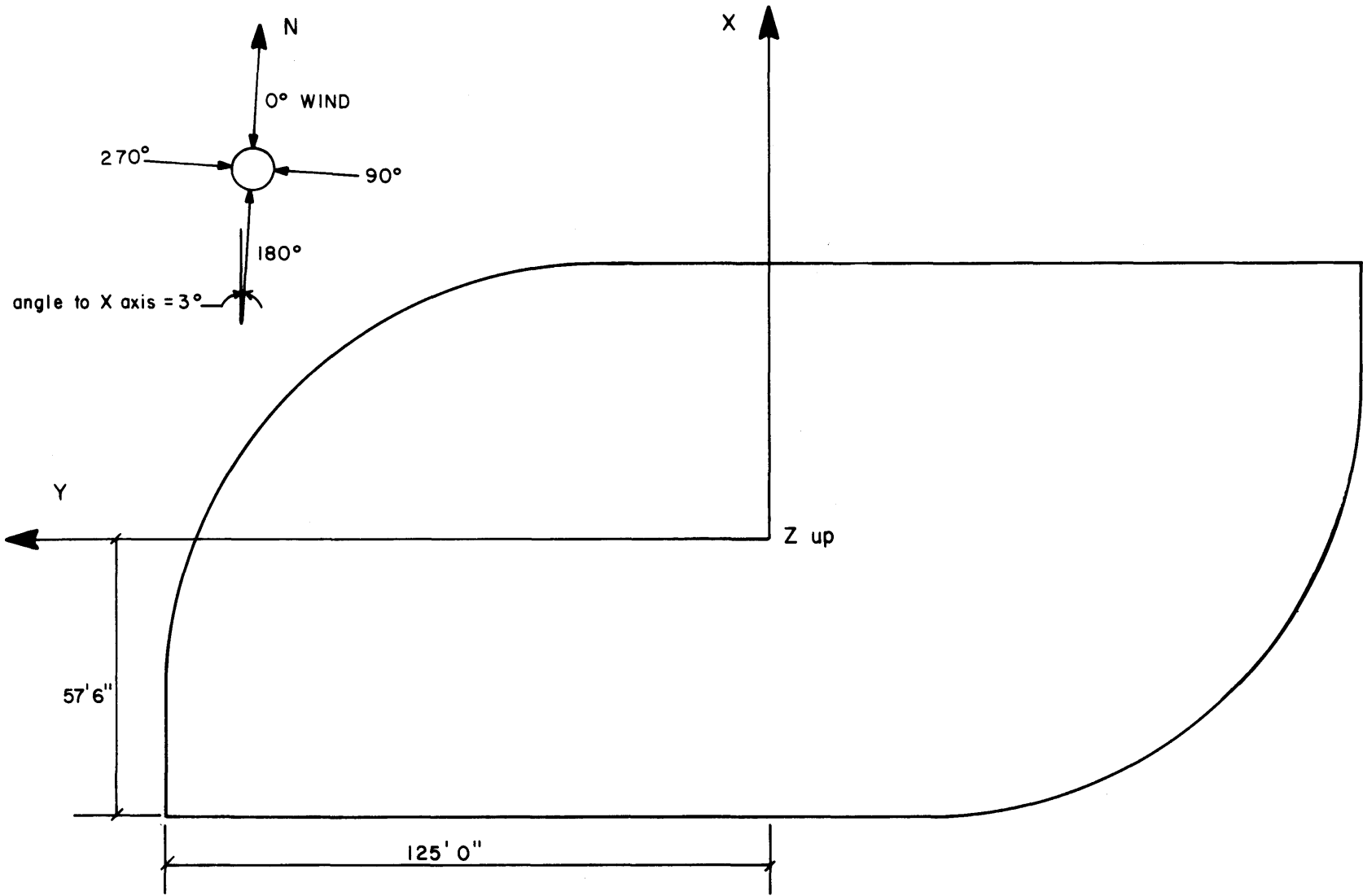


Figure 3f. Coordinate Axes for Forces and Moments

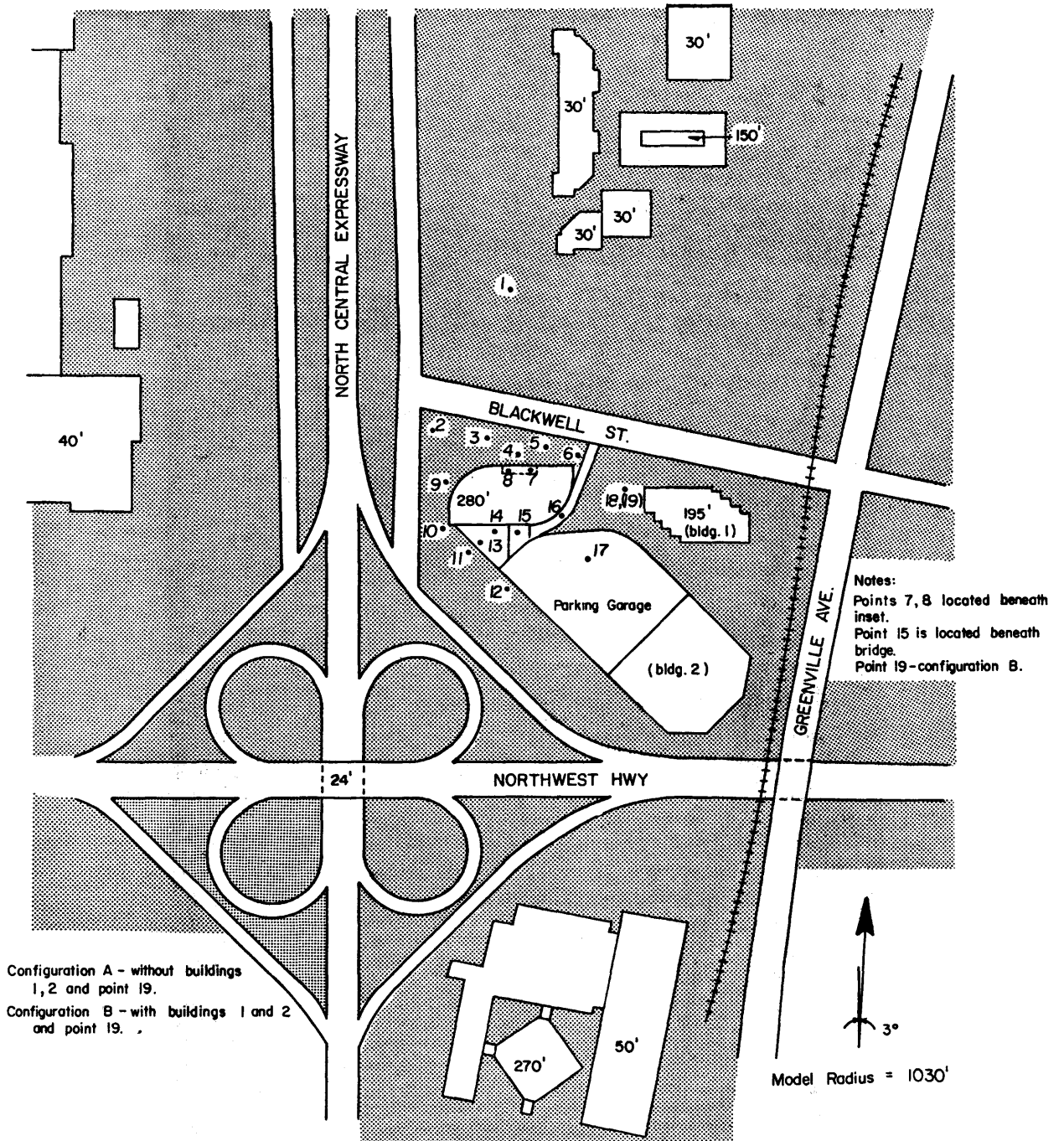
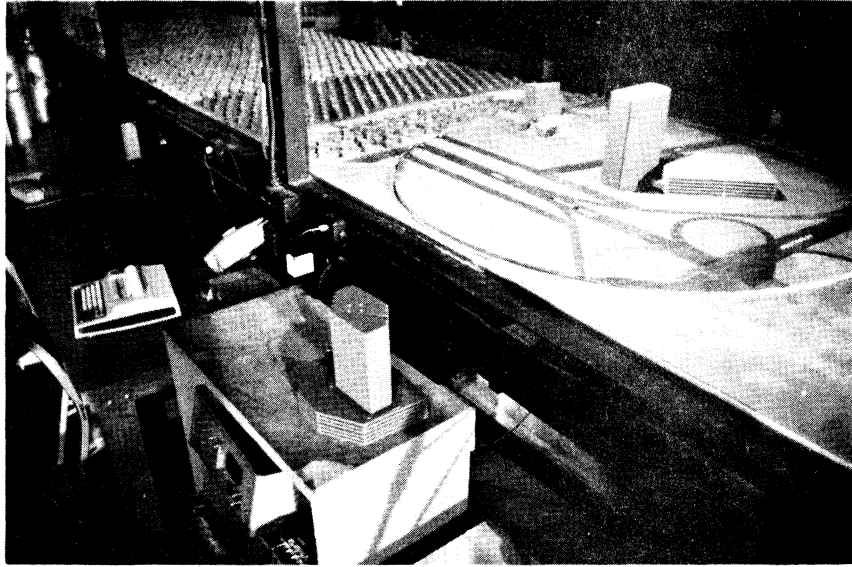
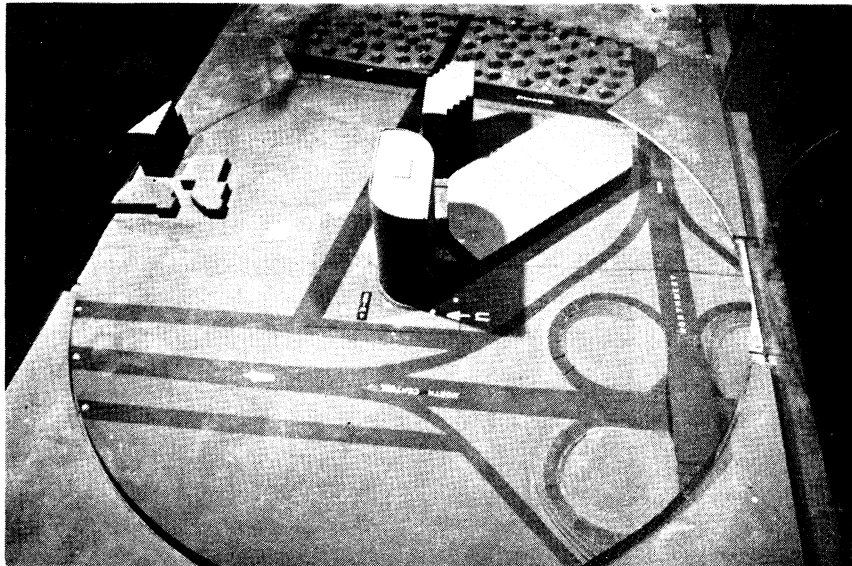


Figure 4. Building Location and Pedestrian Wind Velocity Measuring Positions



Configuration A



Configuration B

Figure 5. Completed Model in Wind Tunnel

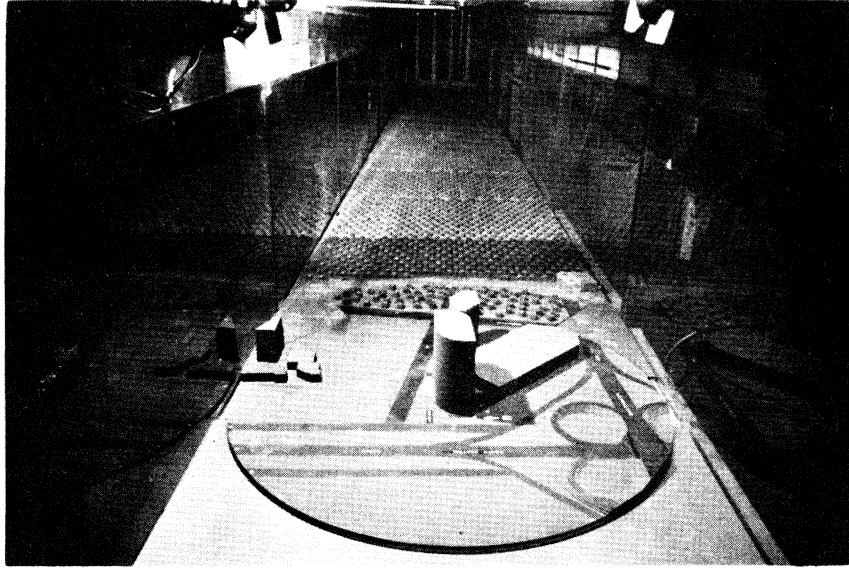


Figure 5. Completed Model in Wind Tunnel

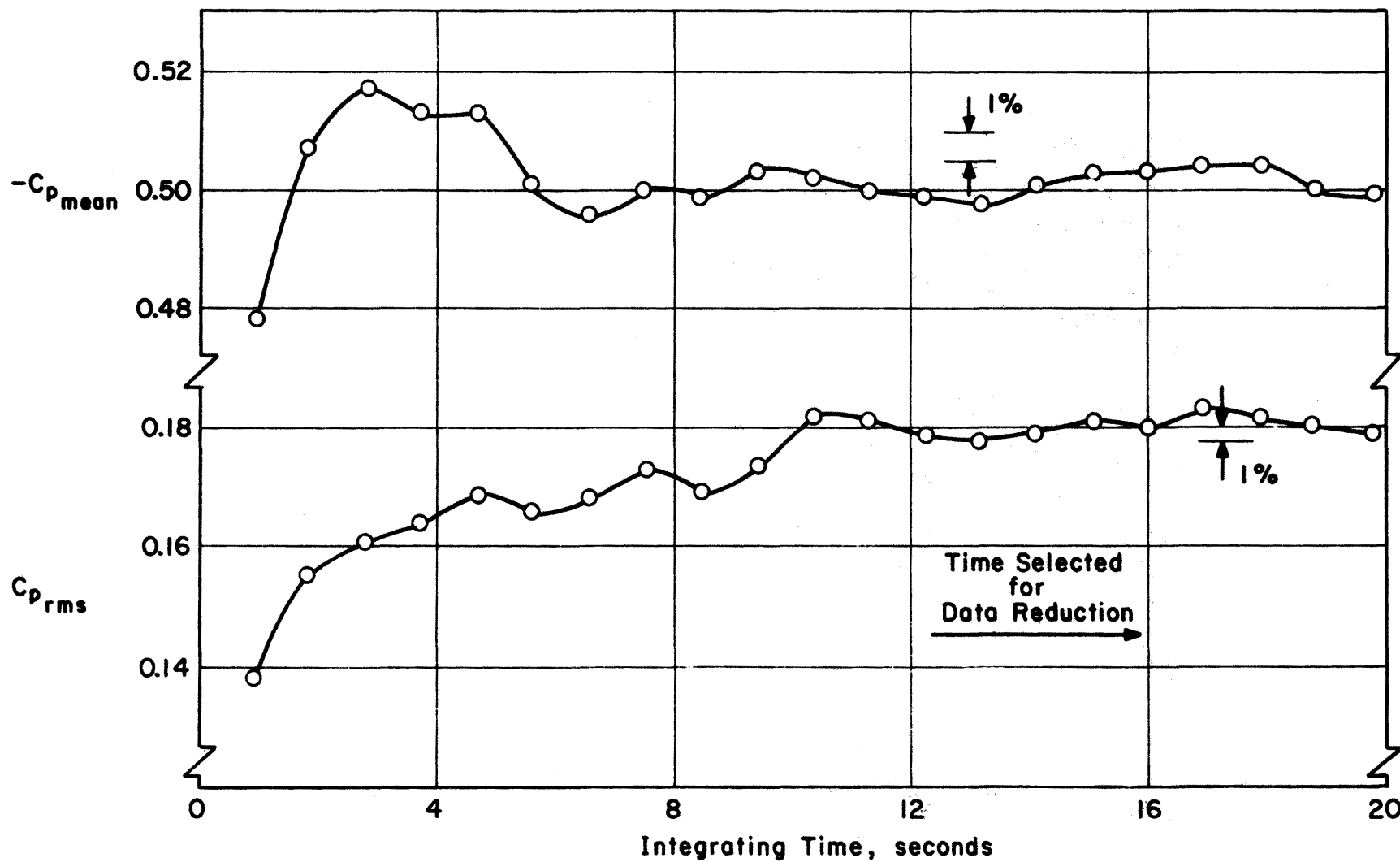


Figure 6 - Data Sampling Time Verification

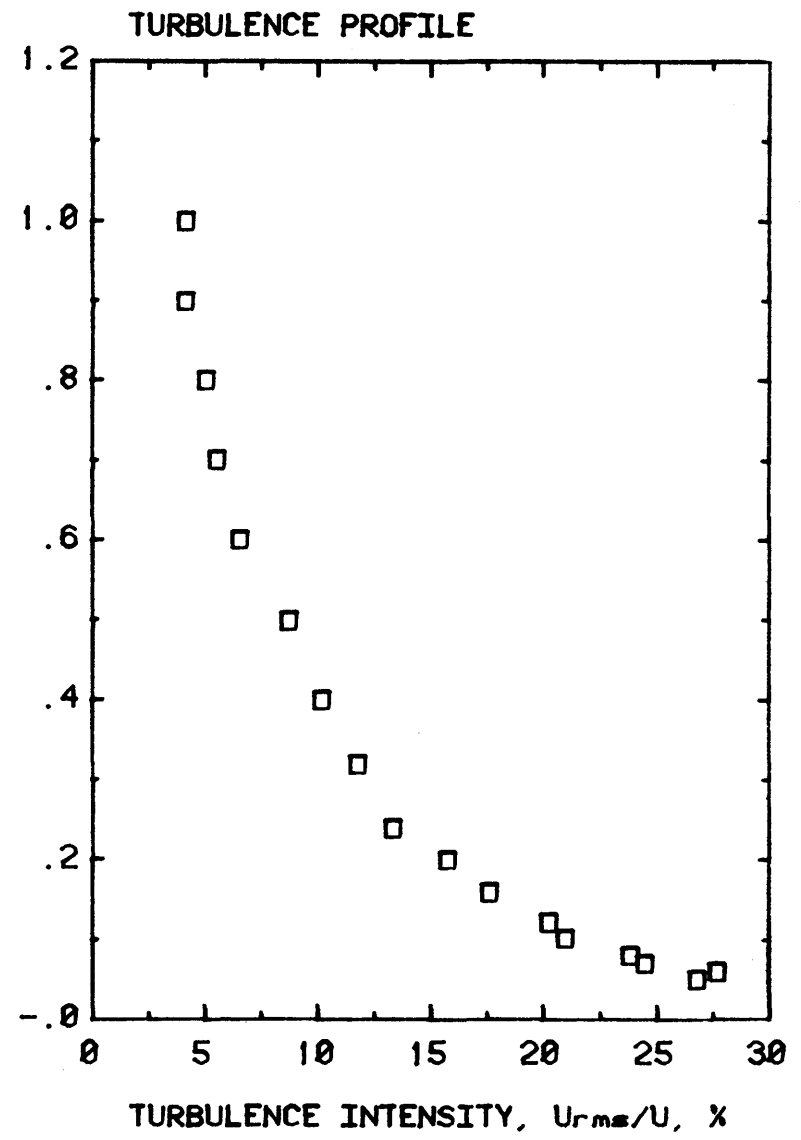
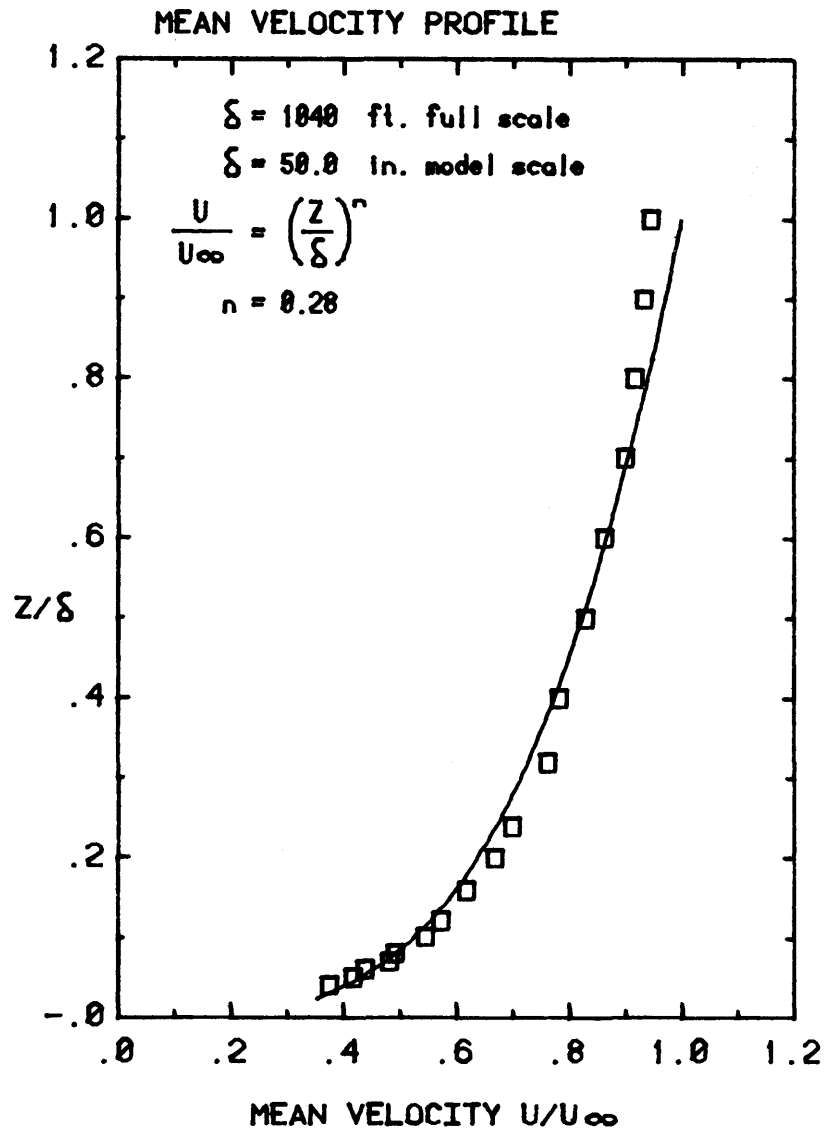


Figure 7. Mean Velocity and Turbulence Profiles Approaching the Model

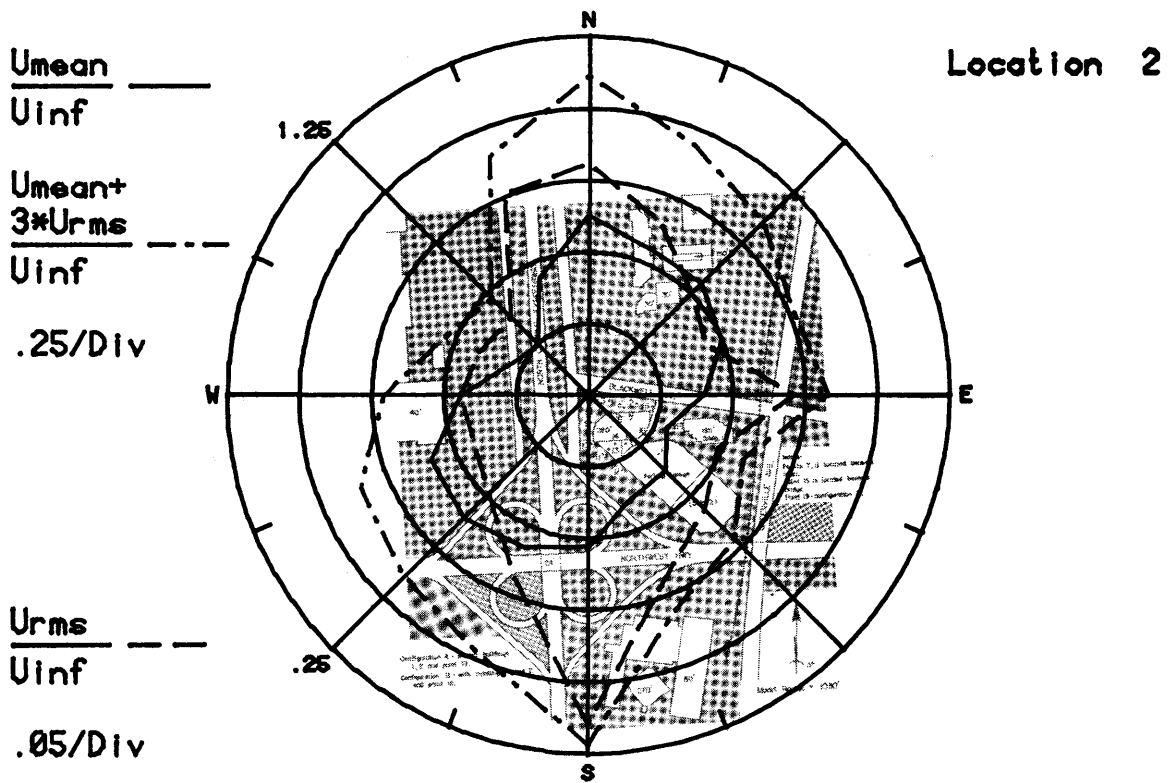
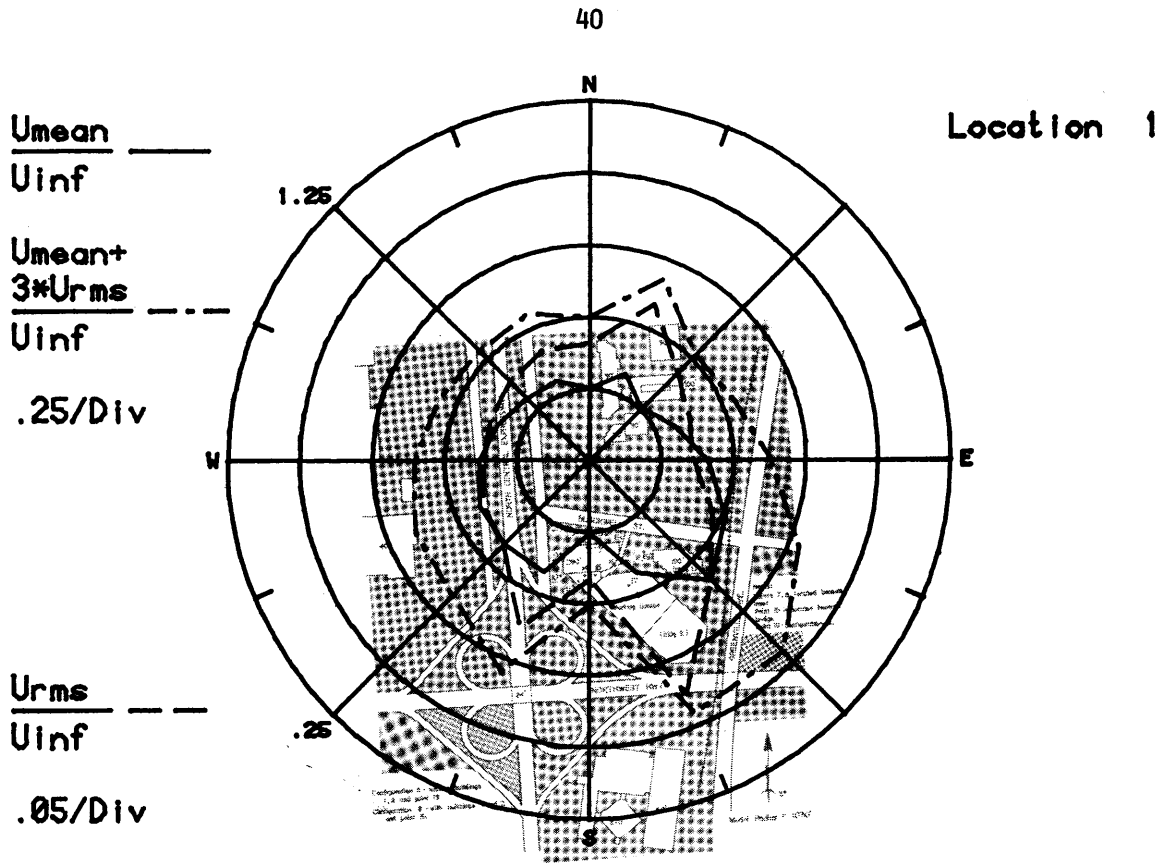


Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

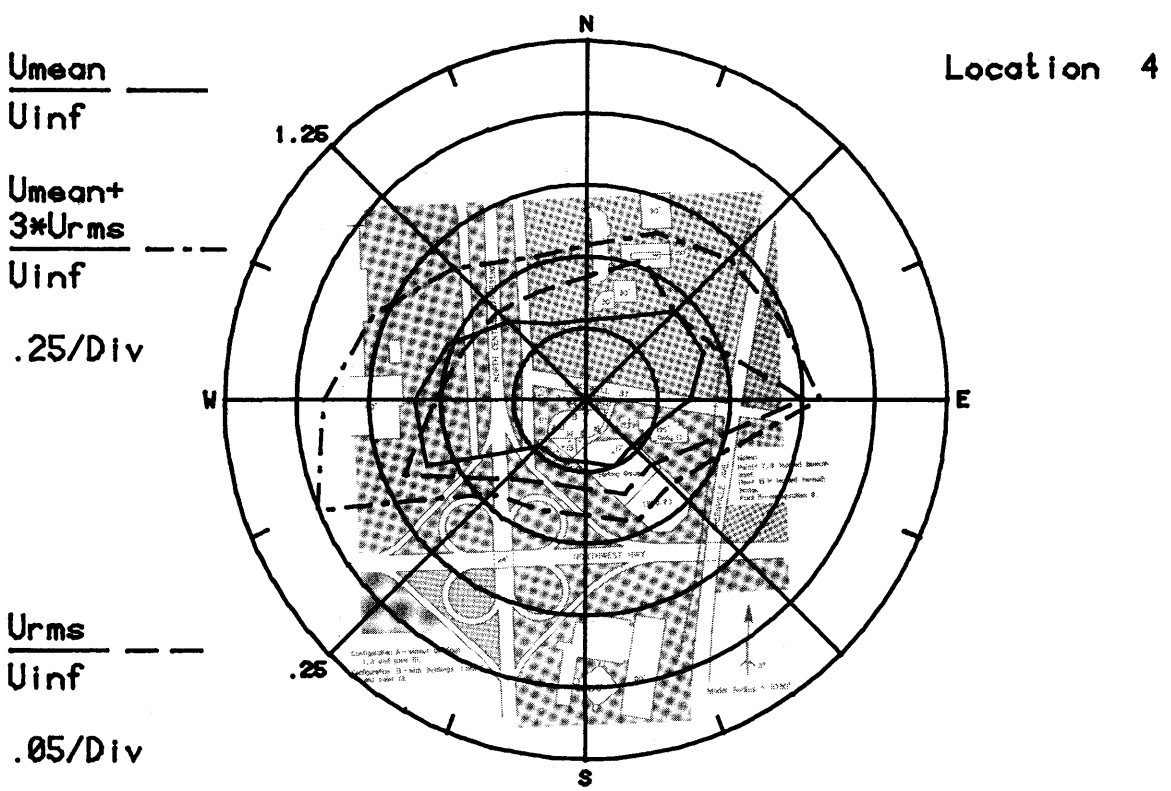
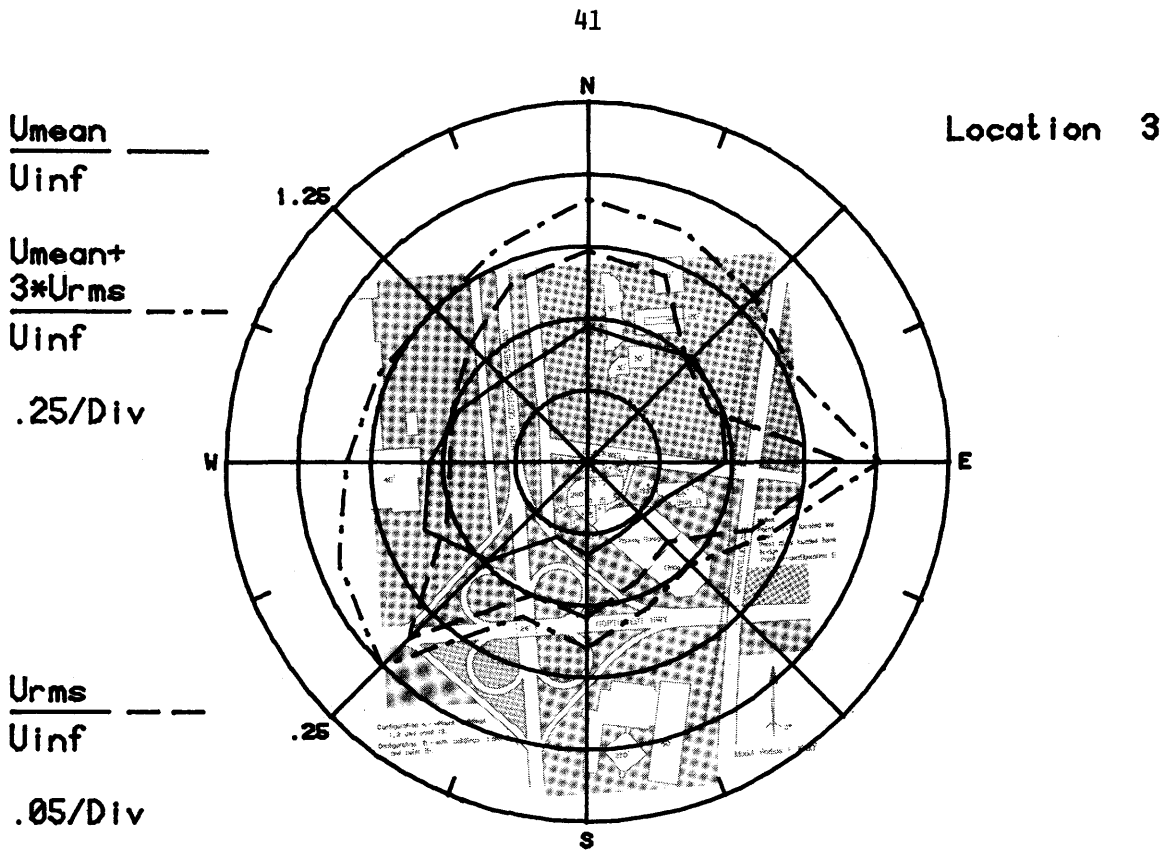


Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

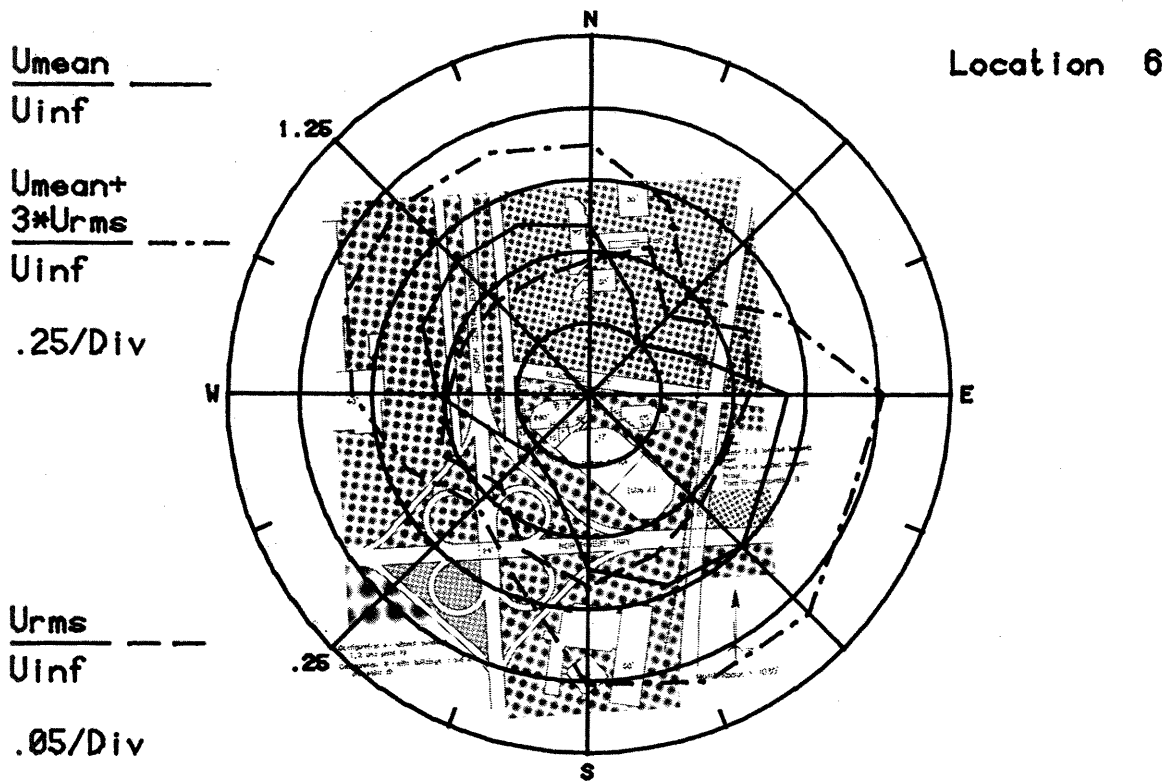
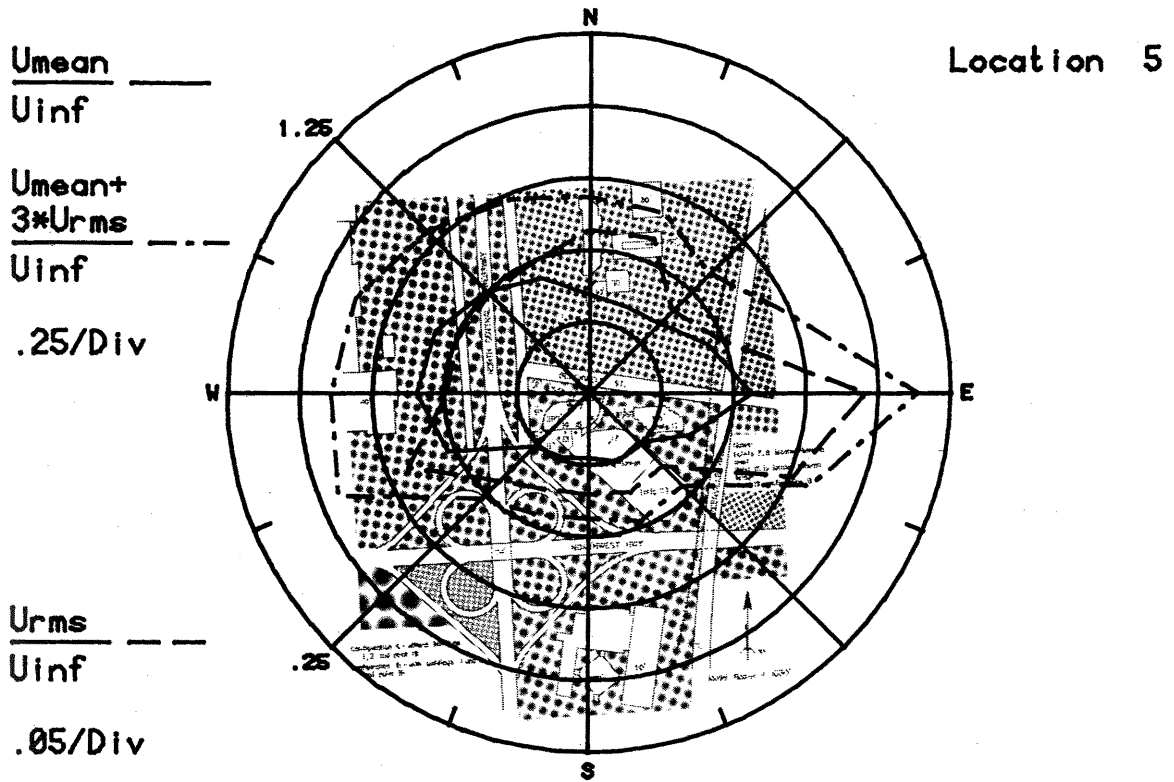


Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

43

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

1.25

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -

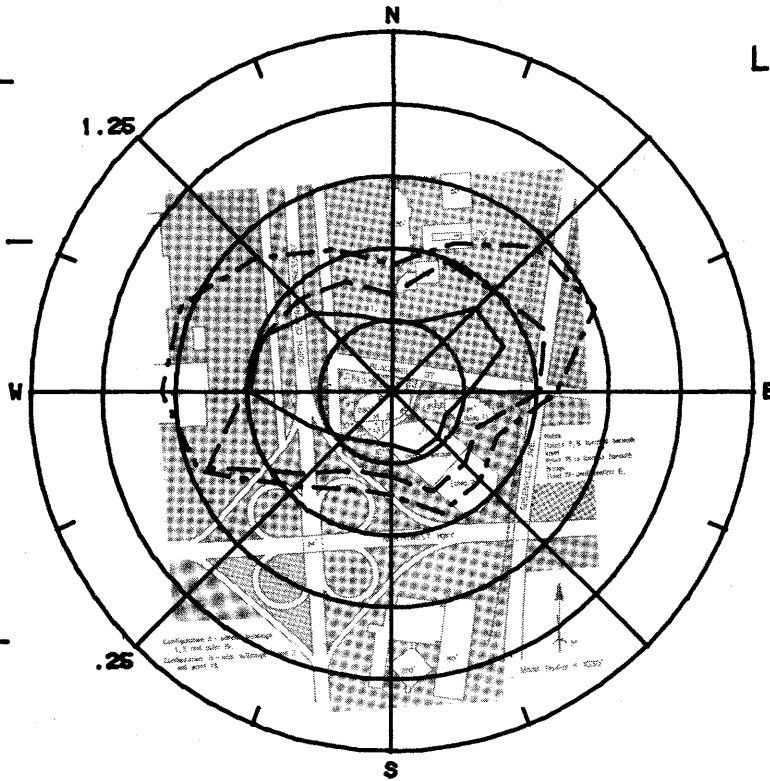
U_{inf}

.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -

U_{inf}

.05/Div



$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

1.25

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -

U_{inf}

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$\frac{U_{rms}}{U_{inf}}$ - - - -

U_{inf}

.05/Div

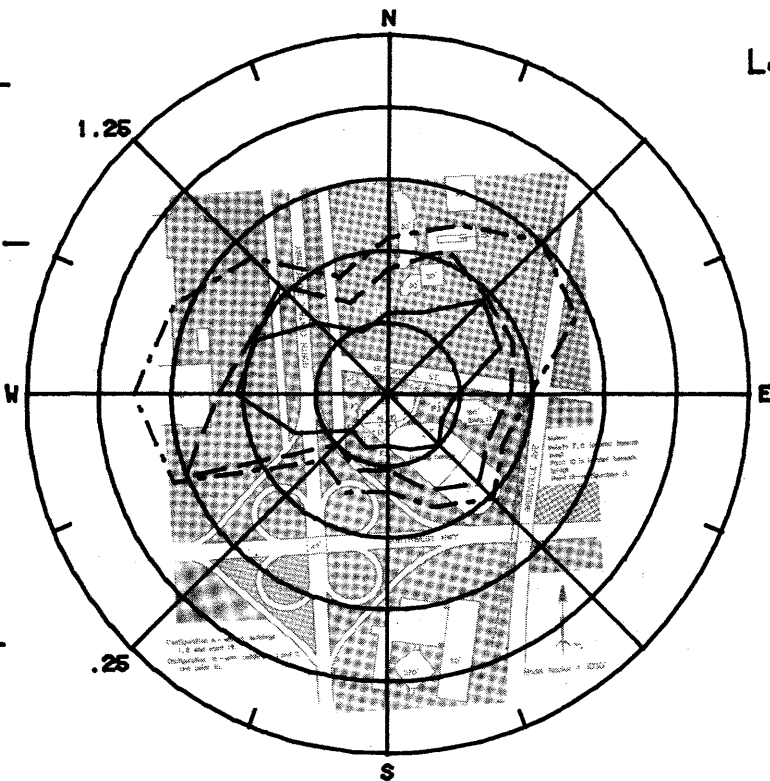
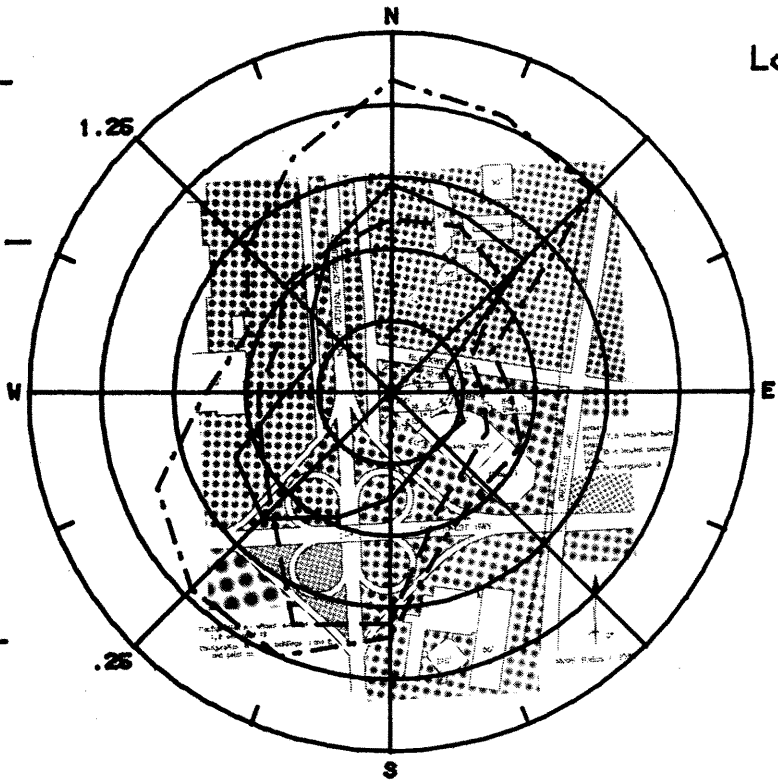


Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - -
 .25/Div

 $\frac{U_{rms}}{U_{inf}}$ - - -
 .05/Div

Location 9



$\frac{U_{mean}}{U_{inf}}$ ———
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 .25/Div

 $\frac{U_{rms}}{U_{inf}}$ - - -
 .05/Div

Location 10

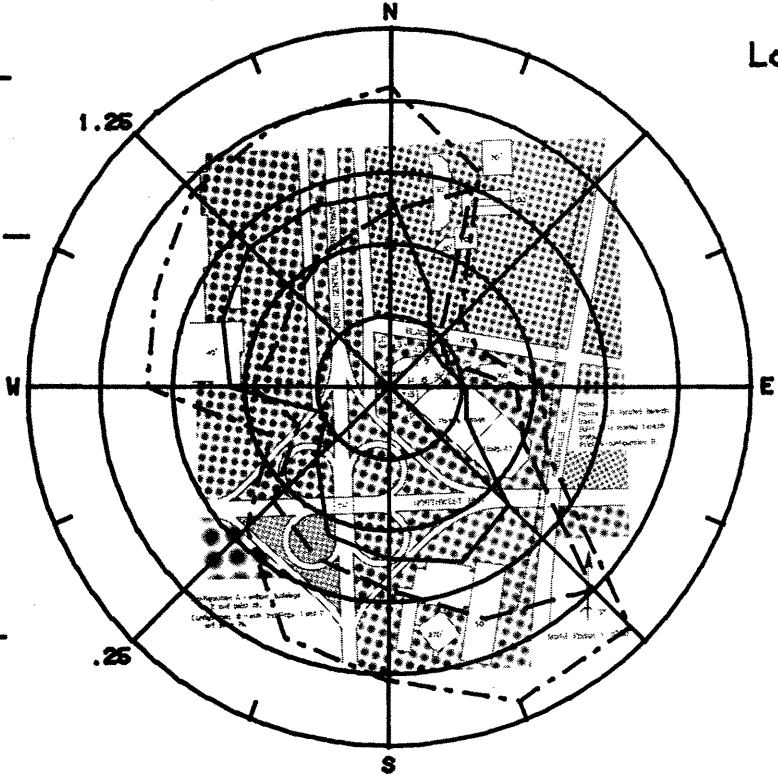


Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

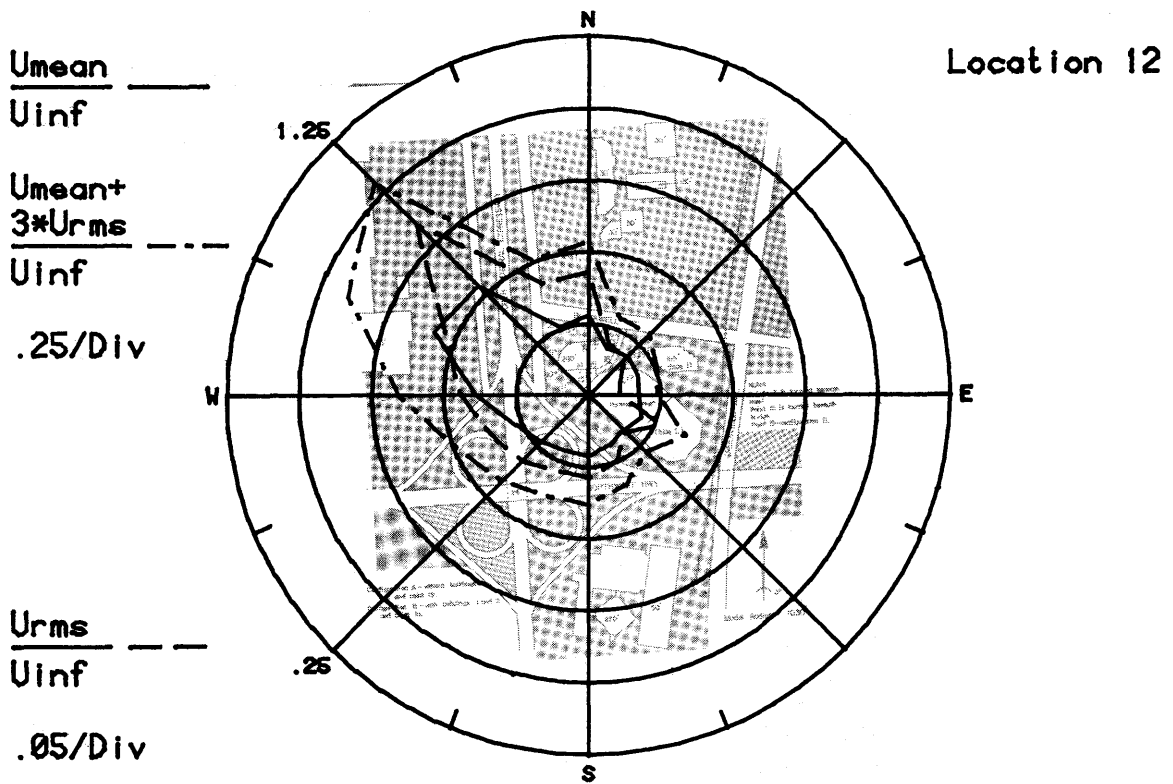
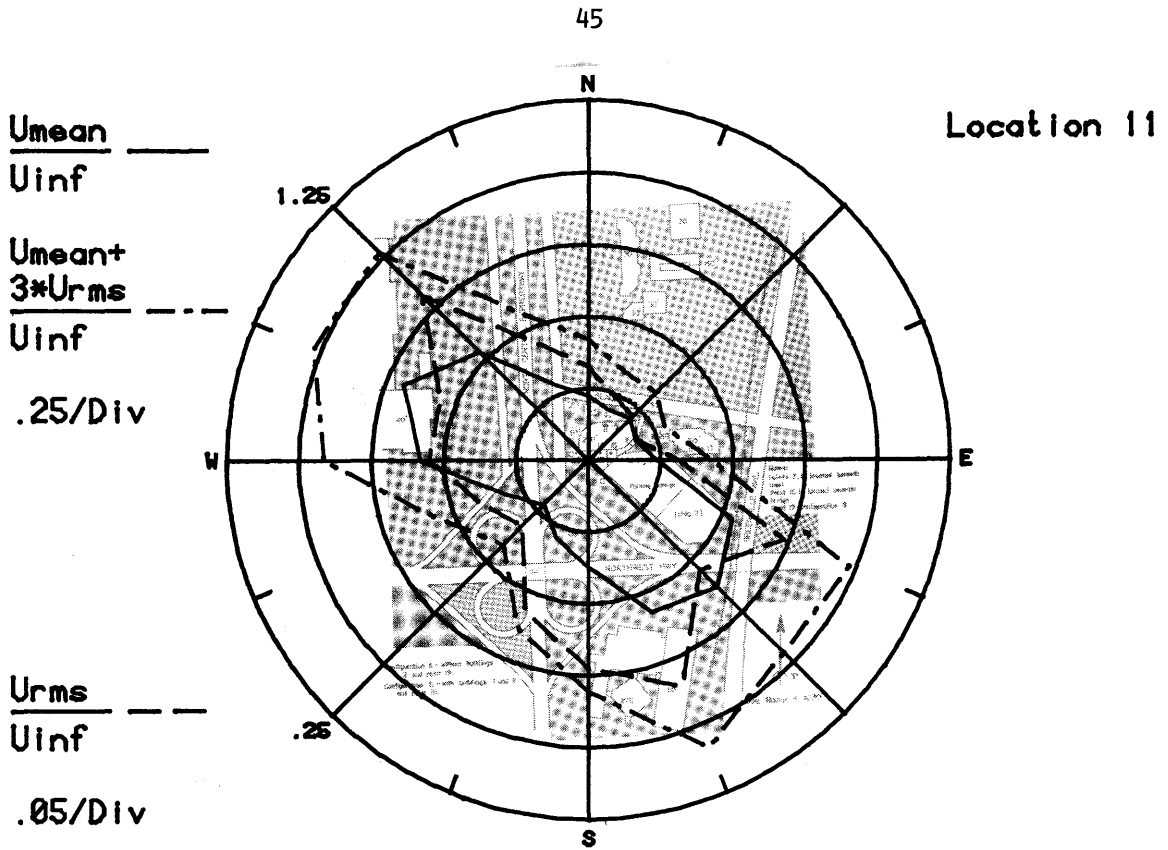
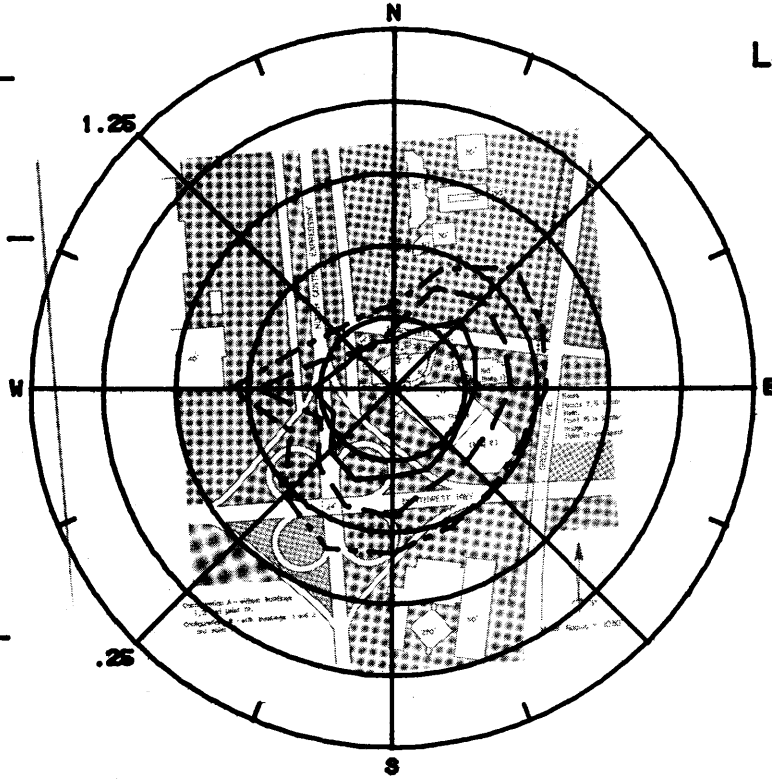


Figure 8f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -

Location 13

$\frac{U_{rms}}{U_{inf}}$ - - - -
 .25/Div

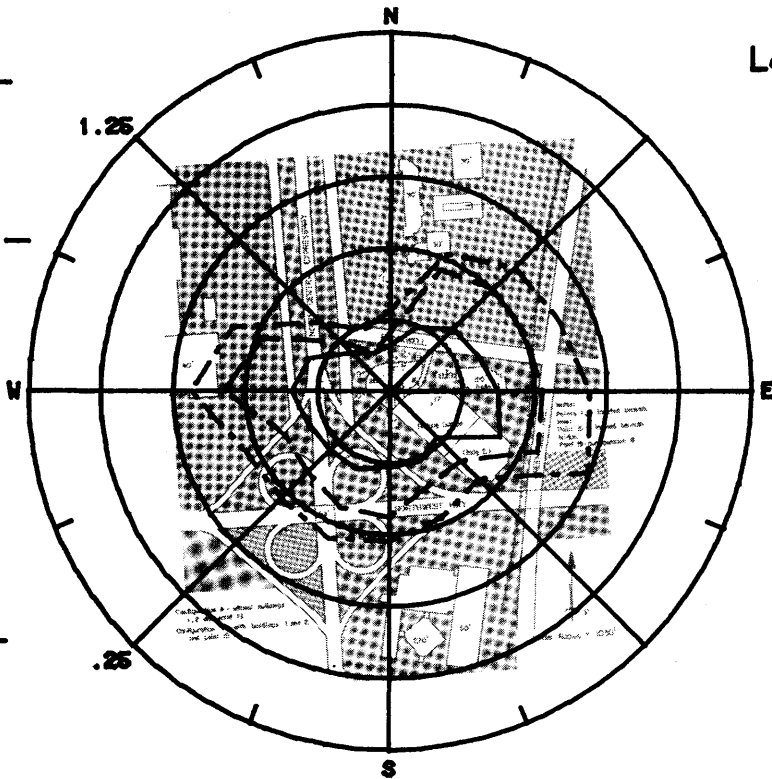


$\frac{U_{rms}}{U_{inf}}$ - - - -
 .05/Div

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -

Location 14

$\frac{U_{rms}}{U_{inf}}$ - - - -
 .25/Div



$\frac{U_{rms}}{U_{inf}}$ - - - -
 .05/Div

Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

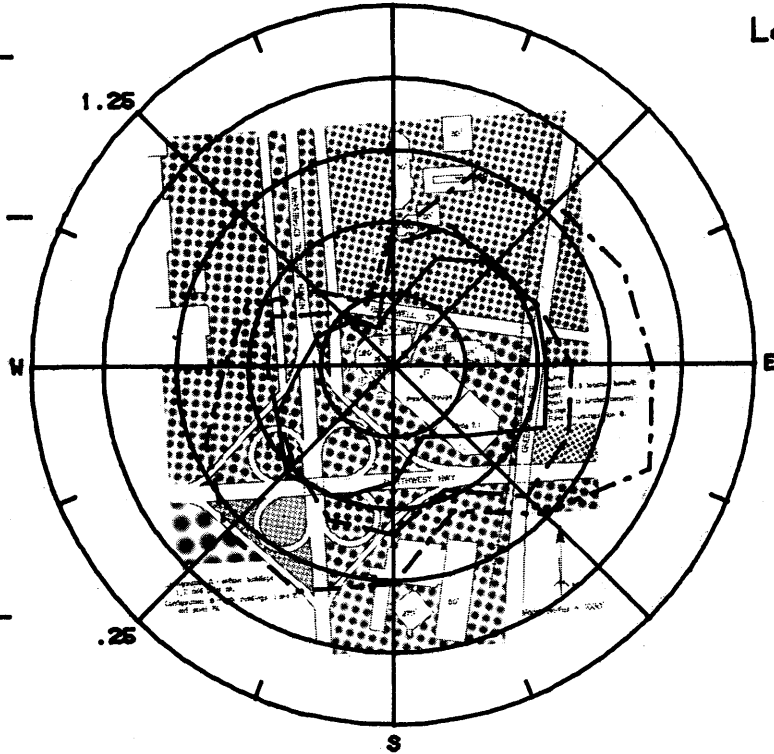
47

Location 15

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - -

$\frac{U_{rms}}{U_{inf}}$ - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - -
.05/Div



Location 16

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - -

$\frac{U_{rms}}{U_{inf}}$ - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - -
.05/Div

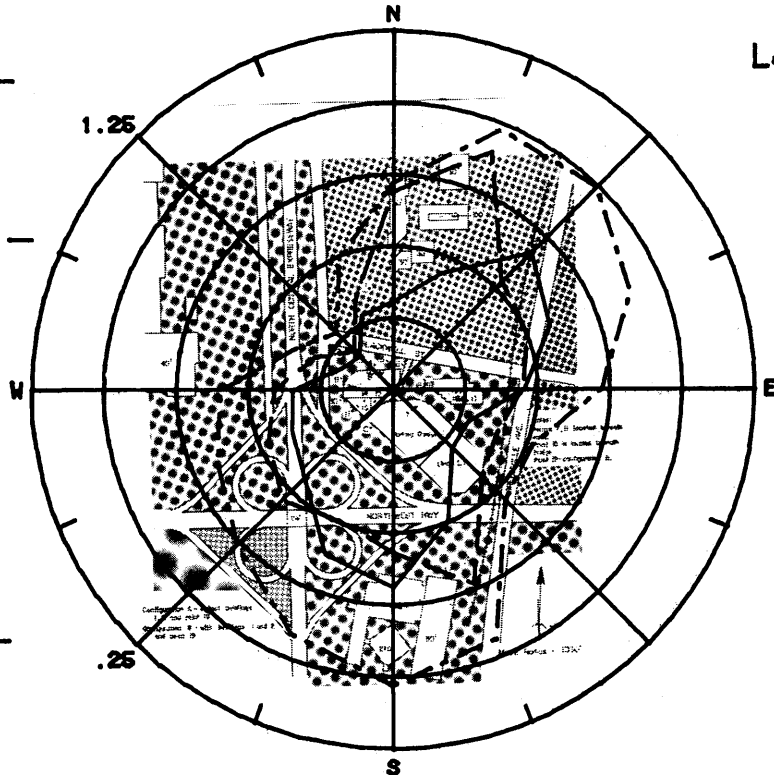


Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

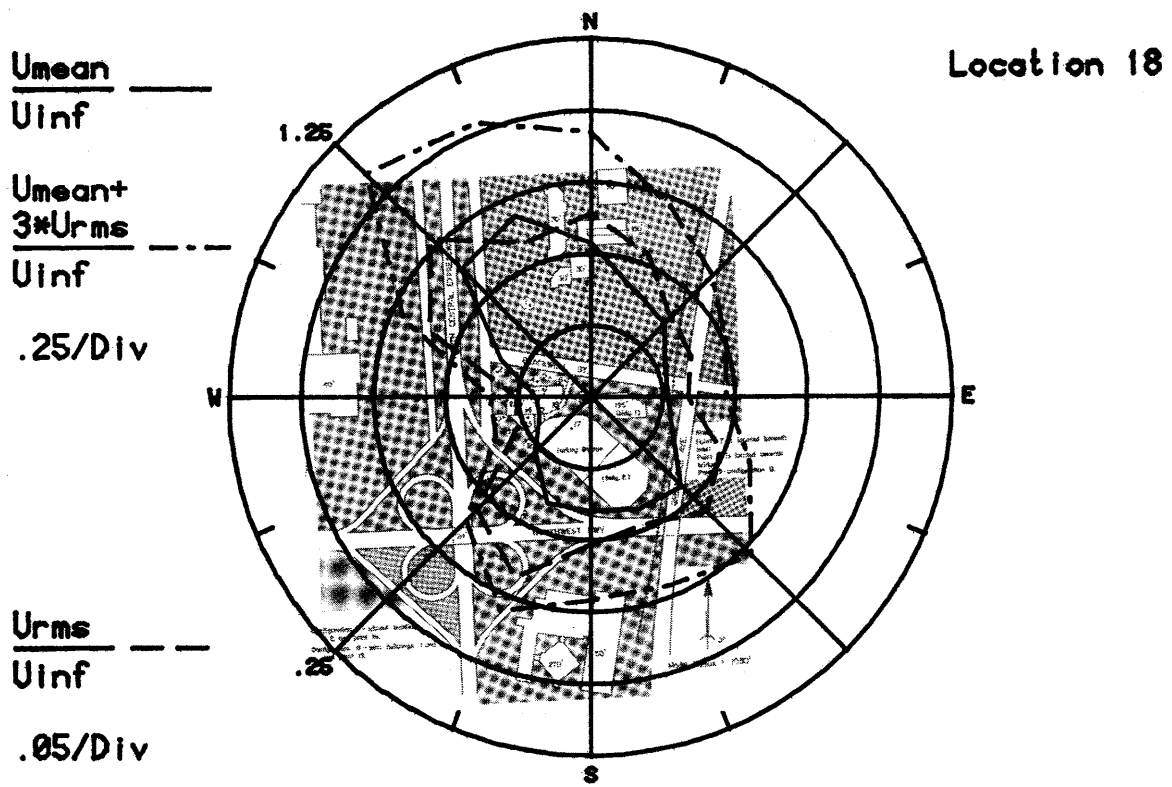
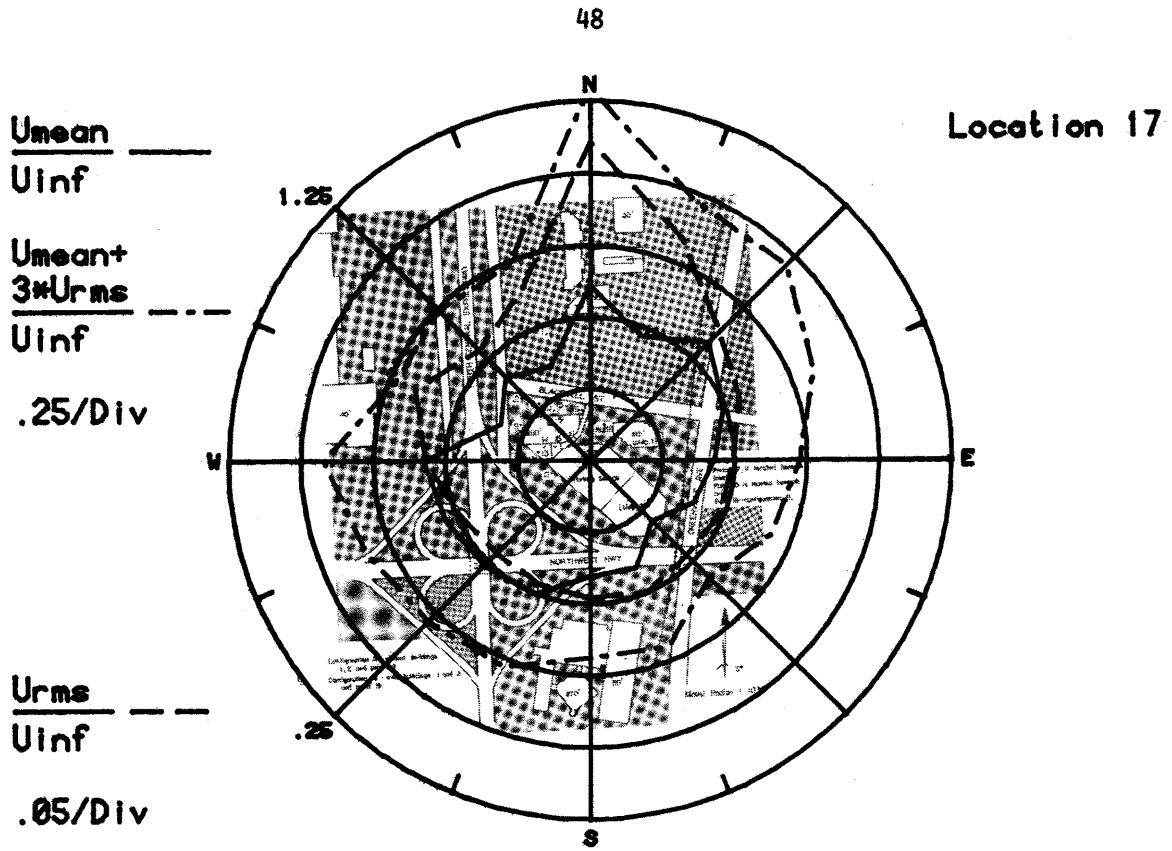


Figure 8i. Mean Velocities and Turbulence Intensities at Pedestrian Locations 17 and 18

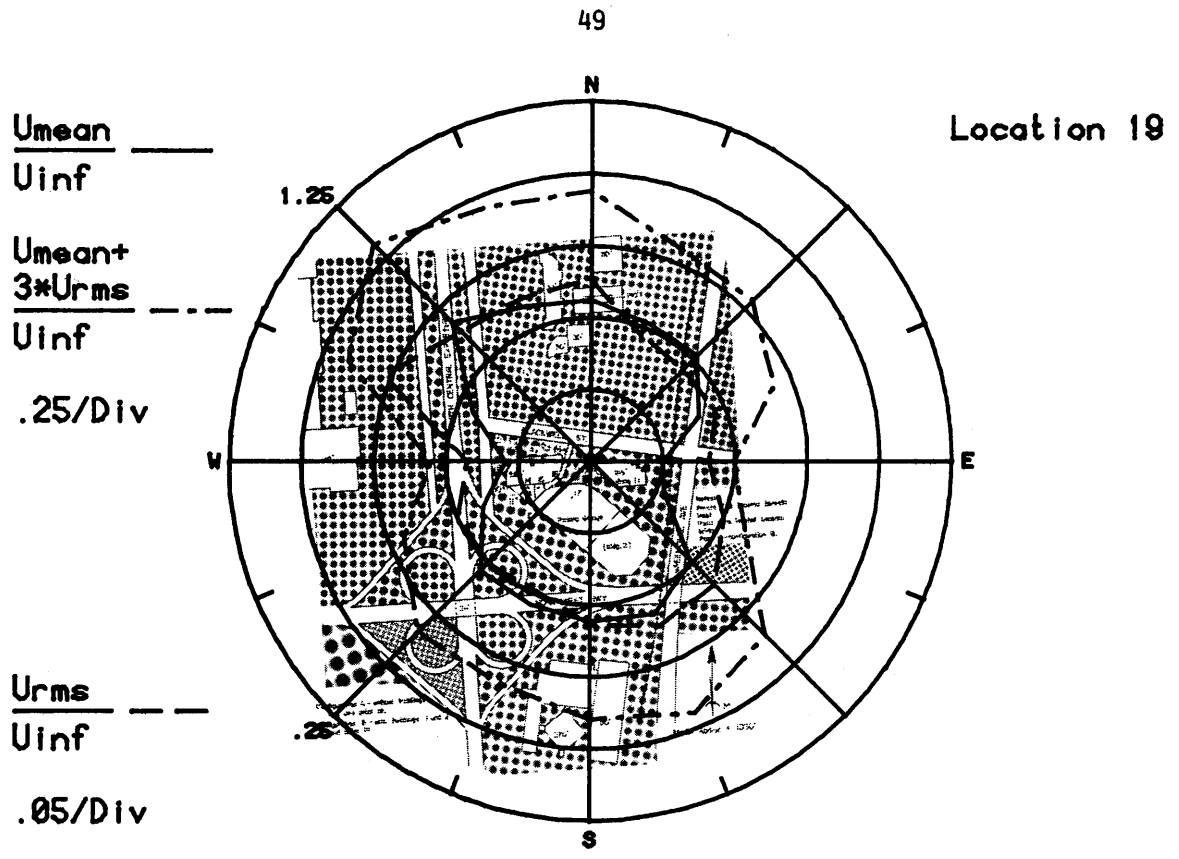


Figure 8j. Mean Velocities and Turbulence Intensities at Pedestrian Location 19

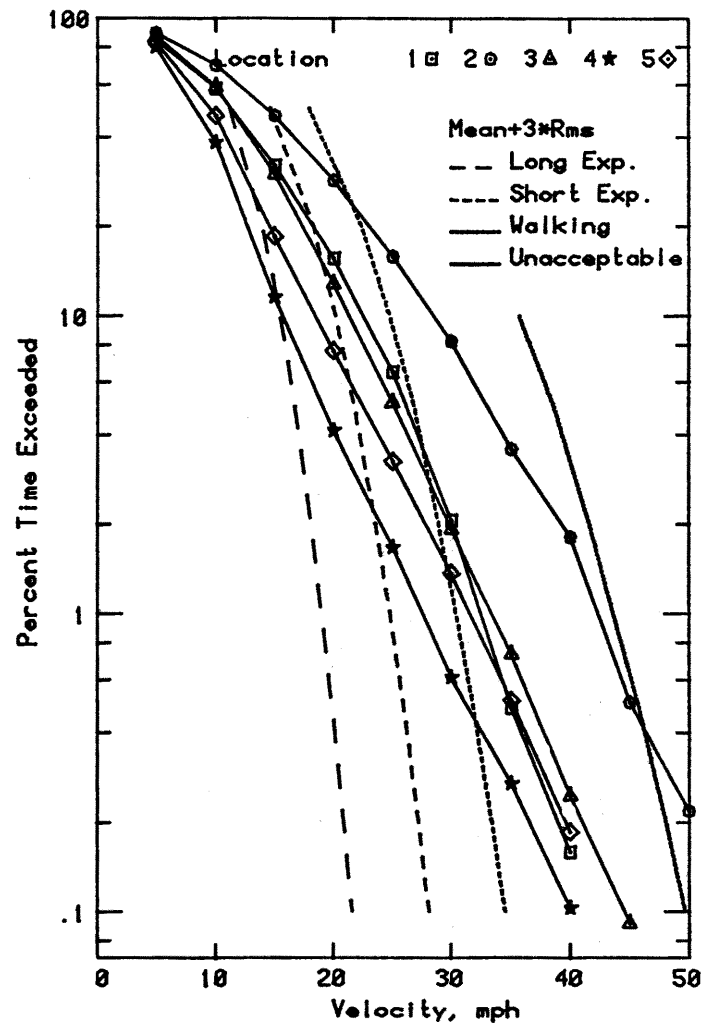
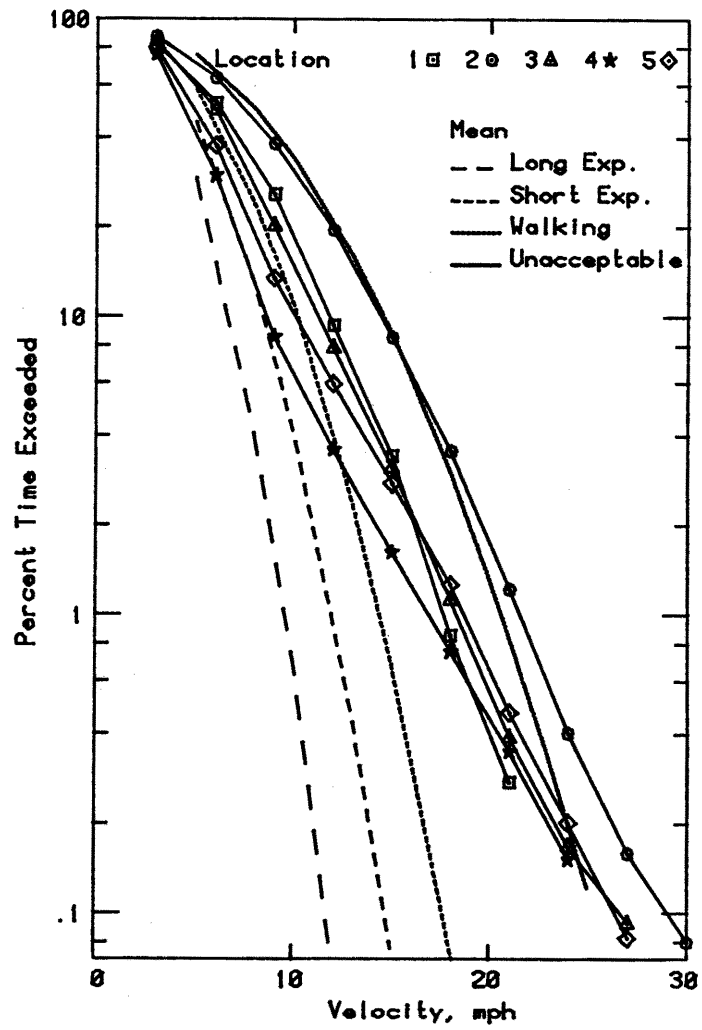


Figure 9a. Wind Velocity Probabilities for Pedestrian Locations

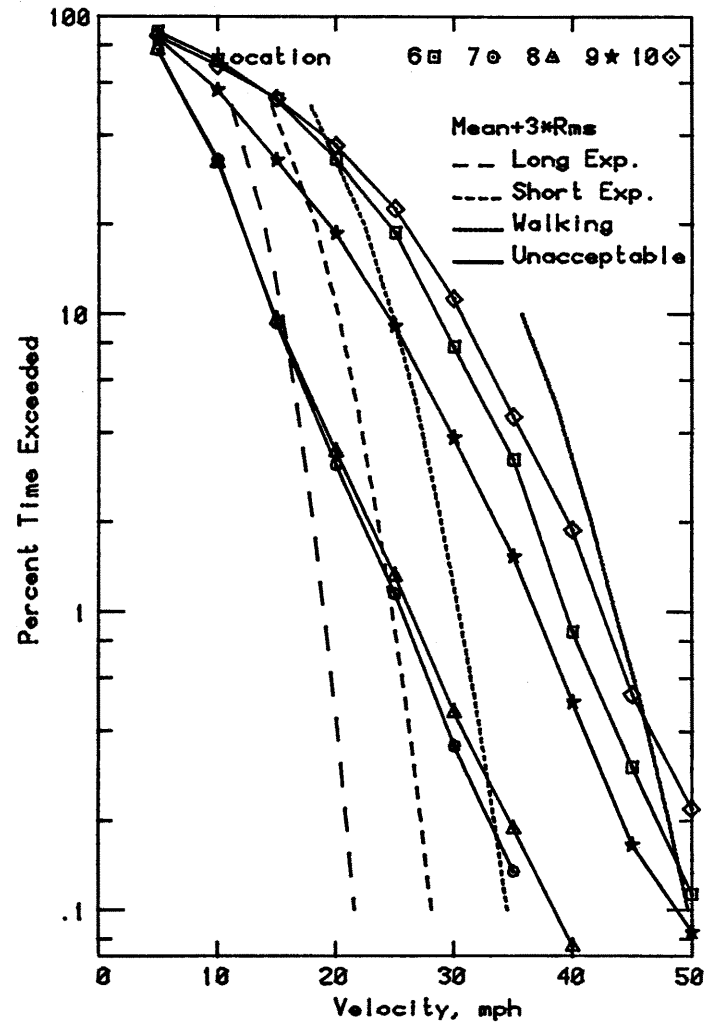
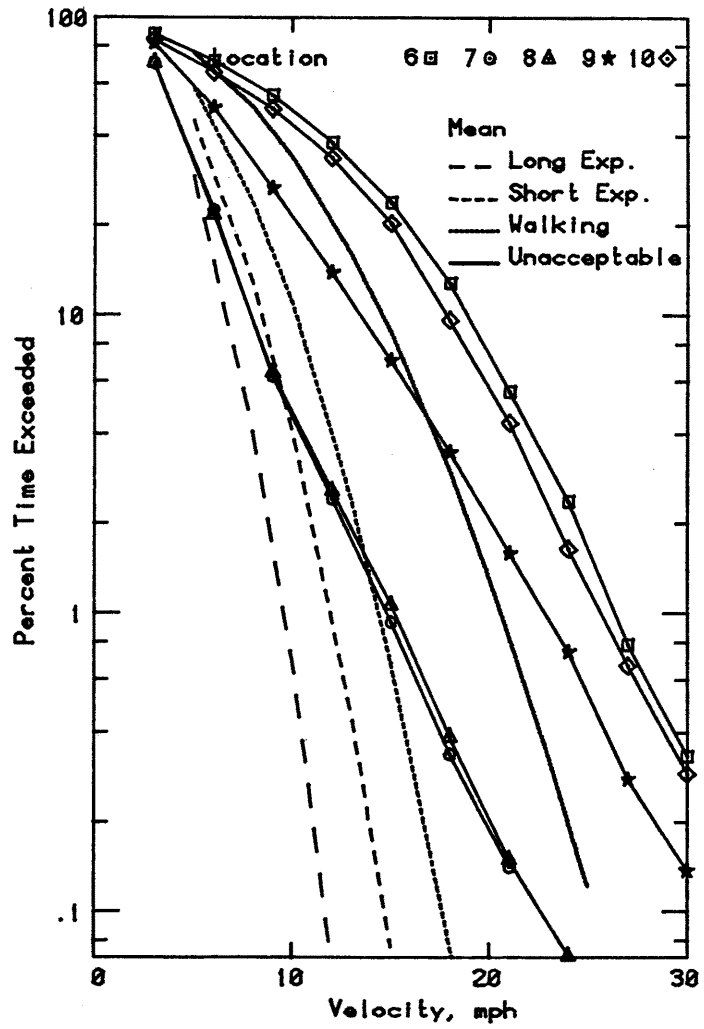


Figure 9b. Wind Velocity Probabilities for Pedestrian Locations

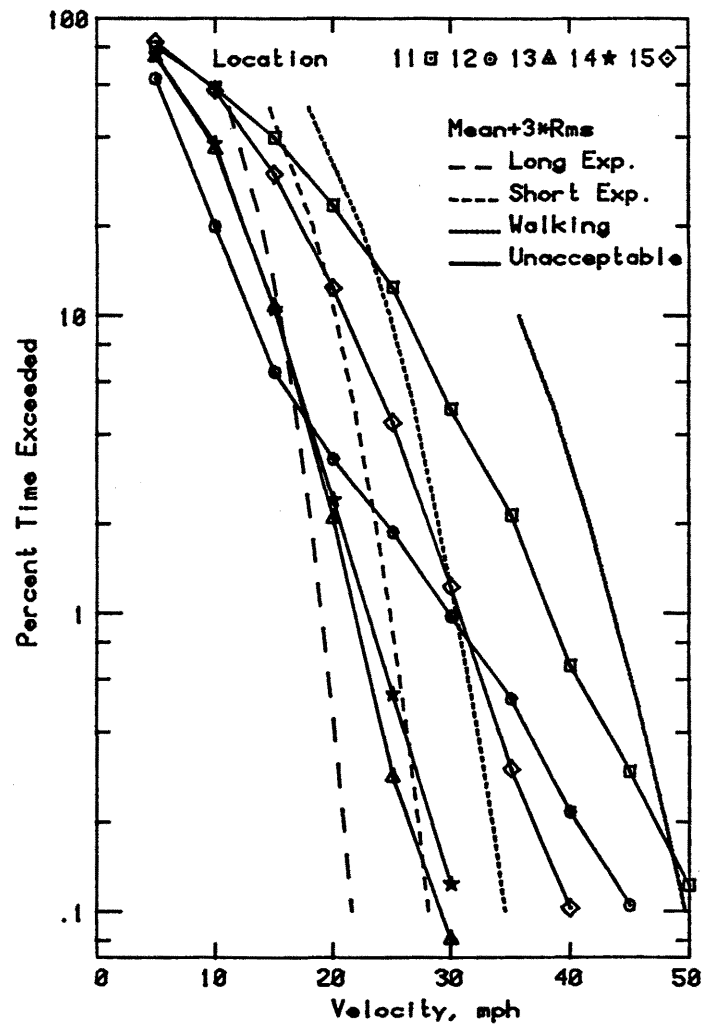
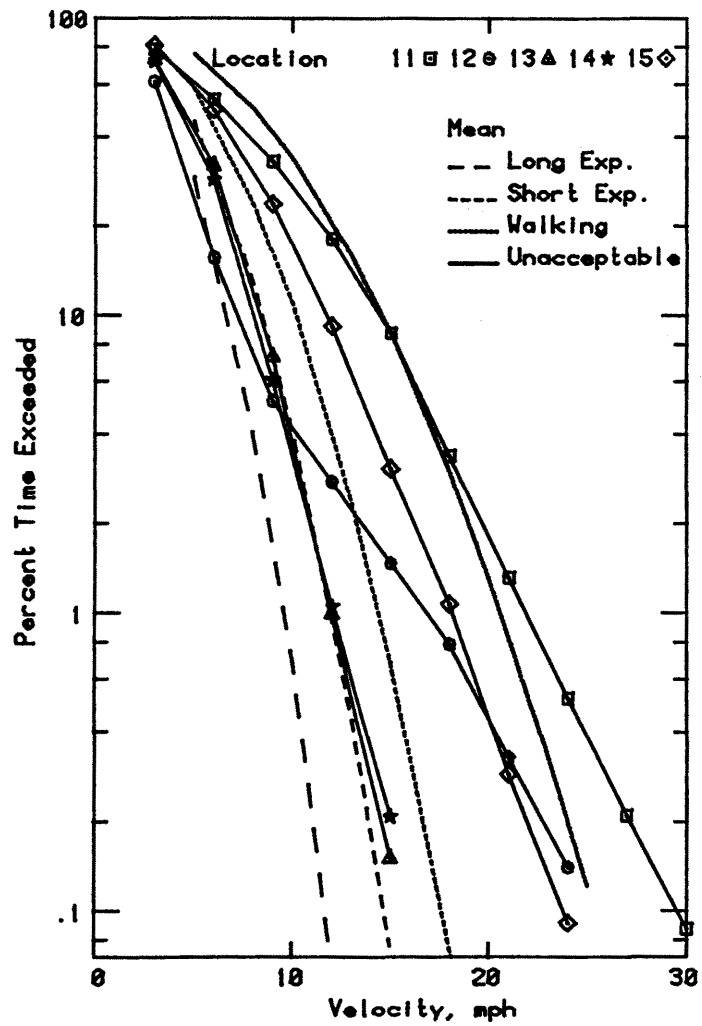


Figure 9c. Wind Velocity Probabilities for Pedestrian Locations

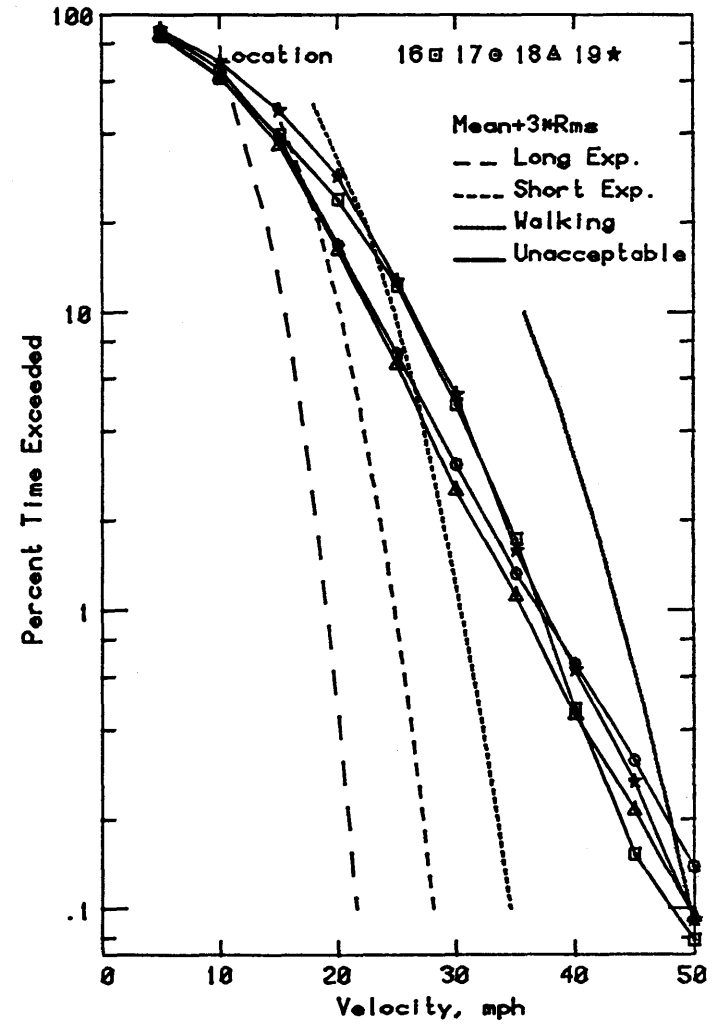
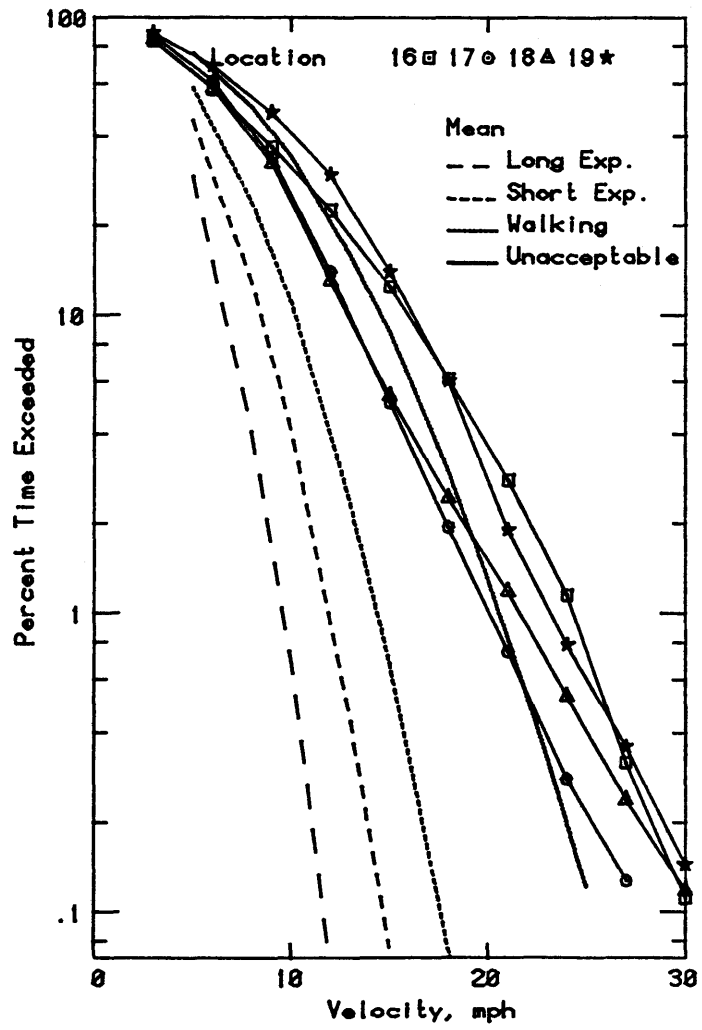


Figure 9d. Wind Velocity Probabilities for Pedestrian Locations

DEVELOPED SOUTH/EAST VIEW
 PEAK NEGATIVE CLADDING LOADS (PSF)
 FOR 50-YR RECURRENCE WIND
 REFERENCE PRESSURE = 23 PSF

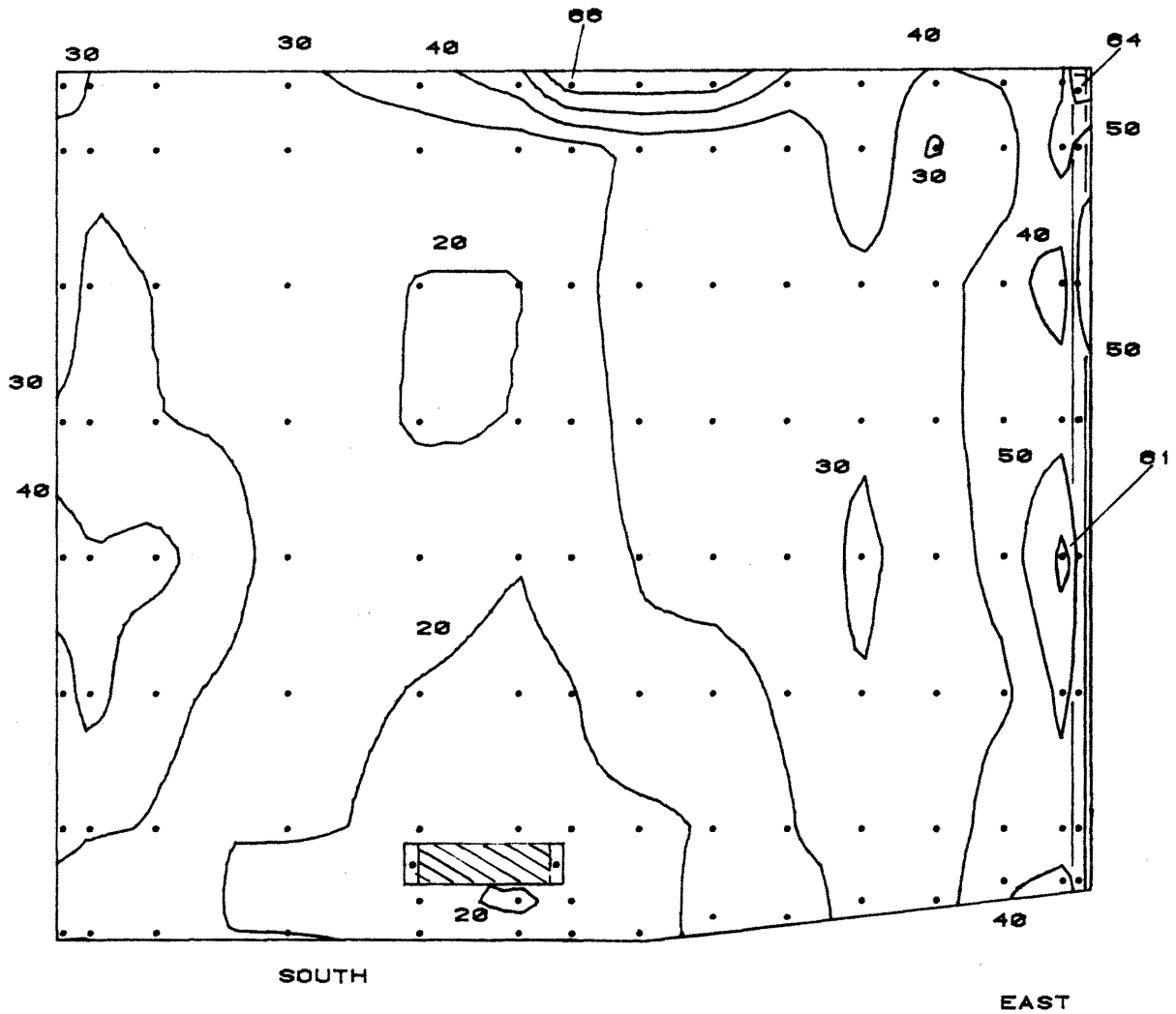


Figure 10a. Peak Pressure Contours on the Building
 for Cladding Loads

DEVELOPED NORTH/WEST VIEW
PEAK NEGATIVE CLADDING LOADS (PSF)
FOR 50-YR RECURRENCE WIND
REFERENCE PRESSURE = 23 PSF

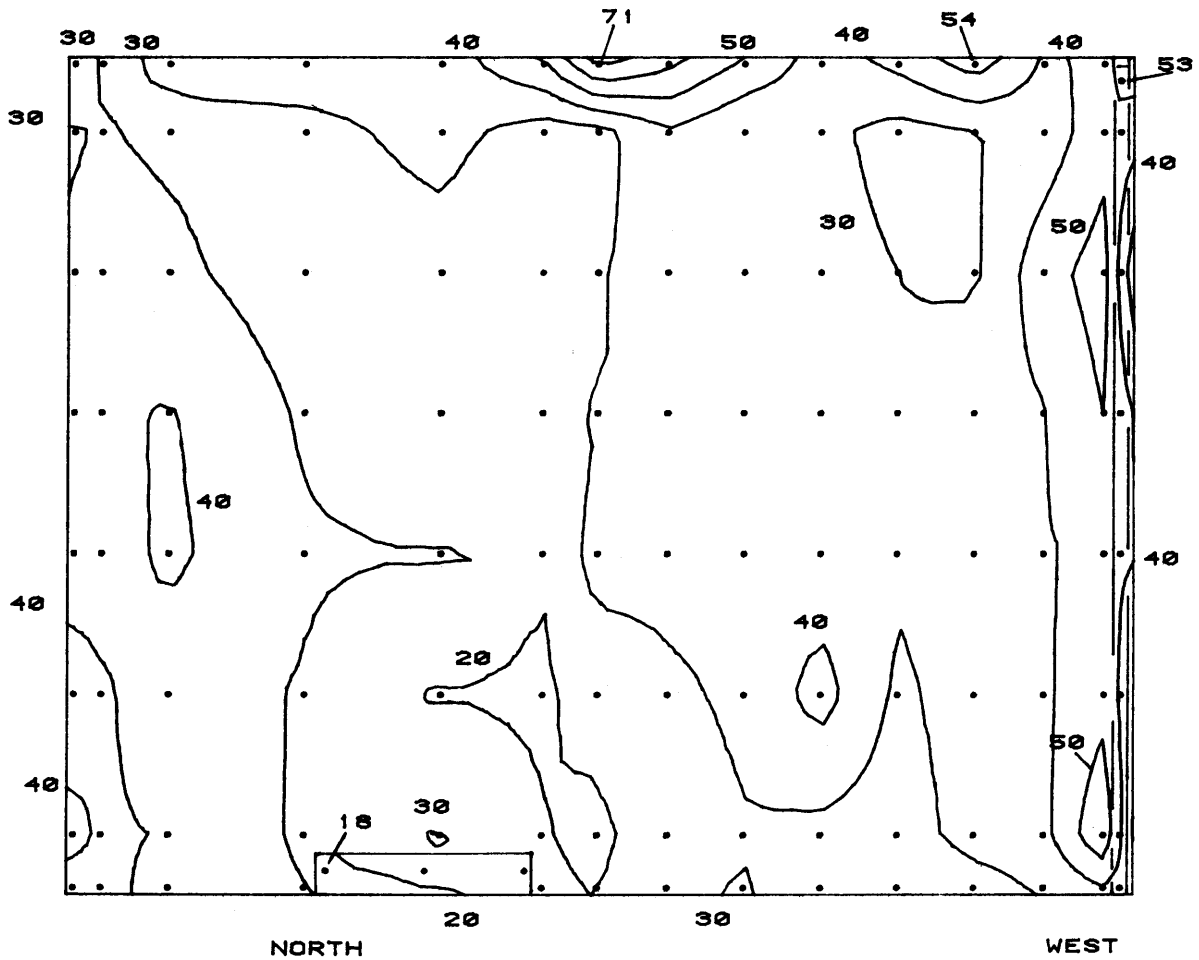


Figure 10b. Peak Pressure Contours on the Building
for Cladding Loads

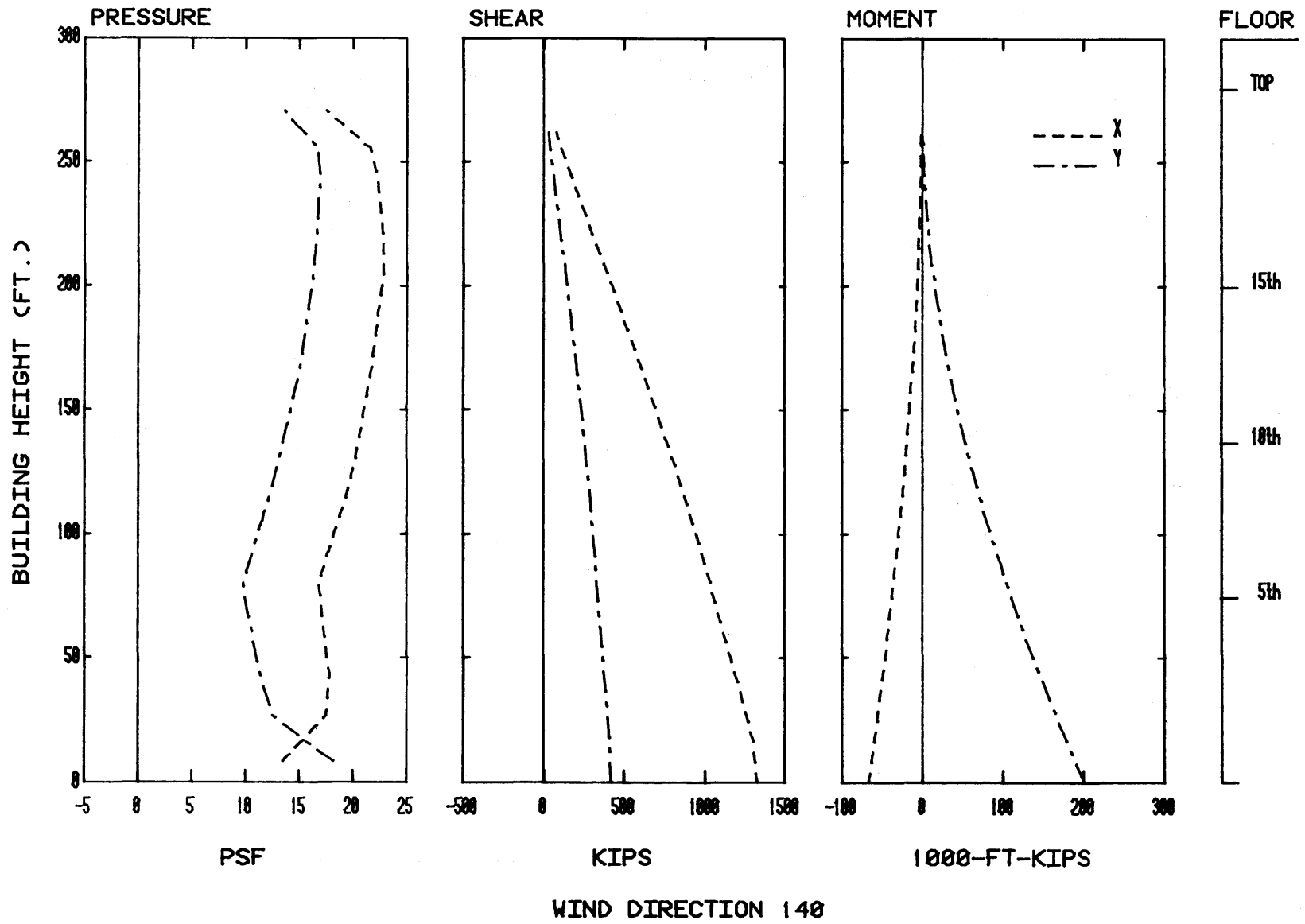
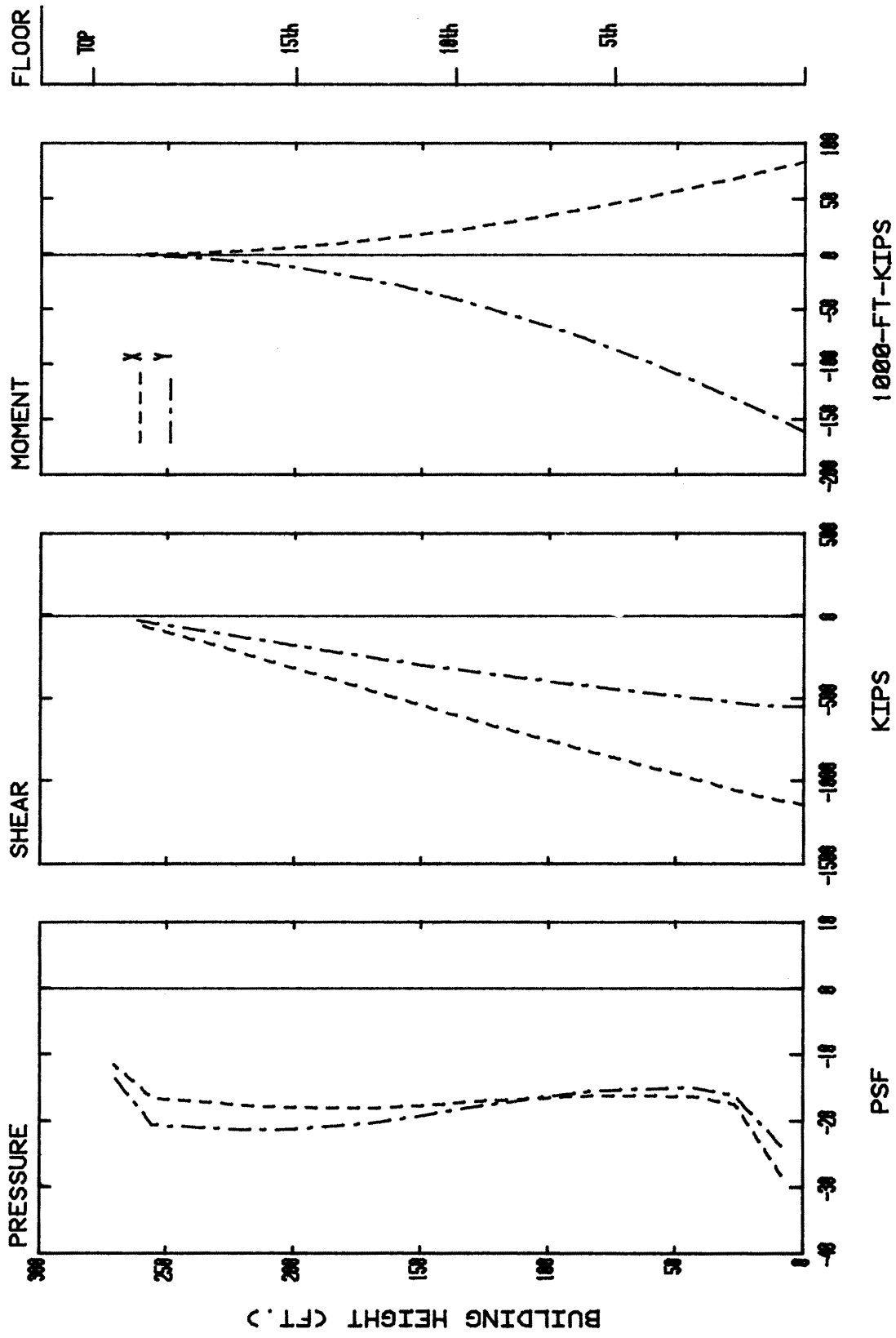


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions



WIND DIRECTION 300
 Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

TABLES

TABLE 1

MOTION PICTURE SCENE GUIDE

Configuration A

<u>Run No.</u>	<u>Approach Wind Azimuth, degrees</u>
1	0
2	45
3	90
4	135
5	180
6	225
7	270
8	315

Configuration B

<u>Run No.</u>	<u>Approach Wind Azimuth, degrees</u>
9	135
10	90

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

LOCATION 1				LOCATION 2			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	25.4	8.1	49.8	0.00	62.7	16.1	110.9
22.50	32.6	11.7	67.9	22.50	55.2	13.1	94.4
45.00	25.9	8.5	51.9	45.00	55.1	10.1	85.4
67.50	31.6	7.5	54.2	67.50	50.0	8.9	76.8
90.00	41.2	7.2	63.6	90.00	40.2	14.3	83.0
112.50	50.8	9.2	78.4	112.50	29.0	9.7	58.1
135.00	59.1	11.9	94.7	135.00	37.5	11.3	71.5
157.50	42.5	17.7	95.5	157.50	38.7	13.9	80.3
180.00	25.4	8.3	50.4	180.00	52.8	22.9	121.4
202.50	41.9	12.6	79.8	202.50	57.4	13.6	98.1
225.00	41.6	8.4	66.8	225.00	60.7	9.7	89.8
247.50	33.3	8.0	55.5	247.50	59.1	8.6	85.0
270.00	33.9	7.7	56.4	270.00	44.2	8.8	70.6
292.50	33.3	7.7	55.5	292.50	28.9	8.1	53.2
315.00	30.4	7.3	52.8	315.00	24.6	7.6	47.4
337.50	30.2	8.3	55.2	337.50	44.4	15.2	96.6

LOCATION 3				LOCATION 4			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	47.1	14.7	91.1	0.00	28.0	8.6	53.7
22.50	44.9	14.0	86.9	22.50	31.3	10.5	62.8
45.00	51.8	9.8	81.2	45.00	43.7	8.6	69.6
67.50	50.1	7.7	77.9	67.50	44.0	9.6	72.9
90.00	47.9	17.7	101.3	90.00	35.9	15.1	81.2
112.50	30.0	10.7	67.7	112.50	25.0	8.3	49.9
135.00	26.8	9.0	55.0	135.00	22.6	6.4	41.7
157.50	27.7	9.9	56.4	157.50	24.8	7.0	46.0
180.00	32.2	10.9	64.7	180.00	21.6	6.2	40.1
202.50	28.8	10.0	58.8	202.50	22.9	6.3	41.4
225.00	48.8	17.4	100.3	225.00	22.7	7.7	46.0
247.50	61.2	10.5	92.6	247.50	59.6	13.6	100.4
270.00	54.8	9.9	83.3	270.00	59.4	10.4	90.5
292.50	47.9	10.1	78.2	292.50	51.3	9.1	78.8
315.00	40.7	11.5	75.1	315.00	38.6	8.7	64.6
337.50	40.1	12.5	80.6	337.50	28.7	8.2	53.2

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

LOCATION 5

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	34.4	11.3	60.8
22.50	32.8	11.7	56.8
45.00	34.4	8.1	45.8
67.50	44.4	7.7	56.6
90.00	36.3	19.1	111.7
112.50	37.7	15.2	80.3
135.00	44.1	7.7	56.6
157.50	35.5	4.4	44.4
180.00	22.6	7.7	33.3
202.50	44.0	1.1	44.4
225.00	26.1	7.7	33.3
247.50	26.1	1.1	27.7
270.00	26.1	1.1	27.7
292.50	26.1	1.1	27.7
315.00	26.1	1.1	27.7
337.50	40.2	9.9	70.9
360.00	43.2	9.9	70.9

LOCATION 6

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	59.0	9.3	87.0
22.50	38.1	11.1	71.4
45.00	34.9	7.7	47.9
67.50	36.6	11.7	71.8
90.00	68.4	11.1	101.7
112.50	66.8	10.2	97.5
135.00	75.1	10.9	107.9
157.50	71.9	12.1	108.2
180.00	61.0	13.4	101.2
202.50	32.8	11.8	66.1
225.00	28.5	8.7	54.6
247.50	34.7	11.1	67.9
270.00	52.8	9.7	81.9
292.50	62.8	9.4	90.8
315.00	65.3	9.1	92.6
337.50	64.2	8.8	90.8

LOCATION 7

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	24.0	6.7	44.4
22.50	26.7	9.9	56.6
45.00	40.9	9.9	70.9
67.50	41.7	11.4	75.0
90.00	26.5	10.2	55.5
112.50	26.1	10.6	56.6
135.00	22.9	7.7	44.4
157.50	22.9	7.7	44.4
180.00	18.3	5.5	33.3
202.50	18.9	6.6	40.4
225.00	22.3	7.7	44.4
247.50	30.8	13.7	70.9
270.00	49.1	10.2	70.9
292.50	49.6	9.9	70.9
315.00	26.7	8.2	44.4

LOCATION 8

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	28.3	8.7	54.4
22.50	31.1	10.9	63.6
45.00	46.5	9.6	75.2
67.50	42.1	9.4	70.3
90.00	23.8	8.6	49.5
112.50	20.4	7.7	43.4
135.00	24.9	8.8	51.4
157.50	20.8	7.2	42.5
180.00	18.0	5.3	33.9
202.50	19.9	5.8	37.1
225.00	17.8	5.0	32.6
247.50	34.7	13.2	68.2
270.00	52.7	11.7	88.7
292.50	49.5	10.2	88.2
315.00	35.2	10.6	67.0
337.50	23.5	6.9	44.1

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	72.2	12.0	108.3
22.50	66.2	12.4	103.5
45.00	65.6	11.1	98.7
67.50	220.0	6.0	38.0
90.00	222.1	6.4	41.3
112.50	227.1	7.2	48.8
135.00	223.8	7.4	45.9
157.50	226.8	8.7	52.9
180.00	227.0	16.1	85.3
202.50	477.0	17.6	99.7
225.00	623.3	11.6	97.0
247.50	426.4	9.7	87.3
270.00	426.4	9.2	86.3
292.50	426.4	8.4	83.3
315.00	426.4	10.4	90.2
337.50	426.4	10.9	88.2

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	67.7	12.3	104.6
22.50	36.3	14.9	80.8
45.00	19.7	4.9	34.5
67.50	20.0	4.5	33.4
90.00	220.0	8.8	53.1
112.50	220.0	10.1	59.0
135.00	220.0	20.0	118.2
157.50	220.0	17.5	118.3
180.00	220.0	14.1	102.1
202.50	220.0	12.9	94.5
225.00	220.0	11.3	69.5
247.50	220.0	6.8	44.1
270.00	220.0	9.9	83.6
292.50	220.0	8.8	87.3
315.00	220.0	9.8	96.2
337.50	220.0	10.5	99.8

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	22.4	6.5	42.0
22.50	18.7	4.8	33.1
45.00	20.4	4.3	33.2
67.50	17.9	3.7	28.8
90.00	223.8	6.2	42.5
112.50	223.8	14.6	97.6
135.00	227.1	10.8	95.2
157.50	227.1	17.1	108.4
180.00	227.1	14.5	80.7
202.50	229.4	11.4	63.6
225.00	229.4	6.4	41.3
247.50	229.4	8.0	54.6
270.00	229.4	11.0	91.3
292.50	229.4	11.1	102.4
315.00	229.4	16.2	102.1
337.50	229.4	8.6	54.1

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	27.7	8.6	53.4
22.50	17.3	3.6	28.8
45.00	19.1	4.6	30.0
67.50	18.6	2.4	25.7
90.00	17.3	2.2	23.9
112.50	19.9	3.4	36.3
135.00	17.1	3.4	28.0
157.50	18.6	5.0	33.6
180.00	20.0	7.7	38.1
202.50	20.0	7.7	37.8
225.00	20.0	5.5	42.4
247.50	20.0	5.5	48.9
270.00	20.0	1.1	65.7
292.50	20.0	1.1	90.0
315.00	20.0	4.8	104.3
337.50	20.0	4.4	50.9

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

LOCATION 13

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	16.8	4.2	29.3
22.50	32.2	8.7	44.4
45.00	33.4	8.7	45.2
67.50	30.9	8.4	39.5
90.00	28.8	8.1	36.2
112.50	26.3	7.3	33.3
135.00	27.4	7.4	34.8
157.50	30.6	7.3	37.9
180.00	44.0	9.9	53.8
202.50	30.7	8.0	38.7
225.00	28.0	7.7	35.7
247.50	19.6	4.4	24.4
270.00	17.3	3.5	20.8
292.50	17.7	3.2	20.9
315.00			
337.50			

LOCATION 14

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	16.0	4.1	28.2
22.50	24.1	9.2	41.6
45.00	30.7	10.0	50.8
67.50	32.9	10.2	53.4
90.00	37.5	10.5	59.2
112.50	41.2	11.1	64.4
135.00	22.6	6.9	33.4
157.50	26.4	7.1	33.6
180.00	26.2	8.7	34.9
202.50	29.1	8.8	37.9
225.00	29.0	8.0	37.0
247.50	30.5	7.9	38.4
270.00	34.4	11.5	56.8
292.50	30.1	9.6	49.7
315.00	19.0	4.9	23.9
337.50	14.3	3.0	17.3

LOCATION 15

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	20.9	8.3	35.9
22.50	39.9	10.5	59.3
45.00	50.4	9.6	70.0
67.50	33.7	10.0	43.7
90.00	22.8	8.8	31.6
112.50	36.5	10.1	56.6
135.00	44.7	10.8	65.5
157.50	27.0	9.4	36.4
180.00	40.8	11.0	51.8
202.50	50.1	11.6	71.7
225.00	52.6	9.9	72.5
247.50	43.7	9.6	53.3
270.00	22.0	8.8	30.8
292.50	27.7	8.0	35.7
315.00	21.4	6.1	27.5
337.50	14.3	3.9	18.2

LOCATION 16

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	30.7	13.8	58.3
22.50	43.9	17.9	80.7
45.00	67.6	10.6	88.2
67.50	58.6	10.1	78.7
90.00	45.2	8.9	64.1
112.50	28.3	7.8	46.1
135.00	28.7	8.7	37.4
157.50	49.7	14.7	84.4
180.00	68.7	11.4	100.1
202.50	62.1	9.9	82.0
225.00	43.6	10.9	64.5
247.50	37.8	9.3	57.1
270.00	34.8	8.2	43.0
292.50	19.5	5.8	25.3
315.00	16.4	3.8	20.2
337.50	28.2	6.8	41.0

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

LOCATION 17

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	61.0	22.1	127.4
22 50	46.6	16.7	96.8
45 00	36.3	12.7	73.9
67 50	30.0	11.1	63.5
90 00	24.9	9.9	52.6
112 50	20.3	9.7	47.2
135 00	16.9	8.4	39.8
157 50	14.4	10.0	35.5
180 00	12.3	9.6	33.3
202 50	10.9	9.9	33.3
225 00	11.1	9.9	33.3
247 50	11.4	10.2	33.8
270 00	11.4	11.1	33.8
292 50	11.1	13.1	33.3
315 00	9.9	15.0	33.3
337 50	7.7	12.6	33.3

LOCATION 18

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	53.8	12.8	92.2
22 50	46.1	10.6	72.0
45 00	36.2	7.8	59.7
67 50	27.9	7.5	50.5
90 00	26.9	6.7	47.0
112 50	30.5	9.7	59.7
135 00	44.4	11.3	78.4
157 50	42.2	10.9	71.1
180 00	40.0	10.3	70.0
202 50	40.0	13.6	80.7
225 00	27.5	11.1	60.9
247 50	19.2	5.4	34.4
270 00	19.2	5.1	34.4
292 50	33.7	12.0	69.7
315 00	63.3	15.5	109.8
337 50	68.4	11.7	103.3

LOCATION 19

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	56.0	12.7	93.9
22 50	41.1	9.4	80.0
45 00	30.0	9.9	79.0
67 50	24.9	8.3	68.7
90 00	20.3	8.2	49.7
112 50	16.9	10.0	57.6
135 00	14.4	12.1	85.7
157 50	12.3	12.1	94.6
180 00	10.9	11.4	89.7
202 50	11.1	9.9	83.3
225 00	11.1	10.0	84.1
247 50	11.4	9.9	83.3
270 00	11.4	11.1	83.3
292 50	11.1	13.1	93.9
315 00	9.9	15.0	106.4
337 50	7.7	12.6	93.9

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
SUN GAS BUILDING, DALLAS

* * GREATEST VALUES * *

U _{MEAN} /U _{INF} (PERCENT)					U _{RMS} /U _{INF} (PERCENT)					U _{MEAN+3*RMS} /U _{INF} (PERCENT)				
LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS
6	135.0	75.1	10.9	107.9	2	180.0	52.8	22.9	121.4	17	0.0	61.0	22.1	127.4
9	0.0	72.2	12.0	108.3	17	0.0	61.0	22.1	127.4	2	180.0	52.8	22.9	121.4
6	157.5	71.9	12.1	108.2	10	135.0	58.3	20.0	118.2	10	157.5	65.8	17.5	118.3
11	292.5	69.2	11.1	102.4	5	90.0	56.3	19.1	113.6	10	135.0	58.3	20.0	118.2
16	180.0	68.7	11.4	102.8	16	22.5	43.9	17.9	97.6	5	90.0	56.3	19.1	113.6
10	315.0	68.7	9.2	96.2	3	90.0	47.9	17.8	101.3	2	0.0	62.7	16.1	110.9
6	90.0	68.4	11.1	101.7	1	157.5	42.5	17.7	95.5	18	315.0	63.3	15.5	109.8
18	337.5	68.4	11.7	103.3	9	202.5	47.0	17.6	99.7	11	157.5	57.2	17.1	108.4
19	315.0	68.3	12.7	106.4	10	157.5	65.8	17.5	118.3	9	0.0	72.2	12.0	108.3
10	337.5	68.2	10.5	99.8	3	225.0	48.2	17.4	100.4	6	157.5	71.9	12.1	108.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

DALLAS, TEXAS

LOVE FIELD (1951-1960)

SEASON : ANNUAL

NO. OF OBS. = 87672

HT. OF MEAS. = 40. FT.

VELOCITY LEVELS IN MPH

DIRECTION	0- 3	4- 7	8-12	13-18	19-24	25-31	32-38	39-46	47 +	TOTAL
N	.59	1.48	1.90	1.45	.52	.10	.03	0.00	0.00	6.07
NNE	.46	1.44	1.52	1.11	.31	.05	0.00	0.00	0.00	4.89
NE	.67	2.23	1.60	.65	.25	.03	0.00	.03	0.00	5.47
ENE	.28	1.09	1.35	.61	.20	.04	0.00	0.00	0.00	3.58
E	.42	1.29	1.52	.53	.22	.01	0.00	0.00	0.00	4.99
ESE	.32	1.28	2.17	.92	.25	.05	0.00	0.00	0.00	4.99
SE	.64	2.90	5.37	3.31	.54	.06	.01	0.00	0.00	12.82
SSE	.31	1.74	3.24	6.44	1.68	.17	.06	.02	0.00	15.67
S	.56	1.87	4.94	6.02	2.13	.25	.05	.02	0.00	15.83
SSW	.30	.90	1.51	2.02	.66	.11	.01	0.00	0.00	5.51
SW	.55	1.08	1.22	.93	.27	.08	.01	.03	0.00	4.16
WSW	.19	.36	.30	.35	.16	.04	.02	.01	0.00	1.42
W	.33	.56	.47	.34	.20	.05	.02	.02	0.00	2.00
WNW	.27	.49	.56	.52	.31	.07	.03	0.00	0.00	2.53
NW	.50	1.14	1.06	1.07	.50	.12	.06	.03	0.00	4.49
NNW	.37	1.08	1.48	1.43	.56	.10	.06	0.00	0.00	5.08
CALM	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78
TOT	8.54	20.92	32.21	27.69	8.76	1.34	.36	.16	0.00	100.00

TABLE 4
SUMMARY OF WIND EFFECTS ON PEOPLE

	<u>Beaufort number</u>	<u>Speed (mph)</u>	<u>Effects</u>
Calm, light air	0, 1	0- 3	Calm, no noticeable wind
Light breeze	2	4- 7	Wind felt on face
Gentle breeze	3	8-12	Wind extends light flag Hair is disturbed Clothing flaps
Moderate breeze	4	13-18	Raises dust, dry soil and loose paper Hair disarranged
Fresh breeze	5	19-24	Force of wind felt on body Drifting snow becomes airborne Limit of agreeable wind on land
Strong breeze	6	25-31	Umbrellas used with difficulty Hair blown straight Difficult to walk steadily Wind noise on ears unpleasant Windborne snow above head height (blizzard)
Near gale	7	32-38	Inconvenience felt when walking
Gale	8	39-46	Generally impedes progress Great difficulty with balance in gusts
Strong gale	9	47-54	People blown over by gusts

Note: Table from Reference 4, p. 40.

TABLE 5

CALCULATION OF REFERENCE PRESSURE

1. Basic wind speed from ANSI A58.1 (Ref. 6):

50-yr fastest mile at 30 ft = 70 mph

$$\text{Mean hourly wind speed} = \frac{70}{1.27} = 55.1 \text{ mph}$$

$$\text{Mean hourly gradient wind speed} = 55.1 \left(\frac{1000}{30}\right)^{.17} = 100.0$$

$$\begin{aligned} &\text{Mean hourly wind at wind tunnel velocity reference location} \\ &\text{at 1040 ft} = 100.0 \left(\frac{1040}{1250}\right)^{.28} = 95.0 \text{ mph} \end{aligned}$$

$$\text{Reference pressure} = 0.5 \rho U_{\infty}^2 = (0.00256) (95.0)^2 = 23.1 \text{ psf}$$

Use 23 psf

2. Loads for 100-yr recurrence wind:

100-yr fastest mile at 30 ft = 70 mph (ref. 6):

No change in load.

3. Gust load factors to convert hourly mean integrated loads to various gust durations (see Sect. 4.4):

<u>Gust Duration, sec</u>	<u>Gust Load Factor</u>
10 - 15	$(1.4)^2 = 1.96$
30	$(1.32)^2 = 1.74$
45	$(1.26)^2 = 1.59$

The 30 second gust load factor was used in Table 7.

TABLE 6A. PEAK LOADS FOR CONFIGURATION A
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK		TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK		TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK	
			PSF	PSF	PSF	PSF				PSF	PSF	PSF	PSF							
801	100	-1.09	-25.0	22.8	1018	90	-1.24	-28.5	23.7	1066	100	-1.89	-20.4	17.0						
802	90	-1.22	-28.1	22.7	1019	90	-1.18	-27.2	22.0	1067	240	-1.49	-34.3	17.9						
803	90	-1.99	-20.4	22.7	1020	120	-1.45	-33.4	20.9	1068	240	-1.43	-33.0	17.7						
804	10	-1.00	-22.9	8.0	1021	110	-1.10	-25.2	21.0	1069	230	-1.51	-34.8	18.3						
805	220	-1.72	-16.5	11.5	1022	240	-1.14	-26.2	19.3	1070	230	-1.48	-34.0	18.0						
806	320	-1.81	-12.4	18.7	1023	200	-1.69	-38.8	20.0	1071	200	-1.36	-31.3	22.3						
807	290	-1.08	-24.8	12.4	1024	240	-1.31	-30.0	20.8	1072	190	-1.60	-36.8	20.0						
901	50	-2.34	-53.8	10.0	1025	190	-1.41	-32.3	20.6	1073	190	-1.72	-39.6	19.8						
902	310	-1.36	-29.0	10.2	1026	190	-1.15	-26.5	20.0	1074	200	-1.81	-41.7	18.5						
903	280	-1.39	-31.9	5.6	1027	50	-1.48	-29.6	20.9	1075	200	-1.78	-41.0	20.0						
905	220	-2.09	-39.1	11.1	1028	190	-1.48	-34.1	22.7	1076	80	-2.01	-46.1	18.2						
906	230	-2.38	-59.3	11.1	1029	190	-2.02	-46.6	21.3	1077	80	-1.81	-41.7	16.4						
907	230	-1.23	-28.3	6.6	1030	200	-1.97	-45.3	21.2	1078	100	-1.52	-34.9	16.3						
908	170	-1.84	-42.4	9.9	1031	80	-1.39	-31.9	23.3	1079	90	-1.28	-29.4	20.9						
909	200	-1.82	-41.9	12.6	1032	70	-1.44	-34.1	21.8	1080	90	-1.87	-19.9	19.0						
910	40	-2.07	-47.7	11.7	1033	80	-1.40	-32.3	21.8	1081	90	-1.81	-18.7	17.7						
911	10	-1.28	-29.5	4.4	1034	90	-1.07	-24.6	19.8	1082	240	-1.02	-23.4	16.9						
912	10	-1.33	-31.0	8.8	1035	90	-1.13	-25.9	22.2	1083	240	-1.23	-28.4	16.6						
913	180	-1.36	-31.2	7.1	1036	100	-1.97	-21.5	22.4	1084	240	-1.38	-31.7	16.3						
914	180	-1.28	-29.4	10.7	1037	230	-1.29	-29.6	22.0	1085	190	-1.33	-44.3	15.5						
915	10	-1.32	-30.3	5.8	1038	230	-1.45	-33.4	20.0	1086	10	-1.23	-28.3	14.9						
916	210	-1.49	-34.3	6.0	1039	230	-1.58	-36.5	21.3	1087	200	-1.50	-34.5	18.0						
917	190	-1.38	-31.8	9.0	1040	230	-1.51	-34.7	21.8	1088	200	-1.69	-38.8	17.3						
918	50	-2.46	-55.2	0.0	1041	200	-1.31	-30.0	22.1	1089	190	-2.00	-46.1	19.2						
919	220	-1.38	-34.8	9.2	1042	200	-1.24	-28.5	21.8	1090	190	-1.72	-39.5	18.0						
921	80	-1.02	-20.5	2.3	1043	200	-2.02	-46.4	23.3	1091	80	-1.63	-37.5	13.9						
922	280	-1.11	-21.9	2.5	1044	200	-2.37	-54.5	21.8	1092	70	-1.79	-41.2	16.5						
923	280	-1.84	-19.3	4.4	1045	200	-2.62	-62.6	22.5	1093	90	-1.73	-39.8	15.5						
924	90	-1.96	-22.2	11.1	1046	70	-1.62	-37.4	18.9	1094	100	-1.11	-28.7	18.0						
925	280	-1.95	-21.9	13.3	1047	90	-1.68	-38.9	21.9	1095	110	-1.32	-30.3	19.0						
926	290	-1.22	-28.0	7.7	1048	90	-1.28	-30.8	21.8	1096	100	-1.90	-20.8	17.7						
1001	80	-1.67	-38.3	19.9	1049	100	-1.26	-28.9	21.5	1097	250	-1.78	-17.9	17.0						
1002	80	-1.34	-28.4	17.9	1050	90	-1.77	-48.9	19.1	1098	240	-1.11	-23.6	15.2						
1003	80	-1.36	-31.1	15.8	1051	250	-1.89	-20.2	19.8	1099	240	-1.28	-29.5	13.1						
1004	90	-1.52	-34.9	13.4	1052	240	-1.31	-30.0	20.0	1100	240	-1.18	-27.7	16.4						
1005	120	-1.50	-34.4	16.2	1053	240	-1.35	-31.0	20.6	1101	0	-1.09	-25.0	13.6						
1006	230	-2.13	-49.0	10.9	1054	240	-1.53	-33.7	20.6	1102	180	-1.47	-33.3	14.4						
1007	220	-2.09	-49.0	9.9	1055	230	-1.47	-35.1	19.4	1103	200	-1.59	-36.8	15.1						
1008	230	-2.67	-61.5	12.2	1056	300	-1.58	-36.6	22.1	1104	190	-2.56	-58.9	14.8						
1009	220	-2.10	-48.2	13.3	1057	180	-1.58	-36.6	20.6	1105	210	-1.86	-42.7	13.8						
1010	50	-1.53	-35.1	11.1	1058	190	-1.71	-39.4	19.1	1106	80	-1.90	-43.7	11.1						
1011	30	-1.83	-42.2	13.3	1059	200	-2.19	-50.9	21.3	1107	80	-1.88	-43.3	17.7						
1012	10	-2.33	-54.4	14.4	1060	200	-1.94	-44.7	21.5	1108	90	-1.59	-36.7	26.5						
1013	190	-2.68	-42.7	15.7	1061	80	-1.46	-33.7	20.5	1109	90	-1.32	-30.4	24.0						
1014	200	-2.83	-42.0	13.7	1062	80	-1.53	-35.1	18.4	1110	90	-1.94	-17.7	21.0						
1015	190	-2.29	-52.6	17.1	1063	90	-1.84	-42.2	20.0	1111	90	-1.02	-23.4	22.2						
1016	80	-2.28	-52.5	2.6	1064	90	-1.36	-31.3	17.8	1112	90	-1.11	-23.0	25.0						
1017	80	-1.34	-28.0	2.2	1065	220	-1.81	-39.1	20.5	1113	40	-1.99	-22.3	22.8						

TABLE 6A PEAK LOADS FOR CONFIGURATION A
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PSF	POSITIVE PEAK PSF	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PSF	POSITIVE PEAK PSF	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PSF	POSITIVE PEAK PSF
11114	90	.86	-19.6	19.8	2036	270	-.85	-19.6	19.2	2082	70	-.84	-19.3	13.2
11115	240	-1.21	-27.9	18.8	2037	70	-1.16	-26.6	22.1	2083	70	-1.24	-28.5	16.5
11116	40	-1.33	-30.0	18.6	2038	40	-1.56	-33.5	22.4	2084	40	-1.12	-28.5	12.8
11117	240	-1.14	-26.2	19.0	2039	40	-1.51	-34.4	21.8	2085	0	-1.39	-30.3	14.6
11118	10	-.95	-21.7	18.0	2040	40	-1.60	-36.8	19.8	2086	0	-1.32	-30.3	9.9
11119	180	-1.13	-25.9	18.3	2041	10	-1.64	-37.7	21.8	2087	10	-1.50	-34.6	15.7
11120	180	-1.36	-31.4	18.8	2042	10	-1.61	-37.1	23.6	2088	10	-1.63	-37.5	17.7
11121	180	-1.71	-39.9	15.2	2043	10	-1.93	-44.4	23.3	2089	10	-2.28	-52.4	16.6
11122	200	-1.60	-36.9	14.7	2044	20	-2.52	-56.6	19.7	2090	20	-2.09	-48.4	16.6
11123	280	.71	-16.4	16.3	2045	20	-2.20	-50.6	22.4	2091	2270	-1.48	-34.1	14.4
11124	280	-.79	-18.3	15.3	2046	260	-1.37	-31.1	22.3	2092	2270	-1.35	-33.0	13.3
11125	330	.70	-11.1	15.1	2047	260	-1.40	-32.2	20.5	2093	2270	-1.28	-29.9	15.5
20001	220	-1.59	-33.6	22.1	2048	260	-1.32	-30.5	20.9	2094	220	-1.09	-25.2	12.1
20002	270	-1.27	-29.2	22.0	2049	270	-1.22	-28.9	20.0	2095	220	-1.69	-41.4	10.8
20003	270	-1.13	-23.6	15.7	2050	270	-1.89	-42.4	18.5	2096	220	-1.77	-41.4	10.0
20004	270	-1.20	-27.6	15.6	2051	280	-1.89	-42.4	20.0	2097	300	-.75	-17.2	11.1
20005	20	-1.46	-33.3	18.8	2052	60	-1.06	-24.4	18.7	2098	0	-.92	-21.1	9.9
20006	20	-1.90	-43.3	18.8	2053	40	-1.49	-34.2	19.8	2099	0	-1.25	-28.8	9.9
20007	40	-2.86	-64.7	17.8	2054	40	-1.48	-34.2	19.7	2100	30	-1.73	-43.3	11.1
20008	40	-2.81	-64.7	16.0	2055	200	-1.42	-32.2	18.8	2101	40	-1.11	-30.3	14.4
20009	30	-2.79	-64.4	16.4	2056	30	-1.33	-30.6	18.8	2102	0	-1.30	-33.3	14.4
20010	20	-2.03	-46.8	16.0	2057	20	-1.58	-36.6	21.7	2103	10	-2.15	-49.4	14.4
20011	20	-2.00	-46.0	17.7	2058	10	-1.99	-45.8	21.4	2104	10	-1.99	-45.7	14.4
20012	0	-1.63	-37.7	17.3	2059	10	-2.01	-46.6	22.8	2105	10	-1.82	-42.0	14.1
20013	10	-1.77	-40.8	16.3	2060	10	-2.82	-64.8	20.5	2106	310	-1.80	-42.6	18.3
20014	20	-2.11	-48.4	18.3	2061	2270	-2.01	-46.6	19.2	2107	30	-1.58	-38.3	10.0
20015	20	-2.77	-64.4	18.3	2062	260	-1.78	-40.8	19.0	2108	320	-1.58	-38.3	10.0
20016	60	-1.00	-22.1	22.1	2063	270	-1.90	-43.7	19.6	2109	70	-1.09	-25.5	9.9
20017	60	-1.25	-28.8	22.1	2064	280	-1.12	-25.7	16.6	2110	0	-1.57	-38.3	12.1
20018	60	-1.21	-28.8	22.1	2065	280	-1.13	-26.6	16.1	2111	280	1.05	-20.0	22.4
20019	70	-1.11	-22.5	22.1	2066	280	-1.13	-26.6	17.7	2112	280	-.96	-20.0	22.4
20020	0	-1.08	-22.4	22.1	2067	60	-1.13	-26.6	18.3	2113	280	-1.13	-22.5	18.3
20021	0	-1.04	-22.4	22.1	2068	40	-1.33	-30.6	17.1	2114	280	-1.90	-44.4	17.7
20022	30	-1.08	-22.4	22.1	2069	40	-1.50	-34.4	17.3	2115	310	-1.76	-42.0	17.7
20023	30	-1.42	-33.3	22.1	2070	40	-1.51	-34.4	17.9	2116	310	-1.57	-38.3	17.7
20024	40	-1.30	-30.6	22.1	2071	200	-1.25	-28.8	18.0	2117	0	-1.59	-38.3	13.3
20025	30	-1.30	-30.6	22.1	2072	10	-1.45	-36.6	18.4	2118	10	-1.70	-41.4	16.6
20026	0	-1.13	-24.9	22.1	2073	10	-1.95	-44.4	19.6	2119	10	-1.98	-44.4	15.5
20027	10	-1.27	-29.9	22.1	2074	10	-2.67	-56.6	20.4	2120	10	-1.06	-22.4	15.5
20028	10	-1.52	-34.4	22.1	2075	10	-1.13	-24.9	18.9	2121	10	-1.49	-34.3	17.7
20029	10	-1.52	-34.4	22.1	2076	260	-1.56	-36.6	15.3	2122	10	-1.66	-38.3	15.5
20030	10	-1.99	-44.4	22.1	2077	260	-1.93	-44.4	16.3	2123	10	-1.83	-42.0	14.4
20031	10	-1.99	-44.4	22.1	2078	260	-1.40	-33.3	17.7	2124	10	-1.64	-37.7	13.3
20032	10	-1.14	-26.6	22.1	2079	270	-1.40	-33.3	16.3	2125	10	-1.83	-42.0	14.4
20033	10	-1.30	-30.6	22.1	2080	270	-1.11	-25.5	17.7	2126	250	-1.63	-38.3	15.5
20034	10	-1.13	-25.5	22.1	2081	280	-1.72	-41.4	12.1	2127	290	-1.59	-38.3	12.1

TABLE 6A. PEAK LOADS FOR CONFIGURATION A :
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

* * 15 GREATEST PRESSURE COEFFICIENT MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PSF	POSITIVE PEAK -----
1007	230	-3.08	-71.0	11.3
2007	40	-2.86	-65.8	18.0
2008	40	-2.81	-64.7	17.0
2009	30	-2.79	-64.1	16.4
2015	20	-2.77	-63.6	16.9
1008	220	-2.67	-61.5	12.2
2074	10	-2.67	-61.3	20.4
906	230	-2.58	-59.3	11.9
1104	190	-2.56	-58.9	14.8
918	50	-2.40	-55.2	9.0
919	220	-2.38	-54.8	9.2
2029	20	-2.38	-54.8	22.0
1044	200	-2.37	-54.5	21.8
1012	10	-2.35	-54.1	14.5
901	50	-2.34	-53.8	10.8

TABLE 6A. PEAK LOADS FOR CONFIGURATION B :
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE POSITIVE		TAP	AZI- MUTH	PRESS COEFF	NEGATIVE POSITIVE		TAP	AZI- MUTH	PRESS COEFF	NEGATIVE POSITIVE	
			PEAK	PEAK				PEAK	PEAK				PEAK	PEAK
			----- PSF -----					----- PSF -----					----- PSF -----	
8001	110	- .99	-22.7	18.1	1018	100	-1.14	-26.3	22.7	1066	100	- .66	-13.2	14.4
8002	110	- .78	-16.7	18.0	1019	100	-1.32	-30.4	22.8	1067	140	- .68	-13.6	12.3
8003	100	- .92	-15.6	21.2	1020	100	-1.35	-31.1	23.3	1068	50	-1.13	-26.0	7.4
8004	10	-1.15	-26.5	10.3	1021	130	-1.04	-23.9	19.8	1069	30	-1.24	-28.6	2.6
8005	50	- .52	-10.2	12.0	1022	100	- .99	-22.7	15.4	1070	30	-1.22	-28.0	1.8
8006	60	- .58	-11.3	13.4	1023	100	-1.03	-23.7	11.9	1071	30	-1.28	-29.4	2.5
8007	10	- .55	-10.8	12.6	1024	30	-1.09	-25.1	3.9	1072	10	-1.15	-26.3	2.0
9001	50	- .21	-5.0	6.7	1025	30	-1.16	-26.6	1.2	1073	10	-1.18	-27.2	1.8
9002	20	-1.63	-37.6	8.1	1026	10	-1.05	-24.1	1.1	1074	10	- .62	-14.2	2.4
9003	20	-1.27	-29.2	4.4	1027	10	-1.13	-25.4	3.5	1075	10	- .64	-14.7	2.1
9005	140	-1.74	-40.1	11.8	1028	40	-1.08	-24.9	4.6	1076	90	-1.37	-31.5	18.6
9006	140	-1.95	-44.8	10.0	1029	20	- .97	-22.3	5.8	1077	80	-1.77	-40.7	16.8
9007	10	-1.11	-25.6	7.7	1030	10	- .68	-15.5	3.0	1078	70	-1.16	-26.8	14.5
9008	100	-1.19	-27.4	7.2	1031	90	-1.86	-42.2	20.0	1079	80	- .87	-20.1	18.1
9009	70	-1.68	-38.8	5.5	1032	90	-1.78	-40.8	21.5	1080	110	- .76	-17.7	17.6
9100	40	-2.11	-48.5	4.4	1033	100	-1.41	-32.5	24.2	1081	140	- .65	-13.0	13.5
9101	10	-2.27	-50.9	3.9	1034	100	- .94	-18.7	21.6	1082	120	- .62	-14.2	11.9
9102	10	-1.31	-30.2	7.7	1035	100	- .90	-20.1	20.7	1083	30	-1.09	-25.1	9.4
9103	150	-1.28	-29.9	5.5	1036	100	- .88	-20.6	19.6	1084	30	-1.25	-28.8	3.0
9104	140	-1.22	-29.3	5.9	1037	110	- .89	-20.5	14.3	1085	30	-1.15	-26.3	1.1
9105	10	-1.33	-30.8	2.2	1038	30	-1.03	-23.9	9.7	1086	10	-1.16	-26.6	1.1
9106	10	-1.53	-35.3	2.2	1039	30	-1.34	-30.8	3.3	1087	10	-1.13	-25.9	1.6
9107	10	-1.31	-30.2	4.4	1040	30	-1.39	-31.1	1.6	1088	10	- .92	-21.3	1.5
9108	50	-2.41	-55.5	4.4	1041	10	-1.27	-29.3	3.3	1089	150	- .69	-16.0	2.5
9109	160	-1.93	-44.4	8.0	1042	10	-1.15	-26.6	3.0	1090	150	- .54	-12.4	1.2
9201	70	-1.95	-44.4	8.0	1043	10	-1.16	-26.6	3.3	1091	90	-1.48	-34.4	13.9
9202	60	1.07	-15.0	22.1	1044	30	- .81	-18.2	6.3	1092	80	-1.49	-34.4	12.0
9203	70	-1.67	-12.9	15.3	1045	160	- .74	-17.1	5.7	1093	110	-1.77	-40.7	16.5
9204	70	-1.01	-23.3	13.3	1046	100	-1.45	-33.3	20.3	1094	110	- .88	-19.6	20.3
9205	10	-1.65	-10.8	13.9	1047	100	-1.99	-45.9	19.4	1095	120	- .86	-17.6	19.8
9206	100	-2.40	-9.3	20.6	1048	100	-1.52	-33.3	19.4	1096	110	- .68	-14.7	15.8
10001	100	-2.70	-6.2	20.6	1049	90	- .90	-20.7	20.6	1097	130	- .72	-16.5	9.9
10002	90	-1.51	-34.8	15.0	1050	110	- .77	-13.5	17.7	1098	50	- .96	-22.1	4.7
10003	100	-1.86	-33.8	13.7	1051	130	- .72	-15.5	16.5	1099	30	-1.00	-23.0	1.0
10004	100	-1.34	-30.8	13.4	1052	130	- .72	-16.6	13.6	1100	10	- .95	-21.8	1.4
10005	150	-1.33	-30.8	13.4	1053	40	-1.07	-24.4	12.4	1101	10	-1.23	-28.4	2.0
10006	120	-1.32	-29.9	13.0	1054	40	-1.20	-27.7	2.0	1102	10	-1.06	-24.4	0.0
10007	130	-1.39	-33.2	12.0	1055	20	-1.25	-28.9	1.9	1103	150	- .86	-19.0	5.5
10008	90	-1.40	-33.2	2.0	1056	10	-1.36	-31.1	2.0	1104	140	- .59	-13.5	1.1
10009	80	-1.53	-33.7	5.5	1057	10	-1.36	-31.1	4.4	1105	160	- .78	-18.0	9.9
10100	30	-1.33	-33.1	7.7	1058	10	-1.07	-24.1	4.1	1106	90	-2.13	-49.0	10.1
10101	30	-1.51	-34.4	4.4	1059	160	- .63	-14.4	6.0	1107	80	-1.47	-33.3	15.3
10102	10	-1.77	-40.4	4.4	1060	60	-1.32	-29.9	4.0	1108	100	-1.21	-27.7	17.8
10103	10	-1.42	-33.6	6.6	1061	90	-1.72	-32.6	18.1	1109	110	-1.07	-24.4	20.2
10104	10	-1.04	-23.3	3.3	1062	90	-1.49	-34.3	18.0	1110	100	- .71	-12.8	16.3
10105	30	- .88	-18.0	4.0	1063	80	-1.40	-32.2	19.8	1111	110	- .75	-17.1	17.4
10106	90	-1.61	-37.7	2.0	1064	110	- .91	-20.8	20.0	1112	110	- .84	-18.2	19.3
10107	90	-1.56	-35.9	2.0	1065	150	- .82	-14.2	18.8	1113	30	-1.04	-23.3	14.4

TABLE 6A. PEAK LOADS FOR CONFIGURATION B :
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK		TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK		TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK		POSITIVE PEAK	
			PSF	PSF	PSF	PSF				PSF	PSF	PSF	PSF							
11114	130	- .60	-13.9	11.5	2036	50	-1.02	-23.4	19.4	2082	10	-1.02	-23.6	14.5						
11115	30	- .79	-18.1	9.55	2037	50	-1.19	-27.3	20.5	2083	50	- .98	-22.5	13.7						
11116	30	- .87	-20.1	4.4	2038	50	-1.44	-33.2	22.2	2084	30	-1.08	-25.0	12.4						
11117	30	- .95	-21.9	2.9	2039	40	-1.56	-35.5	22.7	2085	20	-1.11	-25.6	14.8						
11118	10	- .96	-20.7	0.0	2040	30	-1.70	-39.9	21.0	2086	10	-1.19	-27.5	17.5						
11119	160	-1.13	-26.0	1.0	2041	30	-1.69	-38.9	19.6	2087	20	-1.51	-34.7	14.7						
11220	150	- .94	-21.7	2.7	2042	10	-1.57	-36.2	17.1	2088	10	-1.73	-39.8	17.0						
11221	140	- .73	-16.9	9.9	2043	10	-1.86	-42.9	22.6	2089	10	-2.72	-62.5	19.9						
11222	30	- .68	-15.5	7.7	2044	10	-2.20	-50.6	21.4	2090	10	-2.03	-46.7	18.6						
11223	60	- .58	-10.5	13.2	2045	10	-2.21	-50.8	22.4	2091	160	- .42	-9.6	33.3						
11224	60	- .43	-9.3	10.0	2046	40	- .67	-15.5	8.9	2092	30	- .34	-6.6	37.7						
11225	20	- .32	-7.7	7.7	2047	30	- .82	-18.9	8.8	2093	20	- .54	-7.3	12.4						
20001	160	- .77	-17.7	7.7	2048	30	- .69	-15.9	11.3	2094	30	- .46	-10.3	10.6						
20002	20	- .61	-14.0	11.3	2049	20	- .71	-13.3	16.4	2095	50	- .57	-10.3	11.1						
20003	10	- .65	-14.0	14.2	2050	10	- .90	-20.8	19.2	2096	10	- .81	-18.6	17.4						
20004	20	- .75	-17.2	14.2	2051	20	- .80	-18.5	22.5	2097	20	- .76	-17.3	10.6						
20005	20	-1.16	-26.7	14.4	2052	60	-1.20	-27.5	17.2	2098	20	- .56	-13.0	10.2						
20006	40	-1.33	-35.3	14.4	2053	40	-1.11	-31.1	20.0	2099	30	- .75	-17.3	10.6						
20007	50	-1.32	-34.6	16.2	2054	40	-1.11	-31.6	20.2	2100	30	- .76	-17.3	8.8						
20008	30	-1.33	-34.6	16.3	2055	30	-1.11	-33.3	21.9	2101	10	-1.14	-26.1	14.7						
20009	30	-1.33	-34.6	17.1	2056	30	-1.11	-33.9	16.2	2102	10	-1.59	-36.5	14.4						
20010	10	-1.33	-34.6	17.1	2057	10	-1.11	-34.7	15.4	2103	10	-1.92	-44.2	18.9						
20011	20	-1.45	-33.2	21.5	2058	10	-1.86	-42.7	20.7	2104	10	-1.98	-45.4	17.0						
20012	10	-1.26	-29.0	19.7	2059	10	-2.14	-49.3	22.1	2105	10	-1.62	-37.3	18.8						
20013	10	-1.92	-44.4	20.3	2060	10	-2.99	-64.8	20.1	2106	70	- .42	-9.6	9.9						
20014	10	-2.35	-54.0	17.8	2061	30	-1.52	-12.0	4.4	2107	20	- .51	-8.6	11.1						
20015	10	-2.96	-66.7	18.8	2062	40	-1.77	-17.6	9.2	2108	30	- .48	-8.5	11.0						
20016	30	-2.74	-66.7	18.8	2063	20	-1.59	-13.7	12.1	2109	70	-1.16	-26.7	10.8						
20017	20	-1.76	-17.5	11.7	2064	20	-1.61	-11.7	14.0	2110	10	- .54	-12.5	11.1						
20018	20	-1.77	-14.1	17.7	2065	10	-1.69	-15.0	16.0	2111	10	- .97	-7.1	22.2						
20019	20	-1.78	-14.3	17.9	2066	10	-1.91	-21.0	16.4	2112	10	- .89	-6.4	20.0						
20020	20	-1.79	-18.3	17.5	2067	10	-1.11	-25.6	15.7	2113	10	- .80	-7.3	18.3						
20021	60	-1.38	-22.5	20.0	2068	30	-1.18	-27.2	16.8	2114	20	- .83	-7.8	19.0						
20022	10	-1.35	-21.1	22.0	2069	30	-1.35	-30.9	17.5	2115	60	- .46	-9.9	10.0						
20023	50	-1.28	-22.8	22.6	2070	30	-1.33	-31.7	18.7	2116	60	- .58	-13.3	10.0						
20024	30	-1.35	-31.1	19.2	2071	20	-1.28	-29.9	15.3	2117	10	- .57	-8.9	13.3						
20025	50	-1.41	-33.1	23.3	2072	10	-1.62	-37.4	15.3	2118	10	- .73	-10.6	16.6						
20026	30	-1.28	-28.9	22.5	2073	10	-2.00	-46.1	22.2	2119	10	- .70	-16.0	14.4						
20027	10	-1.33	-34.0	24.4	2074	10	-2.25	-51.7	19.3	2120	10	- .69	-15.9	15.1						
20028	10	-1.81	-41.1	22.0	2075	10	-2.22	-51.0	19.6	2121	10	-1.03	-23.7	14.0						
20029	10	-2.41	-55.5	24.4	2076	160	-1.43	-14.4	7.2	2122	10	-1.18	-27.2	13.4						
20030	10	-2.77	-65.2	22.2	2077	50	-1.33	-14.4	1.1	2123	10	-1.87	-43.0	17.2						
20031	20	-2.73	-66.8	26.9	2078	20	-1.55	-12.7	10.5	2124	10	-2.15	-50.3	13.7						
20032	10	-2.42	-49.8	34.4	2079	60	-1.33	-12.1	12.1	2125	10	- .45	-5.5	14.4						
20033	30	-1.66	-19.9	15.3	2080	30	-1.99	-13.5	13.0	2126	10	- .52	-5.1	12.0						
20034	20	-1.74	-12.5	16.9	2081	30	-1.67	-15.3	15.4	2127	10	- .51	-7.9	11.8						
20035	50	-1.86	-19.8	19.6																

TABLE 6A. PEAK LOADS FOR CONFIGURATION B :
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

* * 15 GREATEST PRESSURE COEFFICIENT MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PSF	POSITIVE PEAK -----
2008	30	-3.06	-70.4	16.5
2009	30	-2.93	-67.4	17.1
2015	10	-2.90	-66.7	18.8
2089	10	-2.72	-62.5	19.7
1001	100	-2.70	-62.1	20.4
2125	10	-2.45	-56.5	14.5
2029	10	-2.41	-55.5	24.4
918	50	-2.41	-55.4	4.1
2067	50	-2.37	-54.6	16.2
2014	10	-2.35	-54.0	17.6
2030	10	-2.27	-52.2	23.2
2074	10	-2.25	-51.7	19.5
2075	10	-2.22	-51.0	19.6
2045	10	-2.21	-50.8	22.4
901	50	-2.21	-50.8	6.7

TABLE 6A. PEAK LOADS FOR CONFIGURATION C :
LARGEST VALUES OF CLADDING LOAD

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PSF	POSITIVE PEAK -----	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PSF	POSITIVE PEAK -----	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PSF	POSITIVE PEAK -----
906	214	-2.61	-60.1	11.7	2007	46	-2.74	-63.0	7.2	2015	16	-3.85	-88.6	16.4
1007	240	-2.69	-61.9	11.5	2008	36	-3.05	-70.2	5.3	2074	12	-2.49	-57.2	20.7
1008	226	-2.60	-59.9	10.3	2009	34	-2.61	-60.1	3.4					

TABLE 6B. COMPARISON OF CONFIGURATIONS A AND B : SUN GAS BUILDING, DALLAS
TAPS WHERE NEGATIVE PEAK LOAD FOR CONFIG. B EXCEEDED THAT FOR CONFIG. A BY 5 PSF
REF. PRESSURE = 23.0 PSF

TAP	AZIMUTH	A CONFIG. PSF LOAD	AZIMUTH	B CONFIG PSF LOAD
902	310	-29.0	20	-37.6
1001	80	-38.3	100	-62.1
1002	80	-38.4	90	-34.8
1003	80	-31.2	100	-38.1
1016	80	-29.5	90	-37.0
1017	80	-30.8	90	-35.9
1031	80	-31.9	90	-42.8
1032	70	-34.1	90	-40.8
1047	90	-38.5	100	-45.9
1061	80	-33.7	90	-39.6
1106	80	-43.7	90	-49.0
2008	40	-64.7	30	-70.4
2014	20	-48.4	10	-54.0
2022	50	-24.8	10	-31.1
2028	10	-34.9	10	-41.5
2044	20	-34.9	10	-50.6
2089	10	-32.4	10	-62.5
2102	0	-30.0	10	-36.5
2124	10	-37.8	10	-50.3
2125	10	-41.8	10	-56.5

TABLE 6B. COMPARISON OF CONFIGURATIONS A AND C : SUN GAS BUILDING, DALLAS
TAPS WHERE NEGATIVE PEAK LOAD FOR CONFIG. C EXCEEDED THAT FOR CONFIG. A BY 5 PSF
REF. PRESSURE = 23.4 PSF

TAP	AZIMUTH	A CONFIG. PSF LOAD	AZIMUTH	C CONFIG. PSF LOAD
2008	40	-64.7	36	-70.2
2015	20	-63.6	16	-88.6

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : SUN GAS BUILDING, DALLAS
 CONFIGURATION A REFERENCE PRESSURE 23.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	-1152.3	-20.4	-	-173.6	-52.9
10	-889.3	-9.9	-	-137.1	-65.1
20	-613.2	-10.3	2.8	-97.7	-34.5
30	-713.1	-151.6	27.6	-121.6	-71.1
40	-733.8	-119.2	22.5	-126.1	-70.5
50	-592.0	-8.5	2.4	-100.1	-54.4
60	-385.9	79.7	-12.7	-63.9	-41.0
70	-161.8	149.0	-25.0	-23.6	-16.4
80	220.1	249.0	-42.1	38.3	0.4
90	509.3	326.9	-53.7	79.0	33.3
100	650.9	439.9	-69.2	97.9	55.4
110	668.9	527.5	-82.1	129.3	79.7
120	1065.7	532.5	-83.4	161.7	119.2
130	1221.4	492.0	-77.0	185.5	120.0
140	1327.3	420.0	-65.7	201.4	133.9
150	1231.7	292.4	-46.0	191.2	116.6
160	1082.6	181.0	-29.0	169.3	93.6
170	729.8	122.4	-19.3	114.7	59.9
180	785.7	-	-2.7	125.4	-46.5
190	719.3	-45.6	5.9	119.6	-58.9
200	571.3	-86.1	12.3	96.0	-67.4
210	583.3	103.1	-16.4	97.4	-69.7
220	685.6	126.6	-18.9	116.2	-67.6
230	769.1	116.5	-13.0	128.7	-58.3
240	775.5	-84.0	15.1	121.6	-49.2
250	334.0	-233.5	37.0	52.6	-21.2
260	-86.7	-348.9	53.6	-11.6	8.8
270	-527.9	-459.4	71.1	-74.9	28.8
280	-779.4	-551.0	81.8	-111.5	32.3
290	-946.9	-551.7	83.9	-132.9	28.8
300	-1138.9	-491.2	74.8	-160.9	23.3
310	-1267.9	-398.4	60.6	-182.4	18.2
320	-1314.7	-294.0	44.1	-191.7	8.6
330	-1266.2	-207.5	29.4	-187.1	4.4
340	-1265.2	-101.5	11.9	-180.4	0.0
350	-1199.4	-	-	-	-

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 CONFIGURATION B REFERENCE PRESSURE 23.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
10	-863.1	-60.0	10.2	-132.2	-62.2
20	-800.2	-130.0	25.4	-127.9	-61.6
30	-767.4	-127.6	26.3	-127.6	-73.8
40	-645.5	-84.9	16.7	-108.6	-61.7
50	-547.4	-53.8	12.2	-93.9	-45.7
60	-346.3	26.2	-2.8	-56.8	-23.8
70	-47.6	121.0	-18.8	-9.4	-1.3
80	228.2	205.2	-34.5	36.7	18.8
90	419.2	226.3	-41.5	69.9	24.4
100	624.3	271.0	-49.4	103.4	23.9
110	885.0	382.1	-65.5	136.2	21.5
120	1057.1	438.3	-70.4	159.7	14.8
130	1188.8	390.1	-61.4	178.9	8.7
140	1287.1	318.2	-49.9	194.8	.8
150	1219.5	233.6	-33.3	183.6	-7.0
160	1104.7	158.9	-23.8	168.8	-13.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1												
WIND DIRECTION 0		SUN GAS BUILDING, DALLAS						GUST FACTOR 1.32				
		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF				
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-1152.3	-20.4	-.9	-173.6	-52.9
1ST	17.00	-35.0	-12.8	1702	434	-20.5	-29.4	-1117.3	-7.7	-1.1	-154.3	-54.1
2ND	37.00	-77.2	-9.8	4724	2168	-16.3	-4.5	-1040.1	2.2	-1.2	-132.7	-51.1
3RD	49.50	-47.1	-3.6	3125	1438	-15.1	-2.5	-993.0	5.8	-1.1	-120.0	-48.9
4TH	62.00	-46.1	-2.6	3125	1438	-14.8	-1.8	-946.9	8.3	-1.0	-107.9	-46.6
5TH	74.50	-45.2	-1.6	3125	1438	-14.5	-1.1	-901.6	9.9	-.9	-96.3	-44.2
6TH	87.00	-44.3	-.5	3125	1438	-14.2	-.4	-857.4	10.5	-.8	-85.4	-41.7
7TH	99.50	-45.8	-.3	3125	1438	-14.7	-.2	-811.5	10.7	-.7	-74.9	-39.1
8TH	112.00	-47.5	-.0	3125	1438	-15.2	-.0	-764.0	10.7	-.5	-65.1	-36.5
9TH	124.50	-49.2	.2	3125	1438	-15.8	.1	-714.8	10.5	-.4	-55.8	-33.8
10TH	137.00	-51.1	.5	3125	1438	-16.3	.4	-663.7	10.0	-.3	-47.2	-31.2
11TH	149.50	-53.2	.8	3125	1438	-17.0	.5	-610.5	9.2	-.1	-39.3	-28.4
12TH	162.00	-55.4	1.0	3125	1438	-17.7	.7	-555.1	8.2	-.0	-32.0	-25.7
13TH	174.50	-57.5	1.3	3125	1438	-18.4	.9	-497.6	6.9	.1	-25.4	-22.9
14TH	187.00	-58.9	1.8	3125	1438	-18.9	1.3	-438.7	5.1	.1	-19.5	-20.1
15TH	199.50	-60.4	2.4	3125	1438	-19.3	1.6	-378.3	2.7	.2	-14.4	-17.3
16TH	212.00	-61.8	2.9	3125	1438	-19.8	2.0	-316.5	-.2	.2	-10.1	-14.4
17TH	224.50	-62.7	2.6	3125	1438	-20.1	1.8	-253.8	-2.8	.2	-6.5	-11.5
18TH	237.00	-63.0	1.5	3125	1438	-20.2	1.0	-190.9	-4.3	.1	-3.7	-8.6
19TH	249.50	-63.3	.4	3125	1438	-20.3	.3	-127.6	-4.7	.1	-1.8	-5.9
20TH	262.00	-63.7	-.9	3125	1438	-20.4	-.6	-63.8	-3.8	.0	-.6	-3.1
TOP	279.50	-63.8	-3.8	4375	2013	-14.6	-1.9	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : SUN GAS BUILDING, DALLAS												
WIND DIRECTION 10		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00											
1ST	17.00	-21.1	-8.3	1702	434	-12.4	-19.0	-889.3	-9.9	.6	-137.1	-65.1
2ND	37.00	-55.7	-6.3	4724	2168	-11.8	-2.9	-868.2	-1.7	.5	-122.1	-65.7
3RD	49.50	-34.8	-1.6	3125	1438	-11.1	-1.1	-812.5	4.6	.6	-105.3	-62.4
4TH	62.00	-33.9	-.8	3125	1438	-10.8	-.6	-777.7	6.2	.6	-95.4	-59.9
5TH	74.50	-33.0	-.0	3125	1438	-10.6	-.0	-743.8	7.0	.7	-85.9	-57.3
6TH	87.00	-32.2	.7	3125	1438	-10.3	.5	-710.8	7.0	.8	-76.8	-54.6
7TH	99.50	-34.3	1.0	3125	1438	-11.0	.7	-678.6	6.3	.9	-68.1	-51.9
8TH	112.00	-36.6	1.2	3125	1438	-11.7	.8	-644.3	5.4	1.0	-59.8	-49.0
9TH	124.50	-38.9	1.4	3125	1438	-12.5	1.0	-607.6	4.2	1.0	-52.0	-45.9
10TH	137.00	-40.7	1.8	3125	1438	-13.0	1.3	-568.7	2.7	1.1	-44.6	-42.7
11TH	149.50	-42.2	2.2	3125	1438	-13.5	1.5	-528.0	.9	1.1	-37.8	-39.4
12TH	162.00	-43.7	2.6	3125	1438	-14.0	1.8	-485.8	-1.3	1.1	-31.5	-36.0
13TH	174.50	-44.2	2.9	3125	1438	-14.5	2.0	-442.1	-3.9	1.0	-25.7	-32.5
14TH	187.00	-45.2	2.4	3125	1438	-14.8	1.7	-396.9	-6.8	1.0	-20.4	-28.9
15TH	199.50	-46.2	1.8	3125	1438	-14.8	1.7	-350.7	-9.2	.9	-15.7	-25.4
16TH	212.00	-47.3	1.2	3125	1438	-15.1	1.2	-303.4	-11.0	.8	-11.6	-21.7
17TH	224.50	-48.4	1.2	3125	1438	-15.5	.8	-255.0	-12.2	.6	-8.2	-18.1
18TH	237.00	-49.4	.4	3125	1438	-15.8	.3	-205.6	-12.7	.4	-5.3	-14.5
19TH	249.50	-50.5	-.8	3125	1438	-16.2	-.5	-155.1	-11.9	.3	-3.0	-10.9
20TH	262.00	-51.6	-2.0	3125	1438	-16.5	-1.4	-103.6	-9.9	.2	-1.4	-7.4
20TH	262.00	-52.8	-3.3	3125	1438	-16.9	-2.3	-50.7	-6.6	.1	-.4	-4.0
TOP	279.50	-50.7	-6.6	4375	2013	-11.6	-3.3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 20

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-15.3	-5.4	1702	434	-9.0	-12.5	-613.2	-10.3	2.8	-97.7	-54.5
1ST	17.00	-36.0	-.2	4724	2168	-7.6	-.1	-597.9	-4.9	2.7	-87.4	-54.9
2ND	37.00	-22.4	.9	3125	1438	-7.2	.6	-539.4	-5.6	2.6	-75.8	-52.6
3RD	49.50	-21.9	.8	3125	1438	-7.0	.5	-517.5	-6.4	2.5	-68.9	-50.7
4TH	62.00	-21.4	.6	3125	1438	-6.8	.4	-496.2	-7.0	2.4	-62.3	-48.8
5TH	74.50	-20.8	.5	3125	1438	-6.7	.4	-475.4	-7.6	2.4	-55.9	-46.8
6TH	87.00	-22.2	.7	3125	1438	-7.1	.5	-453.2	-8.3	2.3	-49.9	-44.7
7TH	99.50	-23.6	.9	3125	1438	-7.5	.6	-429.6	-9.2	2.2	-44.1	-42.4
8TH	112.00	-25.0	1.1	3125	1438	-8.0	.8	-404.6	-10.3	2.1	-38.5	-40.0
9TH	124.50	-26.2	1.2	3125	1438	-8.4	.8	-378.4	-11.5	1.9	-33.3	-37.5
10TH	137.00	-27.4	1.0	3125	1438	-8.8	.7	-351.0	-12.5	1.8	-28.4	-34.8
11TH	149.50	-28.6	.8	3125	1438	-9.2	.6	-322.4	-13.3	1.7	-23.9	-32.1
12TH	162.00	-29.7	.7	3125	1438	-9.5	.5	-292.7	-14.0	1.5	-19.7	-29.2
13TH	174.50	-30.8	.7	3125	1438	-9.9	.5	-261.9	-14.6	1.3	-15.8	-26.3
14TH	187.00	-31.9	.7	3125	1438	-10.2	.5	-229.9	-15.3	1.1	-12.4	-23.2
15TH	199.50	-33.0	.7	3125	1438	-10.6	.5	-196.9	-16.0	1.0	-9.3	-20.1
16TH	212.00	-34.6	.0	3125	1438	-11.1	.0	-162.3	-16.0	.8	-6.6	-17.0
17TH	224.50	-36.6	-1.3	3125	1438	-11.7	-.9	-125.7	-14.8	.6	-4.4	-13.7
18TH	237.00	-38.6	-2.6	3125	1438	-12.3	-1.8	-87.2	-12.2	.4	-2.6	-10.5
19TH	249.50	-40.9	-3.9	3125	1438	-13.1	-2.7	-46.3	-8.3	.2	-1.2	-7.2
20TH	262.00	-46.3	-8.3	4375	2013	-10.6	-4.1	0.0	0.0	.1	-.4	-4.0
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-15.8	-7.8	1702	434	-9.3	-17.9	-713.1	-151.6	27.6	-121.6	-71.1
1ST	17.00	-29.1	-4.4	4724	2168	-6.2	-2.2	-697.3	-143.8	25.1	-109.6	-71.5
2ND	37.00	-18.2	0	3125	1438	-5.8	0	-668.2	-143.4	22.2	-95.9	-68.9
3RD	49.50	-19.2	-0.8	3125	1438	-6.1	-0.6	-650.0	-143.5	20.5	-87.7	-66.8
4TH	62.00	-20.1	-1.7	3125	1438	-6.4	-1.2	-630.9	-142.6	18.7	-79.7	-64.5
5TH	74.50							-610.7	-140.9	16.9	-71.9	-62.0
6TH	87.00							-589.7	-138.3	15.1	-64.4	-59.3
7TH	99.50	-23.1	-3.7	3125	1438	-7.4	-2.6	-566.5	-134.6	13.4	-57.2	-56.4
8TH	112.00	-25.3	-4.8	3125	1438	-8.1	-3.3	-541.2	-129.8	11.8	-50.3	-53.3
9TH	124.50	-27.4	-5.9	3125	1438	-8.8	-4.1	-513.8	-124.0	10.2	-43.7	-49.9
10TH	137.00	-29.4	-6.8	3125	1438	-9.4	-4.8	-484.4	-117.1	8.7	-37.4	-46.4
11TH	149.50	-31.6	-7.9	3125	1438	-10.1	-5.5	-452.8	-109.3	7.3	-31.6	-42.7
12TH	162.00	-33.8	-8.9	3125	1438	-10.8	-6.2	-419.0	-100.4	6.0	-26.1	-38.8
13TH	174.50	-35.9	-9.8	3125	1438	-11.5	-6.8	-383.1	-90.6	4.8	-21.1	-34.7
14TH	187.00	-38.1	-10.3	3125	1438	-12.2	-7.2	-345.0	-80.3	3.7	-16.6	-30.6
15TH	199.50	-40.3	-10.8	3125	1438	-12.9	-7.5	-304.7	-69.5	2.8	-12.5	-26.4
16TH	212.00	-42.6	-11.2	3125	1438	-13.6	-7.8	-262.2	-58.2	2.0	-9.0	-22.1
17TH	224.50	-45.0	-11.1	3125	1438	-14.4	-7.7	-217.2	-47.1	1.3	-6.0	-17.7
18TH	237.00	-47.5	-10.7	3125	1438	-15.2	-7.5	-169.6	-36.4	.8	-3.5	-13.5
19TH	249.50	-50.1	-10.4	3125	1438	-16.0	-7.2	-119.5	-26.0	.4	-1.7	-9.3
20TH	262.00	-53.2	-10.0	3125	1438	-17.0	-7.0	-66.3	-16.0	.1	-.6	-5.1
TOP	279.50	-66.3	-16.0	4375	2013	-15.2	-7.9	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-17.8	-8.1	1702	434	-10.5	-18.6	-733.8	-119.2	22.5	-126.1	-70.5
1ST	17.00	-27.3	2.5	4724	2168	-5.8	1.1	-716.0	-111.1	20.5	-113.8	-71.0
2ND	37.00	-16.9	1.7	3125	1438	-5.4	1.2	-688.6	-113.6	18.3	-99.7	-68.5
3RD	49.50	-18.4	.9	3125	1438	-5.9	.6	-671.7	-115.3	16.8	-91.2	-66.5
4TH	62.00	-19.8	.1	3125	1438	-6.4	.0	-653.3	-116.2	15.4	-82.9	-64.3
5TH	74.50	-21.3	-.8	3125	1438	-6.8	-.6	-633.5	-116.3	13.9	-74.9	-61.8
6TH	87.00	-23.5	-2.0	3125	1438	-7.5	-1.4	-612.2	-115.5	12.5	-67.1	-59.1
7TH	99.50	-25.9	-3.1	3125	1438	-8.3	-2.2	-588.7	-113.5	11.0	-59.6	-56.1
8TH	112.00	-28.2	-4.3	3125	1438	-9.0	-3.0	-562.8	-110.4	9.6	-52.4	-52.9
9TH	124.50	-30.5	-5.5	3125	1438	-9.8	-3.9	-534.6	-106.1	8.3	-45.5	-49.5
10TH	137.00	-33.1	-7.1	3125	1438	-10.6	-4.9	-504.1	-100.5	7.0	-39.1	-45.8
11TH	149.50	-35.7	-8.6	3125	1438	-11.4	-6.0	-471.0	-93.5	5.8	-33.0	-42.0
12TH	162.00	-38.2	-10.0	3125	1438	-12.2	-6.9	-435.3	-84.9	4.7	-27.3	-38.0
13TH	174.50	-39.8	-10.0	3125	1438	-12.7	-7.0	-397.1	-74.9	3.7	-22.1	-33.8
14TH	187.00	-41.4	-10.1	3125	1438	-13.2	-7.0	-357.3	-64.9	2.8	-17.4	-29.6
15TH	199.50	-42.9	-10.1	3125	1438	-13.7	-7.0	-315.9	-54.9	2.1	-13.2	-25.3
16TH	212.00	-45.3	-9.6	3125	1438	-14.5	-6.7	-273.0	-44.8	1.4	-9.5	-21.0
17TH	224.50	-48.3	-8.9	3125	1438	-15.5	-6.2	-227.7	-35.2	.9	-6.4	-16.7
18TH	237.00	-51.4	-8.2	3125	1438	-16.4	-5.7	-179.4	-26.3	.5	-3.8	-12.6
19TH	249.50	-55.1	-7.6	3125	1438	-17.6	-5.3	-128.1	-18.1	.3	-1.9	-8.6
20TH	262.00	-73.0	-10.5	4375	2013	-16.7	-5.2	-73.0	-10.5	.1	-.6	-4.7
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1												
WIND DIRECTION 50		CONFIGURATION A				SUN GAS BUILDING, DALLAS REFERENCE PRESSURE 23.0 PSF				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-592.0	-8.5	2.4	-100.1	-54.4
1ST	17.00	-19.4	-7.6	1702	434	-11.4	-17.5	-572.5	-1.0	2.3	-90.2	-55.0
2ND	37.00	-23.4	4.6	4724	2168	-4.9	2.1	-549.2	-5.6	2.3	-79.0	-53.3
3RD	49.50	-14.5	3.0	3125	1438	-4.7	2.1	-534.6	-8.6	2.2	-72.2	-51.9
4TH	62.00	-15.5	2.7	3125	1438	-5.0	1.9	-519.1	-11.2	2.1	-65.7	-50.2
5TH	74.50	-16.4	2.4	3125	1438	-5.3	1.7	-502.7	-13.6	1.9	-59.3	-48.4
6TH	87.00	-17.4	2.0	3125	1438	-5.6	1.4	-485.4	-15.6	1.7	-53.1	-46.3
7TH	99.50	-19.4	1.3	3125	1438	-6.2	.9	-466.0	-17.0	1.5	-47.2	-44.0
8TH	112.00	-21.4	.6	3125	1438	-6.8	.4	-444.6	-17.6	1.3	-41.5	-41.4
9TH	124.50	-23.5	-.1	3125	1438	-7.5	-.1	-421.2	-17.5	1.1	-36.1	-38.6
10TH	137.00	-24.9	-.6	3125	1438	-8.0	-.4	-396.2	-16.9	.9	-30.9	-35.6
11TH	149.50	-26.2	-1.2	3125	1438	-8.4	-.8	-370.1	-15.7	.7	-26.2	-32.5
12TH	162.00	-27.4	-1.8	3125	1438	-8.8	-1.2	-342.7	-13.9	.5	-21.7	-29.2
13TH	174.50	-28.6	-2.3	3125	1438	-9.1	-1.6	-314.1	-11.7	.3	-17.6	-25.9
14TH	187.00	-30.2	-2.4	3125	1438	-9.7	-1.7	-283.9	-9.2	.2	-13.9	-22.5
15TH	199.50	-31.9	-2.6	3125	1438	-10.2	-1.8	-252.0	-6.6	.1	-10.5	-19.1
16TH	212.00	-33.6	-2.8	3125	1438	-10.8	-1.9	-218.4	-3.8	.0	-7.6	-15.5
17TH	224.50	-36.0	-2.3	3125	1438	-11.5	-1.6	-182.4	-1.6	-.0	-5.1	-12.1
18TH	237.00	-38.8	-1.5	3125	1438	-12.4	-1.0	-143.5	-.1	-.0	-3.0	-8.8
19TH	249.50	-41.7	-.7	3125	1438	-13.3	-.5	-101.9	.6	-.0	-1.5	-5.8
20TH	262.00	-44.8	.0	3125	1438	-14.3	.0	-57.1	.6	-.0	-.5	-3.0
TOP	279.50	-57.1	.6	4375	2013	-13.0	.3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-20.0	-6.0	1702	434	-11.7	-13.8	-385.9	79.7	-12.7	-63.9	-31.0
1ST	17.00	-16.0	8.6	4724	2168	-3.4	4.0	-365.9	85.7	-11.3	-57.5	-31.5
2ND	37.00	-8.6	5.4	3125	1438	-2.7	3.7	-349.9	77.1	-9.6	-50.4	-30.8
3RD	49.50	-9.4	5.0	3125	1438	-3.0	3.5	-341.3	71.7	-8.7	-46.1	-30.1
4TH	62.00	-10.1	4.7	3125	1438	-3.2	3.3	-332.0	66.7	-7.8	-41.9	-29.2
5TH	74.50	-10.9	4.4	3125	1438	-3.5	3.1	-321.8	62.0	-7.0	-37.8	-28.2
6TH	87.00	-12.1	4.1	3125	1438	-3.9	2.9	-311.0	57.6	-6.3	-33.8	-27.1
7TH	99.50	-13.3	3.8	3125	1438	-4.3	2.6	-298.9	53.5	-5.6	-30.0	-25.7
8TH	112.00	-14.6	3.5	3125	1438	-4.7	2.4	-285.6	49.7	-4.9	-26.4	-24.3
9TH	124.50	-15.8	3.2	3125	1438	-5.1	2.2	-270.9	46.2	-4.3	-22.9	-22.6
10TH	137.00	-17.1	2.7	3125	1438	-5.5	1.9	-255.1	43.0	-3.8	-19.6	-20.9
11TH	149.50	-18.3	2.3	3125	1438	-5.9	1.6	-238.1	40.3	-3.3	-16.5	-19.0
12TH	162.00	-19.4	2.0	3125	1438	-6.2	1.4	-219.7	38.0	-2.8	-13.6	-17.0
13TH	174.50	-20.4	2.2	3125	1438	-6.5	1.5	-200.3	36.0	-2.3	-11.0	-14.9
14TH	187.00	-21.3	2.3	3125	1438	-6.8	1.6	-179.9	33.8	-1.9	-8.6	-12.8
15TH	199.50	-22.3	2.5	3125	1438	-7.1	1.7	-158.6	31.5	-1.5	-6.5	-10.6
16TH	212.00	-23.4	3.3	3125	1438	-7.5	2.3	-136.3	29.0	-1.1	-4.7	-8.5
17TH	224.50	-24.6	4.4	3125	1438	-7.9	3.1	-112.9	25.7	-.8	-3.1	-6.4
18TH	237.00	-25.7	5.6	3125	1438	-8.2	3.9	-88.3	21.3	-.5	-1.9	-4.6
19TH	249.50	-27.2	6.6	3125	1438	-8.7	4.6	-62.6	15.6	-.2	-.9	-2.9
20TH	262.00	-35.4	9.1	4375	2013	-8.1	4.5	-35.4	9.1	-.1	-.3	-1.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : SUN GAS BUILDING, DALLAS												
WIND DIRECTION 70		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00											
1ST	17.00	-19.5	-4.0	1702	434	-11.4	-9.2	-161.8	149.0	-25.0	-23.6	-6.4
2ND	37.00	-5.6	11.0	4724	2168	-1.2	5.1	-142.3	153.0	-22.4	-21.0	-6.9
3RD	49.50	-3.2	6.5	3125	1438	-1.0	4.5	-136.7	142.0	-19.5	-18.2	-7.4
4TH	62.00	-3.8	6.3	3125	1438	-1.2	4.4	-133.5	135.5	-17.7	-16.5	-7.6
5TH	74.50	-4.5	6.0	3125	1438	-1.2	4.4	-129.7	129.3	-16.1	-14.9	-7.7
6TH	87.00	-4.5	6.0	3125	1438	-1.5	4.2	-125.1	123.2	-14.5	-13.3	-7.7
7TH	99.50	-5.2	5.8	3125	1438	-1.7	4.1	-119.9	117.4	-13.0	-11.8	-7.6
8TH	112.00	-5.6	5.8	3125	1438	-1.8	4.0	-114.3	111.5	-11.6	-10.3	-7.4
9TH	124.50	-6.0	5.8	3125	1438	-1.9	4.0	-108.3	105.8	-10.2	-8.9	-7.1
10TH	137.00	-6.4	5.8	3125	1438	-2.1	4.0	-101.9	100.0	-8.9	-7.6	-6.7
11TH	149.50	-7.0	5.8	3125	1438	-2.2	4.0	-94.9	94.2	-7.7	-6.4	-6.1
12TH	162.00	-8.0	5.8	3125	1438	-2.5	4.0	-86.9	88.4	-6.6	-5.2	-5.6
13TH	174.50	-8.9	5.7	3125	1438	-2.9	4.0	-78.0	82.6	-5.5	-4.2	-5.0
14TH	187.00	-9.8	5.8	3125	1438	-3.1	4.0	-68.3	76.9	-4.5	-3.3	-4.3
15TH	199.50	-9.6	6.4	3125	1438	-3.1	4.4	-58.7	70.5	-3.6	-2.5	-3.6
16TH	212.00	-9.4	7.0	3125	1438	-3.0	4.9	-49.3	63.5	-2.8	-1.8	-3.0
17TH	224.50	-9.1	7.6	3125	1438	-2.9	5.3	-40.2	55.9	-2.0	-1.2	-2.3
18TH	237.00	-8.7	8.5	3125	1438	-2.8	5.9	-31.5	47.5	-1.4	-.8	-1.7
19TH	249.50	-8.2	9.4	3125	1438	-2.6	6.6	-23.3	38.0	-.8	-.5	-1.1
20TH	262.00	-7.8	10.4	3125	1438	-2.5	7.2	-15.4	27.6	-.4	-.2	-.7
TOP	279.50	-7.6	11.1	3125	1438	-2.4	7.7	-7.8	16.5	-.1	-.1	-.3
		-7.8	16.5	4375	2013	-1.8	8.2	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 80

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							220.1	249.0	-42.1	38.3	20.4
1ST	17.00	-17.5	-1.4	1702	434	-10.3	-3.3	237.6	250.5	-37.8	34.4	19.9
2ND	37.00	13.4	14.6	4724	2168	2.8	6.7	224.2	235.8	-33.0	29.8	18.2
3RD	49.50	10.3	8.6	3125	1438	3.3	6.0	214.0	227.3	-30.1	27.0	17.1
4TH	62.00	10.2	8.5	3125	1438	3.3	5.9	203.8	218.7	-27.3	24.4	16.0
5TH	74.50	10.1	8.5	3125	1438	3.2	5.9	193.6	210.2	-24.6	21.9	14.9
6TH	87.00	10.1	8.5	3125	1438	3.2	5.9	183.5	201.7	-22.0	19.6	13.9
7TH	99.50	10.2	8.9	3125	1438	3.3	6.2	173.4	192.8	-19.6	17.3	12.8
8TH	112.00	10.2	9.3	3125	1438	3.3	6.5	163.1	183.5	-17.2	15.2	11.9
9TH	124.50	10.3	9.7	3125	1438	3.3	6.8	152.8	173.7	-15.0	13.3	10.9
10TH	137.00	10.3	10.2	3125	1438	3.3	7.1	142.5	163.5	-12.9	11.4	10.0
11TH	149.50	9.9	10.7	3125	1438	3.2	7.4	132.6	152.8	-10.9	9.7	9.0
12TH	162.00	9.6	11.1	3125	1438	3.1	7.8	123.0	141.7	-9.0	8.1	8.1
13TH	174.50	9.4	11.6	3125	1438	3.0	8.1	113.6	130.1	-7.3	6.6	7.3
14TH	187.00	10.1	12.4	3125	1438	3.2	8.6	103.6	117.7	-5.8	5.3	6.4
15TH	199.50	10.7	13.2	3125	1438	3.4	9.1	92.8	104.5	-4.4	4.0	5.5
16TH	212.00	11.4	13.9	3125	1438	3.7	9.7	81.4	90.6	-3.2	2.9	4.6
17TH	224.50	12.4	14.8	3125	1438	4.0	10.3	69.0	75.8	-2.1	2.0	3.7
18TH	237.00	13.6	15.8	3125	1438	4.3	11.0	55.4	60.0	-1.3	1.2	2.8
19TH	249.50	14.7	16.9	3125	1438	4.7	11.7	40.7	43.1	-.7	.6	1.8
20TH	262.00	15.7	17.5	3125	1438	5.0	12.2	25.0	25.6	-.2	.2	.9
TOP	279.50	25.0	25.6	4375	2013	5.7	12.7	0.0	0.0	0.0	0.0	0.0

TABLE 7 SHEAR AND MOMENT DIAGRAMS : SUN GAS BUILDING, DALLAS												
WIND DIRECTION 90		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF			GUST FACTOR 1.32	
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							509.3	326.2	-53.7	79.0	33.3
1ST	17.00	-13.3	1.0	1702	434	-7.8	2.3	522.7	325.2	-48.2	70.2	33.1
2ND	37.00	35.8	17.9	4724	2168	7.6	8.3	486.8	307.3	-41.9	60.1	30.7
3RD	49.50	25.9	10.7	3125	1438	8.3	7.4	460.9	296.6	-38.1	54.2	29.1
4TH	62.00	26.0	11.1	3125	1438	8.3	7.7	435.0	285.5	-34.5	48.6	27.6
5TH	74.50	26.1	11.5	3125	1438	8.3	8.0	408.9	274.0	-31.0	43.4	26.1
6TH	87.00	26.2	11.9	3125	1438	8.4	8.3	382.7	262.1	-27.6	38.4	24.5
7TH	99.50	25.1	12.4	3125	1438	8.0	8.6	357.6	249.7	-24.4	33.8	23.0
8TH	112.00	24.0	12.9	3125	1438	7.7	9.0	333.6	236.8	-21.4	29.5	21.4
9TH	124.50	22.8	13.4	3125	1438	7.3	9.3	310.8	223.4	-18.5	25.4	19.9
10TH	137.00	22.2	14.0	3125	1438	7.1	9.7	288.6	209.4	-15.8	21.7	18.3
11TH	149.50	22.4	14.7	3125	1438	7.2	10.2	266.2	194.7	-13.3	18.2	16.7
12TH	162.00	22.5	15.4	3125	1438	7.2	10.7	243.7	179.3	-10.9	15.0	15.0
13TH	174.50	22.7	16.1	3125	1438	7.3	11.2	221.1	163.2	-8.8	12.1	13.3
14TH	187.00	23.4	16.9	3125	1438	7.5	11.8	197.7	146.3	-6.9	9.5	11.6
15TH	199.50	24.1	17.8	3125	1438	7.7	12.4	173.6	128.5	-5.1	7.2	9.9
16TH	212.00	24.8	18.7	3125	1438	7.9	13.0	148.9	109.7	-3.7	5.2	8.2
17TH	224.50	25.6	19.7	3125	1438	8.2	13.7	123.2	90.1	-2.4	3.5	6.4
18TH	237.00	26.5	20.7	3125	1438	8.5	14.4	96.7	69.4	-1.4	2.1	4.8
19TH	249.50	27.3	21.8	3125	1438	8.8	15.1	69.4	47.6	-.7	1.1	3.2
20TH	262.00	28.0	22.3	3125	1438	9.0	15.5	41.4	25.3	-.2	.4	1.6
TOP	279.50	41.4	25.3	4375	2013	9.5	12.6	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 100

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							650.9	439.9	-69.2	97.9	25.4
1ST	17.00	-9.9	3.2	1702	434	-5.8	7.4	660.9	436.7	-61.7	86.8	25.3
2ND	37.00	47.7	24.9	4724	2168	10.1	11.5	613.1	411.8	-53.2	74.0	23.6
3RD	49.50	33.8	15.6	3125	1438	10.8	10.9	579.3	396.2	-48.2	66.6	22.6
4TH	62.00	33.5	16.4	3125	1438	10.7	11.4	545.9	379.8	-43.3	59.5	21.6
5TH	74.50	33.1	17.1	3125	1438	10.6	11.9	512.8	362.7	-38.7	52.9	20.6
6TH	87.00	32.9	17.8	3125	1438	10.5	12.4	479.9	344.9	-34.3	46.7	19.6
7TH	99.50	31.9	18.5	3125	1438	10.2	12.9	448.1	326.4	-30.1	40.9	18.6
8TH	112.00	30.8	19.1	3125	1438	9.9	13.3	417.3	307.2	-26.1	35.5	17.5
9TH	124.50	29.8	19.8	3125	1438	9.5	13.8	387.5	287.5	-22.4	30.5	16.4
10TH	137.00	29.4	20.5	3125	1438	9.4	14.3	358.1	267.0	-18.9	25.8	15.3
11TH	149.50	29.7	21.4	3125	1438	9.5	14.9	328.4	245.6	-15.7	21.5	14.1
12TH	162.00	30.0	22.3	3125	1438	9.6	15.5	298.4	223.3	-12.8	17.6	12.9
13TH	174.50	30.3	23.2	3125	1438	9.7	16.1	268.1	200.1	-10.2	14.1	11.7
14TH	187.00	30.9	23.9	3125	1438	9.9	16.6	237.2	176.2	-7.8	10.9	10.4
15TH	199.50	31.6	24.6	3125	1438	10.1	17.1	205.7	151.6	-5.8	8.1	9.1
16TH	212.00	32.2	25.3	3125	1438	10.3	17.6	173.5	126.3	-4.0	5.8	7.7
17TH	224.50	32.6	25.5	3125	1438	10.4	17.7	140.9	100.8	-2.6	3.8	6.3
18TH	237.00	32.9	25.3	3125	1438	10.5	17.6	108.0	75.5	-1.5	2.2	4.8
19TH	249.50	33.1	25.0	3125	1438	10.6	17.4	74.9	50.5	-.7	1.1	3.3
20TH	262.00	32.9	24.3	3125	1438	10.5	16.9	42.0	26.2	-.2	.4	1.8
TOP	279.50	42.0	26.2	4375	2013	9.6	13.0	0.0	0.0	0.0	0.0	0.0

TABLE 7 SHEAR AND MOMENT DIAGRAMS 1 WIND DIRECTION 110		SUN GAS BUILDING, DALLAS CONFIGURATION A REFERENCE PRESSURE 23.0 PSF								GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							868.9	527.5	-82.1	129.3	19.7
1ST	17.00	-2.6	6.7	1702	434	-1.5	15.4	871.5	520.8	-73.1	114.5	19.8
2ND	37.00	63.0	30.8	4724	2168	13.3	14.2	808.5	490.0	-63.0	97.7	18.5
3RD	49.50	43.5	19.1	3125	1438	13.9	13.3	765.0	471.0	-57.0	87.9	17.8
4TH	62.00	42.5	19.7	3125	1438	13.6	13.7	722.5	451.3	-51.3	78.6	17.0
5TH	74.50	41.5	20.3	3125	1438	13.3	14.1	680.9	431.0	-45.7	69.8	16.2
6TH	87.00	40.8	21.0	3125	1438	13.1	14.6	640.2	410.1	-40.5	61.5	15.4
7TH	99.50	40.8	22.0	3125	1438	13.0	15.3	599.4	388.1	-35.5	53.8	14.6
8TH	112.00	40.7	23.0	3125	1438	13.0	16.0	558.7	365.1	-30.8	46.6	13.8
9TH	124.50	40.7	24.0	3125	1438	13.0	16.7	518.0	341.2	-26.4	39.8	12.9
10TH	137.00	40.8	24.9	3125	1438	13.1	17.3	477.2	316.3	-22.3	33.6	12.0
11TH	149.50	41.3	25.8	3125	1438	13.2	17.9	435.9	290.5	-18.5	27.9	11.1
12TH	162.00	41.7	26.6	3125	1438	13.3	18.5	394.2	263.9	-15.0	22.7	10.1
13TH	174.50	42.2	27.6	3125	1438	13.5	19.2	352.1	236.3	-11.9	18.0	9.1
14TH	187.00	42.7	28.6	3125	1438	13.7	19.9	309.4	207.8	-9.1	13.9	8.1
15TH	199.50	43.2	29.5	3125	1438	13.8	20.5	266.3	178.2	-6.7	10.3	7.1
16TH	212.00	43.7	30.5	3125	1438	14.0	21.2	222.6	147.7	-4.7	7.3	6.0
17TH	224.50	43.6	30.5	3125	1438	13.9	21.2	179.0	117.2	-3.0	4.7	4.9
18TH	237.00	43.2	29.8	3125	1438	13.8	20.8	135.8	87.4	-1.7	2.8	3.8
19TH	249.50	42.9	29.2	3125	1438	13.7	20.3	92.9	58.2	-.8	1.3	2.6
20TH	262.00	41.8	27.9	3125	1438	13.4	19.4	51.1	30.3	-.3	.4	1.4
TOP	279.50	51.1	30.3	4375	2013	11.7	15.0	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 120

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	5.5	9.1	1702	434	3.2	21.1	1065.7	532.5	-83.4	161.7	17.2
1ST	17.00	71.3	31.4	4724	2168	15.1	14.5	1060.2	523.4	-74.4	143.6	17.5
2ND	37.00	48.1	19.1	3125	1438	15.4	13.3	988.9	491.9	-64.2	123.2	16.5
3RD	49.50	46.7	19.1	3125	1438	14.9	13.3	940.8	472.8	-58.2	111.1	15.8
4TH	62.00	45.2	19.1	3125	1438	14.5	13.3	894.1	453.7	-52.4	99.6	15.2
5TH	74.50	44.1	19.2	3125	1438	14.1	13.4	848.9	434.6	-46.9	88.7	14.5
6TH	87.00	46.0	20.7	3125	1438	14.7	14.4	804.8	415.4	-41.6	78.4	13.9
7TH	99.50	47.9	22.2	3125	1438	15.3	15.5	758.8	394.7	-36.5	68.6	13.2
8TH	112.00	49.9	23.7	3125	1438	16.0	16.5	710.9	372.5	-31.7	59.4	12.5
9TH	124.50	51.3	25.0	3125	1438	16.4	17.4	661.0	348.8	-27.2	50.9	11.7
10TH	137.00	52.2	26.0	3125	1438	16.7	18.1	609.7	323.8	-23.0	42.9	10.9
11TH	149.50	53.1	27.1	3125	1438	17.0	18.8	557.5	297.7	-19.1	35.6	10.1
12TH	162.00	53.9	28.1	3125	1438	17.2	19.5	504.4	270.7	-15.5	29.0	9.2
13TH	174.50	54.5	28.9	3125	1438	17.4	20.1	450.6	242.6	-12.3	23.0	8.2
14TH	187.00	55.2	29.8	3125	1438	17.7	20.7	396.0	213.7	-9.5	17.7	7.3
15TH	199.50	55.9	30.6	3125	1438	17.9	21.3	340.9	183.9	-7.0	13.1	6.3
16TH	212.00	56.1	30.8	3125	1438	17.9	21.5	285.0	153.3	-4.9	9.2	5.3
17TH	224.50	55.9	30.5	3125	1438	17.9	21.2	228.9	122.4	-3.2	6.0	4.3
18TH	237.00	55.7	30.2	3125	1438	17.8	21.0	173.1	91.9	-1.8	3.5	3.3
19TH	249.50	54.4	29.3	3125	1438	17.4	20.4	117.4	61.7	-.9	1.7	2.3
20TH	262.00	63.0	32.4	4375	2013	14.4	16.1	63.0	32.4	-.3	.6	1.2
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

CONFIGURATION A

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	13.5	9.0	1702	434	7.9	20.7	1221.3	492.5	-77.0	185.5	12.0
1ST	17.00	77.9	29.7	4724	2168	16.5	13.7	1207.8	483.6	-68.7	164.9	12.7
2ND	37.00	52.6	18.1	3125	1438	16.8	12.6	1129.9	453.9	-59.3	141.5	12.1
3RD	49.50	51.8	18.0	3125	1438	16.6	12.5	1077.3	435.8	-53.7	127.7	11.7
4TH	62.00	51.0	18.0	3125	1438	16.3	12.5	1025.5	417.7	-48.4	114.5	11.2
5TH	74.50	50.5	18.0	3125	1438	16.2	12.5	974.5	399.8	-43.3	102.0	10.7
6TH	87.00	52.6	19.2	3125	1438	16.8	13.3	924.0	381.8	-38.4	90.2	10.3
7TH	99.50	54.6	20.3	3125	1438	17.5	14.1	871.4	362.6	-33.8	79.0	9.7
8TH	112.00	56.6	21.5	3125	1438	18.1	14.9	816.8	342.3	-29.3	68.4	9.2
9TH	124.50	58.3	22.6	3125	1438	18.6	15.7	760.2	320.8	-25.2	58.5	8.6
10TH	137.00	59.5	23.6	3125	1438	19.0	16.4	702.0	298.2	-21.3	49.4	8.0
11TH	149.50	60.8	24.5	3125	1438	19.5	17.1	642.4	274.7	-17.8	41.0	7.4
12TH	162.00	62.1	25.5	3125	1438	19.9	17.8	581.6	250.1	-14.5	33.4	6.7
13TH	174.50	63.0	26.4	3125	1438	20.2	18.4	519.5	224.6	-11.5	26.5	6.0
14TH	187.00	63.9	27.3	3125	1438	20.4	19.0	456.5	198.2	-8.9	20.4	5.3
15TH	199.50	64.8	28.2	3125	1438	20.7	19.6	392.6	170.9	-6.6	15.1	4.6
16TH	212.00	64.9	28.4	3125	1438	20.8	19.8	327.8	142.7	-4.6	10.6	3.9
17TH	224.50	64.6	28.1	3125	1438	20.7	19.6	263.0	114.3	-3.0	6.9	3.2
18TH	237.00	64.3	27.9	3125	1438	20.6	19.4	198.4	86.2	-1.7	4.0	2.4
19TH	249.50	62.7	27.1	3125	1438	20.1	18.8	134.0	58.3	-.8	1.9	1.7
20TH	262.00	71.3	31.2	4375	2013	16.3	15.5	71.3	31.2	-.3	.6	.9
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							1327.3	420.0	-65.7	201.4	3.9
1ST	17.00	22.9	7.9	1702	434	13.5	18.2	1304.4	412.1	-58.6	179.1	4.9
2ND	37.00	82.8	27.1	4724	2168	17.5	12.5	1221.6	385.0	-50.7	153.8	4.8
3RD	49.50	55.7	16.4	3125	1438	17.8	11.4	1165.9	368.6	-45.9	138.9	4.7
4TH	62.00	54.6	15.6	3125	1438	17.5	10.8	1111.3	353.0	-41.4	124.7	4.6
5TH	74.50	53.4	14.7	3125	1438	17.1	10.2	1057.9	338.3	-37.1	111.1	4.4
6TH	87.00	52.7	14.1	3125	1438	16.9	9.6	1005.1	324.2	-33.0	98.2	4.2
7TH	99.50	55.6	15.4	3125	1438	17.8	10.7	949.6	308.8	-29.0	86.0	4.0
8TH	112.00	58.4	16.6	3125	1438	18.7	11.6	891.2	292.2	-25.3	74.5	3.8
9TH	124.50	61.2	17.9	3125	1438	19.6	12.4	829.9	274.3	-21.7	63.7	3.6
10TH	137.00	63.4	19.0	3125	1438	20.3	13.2	766.5	255.3	-18.4	53.8	3.3
11TH	149.50	65.0	19.9	3125	1438	20.8	13.9	701.5	235.4	-15.3	44.6	3.1
12TH	162.00	66.6	20.8	3125	1438	21.3	14.5	634.9	214.6	-12.5	36.2	2.8
13TH	174.50	68.2	21.8	3125	1438	21.8	15.1	566.7	192.8	-10.0	28.7	2.6
14TH	187.00	69.3	22.4	3125	1438	22.2	15.6	497.4	170.4	-7.7	22.1	2.3
15TH	199.50	70.3	22.9	3125	1438	22.5	16.0	427.1	147.5	-5.7	16.3	2.1
16TH	212.00	71.4	23.5	3125	1438	22.9	16.4	355.7	124.0	-4.0	11.4	1.8
17TH	224.50	71.3	23.9	3125	1438	22.8	16.6	284.4	100.1	-2.6	7.4	1.5
18TH	237.00	70.5	24.2	3125	1438	22.6	16.8	213.8	75.9	-1.5	4.3	1.2
19TH	249.50	69.7	24.4	3125	1438	22.3	17.0	144.1	51.5	-0.7	2.1	0.8
20TH	262.00	67.5	24.1	3125	1438	21.6	16.7	76.7	27.4	-0.2	0.7	0.4
TOP	279.50	76.7	27.4	4375	2013	17.5	13.6	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAM 1
WIND DIRECTION 150

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	26.2	6.0	1702	434	15.4	13.9	1231.7	292.4	-46.0	191.2	-6.6
1ST	17.00	73.8	20.9	4724	2168	15.6	9.7	1205.6	286.4	-41.0	170.4	-5.7
2ND	37.00	47.7	12.3	3125	1438	15.3	8.6	1131.7	265.4	-35.5	147.1	-5.3
3RD	49.50	46.7	11.4	3125	1438	14.9	7.9	1084.0	253.1	-32.3	133.2	-5.0
4TH	62.00	45.6	10.4	3125	1438	14.6	7.2	1037.4	241.8	-29.2	120.0	-4.8
5TH	74.50	45.0	9.6	3125	1438	14.4	6.7	991.7	231.4	-26.2	107.3	-4.5
6TH	87.00	47.7	10.1	3125	1438	15.3	7.0	946.7	221.7	-23.4	95.2	-4.2
7TH	99.50	50.5	10.5	3125	1438	16.2	7.3	899.0	211.7	-20.7	83.6	-3.9
8TH	112.00	53.2	11.0	3125	1438	17.0	7.6	848.5	201.1	-18.1	72.7	-3.7
9TH	124.50	55.9	11.6	3125	1438	17.9	8.1	795.3	190.2	-15.7	62.4	-3.4
10TH	137.00	58.5	12.4	3125	1438	18.7	8.6	739.4	178.5	-13.4	52.8	-3.2
11TH	149.50	61.1	13.2	3125	1438	19.6	9.2	680.9	166.1	-11.2	44.0	-2.9
12TH	162.00	63.7	14.1	3125	1438	20.4	9.8	619.8	152.9	-9.2	35.8	-2.6
13TH	174.50	65.6	14.9	3125	1438	21.0	10.4	556.1	138.8	-7.4	28.5	-2.3
14TH	187.00	67.5	15.7	3125	1438	21.6	10.9	490.4	123.9	-5.7	21.9	-2.0
15TH	199.50	69.4	16.5	3125	1438	22.2	11.5	423.0	108.2	-4.3	16.2	-1.7
16TH	212.00	70.0	17.1	3125	1438	22.4	11.9	353.6	91.7	-3.0	11.4	-1.4
17TH	224.50	69.8	17.4	3125	1438	22.3	12.1	283.6	74.7	-2.0	7.4	-1.1
18TH	237.00	69.6	17.8	3125	1438	22.3	12.4	213.8	57.2	-1.2	4.3	-0.8
19TH	249.50	67.9	17.7	3125	1438	21.7	12.3	144.3	39.5	-0.6	2.0	-0.6
20TH	262.00	76.4	21.8	4375	2013	17.5	10.8	76.4	21.8	-0.2	0.7	-0.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 160

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							1082.6	181.0	-29.0	169.3	-15.3
1ST	17.00	24.8	3.5	1702	434	14.6	8.2	1057.7	177.4	-25.9	151.1	-14.4
2ND	37.00	61.9	14.4	4724	2168	13.1	6.7	995.8	163.0	-22.5	130.6	-13.4
3RD	49.50	40.4	8.1	3125	1438	12.9	5.7	955.5	154.9	-20.5	118.4	-12.8
4TH	62.00	39.5	7.0	3125	1438	12.6	4.8	916.0	147.9	-18.6	106.7	-12.1
5TH	74.50	38.6	5.8	3125	1438	12.3	4.0	877.4	142.1	-16.8	95.5	-11.5
6TH	87.00	38.1	4.8	3125	1438	12.2	3.4	839.3	137.3	-15.1	84.7	-10.7
7TH	99.50	41.0	5.2	3125	1438	13.1	3.6	798.3	132.0	-13.4	74.5	-10.0
8TH	112.00	43.9	5.7	3125	1438	14.0	3.9	754.5	126.4	-11.8	64.8	-9.3
9TH	124.50	46.7	6.1	3125	1438	15.0	4.2	707.7	120.3	-10.2	55.7	-8.7
10TH	137.00	49.3	6.6	3125	1438	15.8	4.6	658.4	113.7	-8.8	47.1	-8.0
11TH	149.50	51.7	7.1	3125	1438	16.5	4.9	606.7	106.6	-7.4	39.2	-7.3
12TH	162.00	54.1	7.6	3125	1438	17.3	5.3	552.6	98.9	-6.1	32.0	-6.5
13TH	174.50	56.4	8.2	3125	1438	18.1	5.7	496.2	90.8	-4.9	25.4	-5.8
14TH	187.00	58.3	9.0	3125	1438	18.7	6.3	437.9	81.8	-3.8	19.6	-5.0
15TH	199.50	60.1	9.8	3125	1438	19.2	6.8	377.7	71.9	-2.9	14.5	-4.3
16TH	212.00	62.0	10.7	3125	1438	19.8	7.4	315.7	61.3	-2.1	10.2	-3.7
17TH	224.50	62.6	11.2	3125	1438	20.0	7.8	253.1	50.1	-1.4	6.6	-3.0
18TH	237.00	62.4	11.5	3125	1438	20.0	8.0	190.7	38.6	-.8	3.8	-2.3
19TH	249.50	62.1	11.8	3125	1438	19.9	8.2	128.7	26.9	-.4	1.8	-1.6
20TH	262.00	60.5	11.8	3125	1438	19.4	8.2	68.2	15.1	-.1	.6	-.9
TOP	279.50	68.2	15.1	4375	2013	15.6	7.5	0.0	0.0	0.0	0.0	0.0

SUN GAS BUILDING, DALLAS												
TABLE 7. SHEAR AND MOMENT DIAGRAM 1		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF			GUST FACTOR 1.32	
WIND DIRECTION 170		X-FORCE	Y-FORCE	X-AREA	Y-AREA	X-PRESS	Y-PRESS	X-SHEAR	Y-SHEAR	X-MOMENT	Y-MOMENT	Z-MOMENT
FLOOR	HEIGHT	KIPS	KIPS	SQ FT	SQ FT	PSF	PSF	KIPS	KIPS	1000-FT-KIPS	1000-FT-KIPS	1000-FT-KIPS
	FT											
GRND	0.00							729.8	122.4	-19.3	114.7	-21.9
1ST	17.00	11.9	-1.1	1702	434	7.0	-2.5	718.0	123.5	-17.2	102.3	-21.4
2ND	37.00	40.2	9.6	4724	2168	8.5	4.4	677.8	114.0	-14.8	88.4	-20.1
3RD	49.50	27.8	6.8	3125	1438	8.9	4.7	650.0	107.2	-13.4	80.1	-19.3
4TH	62.00	27.8	6.0	3125	1438	8.9	4.2	622.2	101.2	-12.1	72.1	-18.4
5TH	74.50	27.7	5.2	3125	1438	8.9	3.6	594.5	96.0	-10.9	64.5	-17.3
6TH	87.00	27.8	4.6	3125	1438	8.9	3.2	566.7	91.4	-9.7	57.3	-16.3
7TH	99.50	29.3	4.7	3125	1438	9.4	3.3	537.4	86.7	-8.6	50.4	-15.2
8TH	112.00	30.7	4.8	3125	1438	9.8	3.3	506.6	81.9	-7.5	43.9	-14.1
9TH	124.50	32.2	4.9	3125	1438	10.3	3.4	474.4	77.0	-6.5	37.7	-13.1
10TH	137.00	33.5	5.0	3125	1438	10.7	3.5	441.0	72.0	-5.6	32.0	-12.0
11TH	149.50	34.6	5.1	3125	1438	11.1	3.5	406.3	66.9	-4.7	26.7	-10.9
12TH	162.00	35.7	5.2	3125	1438	11.4	3.6	370.6	61.7	-3.9	21.8	-9.8
13TH	174.50	36.9	5.3	3125	1438	11.8	3.7	333.8	56.4	-3.2	17.4	-8.7
14TH	187.00	37.9	5.5	3125	1438	12.1	3.8	295.9	50.9	-2.5	13.5	-7.6
15TH	199.50	38.9	5.7	3125	1438	12.5	3.9	257.0	45.2	-1.9	10.1	-6.4
16TH	212.00	39.9	5.8	3125	1438	12.8	4.1	217.0	39.4	-1.4	7.1	-5.3
17TH	224.50	41.0	6.2	3125	1438	13.1	4.3	176.1	33.2	-.9	4.6	-4.2
18TH	237.00	42.0	6.7	3125	1438	13.4	4.7	134.1	26.4	-.6	2.7	-3.2
19TH	249.50	43.0	7.3	3125	1438	13.8	5.1	91.1	19.2	-.3	1.3	-2.2
20TH	262.00	43.0	7.7	3125	1438	13.8	5.3	48.1	11.5	-.1	.4	-1.2
TOP	279.50	48.1	11.5	4375	2013	11.0	5.7	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 180

SUN GAS BUILDING, DALLAS
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	15.9	-5.9	1702	434	9.4	-13.5	785.7	-7.7	-2.7	125.4	-46.5
1ST	17.00	37.7	1.0	4724	2168	8.0	.5	769.7	5.1	-2.6	112.2	-45.5
2ND	37.00	26.9	1.8	3125	1438	8.6	1.3	732.0	4.2	-2.5	97.2	-43.1
3RD	49.50	26.6	.8	3125	1438	8.5	.6	705.1	2.3	-2.5	88.2	-41.4
4TH	62.00	26.2	-.2	3125	1438	8.4	-.2	678.5	1.5	-2.5	79.5	-39.7
5TH	74.50	26.1	-1.1	3125	1438	8.4	-.8	652.3	1.8	-2.5	71.2	-37.8
6TH	87.00	29.3	-1.4	3125	1438	9.4	-.9	626.2	2.9	-2.4	63.2	-35.8
7TH	99.50	32.5	-1.6	3125	1438	10.4	-1.1	596.9	4.3	-2.4	55.6	-33.7
8TH	112.00	35.6	-1.8	3125	1438	11.4	-1.3	564.5	5.9	-2.3	48.3	-31.5
9TH	124.50	37.8	-1.9	3125	1438	12.1	-1.3	528.8	7.7	-2.2	41.5	-29.2
10TH	137.00	39.2	-2.0	3125	1438	12.6	-1.4	491.0	9.6	-2.1	35.1	-26.7
11TH	149.50	40.6	-2.1	3125	1438	13.0	-1.5	451.8	11.6	-2.0	29.2	-24.3
12TH	162.00	42.1	-2.2	3125	1438	13.5	-1.5	411.1	13.7	-1.8	23.8	-21.7
13TH	174.50	43.3	-1.8	3125	1438	13.9	-1.3	369.1	15.9	-1.7	19.0	-19.2
14TH	187.00	44.6	-1.5	3125	1438	14.3	-1.0	325.7	17.7	-1.4	14.6	-16.6
15TH	199.50	45.8	-1.2	3125	1438	14.6	-.8	281.2	19.2	-1.2	10.8	-14.0
16TH	212.00	46.3	-.0	3125	1438	14.8	-.0	235.4	20.4	-1.0	7.6	-11.4
17TH	224.50	46.3	1.7	3125	1438	14.8	1.2	189.1	20.4	-.7	4.9	-8.9
18TH	237.00	46.3	3.4	3125	1438	14.8	2.4	142.8	18.7	-.5	2.9	-6.6
19TH	249.50	45.3	5.0	3125	1438	14.5	3.5	96.6	15.3	-.3	1.4	-4.4
20TH	262.00	51.3	10.4	4375	2013	11.7	5.1	51.3	10.4	-.1	.4	-2.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	12.0	-9.6	1702	434	7.0	-22.1	719.3	-45.6	5.9	119.6	-58.9
1ST	17.00	33.2	.1	4724	2168	7.0	.0	707.3	-36.0	5.2	107.5	-57.9
2ND	37.00	24.9	2.3	3125	1438	8.0	1.6	674.2	-36.1	4.5	93.7	-55.1
3RD	49.50	23.3	.8	3125	1438	7.5	.6	649.3	-38.4	4.0	85.4	-53.2
4TH	62.00	21.7	-.7	3125	1438	7.0	-.5	626.0	-39.2	3.5	77.4	-51.1
5TH	74.50	20.6	-2.0	3125	1438	6.6	-1.4	604.3	-38.5	3.1	69.7	-48.8
6TH	87.00	23.4	-2.3	3125	1438	7.5	-1.6	583.7	-36.5	2.6	62.3	-46.4
7TH	99.50	26.1	-2.6	3125	1438	8.4	-1.8	560.3	-34.2	2.1	55.2	-43.9
8TH	112.00	28.9	-2.9	3125	1438	9.2	-2.0	534.2	-31.6	1.7	48.3	-41.1
9TH	124.50	31.1	-3.0	3125	1438	10.0	-2.1	505.3	-28.7	1.4	41.8	-38.3
10TH	137.00	32.7	-3.3	3125	1438	10.5	-2.3	474.2	-25.6	1.0	35.7	-35.3
11TH	149.50	34.3	-3.6	3125	1438	11.0	-2.5	441.5	-22.3	.7	30.0	-32.3
12TH	162.00	35.9	-3.8	3125	1438	11.5	-2.6	407.2	-18.7	.5	24.7	-29.2
13TH	174.50	38.6	-3.8	3125	1438	12.4	-2.7	371.3	-15.0	.3	19.8	-26.1
14TH	187.00	41.4	-3.8	3125	1438	13.2	-2.7	332.7	-11.1	.1	15.4	-22.9
15TH	199.50	44.1	-3.9	3125	1438	14.1	-2.7	291.3	-7.3	-.0	11.5	-19.6
16TH	212.00	46.1	-3.2	3125	1438	14.7	-2.3	247.1	-3.4	-.1	8.1	-16.3
17TH	224.50	47.4	-2.2	3125	1438	15.2	-1.6	201.0	-.2	-.1	5.3	-13.0
18TH	237.00	48.6	-1.2	3125	1438	15.6	-.9	153.7	2.1	-.1	3.1	-9.8
19TH	249.50	48.7	-.1	3125	1438	15.6	-.1	105.1	3.3	-.1	1.5	-6.6
20TH	262.00	56.4	3.4	4375	2013	12.9	1.7	56.4	3.4	-.0	.5	-3.6
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7 SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 200

CONFIGURATION A

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	5.5	-11.2	1702	434	3.2	-25.7	571.3	-86.1	12.3	96.0	-67.4
1ST	17.00	22.6	-1.3	4724	2168	4.8	-6	565.8	-74.9	10.9	86.4	-66.4
2ND	37.00	19.6	.7	3125	1438	6.3	.5	543.2	-73.6	9.5	75.3	-63.3
3RD	49.50	18.8	-.4	3125	1438	6.0	-.3	523.6	-74.3	8.5	68.6	-61.2
4TH	62.00	17.9	-1.5	3125	1438	5.7	-1.1	504.8	-73.9	7.6	62.2	-58.8
5TH	74.50	17.3	-2.6	3125	1438	5.5	-1.8	486.9	-72.3	6.7	56.0	-56.2
6TH	87.00	19.0	-3.6	3125	1438	6.1	-2.5	469.5	-69.7	5.8	50.0	-53.4
7TH	99.50	20.8	-4.6	3125	1438	6.6	-3.2	450.5	-66.2	5.0	44.3	-50.5
8TH	112.00	22.5	-5.6	3125	1438	7.2	-3.9	429.7	-61.6	4.2	38.8	-47.5
9TH	124.50	24.5	-5.9	3125	1438	7.8	-4.1	407.2	-56.0	3.4	33.5	-44.2
10TH	137.00	26.5	-5.8	3125	1438	8.5	-4.1	382.7	-50.1	2.8	28.6	-40.9
11TH	149.50	28.4	-5.8	3125	1438	9.1	-4.0	356.3	-44.3	2.2	24.0	-37.4
12TH	162.00	30.4	-5.7	3125	1438	9.7	-3.9	327.9	-38.5	1.7	19.7	-33.8
13TH	174.50	31.9	-5.7	3125	1438	10.2	-4.0	297.5	-32.8	1.2	15.8	-30.1
14TH	187.00	33.5	-5.8	3125	1438	10.7	-4.1	265.6	-27.1	.8	12.3	-26.3
15TH	199.50	35.0	-5.9	3125	1438	11.2	-4.1	232.1	-21.3	.5	9.2	-22.4
16TH	212.00	36.5	-5.3	3125	1438	11.7	-3.7	197.1	-15.3	.3	6.5	-18.6
17TH	224.50	37.8	-4.5	3125	1438	12.1	-3.1	160.6	-10.0	.1	4.2	-14.7
18TH	237.00	39.2	-3.6	3125	1438	12.5	-2.5	122.7	-5.5	.0	2.5	-11.0
19TH	249.50	39.4	-2.6	3125	1438	12.6	-1.8	83.5	-1.8	.0	1.2	-7.4
20TH	262.00	44.2	.8	4375	2013	10.1	.4	44.2	.8	-.0	.4	-3.9
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 210

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							585.3	-1.5	1.1	97.4	-69.7
1ST	17.00	2.7	-8.4	1702	434	1.6	-19.3	582.6	7.9	1.1	87.5	-68.6
2ND	37.00	24.6	3.9	4724	2168	5.2	1.8	558.0	3.9	1.3	76.0	-65.8
3RD	49.50	21.8	4.5	3125	1438	7.0	3.1	536.2	-1.6	1.3	69.2	-63.7
4TH	62.00	20.9	3.8	3125	1438	6.7	2.6	515.3	-4.4	1.3	62.6	-61.5
5TH	74.50	20.0	3.1	3125	1438	6.4	2.1	495.3	-7.5	1.2	56.3	-59.1
6TH	87.00	19.4	2.3	3125	1438	6.2	1.6	475.9	-9.8	1.1	50.3	-56.5
7TH	99.50	21.1	1.6	3125	1438	6.8	1.1	454.7	-11.4	.9	44.4	-53.7
8TH	112.00	22.9	.9	3125	1438	7.3	.6	431.8	-12.3	.8	38.9	-50.6
9TH	124.50	24.7	.2	3125	1438	7.9	.1	407.2	-12.5	.6	33.7	-47.3
10TH	137.00	26.0	-.3	3125	1438	8.3	-.2	381.1	-12.1	.5	28.7	-43.8
11TH	149.50	27.0	-.9	3125	1438	8.6	-.6	354.1	-11.2	.3	24.1	-40.2
12TH	162.00	28.0	-1.5	3125	1438	9.0	-1.0	326.1	-9.7	.2	19.9	-36.4
13TH	174.50	29.1	-1.9	3125	1438	9.3	-1.3	297.0	-7.8	.1	16.0	-32.5
14TH	187.00	30.9	-2.0	3125	1438	9.9	-1.4	266.1	-5.8	.0	12.5	-28.5
15TH	199.50	32.7	-2.0	3125	1438	10.5	-1.4	233.4	-3.8	-.0	9.3	-24.4
16TH	212.00	34.5	-2.0	3125	1438	11.0	-1.4	198.9	-1.8	-.1	6.6	-20.2
17TH	224.50	36.1	-1.7	3125	1438	11.5	-1.2	162.8	-.1	-.1	4.4	-16.0
18TH	237.00	37.4	-1.4	3125	1438	12.0	-1.0	125.4	1.3	-.1	2.6	-12.0
19TH	249.50	38.8	-1.1	3125	1438	12.4	-.8	86.6	2.4	-.1	1.3	-8.0
20TH	262.00	39.2	-.6	3125	1438	12.5	-.4	47.4	3.1	-.0	.4	-4.3
TOP	279.50	47.4	3.1	4375	2913	10.8	1.5	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 220

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	- .6	-7.2	1702	434	- .4	-16.7	685.6	103.1	-16.4	116.2	-67.6
1ST	17.00	25.9	5.0	4724	2168	5.5	2.3	686.2	110.3	-14.6	104.5	-66.6
2ND	37.00	23.4	5.9	3125	1438	7.5	4.1	660.3	105.3	-12.4	91.0	-64.1
3RD	49.50	23.2	5.7	3125	1438	7.4	3.9	637.0	99.4	-11.1	82.9	-62.2
4TH	62.00	23.1	5.4	3125	1438	7.4	3.7	613.8	93.7	-9.9	75.1	-60.1
5TH	74.50	23.0	5.0	3125	1438	7.4	3.5	590.7	88.4	-8.8	67.6	-57.9
6TH	87.00	24.9	5.2	3125	1438	8.0	3.6	567.7	83.3	-7.7	60.3	-55.4
7TH	99.50	26.9	5.3	3125	1438	8.6	3.7	542.7	78.2	-6.7	53.4	-52.7
8TH	112.00	28.9	5.5	3125	1438	9.2	3.8	515.8	72.8	-5.8	46.8	-49.8
9TH	124.50	30.6	5.9	3125	1438	9.8	4.1	487.0	67.3	-4.9	40.5	-46.6
10TH	137.00	32.0	6.0	3125	1438	10.2	4.2	456.3	61.5	-4.1	34.6	-43.3
11TH	149.50	33.4	6.2	3125	1438	10.7	4.3	424.3	55.4	-3.4	29.1	-39.7
12TH	162.00	34.9	6.4	3125	1438	11.2	4.5	390.9	49.2	-2.7	24.0	-36.1
13TH	174.50	36.9	6.2	3125	1438	11.8	4.3	356.1	42.8	-2.1	19.3	-32.2
14TH	187.00	39.0	6.0	3125	1438	12.5	4.1	319.1	36.6	-1.6	15.1	-28.3
15TH	199.50	41.0	5.7	3125	1438	13.1	4.0	280.2	30.6	-1.2	11.4	-24.3
16TH	212.00	42.7	5.3	3125	1438	13.7	3.7	239.2	24.9	-.9	8.1	-20.1
17TH	224.50	43.9	4.4	3125	1438	14.0	3.1	196.5	19.6	-.6	5.4	-16.0
18TH	237.00	45.1	3.5	3125	1438	14.4	2.5	152.6	15.2	-.4	3.2	-12.1
19TH	249.50	45.4	2.8	3125	1438	14.5	2.0	107.5	11.6	-.2	1.6	-8.2
20TH	262.00	62.1	8.8	4375	2013	14.2	4.4	62.1	8.8	-.1	.5	-4.5
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 230

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-2.4	-6.1	1702	434	-1.4	-14.2	769.1	126.6	-18.9	128.7	-58.3
1ST	17.00	31.3	6.9	4724	2168	6.6	3.2	771.6	132.7	-16.7	115.6	-57.5
2ND	37.00	27.0	6.9	3125	1438	8.6	4.8	740.3	125.8	-14.1	100.5	-55.2
3RD	49.50	27.2	6.7	3125	1438	8.7	4.6	713.3	118.8	-12.6	91.4	-53.4
4TH	62.00	27.4	6.4	3125	1438	8.8	4.5	686.2	112.2	-11.2	82.7	-51.5
5TH	74.50	27.7	6.2	3125	1438	8.9	4.3	658.8	105.8	-9.8	74.3	-49.4
6TH	87.00	29.8	6.6	3125	1438	9.6	4.6	631.0	99.6	-8.5	66.2	-47.2
7TH	99.50	32.0	7.1	3125	1438	10.3	5.0	601.2	92.9	-7.3	58.5	-44.7
8TH	112.00	34.2	7.6	3125	1438	11.0	5.3	569.2	85.8	-6.2	51.2	-42.0
9TH	124.50	36.0	8.0	3125	1438	11.5	5.6	534.9	78.2	-5.2	44.3	-39.2
10TH	137.00	37.0	7.9	3125	1438	11.8	5.5	498.9	70.2	-4.2	37.8	-36.1
11TH	149.50	38.0	7.8	3125	1438	12.2	5.4	461.9	62.3	-3.4	31.8	-33.0
12TH	162.00	39.0	7.8	3125	1438	12.5	5.4	423.9	54.4	-2.7	26.3	-29.7
13TH	174.50	40.2	7.6	3125	1438	12.9	5.3	385.0	46.7	-2.0	21.2	-26.3
14TH	187.00	41.4	7.5	3125	1438	13.2	5.2	344.8	39.0	-1.5	16.7	-22.8
15TH	199.50	42.6	7.4	3125	1438	13.6	5.1	303.4	31.6	-1.1	12.6	-19.3
16TH	212.00	44.2	6.7	3125	1438	14.2	4.7	260.8	24.2	-.7	9.1	-15.8
17TH	224.50	46.1	5.2	3125	1438	14.8	3.6	216.5	17.5	-.5	6.1	-12.3
18TH	237.00	48.0	3.8	3125	1438	15.4	2.6	170.4	12.3	-.3	3.7	-9.1
19TH	249.50	49.3	2.4	3125	1438	15.8	1.7	122.4	8.5	-.1	1.9	-6.1
20TH	262.00	73.2	6.0	4375	2013	16.7	3.0	73.2	6.0	-.1	.6	-3.5
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7 SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 240

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-2.8	-4.8	1702	434	-1.7	-11.2	775.5	116.5	-13.0	121.6	-49.2
1ST	17.00	44.0	12.6	4724	2168	9.3	5.8	778.3	121.3	-10.9	108.4	-48.6
2ND	37.00	34.5	10.3	3125	1438	11.1	7.2	734.3	108.7	-8.6	93.3	-45.9
3RD	49.50	34.5	10.0	3125	1438	11.0	6.9	699.7	98.4	-7.3	84.4	-43.9
4TH	62.00	34.4	9.6	3125	1438	11.0	6.7	665.3	88.5	-6.2	75.8	-41.8
5TH	74.50	34.3	9.2	3125	1438	11.0	6.4	630.9	78.9	-5.1	67.7	-39.5
6TH	87.00	35.0	8.7	3125	1438	11.2	6.1	596.6	69.6	-4.2	60.0	-37.1
7TH	99.50	35.7	8.2	3125	1438	11.4	5.7	561.5	60.9	-3.4	52.8	-34.6
8TH	112.00	36.5	7.7	3125	1438	11.7	5.4	525.8	52.7	-2.7	46.0	-32.0
9TH	124.50	36.9	7.3	3125	1438	11.8	5.1	489.3	45.0	-2.1	39.7	-29.3
10TH	137.00	36.7	6.9	3125	1438	11.7	4.8	452.4	37.7	-1.5	33.8	-26.5
11TH	149.50	36.4	6.4	3125	1438	11.6	4.4	415.8	30.8	-1.1	28.4	-23.7
12TH	162.00	36.2	5.9	3125	1438	11.6	4.1	379.4	24.4	-.8	23.4	-20.9
13TH	174.50	36.6	5.2	3125	1438	11.7	3.6	343.2	18.5	-.5	18.9	-18.1
14TH	187.00	37.1	4.5	3125	1438	11.9	3.1	306.6	13.3	-.3	14.8	-15.3
15TH	199.50	37.5	3.8	3125	1438	12.0	2.6	269.5	8.8	-.2	11.2	-12.6
16TH	212.00	38.9	2.9	3125	1438	12.4	2.0	231.9	5.0	-.1	8.1	-9.8
17TH	224.50	41.1	1.7	3125	1438	13.1	1.2	193.0	2.1	-.0	5.4	-7.3
18TH	237.00	43.3	.4	3125	1438	13.8	.3	151.9	.5	-.0	3.3	-5.1
19TH	249.50	44.9	-.9	3125	1438	14.4	-.6	108.7	.0	-.0	1.6	-3.2
20TH	262.00	63.8	.9	4375	2013	14.6	.4	63.8	.9	-.0	.6	-1.8
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 250

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							334.0	-84.0	15.1	52.6	-21.7
1ST	17.00	-11.3	-6.4	1702	434	-6.7	-14.7	345.3	-77.6	13.7	46.8	-21.6
2ND	37.00	19.7	-3.3	4724	2168	4.2	-1.5	325.6	-74.3	12.2	40.1	-19.9
3RD	49.50	17.6	-.7	3125	1438	5.6	-.5	308.0	-73.7	11.2	36.1	-18.7
4TH	62.00	16.8	-1.1	3125	1438	5.4	-.8	291.2	-72.5	10.3	32.4	-17.4
5TH	74.50	16.0	-1.6	3125	1438	5.1	-1.1	275.2	-70.9	9.4	28.8	-16.2
6TH	87.00	15.3	-2.0	3125	1438	4.9	-1.4	259.9	-68.9	8.6	25.5	-14.9
7TH	99.50	15.8	-2.1	3125	1438	5.0	-1.4	244.1	-66.8	7.7	22.3	-13.7
8TH	112.00	16.3	-2.1	3125	1438	5.2	-1.5	227.8	-64.7	6.9	19.4	-12.4
9TH	124.50	16.8	-2.1	3125	1438	5.4	-1.5	211.0	-62.6	6.1	16.6	-11.2
10TH	137.00	17.0	-2.2	3125	1438	5.5	-1.5	194.0	-60.4	5.3	14.1	-10.0
11TH	149.50	16.9	-2.2	3125	1438	5.4	-1.6	177.1	-58.2	4.6	11.8	-8.8
12TH	162.00	16.8	-2.3	3125	1438	5.4	-1.6	160.3	-55.9	3.9	9.7	-7.6
13TH	174.50	16.7	-2.4	3125	1438	5.4	-1.7	143.6	-53.5	3.2	7.8	-6.4
14TH	187.00	16.4	-3.4	3125	1438	5.3	-2.3	127.1	-50.1	2.5	6.1	-5.3
15TH	199.50	16.1	-4.4	3125	1438	5.1	-3.0	111.1	-45.7	1.9	4.6	-4.3
16TH	212.00	15.7	-5.3	3125	1438	5.0	-3.7	95.4	-40.4	1.4	3.3	-3.2
17TH	224.50	16.1	-6.2	3125	1438	5.2	-4.3	79.3	-34.2	.9	2.2	-2.3
18TH	237.00	17.0	-7.1	3125	1438	5.4	-4.9	62.3	-27.1	.6	1.3	-1.5
19TH	249.50	17.8	-8.0	3125	1438	5.7	-5.6	44.5	-19.1	.3	.7	-.9
20TH	262.00	18.3	-9.0	3125	1438	5.9	-6.3	26.2	-10.0	.1	.2	-.5
TOP	279.50	26.2	-10.0	4375	2013	6.0	-5.0	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 260

CONFIGURATION A

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-86.7	-235.2	37.0	-11.6	8.2
1ST	17.00	-18.1	-6.6	1702	434	-10.6	-15.2	-68.6	-228.6	33.1	-10.3	7.7
2ND	37.00	-5.8	-14.6	4724	2168	-1.2	-6.7	-62.8	-214.1	28.6	-9.0	7.6
3RD	49.50	-1.1	-8.3	3125	1438	-.3	-5.8	-61.8	-205.8	26.0	-8.2	7.6
4TH	62.00	-2.0	-8.8	3125	1438	-.7	-6.2	-59.7	-196.9	23.5	-7.4	7.6
5TH	74.50	-3.0	-9.4	3125	1438	-1.0	-6.5	-56.7	-187.5	21.1	-6.7	7.6
6TH	87.00	-3.9	-9.8	3125	1438	-1.3	-6.9	-52.8	-177.7	18.8	-6.0	7.6
7TH	99.50	-3.3	-9.7	3125	1438	-1.0	-6.7	-49.5	-168.0	16.6	-5.4	7.4
8TH	112.00	-2.5	-9.5	3125	1438	-.8	-6.6	-46.9	-158.6	14.6	-4.8	7.2
9TH	124.50	-1.8	-9.3	3125	1438	-.6	-6.5	-45.1	-149.3	12.7	-4.2	6.9
10TH	137.00	-1.6	-9.3	3125	1438	-.5	-6.5	-43.5	-140.0	10.9	-3.7	6.5
11TH	149.50	-2.1	-9.5	3125	1438	-.7	-6.6	-41.4	-130.5	9.2	-3.1	6.1
12TH	162.00	-2.6	-9.7	3125	1438	-.8	-6.7	-38.8	-120.9	7.6	-2.6	5.7
13TH	174.50	-3.0	-9.9	3125	1438	-1.0	-6.9	-35.8	-111.0	6.2	-2.2	5.2
14TH	187.00	-3.1	-10.7	3125	1438	-1.0	-7.4	-32.6	-100.3	4.8	-1.7	4.7
15TH	199.50	-3.3	-11.5	3125	1438	-1.1	-8.0	-29.3	-88.8	3.7	-1.3	4.1
16TH	212.00	-3.5	-12.3	3125	1438	-1.1	-8.6	-25.8	-76.4	2.6	-1.0	3.5
17TH	224.50	-3.5	-13.1	3125	1438	-1.1	-9.1	-22.3	-63.3	1.7	-.7	2.9
18TH	237.00	-3.8	-13.8	3125	1438	-1.2	-9.6	-18.4	-49.6	1.0	-.4	2.2
19TH	249.50	-4.1	-14.5	3125	1438	-1.3	-10.1	-14.4	-35.1	.5	-.2	1.4
20TH	262.00	-4.7	-15.5	3125	1438	-1.5	-10.8	-9.6	-19.6	.2	-.1	.6
TOP	279.50	-9.6	-19.6	4375	2013	-2.2	-9.7	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 270

SUN GAS BUILDING, DALLAS
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-27.2	-6.8	1702	434	-16.0	-15.6	-527.9	-348.9	53.6	-74.9	28.7
1ST	17.00	-32.7	-21.3	4724	2168	-6.9	-9.8	-500.7	-342.1	47.8	-66.2	27.4
2ND	37.00	-20.9	-13.1	3125	1438	-6.7	-9.1	-468.0	-320.8	41.1	-56.5	25.7
3RD	49.50	-22.7	-13.6	3125	1438	-7.3	-9.5	-447.1	-307.7	37.2	-50.8	24.6
4TH	62.00	-24.6	-14.1	3125	1438	-7.9	-9.8	-424.4	-294.1	33.4	-45.3	23.5
5TH	74.50	-26.2	-14.6	3125	1438	-8.4	-10.1	-399.8	-280.0	29.9	-40.2	22.4
6TH	87.00	-25.9	-14.8	3125	1438	-8.3	-10.3	-373.5	-265.4	26.4	-35.3	21.3
7TH	99.50	-25.5	-15.1	3125	1438	-8.1	-10.5	-347.7	-250.6	23.2	-30.8	20.2
8TH	112.00	-25.1	-15.4	3125	1438	-8.0	-10.7	-322.2	-235.5	20.2	-26.6	18.9
9TH	124.50	-24.8	-15.7	3125	1438	-7.9	-10.9	-297.1	-220.1	17.3	-22.8	17.6
10TH	137.00	-24.9	-16.2	3125	1438	-8.0	-11.3	-272.3	-204.4	14.7	-19.2	16.2
11TH	149.50	-25.0	-16.7	3125	1438	-8.0	-11.6	-247.5	-188.2	12.2	-16.0	14.8
12TH	162.00	-25.0	-17.2	3125	1438	-8.0	-12.0	-222.5	-171.5	10.0	-13.0	13.3
13TH	174.50	-24.3	-17.8	3125	1438	-7.8	-12.4	-197.5	-154.3	7.9	-10.4	11.8
14TH	187.00	-23.7	-18.4	3125	1438	-7.6	-12.8	-173.2	-136.4	6.1	-8.1	10.3
15TH	199.50	-23.0	-18.9	3125	1438	-7.4	-13.2	-149.5	-118.1	4.5	-6.1	8.8
16TH	212.00	-22.7	-19.3	3125	1438	-7.3	-13.4	-126.5	-99.1	3.2	-4.3	7.3
17TH	224.50	-22.9	-19.6	3125	1438	-7.3	-13.6	-103.8	-79.8	2.1	-2.9	5.8
18TH	237.00	-23.0	-19.8	3125	1438	-7.4	-13.8	-81.0	-60.2	1.2	-1.7	4.3
19TH	249.50	-23.7	-20.2	3125	1438	-7.6	-14.1	-57.9	-40.4	.6	-.9	2.8
20TH	262.00	-34.3	-20.2	4375	2013	-7.8	-10.0	-34.3	-20.2	.2	-.3	1.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 280

CONFIGURATION A

SUN GAS BUILDING, DALLAS
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-34.7	-7.6	1702	434	-20.4	-17.4	-779.4	-459.4	71.1	-111.5	32.3
1ST	17.00	-52.2	-26.7	4724	2168	-11.1	-12.3	-744.7	-451.8	63.4	-98.5	30.5
2ND	37.00	-33.6	-16.3	3125	1438	-10.8	-11.3	-692.5	-425.1	54.6	-84.1	28.1
3RD	49.50	-34.9	-17.0	3125	1438	-11.2	-11.8	-658.9	-408.8	49.4	-75.7	26.6
4TH	62.00	-36.2	-17.7	3125	1438	-11.6	-12.3	-624.0	-391.8	44.4	-67.7	25.1
5TH	74.50	-37.2	-18.4	3125	1438	-11.9	-12.8	-587.8	-374.1	39.6	-60.1	23.7
6TH	87.00	-36.7	-19.2	3125	1438	-11.8	-13.3	-550.6	-355.7	35.0	-53.0	22.3
7TH	99.50	-36.2	-19.9	3125	1438	-11.6	-13.9	-513.8	-336.5	30.7	-46.3	20.9
8TH	112.00	-35.7	-20.7	3125	1438	-11.4	-14.4	-477.6	-316.6	26.6	-40.1	19.5
9TH	124.50	-35.2	-21.5	3125	1438	-11.3	-14.9	-441.9	-295.9	22.8	-34.4	18.1
10TH	137.00	-34.8	-22.3	3125	1438	-11.1	-15.5	-406.7	-274.5	19.2	-29.1	16.7
11TH	149.50	-34.5	-23.2	3125	1438	-11.0	-16.1	-371.9	-252.2	15.9	-24.2	15.3
12TH	162.00	-34.3	-24.0	3125	1438	-11.0	-16.7	-337.4	-229.0	12.9	-19.8	13.9
13TH	174.50	-35.1	-24.8	3125	1438	-11.2	-17.3	-303.1	-205.0	10.2	-15.8	12.6
14TH	187.00	-35.9	-25.7	3125	1438	-11.5	-17.9	-268.0	-180.1	7.8	-12.2	11.1
15TH	199.50	-36.8	-26.5	3125	1438	-11.8	-18.4	-232.1	-154.4	5.7	-9.1	9.6
16TH	212.00	-37.2	-26.7	3125	1438	-11.9	-18.6	-195.4	-128.0	4.0	-6.4	8.1
17TH	224.50	-37.5	-26.4	3125	1438	-12.0	-18.4	-158.1	-101.3	2.5	-4.2	6.6
18TH	237.00	-37.8	-26.1	3125	1438	-12.1	-18.2	-120.6	-74.8	1.4	-2.5	5.0
19TH	249.50	-38.2	-25.9	3125	1438	-12.2	-18.0	-82.9	-48.7	.6	-1.2	3.3
20TH	262.00	-44.7	-22.8	4375	2013	-10.2	-11.4	-44.7	-22.8	.2	-.4	1.7
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : WIND DIRECTION 290												
CONFIGURATION A						SUN GAS BUILDING, DALLAS REFERENCE PRESSURE 23.0 PSF				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-41.3	-9.1	1702	434	-24.3	-20.9	-946.9	-536.0	81.8	-132.9	28.1
1ST	17.00	-67.7	-32.9	4724	2168	-14.3	-15.2	-905.6	-527.0	72.8	-117.2	26.3
2ND	37.00	-42.7	-20.4	3125	1438	-13.7	-14.2	-837.9	-494.1	62.6	-99.7	24.2
3RD	49.50	-43.1	-20.8	3125	1438	-13.8	-14.4	-795.2	-473.6	56.5	-89.5	22.9
4TH	62.00	-43.4	-21.1	3125	1438	-13.9	-14.7	-752.1	-452.9	50.7	-79.8	21.7
5TH	74.50	-43.8	-21.4	3125	1438	-14.0	-14.9	-708.7	-431.8	45.2	-70.7	20.5
6TH	87.00	-43.9	-22.5	3125	1438	-14.1	-15.6	-664.9	-410.4	39.9	-62.1	19.4
7TH	99.50	-44.1	-23.6	3125	1438	-14.1	-16.4	-621.0	-387.9	34.9	-54.1	18.2
8TH	112.00	-44.2	-24.7	3125	1438	-14.2	-17.2	-576.9	-364.3	30.2	-46.6	17.0
9TH	124.50	-44.3	-25.6	3125	1438	-14.2	-17.8	-532.7	-339.6	25.8	-39.7	15.8
10TH	137.00	-44.5	-26.4	3125	1438	-14.3	-18.4	-488.4	-314.0	21.8	-33.3	14.6
11TH	149.50	-44.8	-27.2	3125	1438	-14.3	-18.9	-443.8	-287.6	18.0	-27.5	13.3
12TH	162.00	-44.8	-27.2	3125	1438	-14.3	-18.9	-399.0	-260.3	14.6	-22.2	12.1
13TH	174.50	-45.0	-28.0	3125	1438	-14.4	-19.5	-354.0	-232.3	11.5	-17.5	10.8
14TH	187.00	-45.4	-28.8	3125	1438	-14.5	-20.0	-308.6	-203.5	8.8	-13.3	9.5
15TH	199.50	-45.9	-29.6	3125	1438	-14.7	-20.6	-262.7	-173.9	6.4	-9.8	8.2
16TH	212.00	-46.3	-30.4	3125	1438	-14.8	-21.1	-216.4	-143.6	4.4	-6.8	6.9
17TH	224.50	-45.6	-30.4	3125	1438	-14.6	-21.1	-170.9	-113.2	2.8	-4.4	5.5
18TH	237.00	-44.0	-29.7	3125	1438	-14.1	-20.7	-126.9	-83.5	1.6	-2.5	4.1
19TH	249.50	-42.4	-29.1	3125	1438	-13.6	-20.2	-84.6	-54.4	.7	-1.2	2.7
20TH	262.00	-41.1	-28.5	3125	1438	-13.1	-19.8	-43.5	-25.9	.2	-.4	1.4
TOP	279.50	-43.5	-25.9	4375	2013	-9.9	-12.9	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 300

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-1138.5	-551.7	83.9	-160.9	23.9
1ST	17.00	-47.8	-10.3	1702	434	-28.1	-23.7	-1090.7	-541.4	74.6	-142.0	22.1
2ND	37.00	-82.4	-35.0	4724	2168	-17.4	-16.1	-1008.3	-506.4	64.1	-121.0	20.3
3RD	49.50	-50.9	-21.4	3125	1438	-16.3	-14.9	-957.4	-485.0	57.9	-108.7	19.3
4TH	62.00	-50.6	-21.6	3125	1438	-16.2	-15.1	-906.8	-463.4	52.0	-97.0	18.3
5TH	74.50	-50.4	-21.9	3125	1438	-16.1	-15.2	-856.4	-441.5	46.3	-86.0	17.3
6TH	87.00	-50.2	-22.1	3125	1438	-16.1	-15.4	-806.2	-419.4	40.9	-75.6	16.3
7TH	99.50	-51.0	-23.0	3125	1438	-16.3	-16.0	-755.2	-396.4	35.8	-65.9	15.3
8TH	112.00	-51.7	-23.8	3125	1438	-16.6	-16.6	-703.5	-372.6	31.0	-56.7	14.3
9TH	124.50	-52.5	-24.7	3125	1438	-16.8	-17.2	-651.0	-347.9	26.5	-48.3	13.3
10TH	137.00	-53.4	-25.7	3125	1438	-17.1	-17.9	-597.5	-322.2	22.3	-40.5	12.2
11TH	149.50	-54.5	-26.9	3125	1438	-17.4	-18.7	-543.0	-295.3	18.5	-33.4	11.2
12TH	162.00	-55.6	-28.1	3125	1438	-17.8	-19.5	-487.4	-267.2	15.0	-26.9	10.1
13TH	174.50	-56.6	-29.2	3125	1438	-18.1	-20.3	-430.8	-238.1	11.8	-21.2	9.0
14TH	187.00	-56.4	-29.7	3125	1438	-18.0	-20.7	-374.5	-208.4	9.0	-16.1	8.0
15TH	199.50	-56.1	-30.2	3125	1438	-17.9	-21.0	-318.4	-178.2	6.6	-11.8	6.9
16TH	212.00	-55.8	-30.7	3125	1438	-17.9	-21.4	-262.6	-147.5	4.6	-8.2	5.8
17TH	224.50	-55.0	-30.7	3125	1438	-17.6	-21.4	-207.6	-116.7	2.9	-5.2	4.6
18TH	237.00	-53.7	-30.3	3125	1438	-17.2	-21.1	-153.9	-86.4	1.6	-3.0	3.5
19TH	249.50	-52.4	-29.9	3125	1438	-16.8	-20.8	-101.4	-56.5	.8	-1.4	2.3
20TH	262.00	-51.4	-29.6	3125	1438	-16.4	-20.6	-50.0	-26.9	.2	-.4	1.1
TOP	279.50	-50.0	-26.9	4375	2013	-11.4	-13.4	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 310

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-49.9	-9.5	1702	434	-29.3	-21.9	-1267.9	-491.2	74.8	-182.4	18.2
1ST	17.00	-88.6	-31.8	4724	2168	-18.8	-14.7	-1218.0	-481.7	66.6	-161.3	16.4
2ND	37.00	-54.3	-18.9	3125	1438	-17.4	-13.1	-1129.4	-449.9	57.3	-137.8	15.0
3RD	49.50	-54.4	-19.1	3125	1438	-17.4	-13.3	-1075.0	-431.0	51.7	-124.0	14.3
4TH	62.00	-54.4	-19.2	3125	1438	-17.4	-13.4	-1020.7	-412.0	46.5	-110.9	13.6
5TH	74.50	-54.4	-19.4	3125	1438	-17.4	-13.5	-966.3	-392.7	41.5	-98.5	12.9
6TH	87.00	-55.3	-20.1	3125	1438	-17.7	-14.0	-911.8	-373.3	36.7	-86.8	12.2
7TH	99.50	-56.2	-20.9	3125	1438	-18.0	-14.5	-856.5	-353.2	32.1	-75.7	11.5
8TH	112.00	-57.1	-21.6	3125	1438	-18.3	-15.0	-800.4	-332.3	27.8	-65.3	10.8
9TH	124.50	-58.3	-22.5	3125	1438	-18.6	-15.6	-743.3	-310.7	23.8	-55.7	10.1
10TH	137.00	-60.0	-23.5	3125	1438	-19.2	-16.3	-685.0	-288.2	20.1	-46.8	9.3
11TH	149.50	-61.7	-24.5	3125	1438	-19.7	-17.0	-625.1	-264.7	16.6	-38.6	8.6
12TH	162.00	-63.4	-25.5	3125	1438	-20.3	-17.8	-563.4	-240.2	13.5	-31.2	7.8
13TH	174.50	-64.2	-26.4	3125	1438	-20.5	-18.4	-500.0	-214.7	10.6	-24.5	7.0
14TH	187.00	-65.0	-27.3	3125	1438	-20.8	-19.0	-435.8	-188.3	8.1	-18.7	6.1
15TH	199.50	-65.8	-28.2	3125	1438	-21.0	-19.6	-370.8	-161.0	5.9	-13.6	5.3
16TH	212.00	-65.1	-28.2	3125	1438	-20.8	-19.6	-305.0	-132.8	4.1	-9.4	4.4
17TH	224.50	-63.2	-27.6	3125	1438	-20.2	-19.2	-239.9	-104.6	2.6	-6.0	3.5
18TH	237.00	-61.3	-26.9	3125	1438	-19.6	-18.7	-176.7	-77.0	1.5	-3.4	2.6
19TH	249.50	-59.6	-26.3	3125	1438	-19.1	-18.3	-115.5	-50.1	.7	-1.6	1.7
20TH	262.00	-55.9	-23.9	3125	1438	-19.1	-18.3	-55.9	-23.9	.2	-.5	.8
TOP	279.50			4375	2013	-12.8	-11.9	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 320

SUN GAS BUILDING, DALLAS
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00											
1ST	17.00	-47.9	-10.1	1702	434	-28.1	-23.2	-1314.7	-398.4	60.6	-191.7	8.6
2ND	37.00	-92.2	-27.3	4724	2168	-19.5	-12.6	-1266.9	-388.4	53.9	-169.7	6.9
3RD	49.50	-56.5	-15.7	3125	1438	-18.1	-10.9	-1174.7	-361.0	46.4	-145.3	6.1
4TH	62.00	-55.5	-15.4	3125	1438	-17.8	-10.7	-1118.2	-345.3	42.0	-131.0	5.7
5TH	74.50	-54.5	-15.1	3125	1438	-17.5	-10.5	-1062.7	-329.9	37.8	-117.3	5.4
6TH	87.00	-53.6	-14.8	3125	1438	-17.2	-10.3	-1008.2	-314.8	33.7	-104.4	5.1
7TH	99.50	-53.6	-14.8	3125	1438	-17.2	-10.3	-954.5	-300.0	29.9	-92.1	4.8
8TH	112.00	-53.1	-15.6	3125	1438	-17.6	-10.8	-899.4	-284.4	26.2	-80.5	4.5
9TH	124.50	-56.7	-16.3	3125	1438	-18.2	-11.4	-842.7	-268.1	22.8	-69.7	4.2
10TH	137.00	-58.3	-17.1	3125	1438	-18.7	-11.9	-784.3	-251.0	19.6	-59.5	3.9
11TH	149.50	-60.0	-17.8	3125	1438	-19.2	-12.4	-724.3	-233.2	16.5	-50.1	3.6
12TH	162.00	-61.9	-18.5	3125	1438	-19.8	-12.9	-662.4	-214.7	13.7	-41.4	3.3
13TH	174.50	-63.8	-19.2	3125	1438	-20.4	-13.4	-598.6	-195.5	11.2	-33.5	2.9
14TH	187.00	-65.6	-19.9	3125	1438	-21.0	-13.9	-532.9	-175.6	8.8	-26.4	2.6
15TH	199.50	-66.7	-20.8	3125	1438	-21.4	-14.5	-466.2	-154.8	6.8	-20.2	2.3
16TH	212.00	-67.9	-21.6	3125	1438	-21.7	-15.1	-398.3	-133.2	5.0	-14.8	1.9
17TH	224.50	-69.0	-22.5	3125	1438	-22.1	-15.7	-329.4	-110.6	3.5	-10.2	1.6
18TH	237.00	-68.9	-22.8	3125	1438	-22.0	-15.9	-260.5	-87.8	2.2	-6.6	1.2
19TH	249.50	-67.5	-22.6	3125	1438	-21.6	-15.7	-193.0	-65.3	1.3	-3.7	.9
20TH	262.00	-66.1	-22.3	3125	1438	-21.2	-15.5	-126.9	-42.9	.6	-1.7	.6
TOP	279.50	-65.0	-22.2	3125	1438	-20.8	-15.5	-61.8	-20.7	.2	-.5	.2
		-61.8	-20.7	4375	2013	-14.1	-10.3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1		SUN GAS BUILDING, DALLAS						GUST FACTOR 1.32				
WIND DIRECTION 330		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF				
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-1266.2	-294.0	44.1	-187.1	-4.4
1ST	17.00	-40.6	-10.9	1702	434	-23.9	-25.2	-1225.6	-283.1	39.2	-165.9	-5.9
2ND	37.00	-87.7	-23.7	4724	2168	-18.6	-10.9	-1137.9	-259.5	33.7	-142.3	-5.8
3RD	49.50	-53.5	-12.4	3125	1438	-17.1	-8.6	-1084.4	-247.1	30.6	-128.4	-5.6
4TH	62.00	-52.6	-11.6	3125	1438	-16.8	-8.1	-1031.8	-235.4	27.5	-115.2	-5.3
5TH	74.50	-51.7	-10.9	3125	1438	-16.5	-7.6	-980.2	-224.5	24.7	-102.6	-5.1
6TH	87.00	-50.8	-10.2	3125	1438	-16.3	-7.1	-929.4	-214.4	21.9	-90.7	-4.8
7TH	99.50	-52.1	-10.5	3125	1438	-16.7	-7.3	-877.3	-203.9	19.3	-79.4	-4.5
8TH	112.00	-53.5	-10.8	3125	1438	-17.1	-7.5	-823.8	-193.1	16.8	-68.7	-4.3
9TH	124.50	-54.9	-11.2	3125	1438	-17.6	-7.8	-768.9	-181.9	14.5	-58.8	-4.0
10TH	137.00	-56.8	-11.8	3125	1438	-18.2	-8.2	-712.2	-170.2	12.3	-49.5	-3.7
11TH	149.50	-59.2	-12.6	3125	1438	-19.0	-8.8	-652.9	-157.6	10.2	-41.0	-3.4
12TH	162.00	-61.7	-13.4	3125	1438	-19.7	-9.3	-591.2	-144.1	8.4	-33.2	-3.1
13TH	174.50	-64.1	-14.3	3125	1438	-20.5	-9.9	-527.1	-129.9	6.6	-26.2	-2.8
14TH	187.00	-65.4	-14.9	3125	1438	-20.9	-10.4	-461.7	-115.0	5.1	-20.0	-2.5
15TH	199.50	-66.7	-15.5	3125	1438	-21.3	-10.8	-395.1	-99.4	3.8	-14.7	-2.2
16TH	212.00	-67.9	-16.2	3125	1438	-21.7	-11.3	-327.1	-83.2	2.6	-10.2	-1.8
17TH	224.50	-68.1	-16.6	3125	1438	-21.8	-11.5	-259.1	-66.6	1.7	-6.5	-1.5
18TH	237.00	-67.0	-16.7	3125	1438	-21.4	-11.6	-192.1	-49.9	1.0	-3.7	-1.2
19TH	249.50	-66.0	-16.9	3125	1438	-21.1	-11.7	-126.1	-33.1	.4	-1.7	-.9
20TH	262.00	-65.1	-17.1	3125	1438	-20.8	-11.9	-61.0	-16.0	.1	-.5	-.5
TOP	279.50	-61.0	-16.0	4375	2013	-14.0	-7.9	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 340

SUN GAS BUILDING, DALLAS
CONFIGURATION A
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							-1265.2	-207.5	29.4	-188.2	-19.0
1ST	17.00	-38.4	-11.7	1702	434	-22.5	-27.0	-1226.9	-195.7	26.0	-167.0	-20.4
2ND	37.00	-87.9	-20.2	4724	2168	-18.6	-9.3	-1138.9	-175.5	22.3	-143.4	-19.4
3RD	49.50	-53.1	-9.7	3125	1438	-17.0	-6.8	-1005.8	-165.8	20.1	-129.5	-18.6
4TH	62.00	-52.1	-9.0	3125	1438	-16.7	-6.3	-1033.7	-156.8	18.1	-116.2	-17.8
5TH	74.50	-51.1	-8.3	3125	1438	-16.3	-5.7	-982.6	-148.5	16.2	-103.6	-16.9
6TH	87.00	-50.1	-7.5	3125	1438	-16.0	-5.2	-932.5	-141.0	14.4	-91.7	-16.0
7TH	99.50	-51.4	-7.6	3125	1438	-16.5	-5.3	-881.0	-133.4	12.7	-80.3	-15.1
8TH	112.00	-52.7	-7.6	3125	1438	-16.9	-5.3	-828.3	-125.8	11.1	-69.6	-14.2
9TH	124.50	-54.1	-7.7	3125	1438	-17.3	-5.4	-774.2	-118.1	9.5	-59.6	-13.3
10TH	137.00	-56.0	-7.9	3125	1438	-17.9	-5.5	-718.2	-110.2	8.1	-50.3	-12.3
11TH	149.50	-58.6	-8.1	3125	1438	-18.7	-5.7	-659.7	-102.1	6.8	-41.7	-11.3
12TH	162.00	-61.1	-8.4	3125	1438	-19.6	-5.9	-598.6	-93.7	5.6	-33.8	-10.3
13TH	174.50	-63.7	-8.7	3125	1438	-20.4	-6.1	-534.9	-85.0	4.5	-26.7	-9.2
14TH	187.00	-65.4	-9.2	3125	1438	-20.9	-6.4	-469.5	-75.7	3.4	-20.5	-8.1
15TH	199.50	-67.1	-9.7	3125	1438	-21.5	-6.8	-402.5	-66.0	2.6	-15.0	-7.0
16TH	212.00	-68.7	-10.2	3125	1438	-22.0	-7.1	-333.7	-55.8	1.8	-10.4	-5.9
17TH	224.50	-69.1	-10.6	3125	1438	-22.1	-7.4	-264.6	-45.2	1.2	-6.7	-4.8
18TH	237.00	-68.2	-10.9	3125	1438	-21.8	-7.6	-196.4	-34.3	.7	-3.8	-3.7
19TH	249.50	-67.3	-11.2	3125	1438	-21.5	-7.8	-129.1	-23.0	.3	-1.7	-2.5
20TH	262.00	-66.5	-11.6	3125	1438	-21.3	-8.1	-62.6	-11.4	.1	-.5	-1.4
TOP	279.50	-62.6	-11.4	4375	2013	-14.3	-5.7	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;												
WIND DIRECTION 350		CONFIGURATION A		SUN GAS BUILDING, DALLAS						GUST FACTOR 1.32		
		REFERENCE PRESSURE 23.0 PSF										
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00									11.9	-180.4	-33.8
1ST	17.00	-37.0	-12.2	1702	434	-21.7	-28.1	-1199.4	-101.2	10.3	-160.3	-35.1
2ND	37.00	-83.5	-15.4	4724	2168	-17.7	-7.1	-1162.4	-89.0	8.7	-137.9	-33.2
3RD	49.50	-50.3	-6.8	3125	1438	-16.1	-4.7	-1079.0	-73.6	7.8	-124.7	-31.8
4TH	62.00	-48.7	-5.8	3125	1438	-15.6	-4.0	-1028.7	-66.8	7.0	-112.1	-30.3
5TH	74.50	-47.1	-4.8	3125	1438	-15.1	-3.3	-979.9	-61.0	6.2	-100.2	-28.8
6TH	87.00	-45.5	-3.7	3125	1438	-14.6	-2.6	-932.8	-56.3	5.6	-88.8	-27.3
7TH	99.50	-47.0	-3.5	3125	1438	-15.0	-2.4	-887.3	-52.6	4.9	-78.0	-25.7
8TH	112.00	-48.6	-3.3	3125	1438	-15.5	-2.3	-840.3	-49.1	4.3	-67.8	-24.1
9TH	124.50	-50.1	-3.1	3125	1438	-16.0	-2.1	-791.7	-45.9	3.8	-58.2	-22.4
10TH	137.00	-52.1	-2.9	3125	1438	-16.7	-2.0	-741.6	-42.8	3.3	-49.3	-20.7
11TH	149.50	-54.4	-2.8	3125	1438	-17.4	-1.9	-689.5	-39.9	2.8	-41.0	-19.0
12TH	162.00	-56.6	-2.6	3125	1438	-18.1	-1.8	-635.1	-37.1	2.3	-33.4	-17.2
13TH	174.50	-58.9	-2.5	3125	1438	-18.8	-1.7	-578.5	-34.5	1.9	-26.6	-15.4
14TH	187.00	-60.7	-2.6	3125	1438	-19.4	-1.8	-519.6	-32.0	1.5	-20.4	-13.6
15TH	199.50	-62.6	-2.7	3125	1438	-20.0	-1.8	-458.9	-29.4	1.2	-15.1	-11.7
16TH	212.00	-64.4	-2.7	3125	1438	-20.6	-1.9	-396.3	-26.8	.9	-10.6	-9.8
17TH	224.50	-65.7	-3.2	3125	1438	-21.0	-2.2	-331.9	-24.0	.6	-6.8	-7.9
18TH	237.00	-66.3	-4.0	3125	1438	-21.2	-2.8	-266.3	-20.9	.4	-3.9	-6.0
19TH	249.50	-66.9	-4.8	3125	1438	-21.4	-3.4	-200.0	-16.9	.2	-1.8	-4.1
20TH	262.00	-67.5	-5.7	3125	1438	-21.6	-4.0	-133.1	-12.1	.1	-.6	-2.3
TOP	279.50	-65.6	-6.4	4375	2013	-15.0	-3.2	-65.6	-6.4	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1															
WIND DIRECTION 10		CONFIGURATION B				SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE				REFERENCE PRESSURE 23.0 PSF			GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT			
											1000-FT-KIPS				
GRND	0.00	-25.7	-9.4	1702	434	-15.1	-21.7	-863.1	-60.0	10.2	-132.2	-62.2			
1ST	17.00	-52.9	-4.3	4724	2168	-11.2	-2.0	-837.3	-50.6	9.3	-117.8	-63.0			
2ND	37.00	-33.2	-1.5	3125	1438	-10.6	-1.1	-784.5	-46.3	8.3	-101.6	-59.9			
3RD	49.50	-32.8	-.8	3125	1438	-10.5	-.6	-751.2	-44.8	7.7	-92.0	-57.5			
4TH	62.00	-32.3	-.1	3125	1438	-10.3	-.0	-718.4	-44.0	7.2	-82.8	-55.0			
5TH	74.50	-31.9	.6	3125	1438	-10.2	.4	-686.1	-43.9	6.6	-74.0	-52.4			
6TH	87.00	-33.8	-.1	3125	1438	-10.8	-.0	-654.2	-44.6	6.1	-65.6	-49.6			
7TH	99.50	-35.8	-.8	3125	1438	-11.5	-.6	-620.5	-44.5	5.5	-57.7	-46.7			
8TH	112.00	-37.8	-1.6	3125	1438	-12.1	-1.1	-584.7	-43.7	5.0	-50.1	-43.7			
9TH	124.50	-39.3	-1.7	3125	1438	-12.6	-1.2	-546.9	-42.1	4.4	-43.1	-40.6			
10TH	137.00	-40.6	-1.5	3125	1438	-13.0	-1.1	-507.6	-40.5	3.9	-36.5	-37.5			
11TH	149.50	-41.8	-1.4	3125	1438	-13.4	-.9	-467.0	-38.9	3.4	-30.4	-34.3			
12TH	162.00	-43.1	-1.2	3125	1438	-13.8	-.8	-425.2	-37.6	2.9	-24.8	-31.0			
13TH	174.50	-44.1	-1.6	3125	1438	-14.1	-1.1	-382.1	-36.4	2.5	-19.7	-27.8			
14TH	187.00	-45.1	-1.9	3125	1438	-14.4	-1.3	-338.0	-34.8	2.0	-15.2	-24.4			
15TH	199.50	-46.2	-2.3	3125	1438	-14.8	-1.6	-292.9	-32.9	1.6	-11.3	-21.0			
16TH	212.00	-47.4	-3.0	3125	1438	-15.2	-2.1	-246.7	-30.7	1.2	-7.9	-17.5			
17TH	224.50	-48.5	-4.4	3125	1438	-15.5	-3.0	-199.3	-27.6	.8	-5.1	-14.1			
18TH	237.00	-49.7	-5.7	3125	1438	-15.9	-4.0	-150.8	-23.3	.5	-3.0	-10.6			
19TH	249.50	-51.0	-7.0	3125	1438	-16.3	-4.8	-101.0	-17.6	.3	-1.4	-7.2			
20TH	262.00	-50.0	-10.6	4375	2013	-11.4	-5.3	-50.0	-10.6	.1	-.4	-3.9			
TOP	279.50							0.0	0.0	0.0	0.0	0.0			

TABLE 7. SHEAR AND MOMENT DIAGRAMS : WIND DIRECTION 20												
SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32												
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-25.4	-10.6	1702	434	-14.9	-24.5	-800.2	-130.0	25.4	-127.9	-61.6
1ST	17.00	-39.3	2.4	4724	2168	-8.3	1.1	-774.9	-119.4	23.3	-114.5	-62.4
2ND	37.00	-24.6	2.4	3125	1438	-7.9	1.7	-735.6	-121.8	20.8	-99.4	-60.0
3RD	49.50	-25.6	1.5	3125	1438	-8.2	1.1	-711.1	-124.2	19.3	-90.3	-58.1
4TH	62.00	-26.7	.7	3125	1438	-8.5	.5	-685.4	-125.8	17.7	-81.6	-55.9
5TH	74.50	-27.7	-.2	3125	1438	-8.9	-.1	-658.7	-126.4	16.2	-73.2	-53.5
6TH	87.00	-29.9	-1.7	3125	1438	-9.6	-1.2	-631.1	-126.2	14.6	-65.1	-50.9
7TH	99.50	-32.1	-3.2	3125	1438	-10.3	-2.2	-601.2	-124.5	13.0	-57.4	-48.2
8TH	112.00	-34.4	-4.7	3125	1438	-11.0	-3.3	-569.1	-121.3	11.5	-50.1	-45.3
9TH	124.50	-36.1	-5.8	3125	1438	-11.6	-4.1	-534.6	-116.6	10.0	-43.2	-42.3
10TH	137.00	-37.6	-6.8	3125	1438	-12.0	-4.7	-498.5	-110.8	8.6	-36.8	-39.1
11TH	149.50	-39.0	-7.7	3125	1438	-12.5	-5.4	-461.0	-104.0	7.2	-30.8	-35.9
12TH	162.00	-40.3	-8.6	3125	1438	-12.9	-6.0	-422.0	-96.2	6.0	-25.3	-32.5
13TH	174.50	-41.8	-9.0	3125	1438	-13.4	-6.3	-381.7	-87.6	4.8	-20.2	-29.1
14TH	187.00	-43.4	-9.5	3125	1438	-13.9	-6.6	-339.9	-78.6	3.8	-15.7	-25.6
15TH	199.50	-45.0	-9.9	3125	1438	-14.4	-6.9	-296.5	-69.1	2.9	-11.8	-22.1
16TH	212.00	-46.5	-10.2	3125	1438	-14.9	-7.1	-251.4	-59.2	2.1	-8.3	-18.5
17TH	224.50	-47.6	-10.4	3125	1438	-15.2	-7.2	-205.0	-49.0	1.4	-5.5	-14.9
18TH	237.00	-48.8	-10.6	3125	1438	-15.6	-7.4	-157.3	-38.6	.8	-3.2	-11.4
19TH	249.50	-50.5	-10.9	3125	1438	-16.2	-7.6	-108.5	-27.9	.4	-1.5	-7.8
20TH	262.00	-58.0	-17.0	4375	2013	-13.3	-8.5	-58.0	-17.0	.1	-.5	-4.3
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 30 CONFIGURATION B

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-25.5	-11.0	1702	434	-15.0	-25.4	-767.4	-127.6	26.3	-127.6	-73.8
1ST	17.00	-31.4	6.5	4724	2168	-6.6	3.0	-741.8	-116.6	24.2	-114.8	-74.6
2ND	37.00	-19.2	4.1	3125	1438	-6.1	2.9	-710.5	-123.1	21.8	-100.3	-72.0
3RD	49.50	-20.3	2.9	3125	1438	-6.5	2.0	-691.3	-127.3	20.3	-91.5	-70.0
4TH	62.00	-21.3	1.7	3125	1438	-6.8	1.2	-671.0	-130.2	18.6	-83.0	-67.7
5TH	74.50	-22.3	.5	3125	1438	-7.1	.3	-649.7	-131.8	17.0	-74.7	-65.1
6TH	87.00	-25.1	-1.1	3125	1438	-8.0	-.8	-627.4	-132.3	15.4	-66.8	-62.1
7TH	99.50	-28.0	-2.7	3125	1438	-8.9	-1.9	-602.3	-131.2	13.7	-59.1	-59.0
8TH	112.00	-30.8	-4.4	3125	1438	-9.9	-3.0	-574.3	-128.5	12.1	-51.7	-55.6
9TH	124.50	-33.5	-5.7	3125	1438	-10.7	-4.0	-543.5	-124.1	10.5	-44.7	-52.0
10TH	137.00	-36.2	-7.0	3125	1438	-11.6	-4.9	-510.0	-118.4	9.0	-38.1	-48.1
11TH	149.50	-38.8	-8.3	3125	1438	-12.4	-5.8	-473.8	-111.4	7.6	-32.0	-44.1
12TH	162.00	-41.4	-9.5	3125	1438	-13.2	-6.6	-435.0	-103.1	6.2	-26.3	-39.9
13TH	174.50	-42.7	-10.2	3125	1438	-13.7	-7.1	-393.6	-93.7	5.0	-21.1	-35.6
14TH	187.00	-43.9	-10.9	3125	1438	-14.1	-7.6	-351.0	-83.5	3.9	-16.5	-31.1
15TH	199.50	-45.2	-11.6	3125	1438	-14.5	-8.1	-307.0	-72.6	2.9	-12.4	-26.7
16TH	212.00	-46.7	-11.6	3125	1438	-14.9	-8.1	-261.8	-61.0	2.1	-8.8	-22.2
17TH	224.50	-48.5	-11.2	3125	1438	-15.5	-7.8	-215.1	-49.4	1.4	-5.8	-17.7
18TH	237.00	-50.4	-10.9	3125	1438	-16.1	-7.6	-166.6	-38.1	.8	-3.4	-13.4
19TH	249.50	-52.6	-10.6	3125	1438	-16.8	-7.4	-116.2	-27.3	.4	-1.7	-9.2
20TH	262.00	-52.6	-10.6	3125	1438	-16.8	-7.4	-63.5	-16.7	.1	-.6	-5.0
TOP	279.50	-63.5	-16.7	4375	2013	-14.5	-8.3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAM 1
 WIND DIRECTION 40 CONFIGURATION B SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-23.6	-9.9	1702	434	-13.8	-23.0	-645.5	-84.9	16.7	-106.6	-61.7
1ST	17.00	-26.1	5.0	4724	2168	-5.5	2.3	-622.0	-74.9	15.3	-95.8	-62.4
2ND	37.00	-15.8	2.9	3125	1438	-5.1	2.0	-595.9	-79.9	13.8	-83.6	-60.7
3RD	49.50	-16.9	1.9	3125	1438	-5.4	1.3	-580.1	-82.8	12.8	-76.3	-59.2
4TH	62.00	-18.0	.9	3125	1438	-5.8	.6	-563.2	-84.7	11.7	-69.1	-57.4
5TH	74.50	-19.0	-.0	3125	1438	-6.1	-.0	-545.2	-85.7	10.7	-62.2	-55.4
6TH	87.00	-21.6	-1.2	3125	1438	-6.9	-.8	-526.1	-85.6	9.6	-55.5	-53.1
7TH	99.50	-24.2	-2.4	3125	1438	-7.7	-1.7	-504.6	-84.4	8.5	-49.1	-50.6
8TH	112.00	-26.7	-3.6	3125	1438	-8.6	-2.5	-480.4	-82.0	7.5	-42.9	-47.8
9TH	124.50	-28.8	-4.3	3125	1438	-9.2	-3.0	-453.7	-78.4	6.5	-37.1	-44.8
10TH	137.00	-30.5	-4.8	3125	1438	-9.7	-3.3	-424.9	-74.1	5.5	-31.6	-41.5
11TH	149.50	-32.1	-5.3	3125	1438	-10.3	-3.7	-394.5	-69.3	4.6	-26.5	-38.1
12TH	162.00	-33.8	-5.7	3125	1438	-10.8	-4.0	-362.3	-64.0	3.8	-21.7	-34.6
13TH	174.50	-35.5	-6.4	3125	1438	-11.4	-4.4	-328.6	-58.3	3.0	-17.4	-30.9
14TH	187.00	-37.3	-7.0	3125	1438	-11.9	-4.9	-293.1	-52.0	2.3	-13.5	-27.1
15TH	199.50	-39.1	-7.7	3125	1438	-12.5	-5.4	-255.8	-44.9	1.7	-10.1	-23.3
16TH	212.00	-40.3	-7.6	3125	1438	-12.9	-5.3	-216.7	-37.2	1.2	-7.2	-19.3
17TH	224.50	-41.2	-7.2	3125	1438	-13.2	-5.0	-176.4	-29.6	.8	-4.7	-15.4
18TH	237.00	-42.1	-6.7	3125	1438	-13.5	-4.7	-135.2	-22.5	.5	-2.8	-11.5
19TH	249.50	-43.4	-6.3	3125	1438	-13.9	-4.4	-93.1	-15.8	.2	-1.3	-7.8
20TH	262.00	-49.7	-9.5	4375	2013	-11.4	-4.7	-49.7	-9.5	.1	-.4	-4.1
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 50 CONFIGURATION B

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-22.6	-9.1	1702	434	-13.3	-21.0	-547.4	-53.8	12.2	-93.9	-45.7
1ST	17.00	-18.0	6.4	4724	2168	-3.8	3.0	-524.8	-44.7	11.4	-84.8	-46.4
2ND	37.00	-10.7	3.7	3125	1438	-3.4	2.6	-506.8	-51.2	10.4	-74.5	-45.5
3RD	49.50	-11.4	3.0	3125	1438	-3.6	2.1	-496.1	-54.8	9.8	-68.2	-44.5
4TH	62.00	-12.0	2.4	3125	1438	-3.8	1.7	-484.7	-57.9	9.1	-62.1	-43.4
5TH	74.50	-12.6	1.8	3125	1438	-4.0	1.2	-472.7	-60.3	8.3	-56.1	-41.9
6TH	87.00	-15.6	.7	3125	1438	-5.0	.5	-460.1	-62.0	7.6	-50.3	-40.3
7TH	99.50	-18.7	-.4	3125	1438	-6.0	-.3	-444.5	-62.7	6.8	-44.6	-38.4
8TH	112.00	-21.7	-1.6	3125	1438	-7.0	-1.1	-425.8	-62.3	6.0	-39.2	-36.4
9TH	124.50	-24.0	-2.4	3125	1438	-7.7	-1.7	-404.1	-60.7	5.2	-34.0	-34.1
10TH	137.00	-25.5	-3.0	3125	1438	-8.2	-2.1	-380.1	-58.3	4.5	-29.1	-31.7
11TH	149.50	-27.1	-3.7	3125	1438	-8.7	-2.6	-354.6	-55.2	3.8	-24.5	-29.1
12TH	162.00	-28.6	-4.3	3125	1438	-9.2	-3.0	-327.5	-51.6	3.1	-20.2	-26.4
13TH	174.50	-30.3	-4.9	3125	1438	-9.7	-3.4	-298.9	-47.3	2.5	-16.3	-23.6
14TH	187.00	-31.9	-5.6	3125	1438	-10.2	-3.9	-268.6	-42.3	1.9	-12.8	-20.6
15TH	199.50	-33.6	-6.2	3125	1438	-10.8	-4.3	-236.7	-36.7	1.4	-9.6	-17.6
16TH	212.00	-35.4	-6.1	3125	1438	-11.3	-4.3	-203.0	-30.5	1.0	-6.9	-14.5
17TH	224.50	-37.3	-5.8	3125	1438	-11.9	-4.0	-167.6	-24.4	.7	-4.6	-11.4
18TH	237.00	-39.3	-5.4	3125	1438	-12.6	-3.8	-130.3	-18.6	.4	-2.7	-8.4
19TH	249.50	-41.4	-5.2	3125	1438	-13.2	-3.6	-91.1	-13.2	.2	-1.3	-5.6
20TH	262.00	-49.7	-8.0	4375	2013	-11.4	-4.0	-49.7	-8.0	.1	-.4	-2.9
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : WIND DIRECTION 60												
SUM GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32												
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-21.9	-7.5	1702	434	-12.9	-17.3	-346.3	26.2	-2.8	-56.8	-23.8
1ST	17.00	-14.5	7.4	4724	2168	-3.1	3.4	-324.4	33.7	-2.3	-51.1	-24.3
2ND	37.00	-8.2	4.1	3125	1438	-2.6	2.8	-309.9	26.3	-1.7	-44.8	-24.3
3RD	49.50	-8.3	3.8	3125	1438	-2.7	2.7	-301.6	22.2	-1.4	-41.0	-24.1
4TH	62.00	-8.4	3.6	3125	1438	-2.7	2.5	-293.3	18.4	-1.1	-37.3	-23.7
5TH	74.50	-8.5	3.4	3125	1438	-2.7	2.3	-284.9	14.8	-.9	-33.6	-23.2
6TH	87.00	-9.7	2.8	3125	1438	-3.1	2.0	-276.4	11.4	-.8	-30.1	-22.5
7TH	99.50	-10.9	2.3	3125	1438	-3.5	1.6	-266.7	8.6	-.6	-26.7	-21.6
8TH	112.00	-12.2	1.7	3125	1438	-3.9	1.2	-255.7	6.3	-.6	-23.5	-20.6
9TH	124.50	-13.6	1.2	3125	1438	-4.3	.8	-243.6	4.6	-.5	-20.3	-19.4
10TH	137.00	-15.1	.6	3125	1438	-4.8	.4	-230.0	3.4	-.4	-17.4	-18.1
11TH	149.50	-16.6	.1	3125	1438	-5.3	.1	-214.9	2.8	-.4	-14.6	-16.6
12TH	162.00	-18.1	-.4	3125	1438	-5.8	-.3	-198.3	2.7	-.4	-12.0	-15.0
13TH	174.50	-19.0	-.4	3125	1438	-6.1	-.3	-180.2	3.1	-.3	-9.7	-13.3
14TH	187.00	-19.9	-.4	3125	1438	-6.4	-.3	-161.3	3.5	-.3	-7.5	-11.5
15TH	199.50	-20.9	-.4	3125	1438	-6.7	-.3	-141.3	3.8	-.2	-5.6	-9.8
16TH	212.00	-21.8	-.1	3125	1438	-7.0	-.0	-120.5	4.2	-.2	-4.0	-7.9
17TH	224.50	-22.8	.4	3125	1438	-7.3	.3	-98.7	4.3	-.1	-2.6	-6.2
18TH	237.00	-23.8	.9	3125	1438	-7.6	.6	-75.9	3.8	-.1	-1.5	-4.5
19TH	249.50	-24.9	1.3	3125	1438	-8.0	.9	-52.1	2.9	-.0	-.7	-2.9
20TH	262.00	-27.3	1.7	4375	2013	-6.2	.8	-27.3	1.7	-.0	-.2	-1.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 70

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
CONFIGURATION B
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-18.5	-5.4	1702	434	-10.9	-12.4	-47.6	121.0	-18.8	-9.4	-1.3
1ST	17.00	1.6	11.0	4724	2160	.3	5.1	-29.1	126.3	-16.7	-8.8	-1.8
2ND	37.00	2.3	6.5	3125	1438	.7	4.5	-30.7	115.3	-14.3	-8.2	-2.6
3RD	49.50	2.6	6.5	3125	1438	.8	4.5	-33.0	108.9	-12.9	-7.8	-3.1
4TH	62.00	2.8	6.5	3125	1438	.9	4.5	-35.6	102.4	-11.6	-7.3	-3.4
5TH	74.50	3.0	6.5	3125	1438	1.0	4.5	-38.4	95.9	-10.3	-6.9	-3.7
6TH	87.00	2.4	6.2	3125	1438	.8	4.3	-41.5	89.4	-9.2	-6.4	-3.9
7TH	99.50	1.7	5.9	3125	1438	.6	4.1	-43.9	83.3	-8.1	-5.8	-4.1
8TH	112.00	1.1	5.6	3125	1438	.3	3.9	-45.6	77.4	-7.1	-5.3	-4.1
9TH	124.50	.3	5.3	3125	1438	.1	3.7	-46.6	71.8	-6.2	-4.7	-4.2
10TH	137.00	-.7	5.0	3125	1438	-.2	3.5	-46.9	66.5	-5.3	-4.1	-4.1
11TH	149.50	-1.6	4.7	3125	1438	-.5	3.3	-46.2	61.5	-4.5	-3.5	-3.9
12TH	162.00	-2.5	4.5	3125	1438	-.8	3.1	-44.6	56.8	-3.8	-3.0	-3.6
13TH	174.50	-3.1	4.6	3125	1438	-1.0	3.2	-42.1	52.4	-3.1	-2.4	-3.2
14TH	187.00	-3.7	4.8	3125	1438	-1.2	3.3	-39.0	47.7	-2.4	-1.9	-2.8
15TH	199.50	-4.3	4.9	3125	1438	-1.4	3.4	-35.3	43.0	-1.9	-1.4	-2.3
16TH	212.00	-5.0	5.5	3125	1438	-1.6	3.8	-31.0	38.1	-1.4	-1.0	-1.8
17TH	224.50	-5.8	6.4	3125	1438	-1.9	4.5	-26.0	32.6	-.9	-.7	-1.3
18TH	237.00	-6.6	7.4	3125	1438	-2.1	5.1	-20.2	26.2	-.6	-.4	-.9
19TH	249.50	-7.5	8.0	3125	1438	-2.4	5.6	-13.6	18.8	-.3	-.2	-.5
20TH	262.00	-6.1	10.8	4375	2013	-1.4	5.3	-6.1	10.8	-.1	-.1	-.2
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ; SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 WIND DIRECTION 80 CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							228.2	205.2	-34.5	36.7	18.8
1ST	17.00	-13.8	-3.0	1702	434	-8.1	-7.0	242.0	208.2	-31.0	32.7	18.5
2ND	37.00	14.5	12.7	4724	2168	3.1	5.9	227.5	195.5	-26.9	28.0	17.0
3RD	49.50	11.5	7.9	3125	1438	3.7	5.5	216.0	187.6	-24.5	25.2	16.0
4TH	62.00	11.9	8.1	3125	1438	3.8	5.6	204.1	179.5	-22.2	22.6	15.0
5TH	74.50	12.4	8.3	3125	1438	4.0	5.8	191.7	171.2	-20.0	20.1	14.0
6TH	87.00	12.8	8.5	3125	1438	4.1	5.9	178.9	162.7	-18.0	17.8	12.9
7TH	99.50	12.2	8.3	3125	1438	3.9	5.8	166.7	154.4	-16.0	15.6	11.9
8TH	112.00	11.7	8.1	3125	1438	3.7	5.6	155.0	146.3	-14.1	13.6	11.0
9TH	124.50	11.1	7.9	3125	1438	3.6	5.5	143.9	138.3	-12.3	11.7	10.0
10TH	137.00	10.9	7.9	3125	1438	3.5	5.5	133.0	130.4	-10.6	10.0	9.1
11TH	149.50	10.9	8.1	3125	1438	3.5	5.6	122.1	122.3	-9.1	8.4	8.2
12TH	162.00	11.0	8.3	3125	1438	3.5	5.8	111.1	114.1	-7.6	7.0	7.3
13TH	174.50	11.1	8.5	3125	1438	3.5	5.9	100.0	105.6	-6.2	5.6	6.4
14TH	187.00	10.8	9.1	3125	1438	3.4	6.3	89.2	96.5	-4.9	4.5	5.6
15TH	199.50	10.5	9.7	3125	1438	3.4	6.7	78.7	86.9	-3.8	3.4	4.7
16TH	212.00	10.2	10.3	3125	1438	3.3	7.1	68.6	76.6	-2.8	2.5	4.0
17TH	224.50	10.6	11.3	3125	1438	3.4	7.9	58.0	65.2	-1.9	1.7	3.2
18TH	237.00	11.4	12.8	3125	1438	3.6	8.9	46.6	52.5	-1.2	1.0	2.4
19TH	249.50	12.2	14.2	3125	1438	3.9	9.9	34.3	38.3	-.6	.5	1.6
20TH	262.00	12.9	15.3	3125	1438	4.1	10.6	21.5	23.0	-.2	.2	.8
TOP	279.50	21.5	23.0	4375	2013	4.9	11.4	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 90

CONFIGURATION B

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-7.8	.2	1702	434	-4.6	.5	419.2	226.3	-41.5	69.9	24.4
1ST	17.00	23.9	11.1	4724	2168	5.1	5.1	427.0	226.1	-37.7	62.8	24.2
2ND	37.00	17.4	7.0	3125	1438	5.6	4.9	403.1	215.0	-33.3	54.5	22.8
3RD	49.50	17.2	6.7	3125	1438	5.5	4.7	385.7	208.0	-30.6	49.5	21.8
4TH	62.00	16.9	6.3	3125	1438	5.4	4.4	368.6	201.3	-28.1	44.8	20.9
5TH	74.50	16.8	6.1	3125	1438	5.4	4.2	351.6	195.0	-25.6	40.3	19.9
6TH	87.00	16.8	6.1	3125	1438	5.4	4.2	334.8	188.9	-23.2	36.0	18.9
7TH	99.50	16.9	6.1	3125	1438	5.4	4.2	318.0	182.8	-20.9	31.9	17.9
8TH	112.00	17.0	6.1	3125	1438	5.4	4.2	301.1	176.8	-18.6	28.1	16.9
9TH	124.50	17.3	6.4	3125	1438	5.5	4.4	284.1	170.7	-16.5	24.4	15.8
10TH	137.00	18.0	6.9	3125	1438	5.8	4.8	266.8	164.3	-14.4	21.0	14.7
11TH	149.50	18.7	7.4	3125	1438	6.0	5.1	248.8	157.4	-12.4	17.7	13.6
12TH	162.00	19.5	8.0	3125	1438	6.2	5.6	230.1	150.0	-10.4	14.8	12.4
13TH	174.50	20.4	9.7	3125	1438	6.5	6.8	210.6	141.9	-8.6	12.0	11.1
14TH	187.00	21.2	11.4	3125	1438	6.8	8.0	190.3	132.2	-6.9	9.5	9.9
15TH	199.50	22.1	13.1	3125	1438	7.1	9.1	169.1	120.8	-5.3	7.2	8.5
16TH	212.00	23.3	15.4	3125	1438	7.5	10.7	147.0	107.6	-3.9	5.3	7.2
17TH	224.50	24.9	18.0	3125	1438	8.0	12.5	123.6	92.3	-2.6	3.6	5.8
18TH	237.00	26.4	20.6	3125	1438	8.5	14.3	98.7	74.3	-1.6	2.2	4.4
19TH	249.50	27.9	22.8	3125	1438	8.9	15.9	72.3	53.7	-.8	1.1	3.0
20TH	262.00	44.4	30.8	4375	2013	10.2	15.3	44.4	30.8	-.3	.4	1.6
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1 WIND DIRECTION 100												
SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32												
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	-2.8	2.7	1702	434	-1.6	6.2	624.3	271.0	-49.4	103.4	23.9
1ST	17.00	33.4	12.5	4724	2168	7.1	5.8	627.1	268.3	-44.8	92.8	24.0
2ND	37.00	24.0	7.4	3125	1438	7.7	5.1	593.7	255.8	-39.6	80.6	23.0
3RD	49.50	24.1	7.3	3125	1438	7.7	5.1	569.7	248.4	-36.4	73.3	22.4
4TH	62.00	24.1	7.2	3125	1438	7.7	5.0	545.6	241.1	-33.4	66.3	21.6
5TH	74.50	24.3	7.2	3125	1438	7.8	5.0	521.5	233.8	-30.4	59.6	20.9
6TH	87.00	24.5	7.3	3125	1438	7.9	5.0	497.2	226.7	-27.5	53.3	20.0
7TH	99.50	24.7	7.3	3125	1438	7.9	5.1	472.7	219.4	-24.7	47.2	19.2
8TH	112.00	24.9	7.4	3125	1438	8.0	5.1	447.9	212.1	-22.0	41.5	18.3
9TH	124.50	25.6	7.8	3125	1438	8.2	5.5	423.0	204.7	-19.4	36.0	17.4
10TH	137.00	26.8	8.6	3125	1438	8.6	6.0	397.4	196.8	-16.9	30.9	16.5
11TH	149.50	28.0	9.3	3125	1438	8.9	6.5	370.6	188.3	-14.5	26.1	15.4
12TH	162.00	29.1	10.1	3125	1438	9.3	7.0	342.7	179.0	-12.2	21.6	14.3
13TH	174.50	30.7	12.2	3125	1438	9.8	8.5	313.6	168.9	-10.1	17.5	13.0
14TH	187.00	32.2	14.2	3125	1438	10.3	9.9	282.9	156.7	-8.0	13.8	11.7
15TH	199.50	33.7	16.2	3125	1438	10.8	11.3	250.7	142.5	-6.1	10.5	10.4
16TH	212.00	35.9	18.9	3125	1438	11.5	13.1	216.9	126.3	-4.5	7.5	8.9
17TH	224.50	38.5	21.8	3125	1438	12.3	15.2	181.1	107.4	-3.0	5.1	7.4
18TH	237.00	41.1	24.7	3125	1438	13.2	17.2	142.5	85.6	-1.8	3.0	5.8
19TH	249.50	43.3	27.1	3125	1438	13.9	18.8	101.4	60.9	-.9	1.5	4.1
20TH	262.00	58.1	33.8	4375	2613	13.3	16.8	58.1	33.8	-.3	.5	2.4
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 WIND DIRECTION 110 CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	2.6	4.7	1702	434	1.5	10.8	885.0	382.1	-65.5	136.2	21.5
1ST	17.00	54.3	16.0	4724	2168	11.5	7.4	882.4	377.4	-59.0	121.2	21.8
2ND	37.00	38.3	10.2	3125	1438	12.2	7.1	828.1	361.4	-51.6	104.1	21.0
3RD	49.50	38.3	10.9	3125	1438	12.3	7.6	789.8	351.2	-47.2	94.0	20.3
4TH	62.00	38.4	11.5	3125	1438	12.3	8.0	751.5	340.3	-42.8	84.4	19.6
5TH	74.50	38.6	12.2	3125	1438	12.4	8.5	713.1	328.8	-38.7	75.2	18.8
6TH	87.00	39.4	12.9	3125	1438	12.6	9.0	674.5	316.6	-34.6	66.5	17.9
7TH	99.50	40.3	13.7	3125	1438	12.9	9.5	635.0	303.7	-30.8	58.4	17.1
8TH	112.00	41.1	14.4	3125	1438	13.1	10.0	594.8	290.0	-27.0	50.7	16.2
9TH	124.50	41.7	15.3	3125	1438	13.4	10.7	553.7	275.6	-23.5	43.5	15.3
10TH	137.00	42.3	16.3	3125	1438	13.5	11.3	512.0	260.3	-20.2	36.8	14.3
11TH	149.50	42.8	17.3	3125	1438	13.7	12.0	469.7	244.0	-17.0	30.7	13.3
12TH	162.00	43.3	18.3	3125	1438	13.9	12.8	426.9	226.7	-14.1	25.1	12.3
13TH	174.50	44.3	20.3	3125	1438	14.2	14.1	383.6	208.4	-11.3	20.0	11.2
14TH	187.00	45.3	22.2	3125	1438	14.5	15.5	339.3	188.1	-8.9	15.5	10.0
15TH	199.50	46.2	24.2	3125	1438	14.8	16.8	294.0	165.9	-6.7	11.6	8.8
16TH	212.00	46.9	25.6	3125	1438	15.0	17.8	247.8	141.7	-4.7	8.2	7.6
17TH	224.50	47.4	26.7	3125	1438	15.2	18.5	200.9	116.1	-3.1	5.4	6.3
18TH	237.00	47.9	27.7	3125	1438	15.3	19.3	153.5	89.5	-1.8	3.1	4.9
19TH	249.50	47.6	28.2	3125	1438	15.2	19.6	105.6	61.8	-.9	1.5	3.4
20TH	262.00	58.0	33.6	4375	2013	13.3	16.7	58.0	33.6	-.3	.5	1.9
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 120

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	8.2	8.2	1702	434	4.8	19.0	1057.1	438.3	-70.4	159.7	14.8
1ST	17.00	69.5	23.3	4724	2168	14.7	10.7	1048.8	430.1	-63.0	141.8	15.3
2ND	37.00	47.3	14.4	3125	1438	15.1	10.0	979.4	406.8	-54.7	121.5	14.7
3RD	49.50	47.0	14.8	3125	1438	15.0	10.3	932.1	392.4	-49.7	109.5	14.3
4TH	62.00	46.7	15.3	3125	1438	14.9	10.6	885.1	377.6	-44.9	98.2	13.8
5TH	74.50	46.7	15.8	3125	1438	14.9	11.0	838.4	362.3	-40.2	87.4	13.3
6TH	87.00	47.2	16.6	3125	1438	15.1	11.6	791.8	346.5	-35.8	77.2	12.7
7TH	99.50	47.6	17.5	3125	1438	15.2	12.2	744.6	329.9	-31.6	67.6	12.1
8TH	112.00	48.1	18.3	3125	1438	15.4	12.7	697.0	312.4	-27.6	58.6	11.4
9TH	124.50	48.9	19.2	3125	1438	15.7	13.4	648.9	294.1	-23.8	50.2	10.7
10TH	137.00	50.2	20.3	3125	1438	16.1	14.1	600.0	274.9	-20.2	42.4	10.0
11TH	149.50	51.6	21.4	3125	1438	16.5	14.9	549.7	254.6	-16.9	35.2	9.3
12TH	162.00	52.9	22.5	3125	1438	16.9	15.6	498.2	233.2	-13.9	28.6	8.5
13TH	174.50	53.8	23.4	3125	1438	17.2	16.3	445.3	210.8	-11.1	22.7	7.8
14TH	187.00	54.7	24.4	3125	1438	17.5	16.9	391.5	187.3	-8.6	17.5	7.0
15TH	199.50	55.6	25.3	3125	1438	17.8	17.6	336.9	163.0	-6.4	13.0	6.1
16TH	212.00	55.7	26.0	3125	1438	17.8	18.1	281.3	137.7	-4.5	9.1	5.2
17TH	224.50	55.2	26.5	3125	1438	17.7	18.4	225.6	111.7	-3.0	5.9	4.3
18TH	237.00	54.7	26.9	3125	1438	17.5	18.7	170.5	85.3	-1.7	3.5	3.3
19TH	249.50	53.1	26.8	3125	1438	17.0	18.7	115.8	58.3	-.8	1.7	2.3
20TH	262.00	62.7	31.5	4375	2013	14.3	15.7	62.7	31.5	-.3	.5	1.3
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 130

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00							1188.8	390.1	-61.4	178.9	8.7
1ST	17.00	16.2	8.1	1702	434	9.5	18.8	1172.6	382.0	-54.8	158.8	9.5
2ND	37.00	78.3	22.9	4724	2168	16.6	10.6	1094.3	359.1	-47.4	136.1	9.3
3RD	49.50	52.2	14.0	3125	1438	16.7	9.7	1042.0	345.1	-43.0	122.8	9.1
4TH	62.00	51.6	14.0	3125	1438	16.5	9.7	990.5	331.1	-38.8	110.1	8.9
5TH	74.50	50.9	13.9	3125	1438	16.3	9.7	939.6	317.1	-34.7	98.0	8.6
6TH	87.00	50.5	14.0	3125	1438	16.2	9.8	889.1	303.1	-30.8	86.6	8.2
7TH	99.50	51.8	14.9	3125	1438	16.6	10.4	837.3	288.2	-27.1	75.8	7.8
8TH	112.00	53.1	15.8	3125	1438	17.0	11.0	784.2	272.4	-23.6	65.7	7.4
9TH	124.50	54.4	16.7	3125	1438	17.4	11.6	729.8	255.7	-20.3	56.2	7.0
10TH	137.00	55.7	17.5	3125	1438	17.8	12.2	674.2	238.2	-17.2	47.4	6.5
11TH	149.50	57.1	18.4	3125	1438	18.3	12.8	617.1	219.7	-14.4	39.4	6.0
12TH	162.00	58.5	19.3	3125	1438	18.7	13.5	558.7	200.4	-11.8	32.0	5.5
13TH	174.50	59.8	20.2	3125	1438	19.1	14.1	498.8	180.2	-9.4	25.4	4.9
14TH	187.00	60.6	20.7	3125	1438	19.4	14.4	438.3	159.4	-7.3	19.5	4.4
15TH	199.50	61.3	21.3	3125	1438	19.6	14.8	377.0	138.1	-5.4	14.5	3.9
16TH	212.00	62.1	21.8	3125	1438	19.9	15.2	314.9	116.3	-3.8	10.1	3.3
17TH	224.50	62.3	22.2	3125	1438	19.9	15.5	252.6	94.1	-2.5	6.6	2.7
18TH	237.00	62.2	22.5	3125	1438	19.9	15.6	190.4	71.6	-1.5	3.8	2.1
19TH	249.50	62.1	22.7	3125	1438	19.9	15.8	128.4	48.9	-.7	1.8	1.5
20TH	262.00	60.6	22.5	3125	1438	19.4	15.6	67.8	26.4	-.2	.6	.8
TOP	279.50	67.8	26.4	4375	2013	15.5	13.1	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 WIND DIRECTION 140 CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	25.7	6.9	1702	434	15.1	15.9	1287.1	318.2	-49.9	194.8	.8
1ST	17.00	82.4	19.7	4724	2168	17.4	9.1	1261.4	311.3	-44.5	173.2	1.9
2ND	37.00	53.3	12.2	3125	1438	17.1	8.5	1179.0	291.6	-38.5	148.8	2.2
3RD	49.50	52.7	11.8	3125	1438	16.9	8.2	1125.8	279.4	-34.9	134.4	2.3
4TH	62.00	52.1	11.5	3125	1438	16.7	8.0	1073.1	267.6	-31.5	120.6	2.4
5TH	74.50	51.9	11.3	3125	1438	16.6	7.8	1021.0	256.1	-28.2	107.5	2.3
6TH	87.00	54.1	11.9	3125	1438	17.3	8.3	969.1	244.8	-25.1	95.1	2.3
7TH	99.50	56.4	12.6	3125	1438	18.0	8.7	915.0	232.9	-22.1	83.3	2.2
8TH	112.00	58.6	13.2	3125	1438	18.8	9.2	858.6	220.4	-19.3	72.2	2.1
9TH	124.50	60.3	13.9	3125	1438	19.3	9.7	800.0	207.1	-16.6	61.9	1.9
10TH	137.00	61.7	14.5	3125	1438	19.7	10.1	739.7	193.2	-14.1	52.2	1.8
11TH	149.50	63.0	15.2	3125	1438	20.2	10.6	678.1	178.7	-11.8	43.4	1.7
12TH	162.00	64.4	15.9	3125	1438	20.6	11.1	615.1	163.5	-9.6	35.3	1.6
13TH	174.50	66.0	16.6	3125	1438	21.1	11.5	550.6	147.6	-7.7	28.0	1.5
14TH	187.00	67.6	17.3	3125	1438	21.6	12.0	484.6	131.0	-6.0	21.5	1.3
15TH	199.50	69.3	18.0	3125	1438	22.2	12.5	417.0	113.7	-4.4	15.9	1.2
16TH	212.00	69.6	18.4	3125	1438	22.3	12.8	347.7	95.7	-3.1	11.1	1.0
17TH	224.50	69.1	18.6	3125	1438	22.1	13.0	278.1	77.4	-2.0	7.2	.8
18TH	237.00	68.7	18.9	3125	1438	22.0	13.1	209.0	58.7	-1.2	4.2	.6
19TH	249.50	66.6	18.6	3125	1438	21.3	13.0	140.3	39.9	-.6	2.0	.4
20TH	262.00	73.6	21.2	4375	2013	16.8	10.5	73.6	21.2	-.2	.6	.2
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	28.1	6.2	1702	434	16.5	14.2	1219.5	233.6	-35.3	185.6	-7.0
1ST	17.00	77.4	17.2	4724	2168	16.4	7.9	1191.3	227.5	-31.3	165.1	-5.9
2ND	37.00	50.2	10.3	3125	1438	16.1	7.2	1113.9	210.3	-27.0	142.0	-5.3
3RD	49.50	49.4	9.8	3125	1438	15.8	6.8	1063.7	200.0	-24.4	128.4	-5.0
4TH	62.00	48.5	9.3	3125	1438	15.5	6.5	1014.3	190.2	-22.0	115.4	-4.7
5TH	74.50	47.9	8.9	3125	1438	15.3	6.2	965.8	180.9	-19.6	103.0	-4.5
6TH	87.00	49.7	9.1	3125	1438	15.9	6.3	917.9	172.0	-17.4	91.3	-4.3
7TH	99.50	51.5	9.4	3125	1438	16.5	6.5	868.2	162.8	-15.3	80.1	-4.1
8TH	112.00	53.3	9.6	3125	1438	17.1	6.7	816.6	153.5	-13.4	69.6	-4.0
9TH	124.50	55.2	9.9	3125	1438	17.7	6.9	763.3	143.9	-11.5	59.7	-3.8
10TH	137.00	57.2	10.4	3125	1438	18.3	7.2	708.1	134.0	-9.8	50.5	-3.7
11TH	149.50	59.2	10.8	3125	1438	18.9	7.5	650.9	123.6	-8.2	42.0	-3.4
12TH	162.00	61.1	11.2	3125	1438	19.5	7.8	591.7	112.8	-6.7	34.3	-3.2
13TH	174.50	62.7	11.5	3125	1438	20.0	8.0	530.6	101.6	-5.3	27.2	-2.9
14TH	187.00	64.3	11.9	3125	1438	20.6	8.2	468.0	90.0	-4.1	21.0	-2.6
15TH	199.50	65.9	12.2	3125	1438	21.1	8.5	403.7	78.2	-3.1	15.5	-2.3
16TH	212.00	66.5	12.4	3125	1438	21.3	8.6	337.9	66.0	-2.2	10.9	-2.0
17TH	224.50	66.4	12.6	3125	1438	21.2	8.7	271.4	53.7	-1.4	7.1	-1.6
18TH	237.00	66.3	12.7	3125	1438	21.2	8.9	205.0	41.1	-.8	4.1	-1.3
19TH	249.50	64.7	12.6	3125	1438	20.7	8.8	138.7	28.4	-.4	2.0	-.9
20TH	262.00	74.0	15.8	4375	2013	16.9	7.8	74.0	15.8	-.1	.6	-.5
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : WIND DIRECTION 160												
SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE CONFIGURATION B REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32												
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
GRND	0.00	29.7	3.7	1702	434	17.5	8.6	1104.7	158.9	-23.8	168.8	-13.8
1ST	17.00	68.3	12.6	4724	2168	14.5	5.8	1075.0	155.1	-21.2	150.3	-12.7
2ND	37.00	43.7	8.2	3125	1438	14.0	5.7	1006.7	142.5	-18.2	129.5	-11.8
3RD	49.50	42.9	7.1	3125	1438	13.7	5.0	962.9	134.3	-16.5	117.2	-11.2
4TH	62.00	42.1	6.1	3125	1438	13.5	4.2	920.0	127.2	-14.8	105.4	-10.7
5TH	74.50	41.7	5.2	3125	1438	13.3	3.6	878.0	121.1	-13.3	94.2	-10.1
6TH	87.00	44.2	5.8	3125	1438	14.2	4.1	836.3	115.9	-11.8	83.4	-9.6
7TH	99.50	46.8	6.5	3125	1438	15.0	4.5	792.1	110.1	-10.4	73.3	-9.1
8TH	112.00	49.3	7.1	3125	1438	15.8	4.9	745.3	103.6	-9.1	63.7	-8.5
9TH	124.50	51.0	7.3	3125	1438	16.3	5.1	696.0	96.5	-7.8	54.7	-8.1
10TH	137.00	52.2	7.1	3125	1438	16.7	5.0	644.9	89.2	-6.6	46.3	-7.6
11TH	149.50	53.4	7.0	3125	1438	17.1	4.9	592.7	82.1	-5.6	38.5	-7.0
12TH	162.00	54.7	6.9	3125	1438	17.5	4.8	539.3	75.1	-4.6	31.5	-6.5
13TH	174.50	56.2	7.2	3125	1438	18.0	5.0	484.6	68.2	-3.7	25.1	-5.9
14TH	187.00	57.7	7.4	3125	1438	18.5	5.2	428.4	61.0	-2.9	19.4	-5.3
15TH	199.50	59.3	7.7	3125	1438	19.0	5.4	370.7	53.5	-2.2	14.4	-4.7
16TH	212.00	60.2	8.1	3125	1438	19.3	5.6	311.4	45.8	-1.6	10.1	-4.0
17TH	224.50	60.8	8.4	3125	1438	19.5	5.9	251.1	37.8	-1.0	6.6	-3.3
18TH	237.00	61.4	8.8	3125	1438	19.6	6.1	190.3	29.3	-.6	3.8	-2.5
19TH	249.50	60.5	9.0	3125	1438	19.3	6.3	128.9	20.5	-.3	1.8	-1.7
20TH	262.00	68.5	11.5	4375	2013	15.6	5.7	68.5	11.5	-.1	.6	-.9
TOP	279.50							0.0	0.0	0.0	0.0	0.0

TABLE 7. SUN GAS BUILDING, DALLAS
 PROJECT 7790 CONFIGURATION A
 SCALE = 250 REF PRESSURE = 23.0
 GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.50
 NUMBER OF SIDES = 4 NO. OF FLOORS = 21

SIDE	ANGLE	Z-AXIS
1	0.0	6.000
2	90.0	2.760
3	180.0	6.000
4	270.0	2.760

FLOOR #	LABEL	HEIGHT-FT
1	GRND	17.00
2	1ST	20.00
3	2ND	12.50
4	3RD	12.50
5	4TH	12.50
6	5TH	12.50
7	6TH	12.50
8	7TH	12.50
9	8TH	12.50
10	9TH	12.50
11	10TH	12.50
12	11TH	12.50
13	12TH	12.50
14	13TH	12.50
15	14TH	12.50
16	15TH	12.50
17	16TH	12.50
18	17TH	12.50
19	18TH	12.50
20	19TH	12.50
21	20TH	17.50

TABLE 7. SUN GAS BUILDING, DALLAS -- WITH ADJACENT BUILDING IN PLACE
 PROJECT 7790 CONFIGURATION B
 SCALE = 250 REF. PRESSURE = 23.0
 GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.50
 NUMBER OF SIDES = 4 NO. OF FLOORS = 21

SIDE	ANGLE	Z-AXIS
1	0.0	6.000
2	90.0	2.760
3	180.0	6.000
4	270.0	2.760

FLOOR #	LABEL	HEIGHT-FT
1	GRND	17.00
2	1ST	20.00
3	2ND	12.50
4	3RD	12.50
5	4TH	12.50
6	5TH	12.50
7	6TH	12.50
8	7TH	12.50
9	8TH	12.50
10	9TH	12.50
11	10TH	12.50
12	11TH	12.50
13	12TH	12.50
14	13TH	12.50
15	14TH	12.50
16	15TH	12.50
17	16TH	12.50
18	17TH	12.50
19	18TH	12.50
20	19TH	12.50
21	20TH	17.50

APPENDIX A
PRESSURE DATA

Note: Pressure coefficients are defined in Section 4.3.
Pressure tap designation is explained in Figure 3.

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	801	.326	.120	.796	.044	0	1020	.426	.142	.867	.022	0	1070	.408	.143	.051	.907
0	802	.354	.118	.795	.069	0	1021	.393	.143	.915	.019	0	1071	.606	.172	.229	1.170
0	803	.355	.128	.926	.067	0	1022	.346	.123	.796	.068	0	1072	.640	.158	.298	1.201
0	804	.324	.094	.084	.987	0	1023	.188	.128	.675	.323	0	1073	.360	.133	.180	1.140
0	805	.284	.047	.136	.476	0	1024	.058	.114	.421	.449	0	1074	.294	.064	.068	.626
0	806	.244	.052	.087	.521	0	1025	.311	.119	.094	.760	0	1075	.253	.056	.031	.327
0	807	.242	.048	.113	.438	0	1026	.545	.110	.234	.862	0	1076	.108	.094	.292	.480
0	901	.487	.135	.195	1.111	0	1027	.628	.123	.262	.998	0	1077	.122	.114	.687	.210
0	902	.442	.098	.148	.812	0	1028	.498	.119	.100	.895	0	1078	.238	.110	.710	.063
0	903	.500	.104	.215	1.034	0	1029	.266	.082	.060	.640	0	1079	.293	.114	.733	.039
0	905	.289	.159	.157	.084	0	1030	.245	.065	.031	.538	0	1080	.290	.103	.716	.013
0	906	.203	.146	.364	.793	0	1031	.033	.102	.520	.386	0	1081	.232	.102	.646	.085
0	907	.385	.158	.206	1.133	0	1032	.292	.125	.869	.085	0	1082	.152	.094	.535	.161
0	908	.419	.174	.226	1.267	0	1033	.423	.147	.949	.043	0	1083	.025	.121	.416	.547
0	909	.319	.155	.127	1.197	0	1034	.461	.130	.858	.062	0	1084	.223	.143	.224	.778
0	910	.519	.150	.163	1.455	0	1035	.450	.143	.984	.022	0	1085	.421	.153	.021	1.000
0	911	.543	.120	.240	1.244	0	1036	.420	.137	.973	.016	0	1086	.583	.156	.187	1.157
0	912	.535	.120	.201	1.225	0	1037	.318	.129	.795	.014	0	1087	.613	.149	.271	1.269
0	913	.482	.160	.037	1.114	0	1038	.145	.119	.550	.219	0	1088	.467	.126	.201	1.152
0	914	.422	.127	.165	1.016	0	1039	.124	.137	.326	.657	0	1089	.259	.053	.094	.519
0	915	.529	.117	.178	1.377	0	1040	.367	.141	.067	.897	0	1090	.242	.042	.122	.414
0	916	.540	.163	.029	1.300	0	1041	.646	.159	.254	.135	0	1091	.164	.091	.255	.673
0	917	.483	.147	.041	1.177	0	1042	.711	.129	.397	.158	0	1092	.088	.089	.507	.208
0	918	.503	.141	.189	1.189	0	1043	.594	.138	.252	.061	0	1093	.250	.099	.673	.016
0	919	.234	.130	.399	.759	0	1044	.301	.088	.024	.877	0	1094	.333	.105	.790	.077
0	921	.276	.072	.090	.777	0	1045	.243	.065	.040	.574	0	1095	.336	.113	.841	.080
0	922	.251	.047	.127	.497	0	1046	.010	.088	.331	.392	0	1096	.280	.104	.763	.053
0	923	.302	.053	.175	.581	0	1047	.219	.128	.710	.224	0	1097	.183	.092	.612	.101
0	924	.315	.067	.154	.695	0	1048	.354	.140	.844	.052	0	1098	.007	.096	.456	.358
0	925	.252	.049	.126	.529	0	1049	.403	.138	.843	.092	0	1099	.185	.122	.191	.680
0	926	.250	.047	.132	.483	0	1050	.393	.124	.828	.110	0	1100	.328	.135	.022	.956
0	1001	.047	.122	.484	.300	0	1051	.356	.132	.842	.062	0	1101	.447	.127	.073	1.086
0	1002	.135	.113	.497	.232	0	1052	.300	.125	.781	.024	0	1102	.487	.112	.246	1.005
0	1003	.115	.126	.579	.333	0	1053	.124	.132	.746	.298	0	1103	.363	.088	.143	.843
0	1004	.116	.117	.560	.229	0	1054	.151	.129	.261	.618	0	1104	.229	.049	.081	.415
0	1005	.097	.111	.513	.222	0	1055	.418	.156	.027	.018	0	1105	.217	.043	.037	.380
0	1006	.057	.095	.339	.160	0	1056	.619	.160	.224	.181	0	1106	.181	.077	.077	.612
0	1007	.037	.112	.465	.333	0	1057	.630	.151	.259	.179	0	1107	.083	.094	.515	1.555
0	1008	.040	.108	.383	.399	0	1058	.545	.121	.298	.043	0	1108	.278	.121	.820	.001
0	1009	.158	.102	.231	.638	0	1059	.287	.074	.100	.692	0	1109	.375	.136	.933	.027
0	1010	.313	.081	.012	.631	0	1060	.229	.054	.052	.503	0	1110	.370	.115	.832	.098
0	1011	.448	.100	.173	.796	0	1061	.060	.105	.403	.442	0	1111	.360	.120	.891	.082
0	1012	.488	.123	.080	.064	0	1062	.162	.110	.575	.154	0	1112	.378	.125	.918	.103
0	1013	.436	.156	.031	.846	0	1063	.373	.131	.710	.064	0	1113	.238	.132	.714	.410
0	1014	.299	.110	.003	.822	0	1064	.278	.127	.758	.019	0	1114	.223	.097	.600	.096
0	1015	.260	.099	.045	.713	0	1065	.324	.120	.795	.014	0	1115	.060	.110	.508	.316
0	1016	.082	.118	.497	.275	0	1066	.273	.104	.680	.038	0	1116	.125	.119	.410	.582
0	1017	.333	.150	.804	.151	0	1067	.196	.120	.741	.241	0	1117	.296	.127	.132	.713
0	1018	.414	.136	.833	.011	0	1068	.032	.135	.740	.477	0	1118	.426	.123	.091	.846
0	1019	.425	.147	.885	.007	0	1069	.168	.146	.273	.672	0	1119	.487	.128	.140	.947

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1120	.336	.083	-.093	-.648
0	1121	-.238	.057	-.066	-.472
0	1122	-.240	.049	-.101	-.451
0	1123	-.241	.046	-.119	-.487
0	1124	-.252	.047	-.132	-.506
0	1125	-.281	.045	-.160	-.517
0	2001	-.249	.096	-.058	-.628
0	2002	-.222	.083	-.060	-.524
0	2003	-.212	.072	-.034	-.638
0	2004	-.257	.079	-.014	-.879
0	2005	-.303	.101	-.011	-.895
0	2006	-.297	.100	-.020	-.674
0	2007	-.322	.117	-.034	-.874
0	2008	-.354	.115	-.047	-.374
0	2009	-.358	.152	-.169	-.122
0	2010	-.382	.171	-.159	-.582
0	2011	-.379	.170	-.202	-.558
0	2012	-.422	.133	-.047	-.634
0	2013	-.452	.153	-.030	-.723
0	2014	-.414	.112	-.065	-.660
0	2015	-.425	.123	-.157	-.803
0	2016	-.240	.070	-.012	-.545
0	2017	-.243	.073	-.006	-.573
0	2018	-.225	.066	-.034	-.488
0	2019	-.234	.064	-.000	-.526
0	2020	-.273	.062	-.059	-.319
0	2021	-.298	.073	-.065	-.661
0	2022	-.297	.079	-.006	-.691
0	2023	-.336	.096	-.100	-.856
0	2024	-.337	.102	-.014	-.888
0	2025	-.378	.128	-.042	-.139
0	2026	-.368	.147	-.097	-.130
0	2027	-.389	.152	-.038	-.143
0	2028	-.406	.121	-.049	-.222
0	2029	-.384	.102	-.091	-.966
0	2030	-.353	.095	-.091	-.867
0	2031	-.227	.059	-.060	-.492
0	2032	-.236	.052	-.079	-.464
0	2033	-.252	.055	-.108	-.487
0	2034	-.240	.051	-.092	-.450
0	2035	-.257	.053	-.140	-.450
0	2036	-.290	.054	-.140	-.489
0	2037	-.325	.068	-.143	-.615
0	2038	-.336	.083	-.094	-.634
0	2039	-.363	.095	-.096	-.858
0	2040	-.384	.098	-.062	-.849
0	2041	-.400	.126	-.073	-.998
0	2042	-.382	.143	-.076	-.228
0	2043	-.380	.133	-.030	-.363
0	2044	-.367	.096	-.106	-.055

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	2045	-.369	.101	-.108	-.094
0	2046	-.217	.052	-.050	-.450
0	2047	-.219	.051	-.025	-.436
0	2048	-.235	.046	-.077	-.399
0	2049	-.258	.050	-.111	-.435
0	2050	-.254	.049	-.082	-.454
0	2051	-.280	.052	-.084	-.492
0	2052	-.316	.055	-.108	-.522
0	2053	-.371	.076	-.128	-.664
0	2054	-.380	.091	-.102	-.912
0	2055	-.397	.108	-.049	-.834
0	2056	-.418	.113	-.050	-.939
0	2057	-.431	.143	-.041	-.1.229
0	2058	-.391	.131	-.010	-.1.401
0	2059	-.382	.117	-.051	-.1.316
0	2060	-.388	.101	-.104	-.1.150
0	2061	-.334	.051	-.074	-.467
0	2062	-.211	.047	-.082	-.437
0	2063	-.226	.048	-.077	-.469
0	2064	-.250	.047	-.104	-.481
0	2065	-.272	.052	-.077	-.452
0	2066	-.267	.055	-.031	-.481
0	2067	-.291	.063	-.067	-.669
0	2068	-.341	.073	-.167	-.690
0	2069	-.405	.107	-.121	-.1.347
0	2070	-.417	.123	-.033	-.1.046
0	2071	-.428	.129	-.025	-.1.122
0	2072	-.448	.123	-.084	-.1.060
0	2073	-.453	.134	-.024	-.1.418
0	2074	-.407	.113	-.116	-.1.179
0	2075	-.417	.107	-.110	-.1.394
0	2076	-.230	.043	-.065	-.423
0	2077	-.239	.045	-.054	-.465
0	2078	-.223	.043	-.099	-.403
0	2079	-.228	.044	-.096	-.483
0	2080	-.248	.045	-.101	-.440
0	2081	-.278	.058	-.101	-.558
0	2082	-.266	.063	-.094	-.620
0	2083	-.298	.083	-.027	-.891
0	2084	-.367	.098	-.053	-.924
0	2085	-.436	.138	-.150	-.1.386
0	2086	-.433	.146	-.082	-.1.316
0	2087	-.436	.132	-.051	-.1.469
0	2088	-.444	.111	-.096	-.1.380
0	2089	-.444	.109	-.131	-.1.175
0	2090	-.410	.104	-.109	-.1.031
0	2091	-.211	.043	-.079	-.374
0	2092	-.224	.040	-.111	-.372
0	2093	-.236	.043	-.123	-.393
0	2094	-.224	.041	-.123	-.450

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	2095	-.240	.042	-.119	-.398
0	2096	-.266	.053	-.128	-.585
0	2097	-.273	.060	-.074	-.578
0	2098	-.275	.075	-.005	-.746
0	2099	-.327	.100	-.063	-.919
0	2100	-.367	.101	-.045	-.924
0	2101	-.403	.123	-.050	-.1.135
0	2102	-.398	.131	-.036	-.1.304
0	2103	-.437	.160	-.051	-.1.519
0	2104	-.444	.134	-.096	-.1.237
0	2105	-.446	.140	-.086	-.1.133
0	2106	-.241	.044	-.114	-.420
0	2107	-.180	.079	-.193	-.428
0	2108	-.272	.043	-.156	-.447
0	2109	-.281	.064	-.051	-.718
0	2110	-.233	.061	-.007	-.568
0	2111	-.218	.044	-.089	-.426
0	2112	-.250	.041	-.123	-.437
0	2113	-.253	.044	-.119	-.466
0	2114	-.224	.043	-.099	-.394
0	2115	-.248	.042	-.117	-.449
0	2116	-.284	.048	-.126	-.519
0	2117	-.273	.056	-.056	-.588
0	2118	-.270	.069	-.029	-.672
0	2119	-.320	.095	-.063	-.796
0	2120	-.382	.098	-.116	-.1.014
0	2121	-.407	.124	-.121	-.1.208
0	2122	-.381	.126	-.004	-.1.089
0	2123	-.406	.148	-.070	-.1.358
0	2124	-.447	.134	-.131	-.1.194
0	2125	-.440	.142	-.116	-.1.227
0	2126	-.173	.107	-.347	-.418
0	2127	-.229	.070	-.189	-.458
10	801	-.334	.125	-.901	-.055
10	802	-.355	.130	-.906	-.064
10	803	-.373	.124	-.861	-.080
10	804	-.247	.107	-.022	-.995
10	805	-.174	.038	-.066	-.364
10	806	-.175	.048	-.036	-.409
10	807	-.165	.039	-.058	-.378
10	901	-.645	.161	-.147	-.1.277
10	902	-.488	.103	-.176	-.936
10	903	-.437	.099	-.168	-.890
10	905	-.211	.168	-.292	-.1.236
10	906	-.144	.178	-.518	-.847
10	907	-.270	.163	-.282	-.1.035
10	908	-.272	.190	-.417	-.1.082
10	909	-.251	.177	-.418	-.1.079
10	910	-.645	.172	-.001	-.1.419
10	911	-.611	.125	-.224	-.1.284

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	912	-.535	.145	-.170	-1.350	10	1037	-.261	.122	.751	-.176	10	1087	-.606	.134	-.231	-1.156
10	913	-.432	.184	-.309	-1.172	10	1038	-.000	.111	.345	-.477	10	1088	-.404	.115	-.091	-1.079
10	914	-.380	.142	-.089	-.922	10	1039	-.348	.144	.122	-.830	10	1089	-.190	.055	-.007	-.470
10	915	-.509	.124	-.074	-1.316	10	1040	-.587	.162	-.089	-1.099	10	1090	-.174	.041	-.028	-.351
10	916	-.487	.180	-.164	-1.257	10	1041	-.754	.169	-.326	-1.248	10	1091	-.190	.108	-.336	-.648
10	917	-.499	.177	-.147	-1.224	10	1042	-.726	.130	-.352	-1.133	10	1092	.082	.091	.643	-.190
10	918	-.604	.157	-.199	-1.515	10	1043	-.588	.159	-.095	-1.195	10	1093	.247	.106	.637	.002
10	919	-.135	.136	-.298	-.616	10	1044	-.258	.084	-.009	-.704	10	1094	.328	.110	.718	.077
10	921	-.204	.069	.009	-.706	10	1045	-.218	.071	.019	-.481	10	1095	.320	.116	.777	.023
10	922	-.180	.040	.058	-.415	10	1046	-.059	.118	.525	-.690	10	1096	.248	.098	.629	-.004
10	923	-.186	.041	.044	-.421	10	1047	.222	.143	.953	-.262	10	1097	.147	.083	.544	-.123
10	924	-.221	.063	.004	-.672	10	1048	.377	.148	.949	-.056	10	1098	-.058	.082	.220	-.370
10	925	-.182	.042	.005	-.334	10	1049	.421	.141	.933	.024	10	1099	-.272	.113	.130	-.748
10	926	-.171	.036	.058	-.336	10	1050	.381	.112	.814	.056	10	1100	-.406	.130	.060	-1.018
10	1001	.090	.150	.516	-.663	10	1051	.305	.116	.833	-.043	10	1101	-.521	.130	.160	-1.037
10	1002	.179	.125	.536	-.347	10	1052	.215	.112	.784	-.231	10	1102	-.502	.111	.148	-.934
10	1003	.120	.130	.526	-.452	10	1053	-.022	.118	.406	-.479	10	1103	-.315	.077	.079	-.641
10	1004	.120	.112	.582	-.425	10	1054	-.360	.125	.071	-.808	10	1104	-.178	.048	.008	-.392
10	1005	.088	.104	.483	-.294	10	1055	-.650	.169	-.092	-1.190	10	1105	-.152	.043	.032	-.326
10	1006	.038	.087	.417	-.311	10	1056	-.785	.173	-.247	-1.272	10	1106	-.199	.096	.281	-.652
10	1007	.012	.103	.346	-.345	10	1057	-.701	.146	-.331	-1.288	10	1107	.080	.096	.704	.150
10	1008	.114	.101	.285	-.532	10	1058	-.560	.135	-.139	-1.172	10	1108	.283	.123	.140	.010
10	1009	.262	.101	.059	-.728	10	1059	-.273	.081	.017	-.643	10	1109	.371	.137	.063	.038
10	1010	.416	.095	.103	-.851	10	1060	-.206	.062	.001	-.583	10	1110	.354	.116	.805	.072
10	1011	.532	.131	.079	-1.128	10	1061	-.100	.130	.411	-.783	10	1111	.339	.120	.813	.056
10	1012	.511	.164	.054	-2.352	10	1062	.168	.116	.696	-.244	10	1112	.363	.126	.881	.086
10	1013	.416	.174	.059	-1.568	10	1063	.294	.142	.858	-.121	10	1113	.184	.123	.763	-.422
10	1014	.288	.120	.069	-.890	10	1064	.365	.135	.776	-.040	10	1114	.176	.086	.657	-.073
10	1015	.258	.118	.111	-.783	10	1065	.325	.121	.891	-.009	10	1115	-.018	.097	.485	-.331
10	1016	.071	.169	.637	-.738	10	1066	.252	.097	.658	-.026	10	1116	-.214	.114	.154	-.637
10	1017	.387	.168	1.180	-.259	10	1067	.142	.105	.648	-.230	10	1117	-.356	.128	.082	-.905
10	1018	.450	.145	1.032	.010	10	1068	-.067	.113	.425	-.423	10	1118	-.455	.121	-.017	-.946
10	1019	.425	.152	.956	-.053	10	1069	-.342	.132	.029	-.928	10	1119	-.459	.116	-.100	-.931
10	1020	.393	.140	.866	.045	10	1070	-.575	.141	-.206	-.941	10	1120	-.279	.072	-.067	-.564
10	1021	.356	.132	.806	.004	10	1071	-.733	.168	-.304	-1.263	10	1121	-.170	.047	.016	-.351
10	1022	.274	.110	.643	-.113	10	1072	-.664	.141	-.322	-1.161	10	1122	-.168	.039	.026	-.358
10	1023	.449	.120	.580	-.473	10	1073	-.512	.154	-.021	-1.163	10	1123	-.168	.038	-.045	-.380
10	1024	.216	.121	.234	-.859	10	1074	-.239	.065	-.024	-.549	10	1124	-.171	.040	-.072	-.385
10	1025	.458	.130	.061	-.883	10	1075	-.215	.061	-.024	-.556	10	1125	-.152	.032	-.084	-.304
10	1026	.637	.128	.313	-.085	10	1076	-.125	.115	.358	-.606	10	2001	-.213	.094	.099	-.691
10	1027	.657	.140	.254	-.091	10	1077	.093	.112	.713	-.208	10	2002	-.176	.079	.072	-.510
10	1028	.469	.140	.069	-.993	10	1078	.218	.112	.664	-.049	10	2003	-.183	.081	.079	-.470
10	1029	.252	.105	.116	-.971	10	1079	.278	.121	.699	-.004	10	2004	-.227	.090	.077	-.672
10	1030	.233	.085	.012	-.705	10	1080	.276	.109	.641	-.023	10	2005	-.256	.111	.108	-1.047
10	1031	.023	.154	.596	-.744	10	1081	.206	.104	.626	-.073	10	2006	-.237	.109	.072	-1.126
10	1032	.298	.157	.766	-.260	10	1082	-.104	.092	.484	-.183	10	2007	-.241	.116	.184	-1.155
10	1033	.410	.164	.943	.046	10	1083	-.112	.108	.336	-.527	10	2008	-.275	.117	.065	-1.109
10	1034	.431	.133	.843	.071	10	1084	-.327	.127	.196	-.832	10	2009	-.306	.148	.265	-1.206
10	1035	.398	.139	.878	.004	10	1085	-.510	.149	-.094	-1.125	10	2010	-.331	.168	.130	-1.218
10	1036	.348	.126	.789	-.007	10	1086	-.633	.147	-.258	-1.229	10	2011	-.418	.181	.236	-1.460

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	20012	.510	.163	.035	-1.325	10	20622	-.152	.041	-.003	-.377	10	2112	-.120	.028	-.013	-.250
10	20013	.611	.242	.061	-1.775	10	20623	-.164	.036	-.046	-.301	10	2113	-.137	.032	-.000	-.291
10	20014	.737	.248	.095	-1.686	10	20644	-.196	.037	-.083	-.366	10	2114	-.142	.030	-.057	-.264
10	20015	.783	.280	.130	-2.287	10	20633	-.234	.051	-.105	-.495	10	2115	-.159	.038	-.042	-.380
10	20016	.210	.077	.037	-.573	10	20666	-.240	.065	-.089	-.696	10	2116	-.162	.046	-.017	-.391
10	20017	.211	.075	.025	-.549	10	2067	-.263	.074	-.076	-.834	10	2117	-.154	.052	-.064	-.516
10	20018	.184	.063	.034	-.439	10	2068	-.296	.080	-.069	-.707	10	2118	-.169	.067	-.052	-.509
10	20019	.196	.067	.013	-.476	10	2069	-.341	.113	-.020	-.982	10	2119	-.219	.100	-.038	-.973
10	2020	.226	.065	-.038	-.485	10	2070	-.364	.139	-.012	-1.170	10	2120	-.243	.103	-.066	-1.061
10	2021	.245	.077	.039	-.565	10	2071	-.423	.163	-.015	-1.145	10	2121	-.298	.133	-.062	-1.492
10	2022	.232	.086	.006	-.743	10	2072	-.506	.190	-.044	-1.447	10	2122	-.343	.191	-.174	-1.637
10	2023	.252	.111	.109	-1.417	10	2073	-.584	.253	.121	-1.949	10	2123	-.443	.228	-.229	-1.832
10	2024	.298	.113	.033	-.807	10	2074	-.568	.238	.001	-2.665	10	2124	-.463	.180	-.083	-1.642
10	2025	.331	.150	.132	-1.301	10	2075	-.578	.228	.008	-2.127	10	2125	-.466	.206	-.192	-1.819
10	2026	.397	.174	.088	-1.510	10	2076	-.152	.039	-.004	-.321	10	2126	-.030	.099	.444	-.377
10	2027	.499	.193	.230	-1.274	10	2077	-.161	.041	-.015	-.319	20	2127	-.105	.071	.230	-.322
10	2028	.632	.231	-.009	-1.517	10	2078	-.147	.034	-.038	-.278	20	801	.202	.102	.710	-.048
10	2029	.755	.310	.163	-2.226	10	2079	-.168	.037	-.034	-.391	20	802	.216	.100	.689	-.007
10	2030	.742	.287	.201	-2.084	10	2080	-.192	.040	-.057	-.474	20	803	.244	.114	.821	-.006
10	2031	.192	.062	.013	-.714	10	2081	-.232	.060	-.003	-.699	20	804	-.219	.087	-.025	-.691
10	2032	.193	.048	.055	-.438	10	2082	-.229	.066	-.009	-.594	20	805	-.143	.031	-.048	-.310
10	2033	.208	.048	.071	-.419	10	2083	-.249	.076	.001	-.686	20	806	-.138	.041	-.014	-.360
10	2034	.235	.046	.067	-.403	10	2084	-.209	.091	.058	-.819	20	807	-.122	.030	-.010	-.326
10	2035	.229	.054	.079	-.496	10	2085	-.346	.133	-.010	-1.035	20	901	-.783	.219	-.199	-1.756
10	2036	.248	.061	.083	-.510	10	2086	-.383	.166	-.042	-1.291	20	902	-.483	.128	-.096	-1.162
10	2037	.276	.082	.061	-.738	10	2087	-.457	.187	.060	-1.504	20	903	-.387	.107	-.074	-1.163
10	2038	.277	.104	.030	-.691	10	2088	-.516	.187	.027	-1.632	20	905	-.136	.147	.331	-.934
10	2039	.304	.134	.069	-1.000	10	2089	-.529	.207	.085	-2.280	20	906	-.101	.140	.408	-.630
10	2040	.349	.147	.005	-1.454	10	2090	-.491	.185	-.057	-1.695	20	907	-.119	.101	.245	-.669
10	2041	.444	.206	.114	-1.639	10	2091	-.136	.036	-.001	-.264	20	908	-.038	.116	.330	-.529
10	2042	.558	.248	.105	-1.613	10	2092	-.145	.032	-.043	-.261	20	909	-.079	.062	.216	-.396
10	2043	.667	.277	.186	-1.933	10	2093	-.158	.033	-.061	-.288	20	910	-.530	.262	.385	-1.392
10	2044	.696	.226	.019	-1.478	10	2094	-.155	.032	-.033	-.295	20	911	-.444	.161	.095	-1.071
10	2045	.697	.237	.103	-1.579	10	2095	-.177	.037	-.076	-.402	20	912	-.460	.152	.306	-1.207
10	2046	.755	.052	.005	-.411	10	2096	-.204	.050	-.011	-.527	20	913	-.267	.150	.204	-.903
10	2047	.175	.047	-.032	-.386	10	2097	-.207	.061	-.02	-.585	20	914	-.283	.138	.129	-.974
10	2048	.188	.038	-.081	-.347	10	2098	-.205	.071	.083	-.582	20	915	-.432	.137	.071	-1.057
10	2049	.217	.040	-.066	-.385	10	2099	-.240	.098	.116	-.848	20	916	-.364	.170	.229	-1.293
10	2050	.220	.047	-.084	-.449	10	2100	-.288	.115	.013	-.997	20	917	-.360	.185	.132	-1.348
10	2051	.243	.059	.067	-.768	10	2101	-.352	.158	.051	-1.174	20	918	-.802	.215	-.173	-1.713
10	2052	.267	.064	.086	-.611	10	2102	-.400	.185	.088	-1.298	20	919	-.072	.116	.309	-.524
10	2053	.304	.093	-.044	-.733	10	2103	-.506	.243	.142	-2.149	20	921	-.173	.067	.010	-.591
10	2054	.309	.117	.027	-.875	10	2104	-.517	.195	.039	-1.989	20	922	-.147	.041	-.029	-.473
10	2055	.358	.144	.064	-.981	10	2105	-.509	.196	.058	-1.825	20	923	-.156	.047	-.023	-.448
10	2056	.432	.164	.007	-1.311	10	2106	-.170	.037	-.065	-.326	20	924	-.208	.071	.036	-.608
10	2057	.538	.232	.146	-1.525	10	2107	-.090	.081	-.305	-.371	20	925	-.147	.041	.072	-.334
10	2058	.600	.264	.201	-1.990	10	2108	-.151	.034	-.051	-.348	20	926	-.126	.028	.041	-.261
10	2059	.628	.250	.078	-2.015	10	2109	-.179	.068	.010	-.784	20	1001	.181	.215	.833	-.801
10	2060	.621	.212	-.043	-1.819	10	2110	-.157	.062	.033	-.471	20	1002	.180	.163	.746	-.489
10	2061	.174	.048	.012	-.405	10	2111	-.128	.034	.001	-.293	20	1003	.087	.165	.685	-.614

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN
20	1004	.093	.144	.348	-.669	20	1034	-.383	.136	-.024	-.973	20	1104	-.125	.045	.074	-.332
20	1005	.081	.143	.704	-.570	20	1035	-.609	.175	-.118	-1.293	20	1105	-.114	.042	.073	-.345
20	1006	.040	.117	.439	-.673	20	1056	-.661	.180	-.233	-1.253	20	1106	-.117	.111	.303	-.466
20	1007	.010	.126	.484	-.750	20	1057	-.378	.132	-.150	-1.099	20	1107	.066	.104	.662	-.182
20	1008	.110	.108	.425	-.644	20	1058	-.123	.123	-.022	-.956	20	1108	.202	.109	.973	-.030
20	1009	.263	.100	.068	-.975	20	1059	-.213	.077	.090	-.810	20	1109	.243	.120	.774	-.039
20	1010	.386	.101	.118	-.911	20	1060	-.153	.061	.086	-.446	20	1110	.229	.108	.743	-.642
20	1011	.476	.158	.090	-1.491	20	1061	-.095	.178	.607	-.677	20	1111	.223	.113	.733	-.084
20	1012	.457	.201	.012	-1.399	20	1062	-.075	.112	.565	-.318	20	1112	.252	.120	.723	-.046
20	1013	.356	.167	.115	-1.380	20	1063	-.133	.115	.672	-.236	20	1113	.089	.146	.851	-.635
20	1014	.272	.116	.035	-.860	20	1064	-.197	.119	.746	-.143	20	1114	-.088	.100	.736	-.289
20	1015	.244	.114	.189	-.706	20	1065	-.190	.115	.634	-.091	20	1115	-.053	.109	.564	-.544
20	1016	.148	.234	.010	-.852	20	1066	-.141	.102	.572	-.146	20	1116	-.183	.103	.197	-.643
20	1017	.340	.211	.918	-.337	20	1067	-.051	.126	.503	-.463	20	1117	-.291	.104	.054	-.697
20	1018	.342	.172	.813	-.244	20	1068	-.104	.135	.428	-.718	20	1118	-.347	.098	.042	-.766
20	1019	.307	.183	.938	-.330	20	1069	-.140	.140	.088	-1.002	20	1119	-.317	.100	.023	-.764
20	1020	.303	.169	.890	-.289	20	1070	-.138	.185	-.107	-1.070	20	1120	-.182	.064	.072	-.454
20	1021	.265	.164	.749	-.446	20	1071	-.167	.283	-.126	-1.269	20	1121	-.119	.045	.080	-.363
20	1022	.175	.133	.606	-.338	20	1072	-.148	.171	-.111	-1.147	20	1122	-.124	.037	.061	-.296
20	1023	.055	.132	.430	-.617	20	1073	-.120	.104	.014	-.893	20	1123	-.126	.029	.038	-.276
20	1024	.283	.120	.183	-.721	20	1074	-.181	.055	.002	-.499	20	1124	-.140	.037	.045	-.328
20	1025	.486	.129	.046	-.880	20	1075	-.173	.056	.059	-.442	20	1125	-.100	.022	.016	-.187
20	1026	.599	.126	.208	-.983	20	1076	-.114	.143	.487	-.613	20	2001	-.189	.080	.056	-.597
20	1027	.561	.142	.199	-1.006	20	1077	-.048	.109	.507	-.293	20	2002	-.144	.067	.067	-.582
20	1028	.336	.122	.096	-.844	20	1078	-.107	.083	.592	-.212	20	2003	-.141	.064	.064	-.434
20	1029	.214	.104	.120	-.816	20	1079	-.144	.097	.910	-.158	20	2004	-.164	.060	.019	-.482
20	1030	.203	.080	.020	-.620	20	1080	-.159	.098	.850	-.263	20	2005	-.195	.097	.121	-.465
20	1031	.009	.231	.936	-.435	20	1081	-.114	.100	.634	-.206	20	2006	-.174	.080	.060	-.832
20	1032	.246	.205	.949	-.478	20	1082	-.034	.101	.505	-.268	20	2007	-.185	.079	.057	-.752
20	1033	.298	.176	.915	-.195	20	1083	-.136	.124	.316	-.611	20	2008	-.269	.124	.007	-1.274
20	1034	.300	.141	.813	-.085	20	1084	-.300	.121	.107	-.766	20	2009	-.627	.318	.049	-2.297
20	1035	.280	.157	.920	-.103	20	1085	-.446	.131	.011	-.991	20	2010	-.614	.271	.096	-2.035
20	1036	.252	.149	.918	-.143	20	1086	-.532	.125	.216	-1.025	20	2011	-.474	.128	.039	-1.519
20	1037	.145	.143	.721	-.505	20	1087	-.476	.123	.144	-.976	20	2012	-.424	.086	.165	-1.157
20	1038	.095	.124	.365	-.727	20	1088	-.268	.094	.610	-.718	20	2013	-.283	.111	.071	-.484
20	1039	.401	.154	.036	-.045	20	1089	-.140	.049	.057	-.411	20	2014	-.445	.384	.239	-1.106
20	1040	.575	.169	.143	-.129	20	1090	-.134	.039	.028	-.317	20	2015	-.692	.341	.477	-2.783
20	1041	.683	.158	.200	-.305	20	1091	-.123	.110	.445	-.637	20	2016	-.177	.066	.030	-.437
20	1042	.613	.124	.236	-.134	20	1092	-.047	.084	.515	-.237	20	2017	-.172	.057	.004	-.437
20	1043	.417	.142	.001	-.079	20	1093	-.162	.085	.561	-.096	20	2018	-.138	.045	.029	-.485
20	1044	.191	.071	.068	-.495	20	1094	-.213	.097	.613	-.017	20	2019	-.148	.043	.012	-.345
20	1045	.166	.061	.076	-.890	20	1095	-.206	.110	.669	-.153	20	2020	-.179	.043	.016	-.397
20	1046	.066	.179	.693	-.891	20	1096	-.152	.105	.565	-.327	20	2021	-.197	.063	.009	-.683
20	1047	.129	.167	.735	-.398	20	1097	-.061	.097	.386	-.327	20	2022	-.180	.074	.055	-1.037
20	1048	.227	.143	.772	-.202	20	1098	-.106	.101	.176	-.588	20	2023	-.212	.095	.022	-.774
20	1049	.253	.142	.853	-.163	20	1099	-.266	.114	.033	-.776	20	2024	-.301	.110	.024	-.964
20	1050	.235	.126	.752	-.067	20	1100	-.342	.115	.041	-.865	20	2025	-.455	.138	.051	-1.028
20	1051	.176	.143	.706	-.168	20	1101	-.396	.106	-.057	-.861	20	2026	-.542	.142	.122	-1.028
20	1052	.107	.144	.579	-.348	20	1102	-.344	.094	.080	-.748	20	2027	-.508	.130	.055	-1.032
20	1053	.107	.149	.510	-.766	20	1103	-.211	.064	.021	-.435	20	2028	-.328	.144	.049	-1.326

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	2029	.673	.409	.414	-2.382	20	2079	.130	.034	.003	-.300	30	802	.173	.078	.516	-.026
20	2030	.716	.308	.548	-2.042	20	2080	.160	.042	-.009	-.392	30	803	.171	.089	.563	-.054
20	2031	.144	.058	.071	-.828	20	2081	.199	.054	-.030	-.556	30	804	-.285	.087	-.074	-.852
20	2032	.143	.040	-.009	-.306	20	2082	.196	.055	-.043	-.486	30	805	-.145	.036	-.036	-.312
20	2033	.156	.035	-.039	-.303	20	2083	.233	.067	-.048	-.527	30	806	-.151	.044	-.029	-.358
20	2034	.153	.033	-.038	-.290	20	2084	.283	.083	-.032	-.570	30	807	-.126	.031	-.022	-.273
20	2035	.178	.049	-.020	-.478	20	2085	.328	.106	-.035	-.715	30	901	-.933	.221	-.136	-1.815
20	2036	.193	.057	.008	-.627	20	2086	.325	.104	.039	-.763	30	902	-.502	.105	-.142	-1.117
20	2037	.198	.075	.029	-.700	20	2087	.341	.130	.034	-1.326	30	903	-.364	.091	-.090	-1.020
20	2038	.198	.086	.035	-1.095	20	2088	.342	.194	.032	-1.437	30	905	-.058	.115	.325	-.681
20	2039	.241	.097	.034	-.948	20	2089	.418	.285	.302	-2.002	30	906	-.046	.111	.519	-.456
20	2040	.380	.129	-.083	-.994	20	2090	.423	.264	.461	-2.091	30	907	-.075	.079	.215	-.425
20	2041	.533	.165	-.103	-1.144	20	2091	.102	.036	.043	-.260	30	908	-.001	.087	.310	-.370
20	2042	.502	.152	-.033	-1.201	20	2092	.107	.029	-.005	-.232	30	909	-.126	.055	.031	-.468
20	2043	.416	.252	-.123	-1.561	20	2093	.120	.030	-.013	-.283	30	910	-.759	.307	.288	-1.602
20	2044	.591	.302	.197	-1.516	20	2094	.114	.029	-.016	-.319	30	911	-.268	.121	.045	-.783
20	2045	.650	.288	.385	-2.199	20	2095	.141	.034	-.023	-.302	30	912	-.443	.131	.214	-.922
20	2046	.129	.050	.049	-.440	20	2096	.176	.057	-.026	-.495	30	913	-.198	.117	.253	-.666
20	2047	.130	.046	.031	-.398	20	2097	.166	.051	-.029	-.412	30	914	-.238	.117	.179	-.826
20	2048	.141	.032	-.021	-.289	20	2098	.165	.046	-.016	-.426	30	915	-.442	.130	.043	-.978
20	2049	.176	.037	-.064	-.408	20	2099	.193	.060	-.039	-.469	30	916	-.344	.137	.036	-.833
20	2050	.189	.050	.041	-.581	20	2100	.214	.063	-.007	-.483	30	917	-.284	.137	.091	-.951
20	2051	.225	.078	.032	-.840	20	2101	.236	.080	.017	-.688	30	918	-.949	.234	-.301	-2.149
20	2052	.233	.074	.040	-.730	20	2102	.232	.113	.061	-.964	30	919	-.020	.094	.305	-.399
20	2053	.247	.077	.022	-.734	20	2103	.280	.182	.095	-1.413	30	921	-.174	.069	.062	-.545
20	2054	.261	.092	.004	-.804	20	2104	.334	.176	.219	-1.257	30	922	-.145	.049	.001	-.437
20	2055	.382	.132	.034	-.840	20	2105	.340	.174	.304	-1.161	30	923	-.146	.048	-.016	-.420
20	2056	.491	.140	.022	-.977	20	2106	.130	.030	-.004	-.273	30	924	-.202	.078	-.067	-.780
20	2057	.498	.153	.053	-1.583	20	2107	.017	.061	.301	-.194	30	925	-.153	.045	-.062	-.514
20	2058	.416	.265	.131	-1.848	20	2108	.106	.024	-.006	-.227	30	926	-.132	.031	-.042	-.257
20	2059	.550	.340	.421	-1.859	20	2109	.157	.058	.068	-.531	30	1001	.278	.169	.866	-.476
20	2060	.610	.265	.362	-1.595	20	2110	.102	.040	.113	-.310	30	1002	.173	.128	.604	-.372
20	2061	.134	.050	.068	-.422	20	2111	.083	.031	.106	-.194	30	1003	.025	.126	.487	-.479
20	2062	.115	.044	.090	-.513	20	2112	.066	.025	.095	-.152	30	1004	.053	.112	.443	-.462
20	2063	.125	.034	.029	-.365	20	2113	.099	.027	.017	-.197	30	1005	.033	.113	.431	-.429
20	2064	.160	.035	.016	-.371	20	2114	.102	.026	-.012	-.219	30	1006	-.015	.097	.397	-.434
20	2065	.225	.054	.008	-.500	20	2115	.122	.030	-.019	-.254	30	1007	-.093	.110	.367	-.551
20	2066	.234	.071	.020	-.738	20	2116	.120	.037	.027	-.293	30	1008	-.195	.101	.308	-.834
20	2067	.253	.078	.013	-.882	20	2117	.116	.037	.065	-.281	30	1009	-.312	.107	.124	-.843
20	2068	.253	.067	.059	-.678	20	2118	.114	.040	.026	-.310	30	1010	-.394	.116	-.071	-1.036
20	2069	.311	.112	.009	-1.019	20	2119	.152	.052	.032	-.394	30	1011	-.454	.183	-.009	-1.835
20	2070	.383	.143	.054	-.906	20	2120	.149	.048	.010	-.427	30	1012	-.344	.168	.131	-1.146
20	2071	.424	.139	.018	-.955	20	2121	.187	.070	.063	-.748	30	1013	-.238	.135	.240	-.966
20	2072	.413	.122	.031	-1.291	20	2122	.176	.112	.142	-1.071	30	1014	-.205	.116	.147	-1.013
20	2073	.390	.223	.182	-1.641	20	2123	.238	.182	.187	-1.504	30	1015	-.189	.107	.148	-.917
20	2074	.457	.307	.328	-1.984	20	2124	.270	.161	.212	-1.109	30	1016	-.392	.192	1.151	-.629
20	2075	.514	.279	.386	-1.791	20	2125	.311	.189	.315	-1.457	30	1017	.477	.188	.969	-.381
20	2076	.114	.036	.015	-.383	20	2126	.031	.069	.370	-.152	30	1018	.399	.152	.817	-.263
20	2077	.123	.037	.029	-.320	20	2127	.046	.054	.265	-.192	30	1019	.289	.156	.778	-.252
20	2078	.109	.030	.015	-.242	30	801	.151	.084	.500	-.088	30	1020	.244	.142	.831	-.262

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	1021	.170	.125	.672	-.298	330	1071	-.562	.144	-.196	-1.314	330	1121	-.106	.031	.154	-.515
330	1022	-.032	.110	.473	-.488	330	1072	-.354	.131	-.116	-.912	330	1122	-.116	.046	.127	-.518
330	1023	-.255	.147	.303	-.082	330	1073	-.175	.095	-.122	-.635	330	1123	-.121	.031	-.033	-.299
330	1024	-.418	.149	.186	-.201	330	1074	-.134	.067	-.083	-.470	330	1124	-.133	.031	-.036	-.285
330	1025	-.321	.149	.064	-1.032	330	1075	-.141	.075	-.106	-.570	330	1125	-.103	.023	-.032	-.192
330	1026	-.525	.132	.172	-1.033	330	1076	-.128	.178	-.792	-.704	330	2001	-.127	.086	.113	-.750
330	1027	-.410	.143	.058	-1.063	330	1077	-.161	.134	-.630	-.305	330	2002	-.084	.074	.196	-.699
330	1028	.208	.118	.181	-.782	330	1078	-.166	.103	-.469	-.228	330	2003	-.099	.066	.184	-.594
330	1029	.156	.116	.172	-.841	330	1079	-.126	.087	-.539	-.158	330	2004	-.165	.072	.089	-.837
330	1030	.157	.090	.116	-.616	330	1080	-.088	.067	-.457	-.119	330	2005	-.233	.092	.054	-.619
330	1031	-.304	.190	.907	-.444	330	1081	-.002	.061	-.236	-.214	330	2006	-.176	.176	.022	-1.153
330	1032	-.426	.178	.938	-.254	330	1082	-.137	.092	-.187	-.495	330	2007	-.333	.271	.046	-1.579
330	1033	-.391	.160	.883	-.310	330	1083	-.345	.170	-.213	-.1.063	330	2008	-1.142	.413	.169	-2.561
330	1034	-.279	.120	.693	-.144	330	1084	-.437	.176	-.090	-1.179	330	2009	-1.060	.443	.118	-2.789
330	1035	-.176	.120	.738	-.183	330	1085	-.474	.154	-.035	-1.220	330	2010	-.653	.443	.210	-1.766
330	1036	-.101	.109	.646	-.311	330	1086	-.444	.118	-.160	-.039	330	2011	-.539	.102	.267	-.924
330	1037	-.047	.125	.489	-.066	330	1087	-.299	.100	-.073	-.897	330	2012	-.441	.441	.167	-.739
330	1038	-.319	.146	.085	-.973	330	1088	-.153	.067	-.053	-.594	330	2013	-.227	.073	.044	-.533
330	1039	-.551	.184	.094	-1.421	330	1089	-.112	.055	-.066	-.330	330	2014	-.036	.170	.379	-1.237
330	1040	-.578	.171	.163	-1.367	330	1090	-.117	.044	-.036	-.357	330	2015	-.370	.345	.539	-1.609
330	1041	-.552	.173	.137	-1.240	330	1091	-.022	.131	-.579	-.388	330	2016	-.148	.087	.171	-.809
330	1042	-.411	.161	.046	-.995	330	1092	-.132	.105	-.715	-.243	330	2017	-.128	.064	.132	-.507
330	1043	-.221	.121	.191	-.719	330	1093	-.175	.095	-.568	-.094	330	2018	-.121	.058	.118	-.462
330	1044	-.099	.096	.243	-.496	330	1094	-.152	.076	-.532	-.082	330	2019	-.166	.069	.059	-.578
330	1045	-.079	.095	.333	-.537	330	1095	-.121	.074	-.498	-.189	330	2020	-.328	.089	.040	-.661
330	1046	-.231	.170	.506	-.333	330	1096	-.012	.080	-.297	-.337	330	2021	-.399	.131	.009	-.963
330	1047	-.306	.179	.933	-.244	330	1097	-.083	.091	-.389	-.396	330	2022	-.336	.172	.027	-1.024
330	1048	-.301	.147	.782	-.222	330	1098	-.274	.123	-.098	-.650	330	2023	-.399	.169	-.064	-.1.099
330	1049	-.228	.117	.706	-.222	330	1099	-.383	.133	-.025	-.814	330	2024	-.720	.150	.253	-1.252
330	1050	-.134	.087	.447	-.373	330	1100	-.366	.105	-.030	-.826	330	2025	-.797	.155	.384	-1.303
330	1051	-.018	.101	.498	-.222	330	1101	-.303	.093	-.009	-.658	330	2026	-.533	.141	.337	-1.157
330	1052	-.093	.130	.428	-.333	330	1102	-.219	.066	-.012	-.582	330	2027	-.565	.136	.176	-.976
330	1053	-.332	.182	.233	-1.068	330	1103	-.168	.060	-.061	-.540	330	2028	-.217	.079	.185	-.668
330	1054	-.533	.176	.081	-1.177	330	1104	-.115	.052	-.060	-.462	330	2029	-.147	.357	.567	-1.548
330	1055	-.637	.187	.193	-1.440	330	1105	-.108	.049	-.031	-.494	330	2030	-.338	.331	.685	-1.404
330	1056	-.534	.161	.147	-1.373	330	1106	-.011	.096	-.497	-.310	330	2031	-.066	.093	.436	-.794
330	1057	-.351	.160	.079	-1.127	330	1107	-.141	.114	-.772	-.167	330	2032	-.066	.066	.256	-.470
330	1058	-.184	.095	.119	-.598	330	1108	-.216	.115	-.758	-.058	330	2033	-.111	.077	.157	-.457
330	1059	-.145	.098	.239	-.005	330	1109	-.204	.106	-.732	-.023	330	2034	-.161	.088	.083	-.661
330	1060	-.090	.089	.220	-.005	330	1110	-.150	.083	-.502	-.024	330	2035	-.229	.088	.048	-.673
330	1061	-.183	.187	.775	-.101	330	1111	-.165	.092	-.612	-.067	330	2036	-.277	.087	.016	-.692
330	1062	-.241	.145	.742	-.255	330	1112	-.221	.118	-.791	-.053	330	2037	-.311	.104	.003	-.694
330	1063	-.199	.137	.784	-.222	330	1113	-.157	.169	-.386	-.015	330	2038	-.415	.166	.020	-1.085
330	1064	-.167	.099	.672	-.222	330	1114	-.073	.082	-.302	-.333	330	2039	-.713	.201	.128	-1.264
330	1065	-.103	.078	.534	-.170	330	1115	-.223	.118	-.196	-.654	330	2040	-.873	.184	.355	-1.386
330	1066	-.002	.070	.430	-.244	330	1116	-.305	.124	-.041	-.810	330	2041	-.882	.146	.324	-1.397
330	1067	-.153	.118	.306	-.577	330	1117	-.325	.101	-.041	-.740	330	2042	-.632	.188	.197	-1.088
330	1068	-.326	.179	.306	-.445	330	1118	-.290	.075	-.026	-.607	330	2043	-.220	.104	.125	-.977
330	1069	-.467	.184	.034	-1.133	330	1119	-.204	.067	-.061	-.512	330	2044	-.217	.288	.401	-1.221
330	1070	-.561	.148	.151	-1.096	330	1120	-.128	.058	-.135	-.474	330	2045	-.247	.298	.683	-1.433

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
30	2096	.169	.039	.008	-.493	40	913	-.222	.099	.152	-.631						
30	2097	.170	.076	.072	-.771	40	914	-.181	.077	.078	-.900						
30	2098	.195	.035	.019	-.465	40	915	-.442	.144	-.002	-.948						
30	2099	.271	.074	-.055	-.572	40	916	-.301	.122	.032	-.825						
30	2100	.304	.078	-.093	-.608	40	917	-.202	.071	.022	-.785						
30	2101	.306	.090	-.090	-.631	40	918	-1.276	.285	-.373	-2.362						
30	2102	.331	.075	.002	-.608	40	919	-.000	.074	.291	-.294						
30	2103	.143	.093	.183	-1.061	40	921	-.190	.067	-.002	-.792						
30	2104	.143	.133	.230	-1.202	40	922	-.154	.047	.013	-.418						
30	2105	.123	.193	.302	-1.377	40	923	-.146	.044	.016	-.435						
30	2106	.123	.033	.001	-.299	40	924	-.202	.069	-.063	-.644						
30	2107	.033	.069	.443	-.186	40	925	-.162	.038	.012	-.327						
30	2108	.033	.069	.008	-.197	40	926	-.149	.033	-.017	-.299						
30	2109	.181	.063	.020	-.588	40	1001	-.288	.146	.772	-.176						
30	2110	.101	.043	.098	-.294	40	1002	-.090	.105	.419	-.249						
30	2111	.063	.036	.105	-.186	40	1003	-.075	.103	.300	-.435						
30	2112	.043	.029	.115	-.139	40	1004	-.015	.082	.286	-.271						
30	2113	.108	.032	.027	-.245	40	1005	-.038	.071	.244	-.292						
30	2114	.108	.033	.005	-.246	40	1006	-.084	.059	.150	-.317						
30	2115	.123	.033	.003	-.389	40	1007	-.182	.066	.153	-.504						
30	2116	.123	.044	.017	-.478	40	1008	-.284	.073	.035	-.731						
30	2117	.123	.044	.044	-.437	40	1009	-.377	.113	.026	-.890						
30	2118	.126	.040	.012	-.370	40	1010	-.449	.153	.076	-.1.335						
30	2119	.212	.060	.033	-.454	40	1011	-.432	.199	.057	-.1.456						
30	2120	.212	.034	-.057	-.453	40	1012	-.247	.147	.224	-.027						
30	2121	.256	.066	.036	-.535	40	1013	-.162	.112	.186	-.667						
30	2122	.170	.059	.117	-.499	40	1014	-.136	.082	.090	-.736						
30	2123	.099	.083	.255	-.643	40	1015	-.125	.073	.108	-.531						
30	2124	.108	.120	.273	-.939	40	1016	.474	.167	.995	-.027						
30	2125	.177	.176	.457	-1.112	40	1017	.433	.141	.942	-.024						
30	2126	.069	.066	.401	-.113	40	1018	.320	.107	.712	-.019						
30	2127	.106	.053	.250	-.185	40	1019	.209	.100	.608	-.099						
40	801	.106	.074	.446	-.085	40	1020	.162	.087	.594	-.113						
40	802	.140	.067	.409	-.019	40	1021	-.077	.081	.379	-.161						
40	803	.128	.067	.416	-.043	40	1022	-.098	.073	.212	-.335						
40	804	.287	.072	.091	-.683	40	1023	-.419	.117	.020	-.818						
40	805	.155	.031	.041	-.299	40	1024	-.523	.124	-.154	-.964						
40	806	.156	.036	.036	-.344	40	1025	-.508	.117	.176	-.1.040						
40	807	.139	.030	-.036	-.280	40	1026	-.416	.115	.133	-.915						
40	901	.161	.263	.272	-2.228	40	1027	-.253	.125	.214	-.962						
40	902	.524	.097	-.189	-.858	40	1028	-.139	.106	.195	-.763						
40	903	.319	.064	.084	-1.173	40	1029	-.101	.091	.166	-.875						
40	904	.042	.102	.479	-.544	40	1030	-.101	.068	.116	-.425						
40	905	.047	.083	.313	-.327	40	1031	.386	.161	.1.034	-.153						
40	906	.004	.068	.263	-.341	40	1032	.411	.142	.936	-.066						
40	907	.004	.072	.246	-.304	40	1033	.352	.124	.754	-.024						
40	908	.196	.082	-.002	-.652	40	1034	.239	.091	.551	-.006						
40	909	.119	.082	.150	-.073	40	1035	.129	.087	.531	-.094						
40	910	.136	.051	.022	-.554	40	1036	-.031	.074	.423	-.154						
40	911	.491	.122	.002	-.927	40	1037	-.179	.089	.334	-.539						
30	2096	.249	.078	.249	-.412	30	2096	.249	.078	.249	-.412						
30	2097	.261	.067	.261	-.336	30	2097	.261	.067	.261	-.336						
30	2098	.146	.056	.146	-.408	30	2098	.146	.056	.146	-.408						
30	2099	.099	.088	.099	-.433	30	2099	.099	.088	.099	-.433						
30	2100	.034	.084	.034	-.600	30	2100	.034	.084	.034	-.600						
30	2101	.094	.100	.094	-.711	30	2101	.094	.100	.094	-.711						
30	2102	.052	.139	.052	-.666	30	2102	.052	.139	.052	-.666						
30	2103	.165	.202	.165	-.608	30	2103	.165	.202	.165	-.608						
30	2104	.201	.320	.201	-.741	30	2104	.201	.320	.201	-.741						
30	2105	.194	.451	.194	-.655	30	2105	.194	.451	.194	-.655						
30	2106	.175	.608	.175	-.331	30	2106	.175	.608	.175	-.331						
30	2107	.143	.823	.143	-.075	30	2107	.143	.823	.143	-.075						
30	2108	.107	.223	.107	-.023	30	2108	.107	.223	.107	-.023						
30	2109	.300	.195	.300	-.077	30	2109	.300	.195	.300	-.077						
30	2110	.271	.307	.271	-.058	30	2110	.271	.307	.271	-.058						
30	2111	.060	.105	.060	-.375	30	2111	.060	.105	.060	-.375						
30	2112	.032	.092	.032	-.439	30	2112	.032	.092	.032	-.439						
30	2113	.031	.109	.031	-.412	30	2113	.031	.109	.031	-.412						
30	2114	.052	.060	.052	-.412	30	2114	.052	.060	.052	-.412						
30	2115	.069	.036	.069	-.666	30	2115	.069	.036	.069	-.666						
30	2116	.075	.008	.075	-.633	30	2116	.075	.008	.075	-.633						
30	2117	.084	.034	.084	-.633	30	2117	.084	.034	.084	-.633						
30	2118	.133	.136	.133	-.014	30	2118	.133	.136	.133	-.014						
30	2119	.174	.184	.174	-.212	30	2119	.174	.184	.174	-.212						
30	2120	.177	.171	.177	-.315	30	2120	.177	.171	.177	-.315						
30	2121	.153	.196	.153	-.115	30	2121	.153	.196	.153	-.115						
30	2122	.111	.155	.111	-.904	30	2122	.111	.155	.111	-.904						
30	2123	.106	.164	.106	-.938	30	2123	.106	.164	.106	-.938						
30	2124	.289	.423	.289	-.781	30	2124	.289	.423	.289	-.781						
30	2125	.294	.432	.294	-.797	30	2125	.294	.432	.294	-.797						
30	2126	.040	.060	.040	-.888	30	2126	.040	.060	.040	-.888						
30	2127	.040	.055	.040	-.868	30	2127	.040	.055	.040	-.868						
30	2128	.037	.061	.037	-.862	30	2128	.037	.061	.037	-.862						
30	2129	.049	.097	.049	-.401	30	2129	.049	.097	.049	-.401						
30	2130	.054	.015	.054	-.465	30	2130	.054	.015	.054	-.465						
30	2131	.066	.024	.066	-.333	30	2131	.066	.024	.066	-.333						
30	2132	.070	.004	.070	-.509	30	2132	.070	.004	.070	-.509						
30	2133	.104	.093	.104	-.729	30	2133	.104	.093	.104	-.729						
30	2134	.124	.186	.124	-.930	30	2134	.124	.186	.124	-.930						
30	2135	.140	.165	.140	-.000	30	2135	.140	.165	.140	-.000						
30	2136	.131	.187	.131	-.024	30	2136	.131	.187	.131	-.024						
30	2137	.106	.090	.106	-.824	30	2137	.106	.090	.106	-.824						
30	2138	.096	.251	.096	-.932	30	2138	.096	.251	.096	-.932						
30	2139	.240	.415	.240	-.194	30	2139	.240	.415	.240	-.194						
30	2140	.237	.471	.237	-.339	30	2140	.237	.471	.237	-.339						
30	2141	.041	.059	.041	-.296	30	2141	.041	.059	.041	-.296						
30	2142	.030	.012	.030	-.219	30	2142	.030	.012	.030	-.219						
30	2143	.030	.003	.030	-.218	30	2143	.030	.003	.030	-.218						
30	2144	.031	.007	.031	-.234	30	2144	.031	.007	.031	-.234						
30	2145	.045	.008	.045	-.235	30	2145	.045	.008	.045	-.235						

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	1038	.309	.128	.038	.868	40	1088	.132	.063	.088	.488	40	2013	.114	.089	.211	.441
40	1039	.687	.159	.246	1.142	40	1089	.119	.050	.052	.403	40	2014	.090	.107	.490	.600
40	1040	.578	.136	.242	.063	40	1090	.132	.043	.005	.380	40	2015	.045	.194	.554	1.234
40	1041	.411	.136	.136	.040	40	1091	.084	.101	.603	.222	40	2016	.098	.061	.134	.493
40	1042	.202	.096	.108	.731	40	1092	.173	.089	.546	.065	40	2017	.104	.058	.101	.419
40	1043	.149	.104	.204	.847	40	1093	.177	.083	.531	.073	40	2018	.111	.057	.130	.436
40	1044	.078	.093	.278	.953	40	1094	.134	.066	.476	.033	40	2019	.222	.082	.031	.548
40	1045	.077	.107	.344	.669	40	1095	.089	.060	.252	.375	40	2020	.391	.110	.085	.842
40	1046	.358	.136	.777	.273	40	1096	.148	.056	.095	.414	40	2021	.466	.111	.120	.909
40	1047	.366	.139	.880	.150	40	1097	.148	.056	.095	.414	40	2022	.608	.137	.208	1.065
40	1048	.322	.116	.700	.009	40	1098	.354	.086	.063	.743	40	2023	.743	.176	.323	1.230
40	1049	.225	.091	.594	.016	40	1099	.433	.101	.172	.866	40	2024	.844	.172	.427	1.330
40	1050	.104	.066	.363	.645	40	1100	.342	.094	.091	.845	40	2025	.846	.174	.434	1.292
40	1051	.042	.069	.292	.233	40	1101	.208	.068	.041	.484	40	2026	.687	.146	.300	1.105
40	1052	.206	.092	.195	.576	40	1102	.184	.054	.002	.439	40	2027	.423	.118	.078	.818
40	1053	.475	.141	.049	.035	40	1103	.164	.049	.001	.593	40	2028	.056	.093	.291	.314
40	1054	.627	.138	.135	.135	40	1104	.133	.046	.008	.351	40	2029	.186	.153	.691	.771
40	1055	.394	.141	.113	.353	40	1105	.134	.049	.054	.423	40	2030	.118	.281	.926	1.040
40	1056	.333	.156	.074	.074	40	1106	.068	.080	.408	.265	40	2031	.071	.087	.268	.491
40	1057	.171	.107	.179	.910	40	1107	.176	.100	.632	.070	40	2032	.075	.059	.179	.335
40	1058	.145	.080	.124	.088	40	1108	.232	.167	.621	.001	40	2033	.110	.060	.107	.359
40	1059	.136	.090	.159	.767	40	1109	.181	.089	.552	.016	40	2034	.147	.061	.035	.446
40	1060	.107	.099	.221	.830	40	1110	.116	.067	.434	.052	40	2035	.205	.067	.003	.543
40	1061	.283	.143	.885	.139	40	1111	.139	.078	.368	.056	40	2036	.307	.077	.074	.678
40	1062	.294	.110	.800	.019	40	1112	.207	.163	.645	.041	40	2037	.443	.120	.061	.983
40	1063	.248	.106	.653	.044	40	1113	.252	.123	.150	.971	40	2038	.773	.188	.236	1.561
40	1064	.184	.081	.501	.064	40	1114	.140	.055	.066	.427	40	2039	.873	.171	.439	1.508
40	1065	.089	.062	.387	.101	40	1115	.298	.084	.660	.705	40	2040	.945	.176	.468	1.602
40	1066	.089	.062	.387	.101	40	1116	.349	.093	.140	.781	40	2041	.823	.167	.361	1.446
40	1067	.236	.050	.214	.205	40	1117	.310	.092	.078	.725	40	2042	.490	.126	.082	.932
40	1068	.483	.082	.132	.055	40	1118	.231	.066	.026	.596	40	2043	.665	.098	.308	.401
40	1069	.610	.129	.049	.240	40	1119	.177	.055	.015	.488	40	2044	.118	.182	.568	.786
40	1070	.580	.152	.179	.863	40	1120	.134	.052	.036	.631	40	2045	.055	.274	.745	.939
40	1071	.429	.123	.108	.663	40	1121	.128	.046	.097	.373	40	2046	.092	.077	.193	.505
40	1072	.190	.102	.141	.622	40	1122	.146	.049	.068	.502	40	2047	.085	.063	.152	.349
40	1073	.136	.083	.124	.624	40	1123	.134	.034	.041	.344	40	2048	.094	.049	.112	.439
40	1074	.144	.067	.088	.526	40	1124	.140	.029	.047	.271	40	2049	.123	.057	.102	.454
40	1075	.143	.084	.124	.754	40	1125	.115	.051	.051	.205	40	2050	.172	.061	.076	.571
40	1076	.196	.131	.729	.605	40	2001	.095	.061	.130	.355	40	2051	.267	.077	.023	.673
40	1077	.227	.105	.627	.666	40	2002	.069	.057	.123	.408	40	2052	.385	.100	.123	.830
40	1078	.190	.086	.509	.012	40	2003	.089	.057	.091	.546	40	2053	.703	.189	.212	1.487
40	1079	.127	.076	.434	.091	40	2004	.174	.061	.033	.532	40	2054	.856	.181	.417	1.478
40	1080	.067	.057	.339	.102	40	2005	.396	.141	.072	.916	40	2055	.909	.184	.505	1.406
40	1081	.042	.048	.161	.207	40	2006	.845	.272	.138	.810	40	2056	.788	.157	.395	1.288
40	1082	.207	.065	.007	.466	40	2007	.210	.408	.125	.859	40	2057	.489	.126	.103	.992
40	1083	.445	.118	.096	.900	40	2008	.345	.447	.364	.814	40	2058	.085	.096	.313	.405
40	1084	.501	.123	.156	.993	40	2009	.822	.228	.227	.369	40	2059	.075	.190	.571	.907
40	1085	.479	.117	.153	.654	40	2010	.624	.127	.276	.169	40	2060	.010	.231	.623	.764
40	1086	.353	.106	.052	.877	40	2011	.505	.092	.180	.798	40	2061	.117	.060	.158	.463
40	1087	.196	.076	.040	.593	40	2012	.342	.071	.099	.577	40	2062	.100	.054	.128	.427

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	22063	106	057	088	401	40	21113	123	028	024	241	50	1005	085	063	150	267
40	22064	121	051	090	349	40	21114	117	028	005	214	50	1006	128	049	057	281
40	22065	160	057	073	337	40	21115	133	032	043	287	50	1007	264	054	037	450
40	22066	229	063	010	337	40	21116	160	042	046	383	50	1008	271	057	093	499
40	22067	337	088	013	332	40	21117	136	034	000	282	50	1009	350	102	120	859
40	22068	575	139	226	332	40	21118	131	036	014	277	50	1010	441	168	064	526
40	22069	734	163	329	339	40	21119	225	054	078	471	50	1011	430	173	007	488
40	22070	740	167	317	333	40	21200	226	049	095	423	50	1012	223	115	145	798
40	22071	629	156	210	324	40	21201	251	056	080	491	50	1013	149	080	125	520
40	22072	393	117	009	339	40	21202	138	054	070	332	50	1014	149	070	076	404
40	22073	090	096	319	344	40	21203	040	067	271	362	50	1015	192	074	637	377
40	22074	040	189	355	322	40	21204	015	095	315	566	50	1016	366	197	883	438
40	22075	003	238	397	320	40	21205	058	155	443	810	50	1017	321	126	757	186
40	22076	113	035	015	353	40	21206	085	057	519	065	50	1018	208	089	498	048
40	22077	113	036	014	353	40	21207	019	059	271	175	50	1019	090	082	382	164
40	22078	104	041	027	360	40	8001	044	069	332	165	50	1020	072	065	367	122
40	22079	122	059	060	366	50	8002	072	054	276	068	50	1021	022	063	226	216
40	22080	157	053	054	333	50	8003	048	052	246	074	50	1022	208	060	007	436
40	22081	218	059	002	485	50	8004	340	081	155	807	50	1023	336	099	274	902
40	22082	301	073	078	441	50	8005	179	039	042	449	50	1024	510	095	274	870
40	22083	418	100	205	962	50	8006	178	042	068	441	50	1025	450	114	123	917
40	22084	507	110	260	117	50	8007	147	032	031	278	50	1026	318	100	063	867
40	22085	514	119	195	175	50	9001	207	402	082	338	50	1027	245	130	227	287
40	22086	426	112	124	354	50	9002	564	122	234	999	50	1028	148	087	182	969
40	22087	285	092	025	400	50	9003	280	053	072	559	50	1029	116	065	095	439
40	22088	077	077	208	482	50	9004	139	110	487	262	50	1030	130	058	073	415
40	22089	020	181	319	226	50	9005	071	076	333	179	50	1031	332	200	023	571
40	22090	055	213	640	029	50	9006	032	045	211	105	50	1032	322	128	927	255
40	22091	114	035	013	318	50	9007	079	059	159	301	50	1033	272	102	618	092
40	22092	110	025	024	224	50	9008	316	117	002	441	50	1034	150	070	433	058
40	22093	121	026	025	227	50	9100	086	224	440	906	50	1035	049	065	365	133
40	22094	130	030	014	304	50	9101	109	030	017	304	50	1036	064	054	210	216
40	22095	153	044	018	422	50	9102	326	138	112	867	50	1037	279	086	604	662
40	22096	180	056	043	518	50	9103	085	078	121	490	50	1038	587	126	216	082
40	22097	164	065	000	300	50	9104	179	037	058	370	50	1039	641	141	235	155
40	22098	216	053	090	333	50	9105	140	089	088	729	50	1040	499	133	017	145
40	22099	278	068	098	306	50	9106	181	049	070	546	50	1041	292	134	188	879
40	22100	297	066	147	356	50	9107	213	042	032	361	50	1042	199	092	107	639
40	22101	277	069	035	386	50	9108	185	255	400	402	50	1043	154	063	137	610
40	22102	184	066	203	485	50	9109	125	068	381	089	50	1044	101	077	137	621
40	22103	072	083	417	489	50	9201	210	078	012	665	50	1045	109	089	153	535
40	22104	074	141	367	649	50	9202	171	055	020	520	50	1046	282	157	821	344
40	22105	093	172	489	780	50	9203	159	048	035	450	50	1047	288	129	836	450
40	22106	142	036	051	339	50	9204	225	071	069	659	50	1048	224	096	689	064
40	22107	069	070	472	406	50	9205	178	044	046	492	50	1049	137	074	396	115
40	22108	107	029	020	245	50	10001	155	033	043	313	50	1050	018	053	228	148
40	22109	236	084	053	720	50	10002	167	159	606	773	50	1051	114	057	131	315
40	22110	110	042	038	294	50	10003	030	096	309	384	50	1052	279	082	012	577
40	22111	066	031	083	164	50	10004	212	096	137	527	50	1053	553	131	201	011
40	22112	046	026	078	135	50	10005	077	071	291	331	50	1054	396	124	276	098

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	
500						500	1105	.144	.043	-.021	-.358	500	2030	-.426	.172	.966	-.312	
500	10535	-.529	.144	.073	-1.100	500	1106	.100	.077	-.451	-.445	500	2031	-.096	.073	.196	-.451	
500	10536	-.257	.129	.153	-.865	500	1107	.130	.083	-.496	-.334	500	2032	-.095	.049	.125	-.326	
500	10537	-.156	.099	.236	-.737	500	1108	.148	.081	-.454	-.063	500	2033	-.111	.046	.070	-.310	
500	10538	-.150	.059	.049	-.439	500	1109	.090	.066	-.325	-.058	500	2034	-.128	.044	.064	-.323	
500	10539	-.151	.082	.236	-.673	500	1110	.029	.045	-.227	-.090	500	2035	-.179	.054	.010	-.598	
500	10600	-.119	.084	.158	-.671	500	1111	.069	.058	-.330	-.087	500	2036	-.295	.072	-.091	-.597	
500	10601	-.264	.173	.788	-.404	500	1112	.143	.087	-.513	-.063	500	2037	-.489	.138	-.119	-.065	
500	10602	-.245	.111	.627	-.263	500	1113	-.337	.117	-.607	-.952	500	2038	-.759	.161	-.526	-.1336	
500	10603	-.191	.100	.591	-.073	500	1114	.192	.045	-.059	-.407	500	2039	-.891	.168	-.526	-.1433	
500	10604	-.120	.069	.443	-.049	500	1115	.289	.063	-.121	-.632	500	2040	-.871	.161	-.513	-.1406	
500	10605	-.026	.053	.267	-.158	500	1116	-.238	.073	-.027	-.646	500	2041	-.651	.143	-.283	-.1176	
500	10606	-.114	.045	.076	-.281	500	1117	-.166	.033	-.032	-.484	500	2042	-.259	.114	-.120	-.614	
500	10607	-.317	.085	.103	-.692	500	1118	-.163	.042	-.017	-.374	500	2043	-.143	.126	-.623	-.190	
500	10608	-.511	.130	.198	-1.027	500	1119	-.164	.044	-.618	-.419	500	2044	-.332	.138	-.836	-.252	
500	10609	-.532	.125	.191	-1.127	500	1120	-.129	.035	-.601	-.300	500	2045	-.377	.177	-.974	-.513	
500	10700	-.475	.112	-.111	-1.001	500	1121	-.139	.045	-.623	-.397	500	2046	-.106	.066	-.173	-.412	
500	10701	-.292	.116	.029	-.877	500	1122	-.161	.045	-.657	-.407	500	2047	-.093	.053	-.095	-.336	
500	10702	-.154	.083	.103	-.627	500	1123	-.142	.036	-.622	-.374	500	2048	-.096	.038	-.039	-.314	
500	10703	-.134	.063	.077	-.864	500	1124	-.148	.030	-.609	-.295	500	2049	-.113	.042	-.036	-.271	
500	10704	-.156	.055	.026	-.494	500	1125	-.123	.023	-.661	-.242	500	2050	-.156	.049	-.030	-.369	
500	10705	-.171	.072	.071	-.549	500	20001	-.118	.060	-.671	-.402	500	2051	-.259	.073	-.060	-.628	
500	10706	-.186	.148	.710	-.362	500	20002	-.092	.056	-.691	-.319	500	2052	-.432	.112	-.139	-.972	
500	10707	-.180	.107	.578	-.344	500	20003	-.122	.082	-.640	-.400	500	2053	-.715	.152	-.204	-.316	
500	10708	-.136	.073	.406	-.116	500	20004	-.262	.093	-.640	-.648	500	2054	-.822	.159	-.398	-.435	
500	10709	-.064	.058	.292	-.106	500	20005	-.542	.178	-.640	-.109	500	2055	-.781	.194	-.380	-.362	
500	10800	-.008	.042	.181	-.141	500	20006	-.860	.295	-.644	-.202	500	2056	-.587	.152	-.228	-.075	
500	10801	-.098	.041	.080	-.248	500	20007	-.060	.413	-.144	-.370	500	2057	-.251	.116	-.154	-.651	
500	10802	-.264	.064	.083	-.544	500	20008	-.817	.268	-.198	-.237	500	2058	-.099	.114	-.569	-.179	
500	10803	-.472	.112	-.222	-.930	500	20009	-.674	.169	-.305	-.200	500	2059	-.271	.143	-.809	-.743	
500	10804	-.435	.104	-.217	-.838	500	2010	-.535	.122	-.182	-.102	500	2060	-.303	.156	-.790	-.655	
500	10805	-.347	.105	-.039	-.783	500	2011	-.481	.080	-.149	-.707	500	2061	-.119	.054	-.084	-.421	
500	10806	-.313	.072	-.014	-.582	500	2012	-.203	.073	-.071	-.492	500	2062	-.105	.053	-.066	-.415	
500	10807	-.166	.066	.038	-.601	500	2013	-.023	.111	-.448	-.339	500	2063	-.104	.057	-.090	-.675	
500	10808	-.123	.052	.015	-.563	500	2014	-.210	.137	-.736	-.182	500	2064	-.112	.042	-.063	-.345	
500	10809	-.129	.047	.057	-.386	500	2015	-.194	.147	-.687	-.299	500	2065	-.151	.048	-.029	-.414	
500	10900	-.145	.045	.038	-.411	500	2016	-.131	.060	-.687	-.362	500	2066	-.232	.058	-.036	-.478	
500	10901	-.098	.103	.520	-.315	500	2017	-.154	.065	-.682	-.462	500	2067	-.378	.103	-.117	-.920	
500	10902	-.132	.082	.442	-.319	500	2018	-.179	.079	-.620	-.542	500	2068	-.617	.137	-.276	-.183	
500	10903	-.121	.072	.447	-.244	500	2019	-.286	.098	-.637	-.691	500	2069	-.728	.158	-.392	-.292	
500	10904	-.065	.052	.276	-.078	500	2020	-.368	.091	-.683	-.709	500	2070	-.680	.151	-.340	-.139	
500	10905	-.026	.048	.227	-.116	500	2021	-.427	.098	-.628	-.843	500	2071	-.492	.128	-.133	-.978	
500	10906	-.104	.046	.044	-.307	500	2022	-.575	.127	-.689	-.108	500	2072	-.210	.095	-.164	-.532	
500	10907	-.197	.055	-.058	-.537	500	2023	-.748	.158	-.310	-.205	500	2073	-.078	.108	-.507	-.177	
500	10908	-.340	.078	.166	-.790	500	2024	-.825	.144	-.407	-.124	500	2074	-.223	.133	-.681	-.315	
500	10909	-.297	.082	-.075	-.685	500	2025	-.781	.142	-.602	-.239	500	2075	-.257	.155	-.780	-.390	
500	11000	-.172	.063	.053	-.473	500	2026	-.544	.115	-.210	-.954	500	2076	-.119	.033	-.001	-.302	
500	11001	-.154	.061	.057	-.473	500	2027	-.192	.103	-.201	-.517	500	2077	-.110	.038	-.033	-.404	
500	11002	-.160	.050	-.007	-.407	500	2028	-.158	.116	-.527	-.177	500	2078	-.101	.047	-.098	-.437	
500	11003	-.154	.041	-.042	-.347	500	2029	-.361	.159	-.926	-.046	500	2079	-.117	.062	-.079	-.588	
500	11004	-.143	.046	-.018	-.449													

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN
60	1072	.132	.062	.056	.523	60	1122	.158	.045	.036	.456	60	2047	.096	.040	.031	.277
60	1073	.121	.042	.005	.391	60	1123	.151	.038	.037	.456	60	2048	.093	.030	.024	.209
60	1074	.129	.046	.010	.486	60	1124	.149	.031	.041	.306	60	2049	.104	.034	.043	.244
60	1075	.125	.056	.024	.497	60	1125	.126	.023	.031	.213	60	2050	.132	.042	.015	.371
60	1076	.028	.185	.611	.845	60	2001	.154	.050	.009	.418	60	2051	.270	.073	.067	.728
60	1077	.000	.163	.377	.879	60	2002	.150	.053	.027	.427	60	2052	.503	.132	.175	-1.059
60	1078	.029	.072	.242	.409	60	2003	.174	.061	.021	.456	60	2053	.700	.148	.349	-1.258
60	1079	.015	.044	.178	.165	60	2004	.293	.085	.081	.675	60	2054	.770	.167	.380	-1.355
60	1080	.032	.032	.106	.180	60	2005	.465	.147	.085	.176	60	2055	.648	.164	.205	-1.193
60	1081	.134	.007	.007	.288	60	2006	.581	.224	.082	.476	60	2056	.387	.123	.059	.810
60	1082	.281	.067	.107	.570	60	2007	.641	.229	.030	.596	60	2057	.030	.108	.377	.438
60	1083	.427	.110	.204	.908	60	2008	.615	.169	.235	.922	60	2058	.262	.124	.676	.045
60	1084	.326	.093	.089	.774	60	2009	.568	.132	.245	.253	60	2059	.387	.139	.991	.020
60	1085	.294	.081	.041	.601	60	2010	.438	.094	.123	.784	60	2060	.391	.126	.892	-1.039
60	1086	.155	.058	.002	.494	60	2011	.269	.080	.002	.555	60	2061	.118	.051	.064	.369
60	1087	.151	.055	.021	.561	60	2012	.050	.085	.249	.347	60	2062	.106	.050	.083	.347
60	1088	.122	.037	.018	.284	60	2013	.152	.124	.561	.225	60	2063	.099	.047	.064	.312
60	1089	.128	.048	.021	.419	60	2014	.286	.145	.779	.139	60	2064	.107	.035	.031	.254
60	1090	.154	.045	.045	.432	60	2015	.271	.139	.695	.171	60	2065	.143	.040	.000	.294
60	1091	.038	.134	.342	.575	60	2016	.148	.046	.009	.397	60	2066	.229	.055	.050	.496
60	1092	.028	.113	.372	.575	60	2017	.185	.055	.030	.440	60	2067	.406	.109	.167	-1.130
60	1093	.026	.073	.290	.387	60	2018	.197	.066	.013	.448	60	2068	.591	.121	.285	-1.069
60	1094	.015	.038	.121	.183	60	2019	.216	.072	.016	.543	60	2069	.641	.141	.290	-1.210
60	1095	.042	.035	.088	.179	60	2020	.268	.068	.062	.684	60	2070	.322	.132	.183	.957
60	1096	.144	.041	.018	.330	60	2021	.348	.086	.143	.787	60	2071	.008	.106	.008	.665
60	1097	.209	.045	.083	.398	60	2022	.491	.113	.218	.907	60	2072	.242	.095	.345	.278
60	1098	.277	.056	.155	.504	60	2023	.673	.149	.295	.215	60	2073	.329	.125	.698	.077
60	1099	.182	.052	.001	.440	60	2024	.709	.141	.392	.242	60	2074	.310	.135	.886	.010
60	1100	.129	.056	.025	.415	60	2025	.607	.134	.283	.125	60	2075	.120	.128	.823	.013
60	1101	.131	.045	.020	.364	60	2026	.320	.106	.044	.760	60	2076	.106	.033	.004	.330
60	1102	.144	.033	.036	.328	60	2027	.032	.114	.559	.318	60	2077	.106	.042	.035	.378
60	1103	.149	.033	.042	.322	60	2028	.340	.130	.667	.098	60	2078	.100	.053	.102	.424
60	1104	.140	.044	.016	.363	60	2029	.474	.159	.921	.048	60	2079	.119	.059	.078	.382
60	1105	.138	.041	.023	.366	60	2030	.498	.153	.950	.015	60	2080	.147	.038	.004	.313
60	1106	.004	.132	.413	.611	60	2031	.103	.050	.108	.314	60	2081	.200	.047	.031	.443
60	1107	.028	.112	.484	.599	60	2032	.096	.033	.043	.223	60	2082	.326	.077	.142	.699
60	1108	.059	.071	.341	.372	60	2033	.098	.032	.026	.216	60	2083	.447	.099	.237	.901
60	1109	.017	.049	.221	.150	60	2034	.114	.033	.020	.262	60	2084	.461	.097	.206	.869
60	1110	.040	.036	.116	.174	60	2035	.170	.044	.006	.366	60	2085	.366	.098	.094	.749
60	1111	.015	.054	.240	.136	60	2036	.295	.073	.097	.622	60	2086	.197	.090	.165	.503
60	1112	.093	.081	.481	.116	60	2037	.549	.150	.189	.112	60	2087	.004	.096	.393	.289
60	1113	.350	.109	.058	.958	60	2038	.715	.146	.320	.227	60	2088	.157	.094	.621	.054
60	1114	.199	.039	.112	.413	60	2039	.803	.165	.359	.323	60	2089	.212	.106	.686	.024
60	1115	.222	.048	.095	.587	60	2040	.684	.147	.244	.159	60	2090	.223	.105	.686	.163
60	1116	.140	.041	.013	.429	60	2041	.403	.126	.020	.930	60	2091	.106	.027	.013	.230
60	1117	.123	.037	.009	.334	60	2042	.013	.111	.449	.429	60	2092	.096	.021	.016	.194
60	1118	.136	.033	.017	.354	60	2043	.324	.138	.744	.018	60	2093	.103	.026	.026	.211
60	1119	.145	.033	.044	.348	60	2044	.428	.140	.837	.060	60	2094	.131	.036	.015	.405
60	1120	.112	.026	.016	.232	60	2045	.437	.149	.891	.043	60	2095	.164	.050	.011	.427
60	1121	.131	.044	.023	.477	60	2046	.104	.050	.119	.332	60	2096	.203	.064	.059	.577

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	2097	.122	.049	.047	-.392	70	914	-.099	.055	.174	-.357	70	1039	-.439	.105	-.114	-.758
60	2098	.229	.055	-.074	-.566	70	915	-.133	.030	.036	-.226	70	1040	-.223	.083	-.020	-.578
60	2099	.256	.069	-.041	-.571	70	916	-.113	.029	.041	-.259	70	1041	-.141	.056	.078	-.423
60	2100	.220	.066	-.018	-.484	70	917	-.122	.067	.164	-.409	70	1042	-.139	.041	-.008	-.367
60	2101	.127	.073	.141	-.390	70	918	-.716	.138	-.256	-1.227	70	1043	-.132	.032	-.001	-.278
60	2102	.008	.074	.314	-.286	70	919	-.077	.045	.265	-.114	70	1044	-.109	.039	.042	-.355
60	2103	.118	.076	.477	-.074	70	921	-.277	.102	.001	-.652	70	1045	-.108	.039	.075	-.360
60	2104	.153	.075	.509	-.156	70	922	-.188	.059	.007	-.494	70	1046	-.353	.156	.166	-1.625
60	2105	.166	.084	.473	-.146	70	923	-.227	.060	-.078	-.623	70	1047	-.341	.227	.320	-1.569
60	2106	.151	.039	-.031	-.419	70	924	-.241	.084	-.052	-.803	70	1048	-.129	.205	.229	-1.245
60	2107	.105	.069	.467	-.096	70	925	-.196	.045	-.051	-.418	70	1049	-.057	.076	.165	-.884
60	2108	.123	.032	.008	-.284	70	926	-.163	.032	-.058	-.308	70	1050	-.113	.034	.053	-.360
60	2109	.380	.111	-.055	-.965	70	1001	-.533	.179	.040	-1.367	70	1051	-.227	.043	.050	-.449
60	2110	.083	.034	.056	-.210	70	1002	-.396	.202	.037	-1.050	70	1052	-.227	.073	-.031	-.622
60	2111	.059	.030	.108	-.159	70	1003	-.185	.097	.077	-1.166	70	1053	-.470	.118	.207	-.953
60	2112	.039	.026	.115	-.123	70	1004	-.112	.046	.074	-1.413	70	1054	-.372	.090	.141	-.663
60	2113	.133	.027	.000	-.242	70	1005	-.116	.035	.052	-.334	70	1055	-.205	.070	.008	-.623
60	2114	.121	.029	-.012	-.244	70	1006	-.146	.028	-.044	-.243	70	1056	-.127	.050	.035	-.454
60	2115	.152	.036	.046	-.297	70	1007	-.207	.035	-.066	-.375	70	1057	-.122	.041	-.043	-.367
60	2116	.201	.047	.089	-.431	70	1008	-.325	.080	-.106	-1.130	70	1058	-.117	.025	.040	-.259
60	2117	.140	.033	.042	-.315	70	1009	-.589	.220	-.160	-1.567	70	1059	-.130	.037	-.008	-.370
60	2118	.128	.033	.017	-.283	70	1010	-.510	.156	-.112	-1.226	70	1060	-.103	.037	.022	-.318
60	2119	.202	.046	.070	-.401	70	1011	-.237	.093	.002	-.739	70	1061	-.335	.172	.240	-1.291
60	2120	.159	.041	.016	-.322	70	1012	-.134	.048	.035	-.427	70	1062	-.307	.195	.219	-1.069
60	2121	.123	.060	.131	-.347	70	1013	-.122	.035	.016	-.284	70	1063	-.177	.196	.185	-1.038
60	2122	.042	.075	.512	-.163	70	1014	-.121	.030	.040	-.278	70	1064	-.065	.069	.132	-.573
60	2123	.137	.075	.529	-.032	70	1015	-.115	.034	-.003	-.283	70	1065	-.107	.036	.047	-.395
60	2124	.181	.061	.520	-.020	70	1016	-.423	.151	.093	-1.089	70	1066	-.193	.037	.061	-.329
60	2125	.164	.087	.576	-.057	70	1017	-.423	.220	.313	-1.160	70	1067	-.365	.073	-.143	-.601
60	2126	.101	.056	.418	-.073	70	1018	-.100	.158	.179	-.964	70	1068	-.447	.102	-.182	-.814
60	2127	.051	.069	.386	-.150	70	1019	-.038	.045	.178	-.384	70	1069	-.319	.094	-.063	-.677
70	801	-.042	.050	.184	-.261	70	1020	-.081	.035	.061	-.274	70	1070	-.174	.063	-.011	-.598
70	802	-.052	.038	.097	-.286	70	1021	-.159	.040	.040	-.313	70	1071	-.168	.049	.005	-.449
70	803	-.083	.034	.044	-.243	70	1022	-.312	.056	-.139	-.485	70	1072	-.115	.039	.015	-.561
70	804	-.406	.088	-.219	-.881	70	1023	-.486	.096	-.213	-.778	70	1073	-.116	.030	.021	-.282
70	805	-.163	.040	-.042	-.364	70	1024	-.433	.093	-.162	-.758	70	1074	-.122	.034	.007	-.377
70	806	-.187	.042	-.044	-.389	70	1025	-.298	.089	-.047	-.675	70	1075	-.154	.040	.010	-.440
70	807	-.151	.030	-.035	-.281	70	1026	-.176	.057	-.004	-.473	70	1076	-.296	.170	.305	-1.194
70	901	-.676	.159	-.157	-1.238	70	1027	-.141	.047	-.004	-.437	70	1077	-.272	.203	.200	-1.376
70	902	-.312	.099	-.042	-.684	70	1028	-.127	.032	-.007	-.313	70	1078	-.151	.148	.101	-.987
70	903	-.216	.042	-.076	-.379	70	1029	-.117	.032	.014	-.301	70	1079	-.096	.061	.283	-.593
70	905	-.132	.063	.359	-.116	70	1030	-.118	.029	.013	-.264	70	1080	-.095	.036	.086	-.439
70	906	-.057	.043	.230	-.102	70	1031	-.377	.154	.403	-1.181	70	1081	-.154	.037	.002	-.305
70	907	-.022	.039	.184	-.200	70	1032	-.365	.209	.341	-1.481	70	1082	-.265	.058	-.082	-.502
70	908	-.147	.097	.199	-.796	70	1033	-.146	.218	.240	-1.200	70	1083	-.343	.087	-.120	-.782
70	909	-.431	.174	-.030	-1.468	70	1034	-.048	.052	.152	-.418	70	1084	-.203	.070	.015	-.530
70	910	-.704	.135	-.311	-1.273	70	1035	-.107	.036	.048	-.360	70	1085	-.122	.048	.036	-.355
70	911	-.314	.123	-.002	-.819	70	1036	-.200	.042	-.046	-.396	70	1086	-.123	.038	.033	-.480
70	912	-.076	.034	.056	-.309	70	1037	-.370	.082	-.150	-.621	70	1087	-.135	.032	-.027	-.331
70	913	-.030	.024	.054	-.162	70	1038	-.537	.114	-.259	-.846	70	1088	-.114	.030	-.030	-.274

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1089	- .136	.043	-.021	-.453	70	2014	.286	.139	.791	-.119	70	2064	-.119	.030	-.080	-.218
70	1090	- .149	.040	-.038	-.438	70	2015	.250	.138	.707	-.189	70	2065	-.203	.039	-.054	-.383
70	1091	- .267	.154	.207	-1.250	70	2016	-.134	.030	-.040	-.267	70	2066	-.242	.058	-.083	-.528
70	1092	- .206	.183	.227	-1.791	70	2017	-.151	.041	-.030	-.376	70	2067	-.448	.106	-.180	-.978
70	1093	- .123	.132	.168	-.881	70	2018	-.129	.048	-.015	-.380	70	2068	-.598	.114	-.308	-.936
70	1094	- .085	.045	.070	-.373	70	2019	-.157	.060	-.023	-.658	70	2069	-.637	.136	-.314	-1.118
70	1095	- .098	.037	-.037	-.293	70	2020	-.219	.066	-.026	-.588	70	2070	-.393	.117	-.008	-.830
70	1096	- .152	.039	-.018	-.293	70	2021	-.301	.076	-.099	-.729	70	2071	-.136	.100	.232	-.521
70	1097	- .179	.043	-.046	-.376	70	2022	-.483	.116	-.168	-.918	70	2072	-.138	.094	.631	-.113
70	1098	- .196	.045	-.082	-.391	70	2023	-.594	.125	-.262	-1.003	70	2073	.274	.140	.854	-.039
70	1099	- .145	.039	-.015	-.400	70	2024	-.581	.119	-.249	-.963	70	2074	.305	.141	.884	-.053
70	1100	- .105	.035	-.008	-.288	70	2025	-.421	.113	.061	-.820	70	2075	.274	.127	.749	-.044
70	1101	- .110	.031	-.005	-.237	70	2026	-.101	.103	.354	-.455	70	2076	-.129	.038	-.013	-.342
70	1102	- .123	.024	-.042	-.220	70	2027	-.209	.116	.632	-.116	70	2077	-.158	.049	.014	-.490
70	1103	- .131	.026	-.061	-.264	70	2028	-.394	.139	.909	-.047	70	2078	-.104	.053	.117	-.353
70	1104	- .117	.041	-.025	-.338	70	2029	-.407	.159	.957	-.094	70	2079	-.121	.055	.082	-.456
70	1105	- .121	.040	-.032	-.469	70	2030	-.397	.151	.890	-.044	70	2080	-.157	.035	-.020	-.301
70	1106	- .240	.164	.180	-1.258	70	2031	-.107	.036	-.044	-.278	70	2081	-.257	.047	-.100	-.474
70	1107	- .196	.171	.226	-1.413	70	2032	-.104	.026	-.001	-.232	70	2082	-.335	.076	-.149	-.838
70	1108	- .075	.107	.203	-.836	70	2033	-.148	.027	-.032	-.294	70	2083	-.447	.112	-.166	-1.240
70	1109	- .063	.051	.150	-.705	70	2034	-.118	.028	-.021	-.218	70	2084	-.415	.102	-.169	-1.027
70	1110	- .103	.032	-.033	-.305	70	2035	-.176	.036	-.061	-.347	70	2085	-.322	.098	-.014	-.843
70	1111	- .066	.046	.159	-.331	70	2036	-.311	.067	-.142	-.576	70	2086	-.070	.088	.373	-.412
70	1112	- .000	.063	.297	-.206	70	2037	-.652	.136	-.304	-1.159	70	2087	.123	.093	.533	-.133
70	1113	- .287	.097	-.070	-.758	70	2038	-.705	.127	.341	-1.192	70	2088	.236	.100	.643	-.004
70	1114	- .183	.036	-.040	-.342	70	2039	-.668	.148	-.294	-1.181	70	2089	.199	.119	.701	-.098
70	1115	- .180	.040	-.034	-.388	70	2040	-.477	.120	.132	-.890	70	2090	.212	.111	.670	-.053
70	1116	- .113	.033	-.008	-.260	70	2041	-.205	.114	.180	-.576	70	2091	-.107	.031	-.028	-.283
70	1117	- .106	.030	-.000	-.232	70	2042	-.200	.118	.628	-.124	70	2092	-.106	.023	-.010	-.252
70	1118	- .123	.026	-.031	-.246	70	2043	-.421	.143	.899	-.018	70	2093	-.151	.034	-.004	-.373
70	1119	- .136	.027	-.053	-.256	70	2044	-.418	.136	.855	-.014	70	2094	-.135	.044	.060	-.442
70	1120	- .097	.023	-.004	-.208	70	2045	-.360	.150	.856	-.100	70	2095	-.166	.050	.003	-.545
70	1121	- .107	.037	-.011	-.328	70	2046	-.104	.032	-.013	-.284	70	2096	-.241	.071	-.034	-.630
70	1122	- .137	.040	-.049	-.363	70	2047	-.098	.030	-.022	-.242	70	2097	-.171	.050	-.021	-.446
70	1123	- .157	.036	-.047	-.394	70	2048	-.104	.024	-.008	-.208	70	2098	-.211	.050	-.070	-.444
70	1124	- .154	.032	-.049	-.428	70	2049	-.163	.030	-.021	-.281	70	2099	-.216	.060	-.011	-.526
70	1125	- .157	.025	-.083	-.448	70	2050	-.166	.036	-.011	-.309	70	2100	-.150	.057	-.114	-.347
70	2001	- .163	.042	-.039	-.369	70	2051	-.280	.072	-.080	-.750	70	2101	-.069	.081	.332	-.322
70	2002	- .149	.048	-.008	-.401	70	2052	-.547	.132	-.252	-1.015	70	2102	-.110	.072	.523	-.107
70	2003	- .160	.055	-.022	-.374	70	2053	-.750	.160	-.401	-1.258	70	2103	.162	.078	.628	-.044
70	2004	- .224	.071	-.019	-.593	70	2054	-.666	.167	-.247	-1.219	70	2104	.135	.074	.453	-.052
70	2005	- .309	.116	-.032	-.863	70	2055	-.461	.134	-.075	-.919	70	2105	-.092	.085	.462	-.105
70	2006	- .357	.157	-.004	-1.099	70	2056	-.171	.101	.163	-.474	70	2106	-.156	.036	-.043	-.358
70	2007	- .447	.181	-.028	-1.799	70	2057	-.130	.123	.650	-.202	70	2107	-.113	.069	.420	-.081
70	2008	- .484	.130	-.176	-1.333	70	2058	-.362	.141	.928	-.028	70	2108	-.156	.034	.047	-.348
70	2009	- .472	.096	-.194	-.911	70	2059	-.379	.145	.830	-.009	70	2109	-.358	.108	-.071	-1.091
70	2010	- .312	.076	-.006	-.589	70	2060	-.339	.129	.726	-.006	70	2110	-.071	.034	.078	-.195
70	2011	- .117	.081	-.193	-.403	70	2061	-.162	.039	-.037	-.380	70	2111	-.055	.031	.114	-.146
70	2012	- .094	.094	-.443	-.218	70	2062	-.104	.037	-.021	-.329	70	2112	-.061	.028	.105	-.131
70	2013	- .235	.131	-.749	-.127	70	2063	-.101	.036	.115	-.314	70	2113	-.090	.024	.056	-.190

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	21114	.113	.026	-.015	-.210	80	1006	-.149	.042	-.013	-.575	80	1056	-.122	.041	-.045	-.375
70	21115	.158	.046	-.042	-.322	80	1007	-.312	.066	-.135	-.756	80	1057	-.122	.031	-.019	-.321
70	21116	.242	.051	-.076	-.444	80	1008	-.483	.203	-.085	-1.459	80	1058	-.121	.023	-.043	-.253
70	21117	.100	.032	-.006	-.269	80	1009	-.739	.261	-.130	-1.632	80	1059	-.191	.029	-.094	-.329
70	21118	.116	.033	-.013	-.260	80	1010	-.528	.181	-.108	-1.209	80	1060	-.104	.027	-.002	-.241
70	21119	.164	.043	-.019	-.387	80	1011	-.288	.082	-.076	-.797	80	1061	-.513	.175	-.097	-1.464
70	21210	.122	.041	-.022	-.322	80	1012	-.135	.041	-.012	-.353	80	1062	-.537	.170	-.003	-1.525
70	21211	.005	.057	.213	-.204	80	1013	-.131	.037	-.007	-.307	80	1063	-.562	.229	.082	-1.532
70	21212	.124	.073	.522	-.085	80	1014	-.131	.033	-.026	-.307	80	1064	-.235	.159	.113	-1.012
70	21213	.174	.085	.568	-.016	80	1015	-.205	.039	-.081	-.422	80	1065	-.185	.097	.156	-.829
70	21214	.158	.073	.554	-.002	80	1016	-.589	.143	-.163	-1.281	80	1066	-.192	.059	-.056	-.589
70	21215	.132	.090	.564	-.040	80	1017	-.627	.167	-.003	-1.341	80	1067	-.351	.077	-.060	-.663
70	21216	.072	.054	.363	-.095	80	1018	-.549	.201	-.007	-1.199	80	1068	-.305	.086	-.046	-.624
70	21217	.094	.070	.411	-.176	80	1019	-.265	.152	-.173	-.957	80	1069	-.204	.063	-.014	-.493
80	801	.103	.070	.163	-.554	80	1020	-.122	.062	-.135	-.873	80	1070	-.140	.038	-.004	-.367
80	802	.117	.069	.125	-.616	80	1021	-.176	.046	-.090	-.437	80	1071	-.203	.039	-.076	-.487
80	803	.138	.065	.225	-.563	80	1022	-.310	.062	-.062	-.505	80	1072	-.111	.028	-.001	-.246
80	804	.387	.086	-.200	-.942	80	1023	-.553	.113	-.129	-.888	80	1073	-.107	.023	-.026	-.203
80	805	.165	.038	-.045	-.333	80	1024	-.381	.095	-.129	-.690	80	1074	-.113	.023	-.031	-.236
80	806	.172	.040	-.028	-.367	80	1025	-.259	.083	-.005	-.386	80	1075	-.188	.028	-.086	-.334
80	807	.143	.032	-.005	-.260	80	1026	-.180	.054	-.019	-.440	80	1076	-.451	.179	-.053	-2.005
80	801	.538	.111	-.219	-1.105	80	1027	-.225	.044	-.088	-.476	80	1077	-.504	.186	-.000	-1.815
80	902	.136	.114	.232	-.745	80	1028	-.129	.029	-.029	-.251	80	1078	-.453	.189	-.040	-1.261
80	903	.123	.040	.109	-.315	80	1029	-.125	.032	-.007	-.278	80	1079	-.278	.163	-.254	-1.081
80	905	.088	.098	.517	-.200	80	1030	-.129	.029	-.008	-.258	80	1080	-.134	.092	-.172	-.675
80	906	.011	.061	.230	-.216	80	1031	-.637	.140	-.182	-.387	80	1081	-.162	.066	-.229	-.565
80	907	.066	.032	.145	-.438	80	1032	-.545	.141	-.073	-.437	80	1082	-.227	.060	-.021	-.461
80	908	.237	.163	-.250	-1.382	80	1033	-.512	.200	-.125	-1.403	80	1083	-.265	.070	-.052	-.554
80	909	.464	.151	-.018	-1.359	80	1034	-.257	.154	-.180	-.921	80	1084	-.144	.050	-.001	-.378
80	910	.548	.110	-.218	-1.017	80	1035	-.240	.091	-.085	-.745	80	1085	-.111	.040	-.055	-.292
80	911	.510	.122	-.070	-.976	80	1036	-.196	.063	-.088	-.517	80	1086	-.129	.031	-.007	-.268
80	912	.032	.070	.267	-.379	80	1037	-.310	.084	-.012	-.649	80	1087	-.142	.027	-.052	-.258
80	913	.033	.050	.207	-.243	80	1038	-.419	.105	-.108	-.764	80	1088	-.109	.028	-.025	-.222
80	914	.094	.107	.288	-.541	80	1039	-.406	.096	-.130	-.970	80	1089	-.110	.031	-.007	-.271
80	915	.092	.070	.253	-.368	80	1040	-.169	.059	-.004	-1.305	80	1090	-.129	.028	-.021	-.283
80	916	.090	.072	.219	-.508	80	1041	-.131	.045	-.005	-.380	80	1091	-.472	.182	-.113	-1.630
80	917	.160	.138	.391	-.749	80	1042	-.134	.033	-.028	-.355	80	1092	-.442	.193	-.032	-1.559
80	918	.562	.111	-.225	-1.020	80	1043	-.205	.033	-.112	-.378	80	1093	-.381	.195	-.041	-1.351
80	919	.032	.062	.306	-.224	80	1044	-.109	.030	-.014	-.275	80	1094	-.210	.099	-.059	-.971
80	921	.303	.114	-.079	-.889	80	1045	-.109	.031	-.036	-.288	80	1095	-.166	.068	-.065	-.489
80	922	.195	.067	.052	-.509	80	1046	-.512	.130	-.125	-1.201	80	1096	-.151	.051	-.098	-.421
80	923	.253	.062	-.084	-.585	80	1047	-.633	.168	-.012	-1.544	80	1097	-.164	.048	-.020	-.338
80	924	.287	.088	-.077	-.849	80	1048	-.480	.203	-.149	-1.261	80	1098	-.171	.044	-.048	-.359
80	925	.189	.045	-.020	-.415	80	1049	-.266	.181	-.225	-1.100	80	1099	-.147	.043	-.004	-.358
80	926	.146	.030	.037	-.270	80	1050	-.179	.086	-.136	-.679	80	1100	-.103	.037	-.034	-.274
80	1001	.640	.163	-.257	-1.667	80	1051	-.286	.075	-.046	-.789	80	1101	-.105	.033	-.004	-.255
80	1002	.643	.146	-.125	-1.235	80	1052	-.278	.080	-.018	-.688	80	1102	-.119	.025	-.043	-.233
80	1003	.567	.198	-.112	-1.358	80	1053	-.353	.101	-.023	-.718	80	1103	-.142	.029	-.023	-.278
80	1004	.154	.107	-.084	-.973	80	1054	-.253	.065	-.050	-.524	80	1104	-.120	.039	-.025	-.340
80	1005	.113	.052	.114	-.562	80	1055	-.232	.051	-.010	-.531	80	1105	-.119	.038	-.016	-.338

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	1106	.449	.193	.055	-1.899	80	2031	.109	.028	-.020	-.249	80	2081	.233	.046	-.089	-.440
80	1107	.466	.221	.038	-1.883	80	2032	.103	.020	-.044	-.215	80	2082	.316	.077	-.121	-.645
80	1108	.320	.185	.214	-1.388	80	2033	.141	.021	-.069	-.229	80	2083	.386	.097	-.138	-.750
80	1109	.166	.108	.149	-1.175	80	2034	.113	.021	-.033	-.216	80	2084	.299	.085	-.061	-.586
80	1110	.170	.057	.073	-.537	80	2035	.161	.027	-.075	-.275	80	2085	.171	.086	.250	.450
80	1111	.149	.074	.133	-.618	80	2036	.290	.071	-.133	-.651	80	2086	.063	.088	.552	.218
80	1112	.075	.080	.274	.551	80	2037	.551	.110	-.299	-1.104	80	2087	.202	.103	.622	.077
80	1113	.200	.090	.089	-.661	80	2038	.600	.122	-.306	-.993	80	2088	.228	.106	.763	.061
80	1114	.162	.040	-.024	-.380	80	2039	.465	.121	-.004	-.912	80	2089	.115	.119	.709	.177
80	1115	.163	.044	.018	-.440	80	2040	.223	.100	-.279	-.591	80	2090	.106	.109	.625	.199
80	1116	.103	.036	.013	-.303	80	2041	.045	.118	-.518	-.347	80	2091	.104	.030	.011	.403
80	1117	.102	.034	.036	-.296	80	2042	.338	.132	-.778	-.031	80	2092	.097	.026	-.003	.326
80	1118	.122	.028	.029	-.266	80	2043	.423	.153	1.011	-.003	80	2093	.129	.033	.011	.362
80	1119	.133	.026	.045	-.266	80	2044	.331	.131	-.850	-.003	80	2094	.108	.043	.055	.367
80	1120	.102	.028	.020	-.284	80	2045	.246	.142	-.811	-.116	80	2095	.153	.049	.008	.436
80	1121	.119	.044	.023	-.622	80	2046	.102	.025	-.014	-.238	80	2096	.267	.083	-.056	.632
80	1122	.138	.038	.045	-.439	80	2047	.098	.022	-.016	-.176	80	2097	.159	.052	.009	.435
80	1123	.141	.035	.023	-.306	80	2048	.103	.019	-.030	-.198	80	2098	.181	.052	.031	.396
80	1124	.147	.030	.052	-.279	80	2049	.156	.023	-.076	-.262	80	2099	.153	.060	.140	.403
80	1125	.139	.021	.084	-.221	80	2050	.153	.028	-.067	-.284	80	2100	.065	.060	.276	.270
80	2001	.165	.040	.049	-.346	80	2051	.263	.070	-.096	-.709	80	2101	.020	.079	.428	.222
80	2002	.118	.049	.010	-.367	80	2052	.479	.110	-.203	-.851	80	2102	.159	.086	.593	.101
80	2003	.106	.054	.034	-.514	80	2053	.640	.146	-.277	-1.154	80	2103	.161	.089	.572	.112
80	2004	.144	.062	.019	-.584	80	2054	.480	.140	-.087	-.996	80	2104	.091	.081	.423	.124
80	2005	.214	.103	.023	-.950	80	2055	.233	.114	-.117	-.669	80	2105	.016	.086	.413	.219
80	2006	.248	.135	.044	-1.149	80	2056	.048	.099	.445	-.333	80	2106	.145	.036	-.023	.343
80	2007	.379	.138	.014	-1.351	80	2057	.273	.140	.869	-.094	80	2107	.124	.064	-.408	.063
80	2008	.453	.101	-.154	-.909	80	2058	.379	.150	.922	-.011	80	2108	.148	.034	-.041	.323
80	2009	.397	.086	-.168	-.778	80	2059	.289	.135	.754	-.065	80	2109	.358	.104	-.079	.936
80	2010	.176	.077	-.115	-.426	80	2060	.221	.113	-.650	-.075	80	2110	.047	.035	.108	.180
80	2011	.028	.094	.435	-.315	80	2061	.147	.027	-.051	-.272	80	2111	.046	.039	.173	.190
80	2012	.195	.109	.567	-.195	80	2062	-.095	.024	-.006	-.208	80	2112	.051	.034	.126	.164
80	2013	.259	.139	.737	-.287	80	2063	-.098	.025	-.013	-.188	80	2113	.082	.031	.086	.181
80	2014	.225	.132	.795	-.276	80	2064	-.114	.023	-.020	-.196	80	2114	.100	.027	.009	.202
80	2015	.225	.130	.628	-.269	80	2065	.189	.031	-.076	-.312	80	2115	.146	.040	.019	.422
80	2016	.138	.027	.055	-.285	80	2066	.220	.050	-.082	-.481	80	2116	.229	.051	-.101	.520
80	2017	.143	.031	.049	-.331	80	2067	.402	.095	-.171	-.799	80	2117	.688	.033	.023	.302
80	2018	.098	.034	.001	-.333	80	2068	.502	.107	-.251	-.868	80	2118	.083	.033	.035	.226
80	2019	.113	.039	.062	-.402	80	2069	.461	.125	-.096	-.914	80	2119	.108	.044	.031	.305
80	2020	.170	.039	.076	-.477	80	2070	.201	.107	-.220	-.601	80	2120	.039	.046	.145	.221
80	2021	.275	.063	.086	-.596	80	2071	.048	.108	-.506	-.304	80	2121	.076	.067	.337	.152
80	2022	.441	.094	.174	-.744	80	2072	.244	.104	-.626	-.090	80	2122	.191	.084	.616	.049
80	2023	.314	.110	.177	-.918	80	2073	.275	.132	-.741	-.031	80	2123	.187	.081	.595	.012
80	2024	.432	.100	.095	-.786	80	2074	.220	.125	-.674	-.126	80	2124	.114	.065	.415	.067
80	2025	.229	.103	.108	-.584	80	2075	.178	.123	-.747	-.152	80	2125	.664	.079	.534	.166
80	2026	.094	.111	.461	-.310	80	2076	.112	.028	-.002	-.234	80	2126	.078	.058	.391	.120
80	2027	.358	.139	.784	-.026	80	2077	.144	.038	-.019	-.340	80	2127	.105	.076	.439	.118
80	2028	.444	.147	.857	-.012	80	2078	-.096	.040	-.074	-.338	90	801	.214	.125	.167	.841
80	2029	.347	.153	.798	-.122	80	2079	.108	.041	-.048	-.422	90	802	.235	.121	.094	-1.220
80	2030	.314	.141	.760	-.127	80	2080	.143	.031	-.032	-.266	90	803	.283	.111	.073	-.887

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN
90	804	-.373	.096	-.140	-.817	90	1023	-.360	.117	-.039	-.982	90	1073	-.121	.034	-.017	-.298
90	805	-.154	.041	-.006	-.368	90	1024	-.336	.118	-.032	-.965	90	1074	-.118	.030	-.014	-.263
90	806	-.154	.048	-.033	-.406	90	1025	-.302	.117	-.012	-.864	90	1075	-.121	.033	-.005	-.273
90	807	-.119	.033	-.014	-.317	90	1026	-.239	.085	-.041	-.711	90	1076	-.427	.137	-.085	-1.248
90	901	-.129	.103	-.207	-.939	90	1027	-.190	.069	-.043	-.906	90	1077	-.482	.154	-.093	-1.472
90	902	-.265	.158	-.249	-.986	90	1028	-.155	.045	-.038	-.424	90	1078	-.503	.152	-.103	-1.339
90	903	-.076	.066	-.167	-.345	90	1029	-.142	.041	-.008	-.323	90	1079	-.503	.177	-.002	-1.279
90	905	-.071	.107	-.437	-.711	90	1030	-.142	.036	-.030	-.291	90	1080	-.343	.143	-.292	-.867
90	906	-.029	.032	-.137	-.378	90	1031	-.504	.121	-.199	-.975	90	1081	-.243	.120	-.136	-.812
90	907	-.144	.039	-.038	-.509	90	1032	-.509	.123	-.183	-.000	90	1082	-.239	.093	-.114	-.779
90	908	-.416	.203	-.269	-.726	90	1033	-.557	.146	-.084	-.323	90	1083	-.243	.083	-.024	-.646
90	909	-.311	.126	-.137	-.240	90	1034	-.506	.150	-.028	-.069	90	1084	-.167	.067	-.046	-.462
90	910	-.310	.101	-.218	-.892	90	1035	-.351	.158	-.093	-.127	90	1085	-.145	.061	-.041	-.621
90	911	-.362	.122	-.074	-.104	90	1036	-.252	.128	-.236	-.899	90	1086	-.152	.044	-.031	-.405
90	912	-.109	.105	-.311	-.487	90	1037	-.238	.107	-.247	-.733	90	1087	-.165	.036	-.043	-.406
90	913	-.041	.054	-.137	-.311	90	1038	-.262	.093	-.049	-.704	90	1088	-.114	.031	-.013	-.283
90	914	-.108	.123	-.467	-.535	90	1039	-.239	.096	-.039	-.852	90	1089	-.114	.031	-.003	-.284
90	915	-.137	.098	-.220	-.595	90	1040	-.194	.085	-.084	-.839	90	1090	-.129	.028	-.029	-.269
90	916	-.207	.086	-.260	-.614	90	1041	-.172	.079	-.051	-.748	90	1091	-.129	.028	-.143	-.382
90	917	-.273	.170	-.299	-.612	90	1042	-.164	.054	-.030	-.519	90	1092	-.129	.028	-.106	-.523
90	918	-.313	.092	-.209	-.666	90	1043	-.156	.046	-.031	-.364	90	1093	-.129	.028	-.007	-.730
90	919	-.210	.054	-.203	-.610	90	1044	-.138	.043	-.010	-.342	90	1094	-.129	.028	-.121	-.184
90	921	-.234	.144	-.203	-.613	90	1045	-.138	.041	-.020	-.334	90	1095	-.129	.028	-.097	-.980
90	922	-.173	.060	-.035	-.451	90	1046	-.488	.105	-.189	-.639	90	1096	-.204	.135	-.097	-.693
90	923	-.231	.062	-.035	-.547	90	1047	-.508	.123	-.073	-.675	90	1097	-.183	.085	-.103	-.732
90	924	-.292	.083	-.107	-.964	90	1048	-.530	.147	-.057	-.780	90	1098	-.187	.066	-.050	-.562
90	925	-.142	.043	-.072	-.306	90	1049	-.484	.171	-.041	-.126	90	1099	-.186	.063	-.021	-.538
90	926	-.119	.031	-.005	-.244	90	1050	-.344	.133	-.047	-.937	90	1100	-.131	.053	-.123	-.464
90	1001	-.539	.123	-.122	-.122	90	1051	-.261	.119	-.081	-.733	90	1101	-.129	.044	-.000	-.524
90	1002	-.532	.116	-.210	-.013	90	1052	-.229	.102	-.215	-.712	90	1102	-.131	.028	-.038	-.230
90	1003	-.532	.144	-.092	-.118	90	1053	-.212	.085	-.087	-.667	90	1103	-.134	.036	-.043	-.308
90	1004	-.439	.189	-.107	-.111	90	1054	-.185	.063	-.019	-.586	90	1104	-.111	.036	-.001	-.285
90	1005	-.308	.201	-.132	-.133	90	1055	-.165	.064	-.060	-.560	90	1105	-.110	.035	-.012	-.275
90	1006	-.309	.161	-.070	-.177	90	1056	-.147	.058	-.054	-.647	90	1106	-.502	.159	-.105	-1.368
90	1007	-.376	.184	-.079	-.423	90	1057	-.145	.048	-.017	-.504	90	1107	-.546	.186	-.092	-1.573
90	1008	-.527	.233	-.070	-.642	90	1058	-.138	.035	-.023	-.298	90	1108	-.478	.183	-.092	-1.595
90	1009	-.433	.198	-.042	-.115	90	1059	-.134	.037	-.030	-.155	90	1109	-.324	.162	-.041	-1.322
90	1010	-.306	.117	-.044	-.833	90	1060	-.123	.036	-.031	-.288	90	1110	-.278	.098	-.048	-.767
90	1011	-.220	.097	-.023	-.791	90	1061	-.464	.148	-.092	-.371	90	1111	-.285	.132	-.068	-1.017
90	1012	-.163	.063	-.023	-.555	90	1062	-.483	.142	-.138	-.242	90	1112	-.179	.125	-.263	-1.001
90	1013	-.146	.050	-.003	-.432	90	1063	-.513	.176	-.060	-.836	90	1113	-.211	.097	-.117	-.852
90	1014	-.143	.042	-.014	-.302	90	1064	-.437	.171	-.260	-.361	90	1114	-.193	.073	-.067	-.851
90	1015	-.143	.045	-.030	-.302	90	1065	-.323	.151	-.175	-.063	90	1115	-.199	.072	-.036	-.884
90	1016	-.327	.127	-.171	-.059	90	1066	-.248	.107	-.155	-.702	90	1116	-.136	.060	-.058	-.548
90	1017	-.526	.121	-.223	-.226	90	1067	-.234	.105	-.209	-.535	90	1117	-.134	.053	-.037	-.418
90	1018	-.583	.119	-.161	-.240	90	1068	-.206	.084	-.114	-.595	90	1118	-.141	.038	-.003	-.310
90	1019	-.467	.173	-.062	-.180	90	1069	-.173	.065	-.051	-.490	90	1119	-.153	.032	-.050	-.364
90	1020	-.264	.146	-.157	-.110	90	1070	-.153	.052	-.012	-.644	90	1120	-.108	.034	-.013	-.326
90	1021	-.264	.116	-.227	-.081	90	1071	-.146	.047	-.016	-.530	90	1121	-.111	.039	-.007	-.476
90	1022	-.271	.092	-.104	-.914	90	1072	-.128	.035	-.011	-.300	90	1122	-.126	.035	-.029	-.434

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	1123	.119	.035	.023	.297	90	2048	.108	.022	.035	.199	90	2098	.123	.031	.028	.426
90	1124	.124	.031	.035	.307	90	2049	.141	.025	.036	.235	90	2099	.082	.053	.115	.334
90	1125	.115	.023	.041	.243	90	2050	.129	.028	.011	.244	90	2100	.007	.054	.314	.173
90	2001	.174	.038	.038	.401	90	2051	.214	.071	.037	.650	90	2101	.076	.074	.539	.159
90	2002	.090	.035	.022	.297	90	2052	.357	.093	.105	.713	90	2102	.163	.077	.499	.041
90	2003	.074	.030	.030	.291	90	2053	.465	.134	.054	.940	90	2103	.125	.083	.579	.083
90	2004	.105	.027	.005	.334	90	2054	.262	.123	.256	.689	90	2104	.012	.069	.331	.214
90	2005	.170	.040	.008	.609	90	2055	.024	.117	.386	.429	90	2105	.057	.076	.278	.310
90	2006	.210	.062	.006	.705	90	2056	.213	.106	.644	.052	90	2106	.119	.035	.031	.291
90	2007	.389	.088	.120	.766	90	2057	.350	.135	.845	.091	90	2107	.147	.072	.493	.040
90	2008	.437	.086	.200	.727	90	2058	.357	.138	.828	.090	90	2108	.124	.033	.012	.263
90	2009	.319	.085	.055	.633	90	2059	.231	.126	.702	.151	90	2109	.348	.109	.082	.934
90	2010	.058	.087	.055	.379	90	2060	.152	.102	.540	.178	90	2110	.013	.039	.140	.159
90	2011	.133	.110	.604	.240	90	2061	.153	.035	.006	.292	90	2111	.012	.056	.413	.190
90	2012	.238	.120	.629	.115	90	2062	.103	.029	.008	.200	90	2112	.014	.048	.297	.159
90	2013	.230	.146	.674	.190	90	2063	.095	.024	.001	.194	90	2113	.052	.042	.247	.197
90	2014	.140	.129	.571	.280	90	2064	.100	.022	.004	.194	90	2114	.068	.032	.079	.185
90	2015	.161	.132	.615	.344	90	2065	.158	.030	.051	.275	90	2115	.120	.039	.602	.279
90	2016	.159	.035	.060	.317	90	2066	.188	.056	.041	.627	90	2116	.199	.050	.072	.533
90	2017	.153	.036	.048	.286	90	2067	.306	.085	.092	.717	90	2117	.065	.036	.094	.263
90	2018	.089	.025	.011	.280	90	2068	.361	.103	.069	.805	90	2118	.036	.038	.132	.185
90	2019	.090	.024	.039	.244	90	2069	.263	.109	.099	.739	90	2119	.041	.045	.174	.202
90	2020	.137	.024	.029	.244	90	2070	.023	.098	.396	.372	90	2120	.039	.050	.273	.108
90	2021	.272	.068	.089	.604	90	2071	.176	.105	.702	.108	90	2121	.128	.070	.418	.063
90	2022	.360	.082	.118	.705	90	2072	.307	.108	.799	.021	90	2122	.215	.086	.610	.011
90	2023	.424	.107	.083	.705	90	2073	.270	.128	.722	.091	90	2123	.178	.088	.556	.028
90	2024	.258	.092	.033	.567	90	2074	.168	.114	.561	.166	90	2124	.074	.067	.406	.094
90	2025	.024	.106	.416	.401	90	2075	.100	.115	.562	.194	90	2125	.003	.076	.399	.251
90	2026	.272	.127	.814	.116	90	2076	.111	.028	.010	.219	90	2126	.095	.063	.427	.123
90	2027	.427	.156	.936	.020	90	2077	.133	.031	.009	.257	90	2127	.123	.081	.448	.085
90	2028	.422	.154	.886	.014	90	2078	.083	.031	.065	.232	100	801	.334	.126	.199	-1.088
90	2029	.259	.150	.725	.014	90	2079	.090	.030	.039	.211	100	802	.324	.116	.018	-1.059
90	2030	.222	.136	.632	.094	90	2080	.119	.028	.004	.274	100	803	.315	.089	.016	.660
90	2031	.142	.041	.030	.243	90	2081	.206	.047	.081	.420	100	804	.346	.092	.149	.814
90	2032	.121	.029	.047	.243	90	2082	.265	.072	.077	.566	100	805	.149	.042	.013	.378
90	2033	.140	.028	.049	.235	90	2083	.293	.088	.030	.638	100	806	.146	.053	.013	.477
90	2034	.101	.025	.006	.210	90	2084	.177	.072	.045	.461	100	807	.103	.037	.035	.267
90	2035	.130	.030	.020	.339	90	2085	.051	.083	.340	.328	100	901	.580	.122	.119	-1.127
90	2036	.237	.072	.076	.633	90	2086	.142	.097	.499	.163	100	902	.301	.126	.136	.786
90	2037	.420	.101	.149	.782	90	2087	.231	.115	.667	.116	100	903	.112	.072	.147	.441
90	2038	.445	.126	.082	.860	90	2088	.200	.105	.622	.052	100	905	.064	.094	.337	.576
90	2039	.281	.117	.146	.681	90	2089	.055	.103	.461	.250	100	906	.123	.064	.068	.499
90	2040	.010	.099	.343	.550	90	2090	.037	.093	.436	.266	100	907	.270	.080	.036	.658
90	2041	.241	.128	.637	.550	90	2091	.101	.036	.041	.294	100	908	.494	.171	.042	-1.196
90	2042	.443	.146	.939	.021	90	2092	.083	.033	.065	.214	100	909	.494	.095	.165	.907
90	2043	.399	.147	.605	.021	90	2093	.103	.043	.064	.307	100	910	.586	.126	.239	-1.098
90	2044	.251	.116	.633	.099	90	2094	.079	.043	.092	.257	100	911	.535	.097	.187	-1.035
90	2045	.155	.126	.672	.204	90	2095	.126	.044	.060	.322	100	912	.204	.103	.253	.606
90	2046	.126	.034	.036	.281	90	2096	.239	.087	.002	.623	100	913	.100	.073	.120	.501
90	2047	.115	.029	.035	.249	90	2097	.122	.054	.064	.441	100	914	.223	.138	.213	.707

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	915	.228	.091	.084	.626	100	1040	.245	.071	.021	.648	100	1090	.158	.032	.035	.288
100	916	.201	.099	.133	.604	100	1041	.237	.059	.070	.457	100	1091	.410	.122	.075	.142
100	917	.352	.143	.149	.883	100	1042	.223	.046	.100	.400	100	1092	.360	.121	.037	.1256
100	918	.514	.100	.152	.929	100	1043	.212	.043	.088	.382	100	1093	.379	.128	.051	.1385
100	919	.115	.056	.048	.451	100	1044	.195	.042	.062	.358	100	1094	.393	.112	.136	.1246
100	921	.101	.177	.487	.692	100	1045	.191	.042	.079	.325	100	1095	.395	.123	.048	.1292
100	922	.154	.056	.014	.400	100	1046	.338	.081	.116	.833	100	1096	.304	.110	.130	.903
100	923	.210	.067	.007	.605	100	1047	.354	.091	.114	.846	100	1097	.283	.099	.043	.764
100	924	.282	.086	.026	.858	100	1048	.362	.103	.090	.999	100	1098	.292	.091	.050	.727
100	925	.094	.052	.139	.332	100	1049	.392	.110	.097	.237	100	1099	.299	.086	.046	.758
100	926	.100	.030	.009	.227	100	1050	.375	.087	.063	.745	100	1100	.215	.068	.011	.543
100	1001	.401	.081	.115	.721	100	1051	.349	.090	.028	.714	100	1101	.182	.054	.007	.510
100	1002	.421	.077	.167	.730	100	1052	.323	.091	.017	.655	100	1102	.167	.039	.026	.377
100	1003	.469	.097	.163	.943	100	1053	.288	.086	.015	.646	100	1103	.190	.040	.055	.498
100	1004	.469	.142	.050	.459	100	1054	.268	.073	.014	.591	100	1104	.140	.038	.066	.323
100	1005	.406	.175	.083	.261	100	1055	.258	.071	.069	.632	100	1105	.148	.040	.017	.305
100	1006	.369	.162	.059	.301	100	1056	.229	.059	.064	.728	100	1106	.366	.102	.141	.834
100	1007	.343	.172	.098	.412	100	1057	.209	.045	.074	.389	100	1107	.400	.119	.126	.1031
100	1008	.283	.140	.068	.016	100	1058	.198	.037	.104	.337	100	1108	.360	.121	.075	.1199
100	1009	.248	.109	.124	.036	100	1059	.196	.039	.085	.342	100	1109	.332	.110	.063	.1180
100	1010	.230	.073	.021	.765	100	1060	.180	.038	.071	.300	100	1110	.360	.101	.050	.1004
100	1011	.219	.061	.042	.540	100	1061	.330	.089	.081	.854	100	1111	.299	.114	.044	.918
100	1012	.188	.046	.014	.417	100	1062	.345	.083	.123	.940	100	1112	.288	.104	.187	.951
100	1013	.175	.044	.043	.346	100	1063	.371	.100	.114	.922	100	1113	.288	.104	.187	.724
100	1014	.178	.040	.056	.325	100	1064	.385	.114	.004	.011	100	1114	.291	.088	.069	.717
100	1015	.183	.042	.060	.352	100	1065	.361	.106	.053	.890	100	1115	.309	.095	.053	.660
100	1016	.384	.092	.142	.700	100	1066	.331	.089	.012	.886	100	1116	.242	.080	.001	.660
100	1017	.402	.096	.143	.787	100	1067	.326	.095	.024	.747	100	1117	.217	.067	.040	.573
100	1018	.426	.096	.172	.838	100	1068	.286	.088	.080	.606	100	1118	.197	.047	.009	.396
100	1019	.451	.115	.142	.068	100	1069	.264	.074	.015	.560	100	1119	.194	.041	.036	.463
100	1020	.391	.135	.106	.964	100	1070	.244	.060	.051	.435	100	1120	.144	.042	.016	.481
100	1021	.335	.149	.042	.008	100	1071	.223	.052	.071	.484	100	1121	.148	.043	.021	.347
100	1022	.312	.125	.014	.914	100	1072	.183	.041	.066	.389	100	1122	.164	.040	.058	.322
100	1023	.283	.117	.054	.764	100	1073	.176	.038	.065	.352	100	1123	.108	.034	.016	.247
100	1024	.248	.091	.009	.660	100	1074	.174	.034	.072	.346	100	1124	.111	.031	.002	.276
100	1025	.235	.077	.027	.596	100	1075	.178	.037	.060	.375	100	1125	.104	.024	.017	.211
100	1026	.224	.055	.044	.451	100	1076	.352	.105	.116	.075	100	2001	.209	.041	.065	.461
100	1027	.210	.048	.062	.465	100	1077	.350	.101	.051	.136	100	2002	.107	.035	.006	.340
100	1028	.185	.043	.066	.370	100	1078	.387	.104	.100	.515	100	2003	.090	.034	.064	.233
100	1029	.187	.041	.045	.334	100	1079	.335	.123	.070	.090	100	2004	.116	.032	.009	.241
100	1030	.190	.037	.060	.325	100	1080	.327	.109	.049	.789	100	2005	.178	.041	.021	.353
100	1031	.361	.086	.090	.842	100	1081	.320	.092	.002	.762	100	2006	.194	.050	.025	.416
100	1032	.357	.088	.092	.747	100	1082	.340	.084	.079	.710	100	2007	.326	.071	.093	.591
100	1033	.390	.101	.129	.054	100	1083	.353	.090	.048	.788	100	2008	.310	.071	.048	.572
100	1034	.427	.106	.165	.856	100	1084	.373	.076	.040	.626	100	2009	.161	.086	.223	.429
100	1035	.403	.113	.070	.042	100	1085	.252	.070	.018	.433	100	2010	.080	.102	.600	.257
100	1036	.341	.106	.066	.933	100	1086	.231	.050	.031	.453	100	2011	.205	.121	.699	.197
100	1037	.306	.098	.021	.813	100	1087	.221	.041	.082	.419	100	2012	.232	.121	.638	.160
100	1038	.283	.084	.042	.693	100	1088	.160	.036	.032	.312	100	2013	.160	.138	.604	.269
100	1039	.269	.085	.021	.722	100	1089	.153	.035	.030	.282	100	2014	.051	.118	.481	.316

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
100	2015	.085	.117	.461	.289	100	2065	.118	.033	.024	.228	100	2115	.114	.041	.052	.304
100	2016	.196	.035	.095	.327	100	2066	.133	.052	.040	.397	100	2116	.199	.056	.069	.453
100	2017	.177	.062	.291	.291	100	2067	.227	.076	.057	.540	100	2117	.038	.041	.123	.246
100	2018	.091	.031	.061	.195	100	2068	.244	.094	.100	.555	100	2118	.020	.050	.214	.148
100	2019	.075	.033	.087	.183	100	2069	.120	.107	.340	.515	100	2119	.032	.058	.344	.171
100	2020	.105	.032	.038	.207	100	2070	.089	.107	.536	.252	100	2120	.109	.062	.382	.067
100	2021	.201	.059	.006	.540	100	2071	.252	.118	.782	.034	100	2121	.164	.079	.498	.041
100	2022	.252	.075	.009	.564	100	2072	.310	.116	.798	.009	100	2122	.218	.084	.569	.018
100	2023	.106	.067	.623	.623	100	2073	.226	.121	.654	.097	100	2123	.181	.087	.583	.063
100	2024	.074	.101	.317	.400	100	2074	.122	.098	.453	.169	100	2124	.076	.066	.404	.149
100	2025	.141	.129	.643	.217	100	2075	.068	.094	.460	.232	100	2125	.008	.071	.341	.481
100	2026	.370	.142	.898	.018	100	2076	.141	.026	.049	.303	100	2126	.112	.066	.360	.079
100	2027	.427	.155	.904	.041	100	2077	.143	.027	.021	.263	100	2127	.135	.087	.483	.082
100	2028	.341	.137	.736	.038	100	2078	.087	.025	.023	.174	110	801	.381	.086	.064	.832
100	2029	.161	.127	.621	.220	100	2079	.075	.027	.050	.183	110	802	.331	.073	.116	.786
100	2030	.143	.116	.538	.199	100	2080	.089	.029	.009	.207	110	803	.313	.071	.107	.637
100	2031	.189	.035	.074	.310	100	2081	.150	.047	.011	.384	110	804	.333	.087	.136	.742
100	2032	.149	.026	.049	.236	100	2082	.187	.068	.016	.453	110	805	.133	.043	.007	.423
100	2033	.146	.028	.028	.243	100	2083	.202	.090	.079	.531	110	806	.151	.065	.014	.466
100	2034	.085	.028	.167	.167	100	2084	.067	.075	.179	.341	110	807	.080	.038	.090	.235
100	2035	.085	.033	.093	.192	100	2085	.054	.088	.387	.253	110	901	.585	.136	.123	.151
100	2036	.149	.057	.062	.478	100	2086	.201	.106	.584	.120	110	902	.255	.124	.167	.796
100	2037	.276	.086	.006	.700	100	2087	.217	.103	.681	.008	110	903	.150	.075	.163	.494
100	2038	.258	.112	.108	.735	100	2088	.155	.089	.481	.058	110	905	.192	.101	.305	.970
100	2039	.085	.112	.314	.465	100	2089	.018	.088	.446	.241	110	906	.225	.088	.028	.708
100	2040	.151	.113	.572	.183	100	2090	.003	.080	.404	.237	110	907	.282	.094	.017	.840
100	2041	.334	.148	.812	.058	100	2091	.123	.036	.039	.249	110	908	.539	.146	.084	.276
100	2042	.432	.152	1.026	.047	100	2092	.084	.033	.059	.216	110	909	.516	.098	.170	.960
100	2043	.359	.134	.931	.032	100	2093	.078	.040	.090	.241	110	910	.689	.149	.213	.289
100	2044	.200	.101	.604	.106	100	2094	.056	.037	.086	.225	110	911	.574	.102	.214	.986
100	2045	.114	.107	.604	.216	100	2095	.102	.034	.039	.246	110	912	.252	.098	.203	.742
100	2046	.170	.034	.669	.315	100	2096	.143	.087	.119	.545	110	913	.226	.121	.072	.803
100	2047	.142	.029	.018	.270	100	2097	.071	.055	.118	.288	110	914	.342	.164	.161	.026
100	2048	.113	.025	.023	.209	100	2098	.073	.048	.084	.295	110	915	.289	.101	.022	.706
100	2049	.115	.030	.051	.209	100	2099	.028	.053	.152	.272	110	916	.306	.135	.138	.904
100	2050	.090	.035	.084	.208	100	2100	.049	.052	.313	.140	110	918	.432	.150	.063	.050
100	2051	.146	.063	.043	.430	100	2101	.105	.072	.496	.152	110	919	.528	.106	.197	.943
100	2052	.244	.083	.015	.559	100	2102	.166	.082	.528	.101	110	921	.218	.083	.054	.025
100	2053	.291	.120	.041	.698	100	2103	.127	.080	.495	.074	110	922	.102	.134	.527	.598
100	2054	.073	.108	.268	.436	100	2104	.022	.063	.309	.176	110	923	.068	.054	.152	.343
100	2055	.127	.116	.585	.258	100	2105	.039	.069	.288	.238	110	924	.151	.064	.005	.567
100	2056	.296	.134	.678	.013	100	2106	.109	.035	.001	.354	110	925	.227	.083	.006	.650
100	2057	.346	.134	.836	.023	100	2107	.169	.076	.466	.642	110	926	.013	.051	.234	.211
100	2058	.293	.123	.798	.074	100	2108	.115	.033	.009	.264	110	1001	.054	.031	.066	.178
100	2059	.168	.106	.556	.187	100	2109	.353	.116	.073	.003	110	1002	.345	.066	.118	.584
100	2060	.102	.085	.445	.149	100	2110	.019	.045	.207	.122	110	1003	.364	.063	.152	.607
100	2061	.190	.032	.080	.310	100	2111	.029	.068	.508	.154	110	1004	.395	.083	.140	.875
100	2062	.128	.026	.021	.218	100	2112	.029	.061	.500	.132	110	1004	.379	.131	.000	.243
100	2063	.103	.026	.006	.194	100	2113	.024	.049	.194	.161	110	1005	.403	.164	.065	.349
100	2064	.086	.024	.009	.161	100	2114	.037	.033	.086	.141	110	1006	.426	.159	.031	.203

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	1007	.421	.181	.070	-1.434	110	1037	.364	.069	.152	-1.733	110	2012	.175	.127	.658	-2.133
110	1008	.354	.162	.120	-1.337	110	1038	.372	.066	.173	-1.610	110	2013	.050	.102	.321	-1.193
110	1009	.309	.119	.058	-1.207	110	1039	.362	.067	.155	-1.533	110	2014	.062	.102	.321	-1.193
110	1010	.285	.074	.084	-1.280	110	1040	.316	.059	.152	-1.467	110	2015	.025	.109	.602	-3.360
110	1011	.259	.065	.086	-1.297	110	1041	.286	.054	.102	-1.467	110	2016	.208	.034	.081	-3.365
110	1012	.213	.051	.052	-1.499	110	1042	.261	.043	.114	-1.411	110	2017	.168	.038	.024	-3.822
110	1013	.209	.053	.045	-1.545	110	1043	.252	.043	.136	-1.408	110	2018	.063	.044	.207	-1.193
110	1014	.215	.049	.033	-1.607	110	1044	.229	.042	.102	-1.385	110	2019	.029	.048	.185	-1.161
110	1015	.223	.046	.072	-1.432	110	1045	.223	.041	.077	-1.385	110	2020	.045	.046	.166	-1.161
110	1016	.320	.056	.137	-1.555	110	1046	.308	.054	.121	-1.493	110	2021	.101	.064	.187	-3.319
110	1017	.328	.060	.136	-1.561	110	1047	.320	.060	.107	-1.343	110	2022	.127	.081	.195	-4.111
110	1018	.342	.056	.182	-1.544	110	1048	.312	.062	.102	-1.390	110	2023	.058	.095	.339	-3.392
110	1019	.374	.083	.138	-1.920	110	1049	.334	.057	.168	-1.609	110	2024	.136	.107	.516	-1.161
110	1020	.377	.113	.100	-1.057	110	1050	.359	.053	.194	-1.547	110	2025	.293	.143	.792	-0.072
110	1021	.356	.117	.045	-1.098	110	1051	.376	.061	.164	-1.581	110	2026	.416	.149	.837	-0.011
110	1022	.353	.099	.070	-1.801	110	1052	.373	.066	.163	-1.596	110	2027	.361	.156	.927	-0.053
110	1023	.339	.100	.041	-1.764	110	1053	.370	.073	.173	-1.643	110	2028	.221	.126	.635	-1.133
110	1024	.303	.079	.050	-1.805	110	1054	.358	.065	.205	-1.612	110	2029	.048	.107	.486	-2.652
110	1025	.295	.068	.086	-1.822	110	1055	.331	.064	.140	-1.574	110	2030	.049	.095	.427	-2.332
110	1026	.272	.050	.133	-1.314	110	1056	.274	.052	.123	-1.468	110	2031	.197	.035	.084	-3.325
110	1027	.248	.045	.117	-1.448												
110	1028	.218	.044	.085	-1.411												
110	1029	.212	.044	.068	-1.390												
110	1030	.217	.039	.088	-1.381												
110	1031	.319	.054	.155	-1.501												
110	1032	.306	.054	.149	-1.485												
110	1033	.313	.056	.159	-1.536												
110	1034	.336	.051	.191	-1.521												
110	1035	.336	.060	.178	-1.598												
110	1036	.345	.062	.173	-1.603												
110	1037	.364	.069	.152	-1.641												
110	1038	.372	.066	.173	-1.610												
110	1039	.362	.067	.155	-1.593												
110	1040	.316	.059	.152	-1.537												
110	1041	.286	.054	.102	-1.467												
110	1042	.261	.043	.114	-1.411												
110	1043	.252	.043	.136	-1.408												
110	1044	.229	.042	.102	-1.385												
110	1045	.223	.041	.077	-1.385												
110	1046	.308	.054	.121	-1.493												
110	1047	.320	.060	.107	-1.343												
110	1048	.312	.062	.102	-1.390												
110	1049	.334	.057	.168	-1.609												
110	1050	.359	.053	.194	-1.547												
110	1051	.376	.061	.164	-1.581												
110	1052	.373	.066	.163	-1.596												
110	1053	.370	.073	.173	-1.643												
110	1054	.358	.065	.205	-1.612												
110	1055	.331	.064	.140	-1.574												
110	1056	.274	.052	.123	-1.468												

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WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	2082	.136	.030	.011	-.236	110	2082	-.089	.063	.111	-.405	120	805	-.099	.048	.093	-.332
110	2083	.098	.039	.154	-.225	110	2083	-.058	.081	.260	-.367	120	806	-.121	.071	.084	-.472
110	2084	.023	.043	.259	-.150	110	2084	-.062	.080	.360	-.215	120	807	-.039	.041	.123	-.274
110	2085	.012	.050	.242	-.152	110	2085	.140	.096	.588	-.146	120	901	-.599	.148	-.033	-1.264
110	2086	.040	.060	.206	-.246	110	2086	.215	.099	.602	-.011	120	902	-.231	.121	.109	-.824
110	2087	.128	.089	.176	-.439	110	2087	.198	.101	.588	-.058	120	903	-.176	.087	.117	-.514
110	2088	.069	.113	.288	-.425	110	2088	.108	.081	.432	-.107	120	905	-.301	.138	.140	-1.113
110	2089	.152	.120	.635	-.225	110	2089	-.018	.074	.295	-.228	120	906	-.325	.123	.061	-1.219
110	2090	.041	.126	.730	-.037	110	2090	-.032	.066	.257	-.242	120	907	-.457	.095	.124	-.855
110	2091	.425	.153	.947	-.053	110	2091	-.130	.043	.032	-.284	120	908	-.598	.128	.094	-1.209
110	2092	.392	.144	.824	-.072	110	2092	-.055	.036	.086	-.181	120	909	-.558	.099	.250	-.888
110	2093	.043	.121	.600	-.117	110	2093	-.014	.042	.166	-.151	120	910	-.731	.166	.239	-1.384
110	2094	.086	.082	.372	-.167	110	2094	-.007	.035	.135	-.128	120	911	-.616	.116	.182	-1.040
110	2095	.014	.083	.341	-.233	110	2095	-.053	.034	.067	-.190	120	912	-.299	.116	.128	-.791
110	2096	.183	.034	-.065	-.296	110	2096	.015	.082	.351	-.333	120	913	-.359	.126	.021	-.842
110	2097	.142	.032	.006	-.249	110	2097	.034	.065	.299	-.245	120	914	-.446	.159	.210	-1.044
110	2098	.087	.031	.071	-.186	110	2098	.023	.050	.196	-.181	120	915	-.331	.119	.020	-.967
110	2099	.053	.041	.120	-.193	110	2099	.066	.059	.277	-.211	120	916	-.420	.153	.028	-1.104
110	2100	.010	.046	.191	-.186	110	2100	.128	.063	.339	-.080	120	917	-.484	.152	.114	-1.061
110	2101	.037	.062	.157	-.277	110	2101	.152	.077	.541	-.053	120	918	-.545	.115	.191	-1.002
110	2102	.098	.076	.115	-.352	110	2102	.161	.079	.541	-.062	120	919	-.322	.114	.009	-1.084
110	2103	.090	.111	.226	-.469	110	2103	.105	.072	.421	-.091	120	921	-.225	.109	.711	-.237
110	2104	.054	.105	.639	-.308	110	2104	-.000	.053	.230	-.140	120	922	-.025	.062	.487	-.156
110	2105	.258	.127	.734	-.103	110	2105	.058	.056	.201	-.242	120	923	-.066	.062	.139	-.399
110	2106	.344	.125	.817	-.034	110	2106	.083	.033	.038	-.252	120	924	-.111	.073	.091	-.394
110	2107	.306	.141	.987	-.043	110	2107	.222	.086	.573	-.014	120	925	-.072	.055	.357	-.108
110	2108	.206	.119	.721	-.099	110	2108	.096	.033	.017	-.324	120	926	-.607	.030	.137	-.120
110	2109	.066	.091	.510	-.188	110	2109	.364	.116	-.079	-.877	120	1001	-.333	.059	.162	-.581
110	2110	.010	.072	.363	-.196	110	2110	.091	.056	.332	-.077	120	1002	-.357	.056	.185	-.586
110	2111	.198	.034	-.023	-.324	110	2111	.115	.091	.557	-.109	120	1003	-.383	.077	.125	-.802
110	2112	.123	.030	.006	-.230	110	2112	.120	.083	.596	-.095	120	1004	-.367	.130	.052	-1.062
110	2113	.082	.031	.055	-.192	110	2113	.041	.063	.410	-.146	120	1005	-.386	.145	.004	-1.496
110	2114	.040	.032	.100	-.150	110	2114	.025	.043	.195	-.121	120	1006	-.390	.136	.076	-1.252
110	2115	.065	.042	.154	-.196	110	2115	-.089	.040	.043	-.256	120	1007	-.388	.149	.012	-1.357
110	2116	.034	.055	.159	-.325	110	2116	.181	.053	.039	-.414	120	1008	-.338	.128	.031	-1.114
110	2117	.097	.081	.178	-.447	110	2117	.018	.053	.260	-.121	120	1009	-.331	.107	.065	-.817
110	2118	.072	.097	.247	-.467	110	2118	.124	.076	.456	-.082	120	1010	-.291	.082	.097	-.617
110	2119	.064	.115	.452	-.373	110	2119	.147	.077	.500	-.031	120	1011	-.285	.073	.069	-.838
110	2120	.220	.129	.731	-.142	110	2120	.213	.083	.594	-.042	120	1012	-.252	.066	.038	-.571
110	2121	.304	.129	.775	-.001	110	2121	.223	.101	.681	-.011	120	1013	-.254	.079	.026	-.671
110	2122	.071	.117	.736	-.018	110	2122	.241	.100	.664	-.011	120	1014	-.259	.064	.060	-.367
110	2123	.273	.113	.630	-.203	110	2123	.161	.089	.633	-.043	120	1015	-.268	.060	.097	-.558
110	2124	.074	.146	.407	-.208	110	2124	-.054	.063	.383	-.121	120	1016	-.323	.053	.115	-.494
110	2125	.011	.075	.317	-.275	110	2125	.036	.065	.315	-.233	120	1017	-.328	.052	.151	-.533
110	2126	.157	.032	-.046	-.309	110	2126	.173	.078	.514	-.029	120	1018	-.339	.048	.185	-.537
110	801	.134	.029	.006	-.279	110	2127	.178	.094	.557	-.029	120	1019	-.366	.068	.165	-.704
110	802	.063	.027	.064	-.189	120	801	-.398	.065	.224	-.674	120	1020	-.375	.106	.099	-1.451
110	803	.038	.030	.107	-.143	120	802	-.332	.055	.174	-.610	120	1021	-.366	.100	.072	-1.096
110	804	.037	.032	.069	-.155	120	803	-.318	.058	.154	-.576	120	1022	-.366	.080	.078	-.748
110	804	.047	.085	.085	-.331	120	804	-.292	.092	.070	-.767	120	1023	-.366	.083	.090	-.701

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1024	.332	.071	.101	.632	120	1074	.227	.034	.134	.375	120	1124	.035	.033	.080	.163
120	1025	.312	.064	.110	.594	120	1075	.233	.038	.092	.400	120	1125	.062	.026	.027	.177
120	1026	.296	.047	.134	.491	120	1076	.286	.051	.120	.515	120	2001	.187	.047	.005	.404
120	1027	.275	.047	.128	.471	120	1077	.287	.055	.125	.501	120	2002	.113	.052	.128	.347
120	1028	.249	.048	.085	.435	120	1078	.297	.051	.153	.485	120	2003	.076	.054	.183	.284
120	1029	.242	.049	.092	.470	120	1079	.323	.055	.167	.527	120	2004	.058	.051	.174	.234
120	1030	.248	.044	.113	.454	120	1080	.344	.056	.211	.542	120	2005	.064	.059	.197	.288
120	1031	.333	.048	.193	.485	120	1081	.358	.058	.173	.583	120	2006	.071	.064	.213	.296
120	1032	.333	.047	.176	.464	120	1082	.375	.062	.169	.637	120	2007	.114	.075	.153	.426
120	1033	.347	.048	.187	.492	120	1083	.362	.071	.132	.620	120	2008	.011	.066	.294	.324
120	1034	.347	.044	.224	.504	120	1084	.315	.064	.075	.549	120	2009	.129	.114	.564	.269
120	1035	.373	.052	.222	.586	120	1085	.256	.054	.029	.460	120	2010	.220	.126	.691	.143
120	1036	.366	.055	.183	.625	120	1086	.228	.045	.047	.432	120	2011	.230	.135	.697	.277
120	1037	.379	.059	.219	.709	120	1087	.218	.047	.065	.541	120	2012	.114	.114	.474	.308
120	1038	.393	.058	.254	.711	120	1088	.208	.045	.052	.474	120	2013	.012	.108	.381	.413
120	1039	.383	.058	.210	.624	120	1089	.199	.043	.032	.381	120	2014	.158	.089	.175	.521
120	1040	.327	.051	.124	.536	120	1090	.195	.040	.038	.342	120	2015	.045	.099	.338	.368
120	1041	.296	.047	.142	.576	120	1091	.298	.059	.118	.536	120	2016	.185	.033	.063	.393
120	1042	.282	.043	.146	.544	120	1092	.304	.058	.143	.539	120	2017	.090	.045	.074	.299
120	1043	.280	.044	.144	.520	120	1093	.322	.066	.152	.940	120	2018	.012	.057	.229	.232
120	1044	.294	.043	.122	.488	120	1094	.333	.060	.174	.649	120	2019	.037	.065	.264	.137
120	1045	.329	.043	.110	.468	120	1095	.344	.062	.166	.652	120	2020	.062	.065	.271	.098
120	1046	.344	.045	.164	.472	120	1096	.350	.064	.162	.680	120	2021	.064	.080	.339	.151
120	1047	.327	.048	.163	.494	120	1097	.363	.067	.211	.603	120	2022	.029	.095	.321	.242
120	1048	.313	.048	.164	.480	120	1098	.350	.067	.119	.642	120	2023	.107	.109	.454	.318
120	1049	.333	.043	.216	.486	120	1099	.288	.069	.018	.678	120	2024	.288	.122	.688	.056
120	1050	.322	.042	.250	.511	120	1100	.229	.061	.030	.493	120	2025	.398	.152	.851	.007
120	1051	.333	.049	.236	.570	120	1101	.199	.056	.065	.469	120	2026	.415	.159	.900	.010
120	1052	.381	.056	.194	.620	120	1102	.206	.053	.036	.568	120	2027	.271	.136	.676	.112
120	1053	.380	.061	.207	.630	120	1103	.200	.054	.025	.557	120	2028	.117	.103	.464	.169
120	1054	.333	.056	.176	.574	120	1104	.191	.053	.050	.425	120	2029	.015	.081	.288	.248
120	1055	.333	.056	.113	.558	120	1105	.189	.050	.004	.420	120	2030	.045	.075	.257	.258
120	1056	.333	.056	.056	.515	120	1106	.301	.057	.135	.605	120	2031	.198	.035	.069	.355
120	1057	.366	.044	.087	.436	120	1107	.297	.063	.102	.645	120	2032	.111	.036	.030	.230
120	1058	.333	.039	.129	.414	120	1108	.308	.062	.141	.621	120	2033	.039	.052	.184	.184
120	1059	.355	.042	.106	.431	120	1109	.331	.071	.157	.949	120	2034	.051	.061	.272	.098
120	1060	.321	.041	.073	.403	120	1110	.315	.052	.169	.322	120	2035	.079	.068	.374	.102
120	1061	.316	.050	.140	.506	120	1111	.334	.056	.142	.322	120	2036	.083	.071	.413	.123
120	1062	.329	.046	.159	.493	120	1112	.356	.063	.188	.589	120	2037	.041	.096	.525	.249
120	1063	.329	.049	.168	.516	120	1113	.342	.059	.186	.662	120	2038	.119	.115	.331	.222
120	1064	.331	.049	.194	.515	120	1114	.356	.059	.202	.630	120	2039	.283	.130	.760	.107
120	1065	.367	.051	.219	.565	120	1115	.341	.071	.107	.675	120	2040	.390	.128	.863	.009
120	1066	.356	.051	.254	.567	120	1116	.286	.068	.021	.610	120	2041	.393	.148	.919	.042
120	1067	.413	.065	.238	.690	120	1117	.234	.057	.001	.460	120	2042	.283	.137	.761	.159
120	1068	.396	.069	.159	.707	120	1118	.204	.046	.050	.386	120	2043	.136	.110	.521	.205
120	1069	.348	.066	.081	.660	120	1119	.201	.052	.039	.527	120	2044	.001	.072	.320	.202
120	1070	.313	.052	.108	.516	120	1120	.199	.049	.052	.462	120	2045	.060	.073	.371	.278
120	1071	.287	.049	.078	.480	120	1121	.191	.052	.019	.431	120	2046	.195	.037	.057	.318
120	1072	.247	.045	.061	.471	120	1122	.189	.048	.027	.416	120	2047	.117	.037	.109	.262
120	1073	.227	.037	.119	.368	120	1123	.041	.036	.114	.179	120	2048	.043	.038	.138	.161

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	2049	.019	.052	.225	-.147	120	2099	.138	.054	.303	-.067	130	916	-.548	.154	-.019	-1.233
120	2050	.074	.060	.306	-.076	120	2100	.185	.064	.392	-.034	130	917	-.552	.149	-.086	-1.188
120	2051	.089	.078	.531	-.177	120	2101	.186	.081	.493	-.028	130	918	-.544	.114	-.115	-.970
120	2052	.058	.087	.494	-.221	120	2102	.151	.074	.601	-.046	130	919	-.459	.152	-.070	-1.304
120	2053	.111	.116	.658	-.286	120	2103	.065	.067	.320	-.112	130	921	-.305	.117	-.085	-.040
120	2054	.281	.121	.841	-.101	120	2104	-.038	.047	.150	-.223	130	922	-.123	.086	-.547	-.085
120	2055	.359	.131	.796	-.060	120	2105	-.090	.049	.108	-.298	130	923	-.036	.074	-.292	-.333
120	2055	.341	.124	.746	-.017	120	2106	-.042	.036	.100	-.192	130	924	-.024	.071	-.211	-.361
120	2055	.202	.126	.641	-.220	120	2107	.221	.093	.579	-.078	130	925	.132	.066	-.401	-.040
120	2058	-.070	.098	.500	-.190	120	2108	-.052	.036	.081	-.221	130	926	-.023	.032	-.148	-.082
120	2059	-.021	.077	.315	-.226	120	2109	.284	.118	.308	-.786	130	1001	-.332	.060	-.140	-.564
120	2060	-.072	.062	.184	-.233	120	2110	.130	.062	.389	-.042	130	1002	-.353	.057	-.163	-.582
120	2061	-.197	.038	.067	-.361	120	2111	.193	.107	.647	-.066	130	1003	-.375	.080	-.105	-.824
120	2062	-.107	.037	.064	-.253	120	2112	.199	.098	.673	-.029	130	1004	-.371	.129	-.014	-1.115
120	2063	-.040	.040	.217	-.158	120	2113	.103	.073	.511	-.082	130	1005	-.373	.120	-.017	-1.435
120	2064	.022	.042	.224	-.108	120	2114	.088	.050	.294	-.045	130	1006	-.378	.107	-.102	-1.110
120	2065	.045	.056	.289	-.123	120	2115	.041	.043	.137	-.222	130	1007	-.393	.126	-.088	-1.249
120	2066	.074	.067	.371	-.151	120	2116	-.054	.054	.005	-.355	130	1008	-.358	.122	-.021	-1.066
120	2066	.036	.080	.355	-.233	120	2117	.066	.057	.313	-.077	130	1009	-.329	.109	-.042	-1.417
120	2068	.084	.089	.413	-.235	120	2118	.201	.077	.545	-.016	130	1010	-.305	.073	-.088	-.791
120	2068	.186	.110	.654	-.193	120	2119	.236	.088	.645	-.024	130	1011	-.305	.082	-.048	-.833
120	2070	.267	.118	.732	-.006	120	2120	.293	.097	.660	-.047	130	1012	-.288	.090	-.014	-.733
120	2071	.282	.127	.772	-.004	120	2121	.238	.114	.698	-.004	130	1013	-.314	.095	-.008	-.864
120	2072	.179	.107	.571	-.132	120	2122	.103	.064	.645	-.004	130	1014	-.313	.069	-.072	-.591
120	2073	-.040	.094	.413	-.215	120	2123	.120	.088	.498	-.109	130	1015	-.322	.067	-.067	-.611
120	2074	-.036	.066	.236	-.226	120	2124	.060	.060	.315	-.146	130	1016	-.326	.050	-.174	-.488
120	2075	-.078	.061	.160	-.276	120	2125	-.086	.060	.248	-.287	130	1017	-.319	.049	-.110	-.532
120	2076	-.162	.037	.041	-.316	120	2126	.180	.072	.458	-.029	130	1018	-.334	.045	-.137	-.540
120	2077	-.117	.034	.009	-.244	120	2127	.180	.065	.463	-.047	130	1019	-.366	.068	-.165	-.776
120	2078	-.035	.033	.137	-.151	130	801	-.405	.054	.249	-.653	130	1020	-.358	.094	-.113	-.209
120	2079	.009	.037	.217	-.095	130	802	-.330	.049	.180	-.551	130	1021	-.354	.081	-.133	-.886
120	2080	.026	.037	.234	-.084	130	803	-.311	.050	.148	-.503	130	1022	-.368	.073	-.179	-.763
120	2081	.021	.048	.281	-.159	130	804	-.189	.052	.180	-.669	130	1023	-.375	.082	-.143	-.767
120	2082	.019	.059	.311	-.207	130	805	-.029	.058	.268	-.231	130	1024	-.335	.074	-.139	-.829
120	2083	.061	.073	.367	-.278	130	806	-.035	.075	.241	-.374	130	1025	-.305	.062	-.124	-.553
120	2084	.147	.079	.471	-.111	130	807	-.017	.044	.181	-.157	130	1026	-.299	.051	-.135	-.484
120	2085	.182	.100	.610	-.055	130	901	-.537	.137	.064	-.163	130	1027	-.302	.055	-.121	-.495
120	2086	.189	.099	.606	-.011	130	902	-.257	.130	.254	-.759	130	1028	-.276	.053	-.094	-.465
120	2087	.127	.097	.648	-.151	130	903	-.244	.112	.178	-.652	130	1029	-.279	.052	-.065	-.539
120	2088	.019	.071	.382	-.182	130	905	-.429	.178	.154	-.585	130	1030	-.288	.047	-.093	-.512
120	2088	-.081	.058	.216	-.259	130	906	-.437	.150	-.009	-.649	130	1031	-.343	.045	-.199	-.485
120	2090	-.093	.052	.163	-.297	130	907	-.504	.101	.175	-.992	130	1032	-.322	.044	-.197	-.487
120	2091	.127	.049	.055	-.290	130	908	.630	.124	-.226	-.172	130	1033	-.311	.046	-.185	-.396
120	2092	-.024	.042	.205	-.173	130	909	.576	.108	.236	-.1076	130	1034	-.336	.042	-.223	-.326
120	2093	.042	.052	.247	-.140	130	910	.749	.176	-.251	-.1433	130	1035	-.363	.048	-.221	-.353
120	2094	.064	.044	.255	-.062	130	911	.651	.123	.197	-.1709	130	1036	-.347	.050	-.223	-.354
120	2095	.005	.045	.198	-.102	130	912	.383	.126	.051	-.761	130	1037	-.367	.053	-.231	-.569
120	2096	.131	.087	.444	-.192	130	913	.428	.132	.052	-.081	130	1038	-.382	.053	-.202	-.579
120	2097	.110	.067	.398	-.115	130	914	.544	.146	.136	-.170	130	1039	-.368	.054	-.182	-.582
120	2098	.094	.051	.284	-.057	130	915	.437	.137	.022	-.056	130	1040	-.313	.049	-.132	-.505

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1300	1041	.299	.032	.083	.300	1300	1091	.300	.052	.129	.520	1300	2016	.178	.042	.034	.334
1300	1042	.300	.047	.149	.470	1300	1092	.299	.051	.128	.521	1300	2017	.057	.061	.207	.289
1300	1043	.300	.030	.152	.490	1300	1093	.311	.060	.124	.538	1300	2018	.046	.075	.366	.237
1300	1044	.300	.049	.120	.446	1300	1094	.322	.059	.133	.524	1300	2019	.118	.087	.445	.175
1300	1045	.300	.045	.108	.433	1300	1095	.345	.060	.146	.566	1300	2020	.157	.085	.471	.080
1300	1046	.300	.045	.179	.467	1300	1096	.343	.063	.161	.559	1300	2021	.176	.100	.550	.073
1300	1047	.300	.048	.180	.509	1300	1097	.314	.064	.161	.588	1300	2022	.173	.111	.525	.135
1300	1048	.300	.047	.162	.481	1300	1098	.314	.064	.078	.589	1300	2023	.259	.124	.701	.191
1300	1049	.300	.049	.217	.501	1300	1099	.263	.063	.021	.522	1300	2024	.379	.135	.772	.017
1300	1050	.300	.050	.256	.535	1300	1100	.225	.057	.045	.450	1300	2025	.402	.156	.868	.021
1300	1051	.300	.050	.237	.501	1300	1101	.226	.070	.015	.673	1300	2026	.328	.149	.813	.095
1300	1052	.300	.050	.156	.433	1300	1102	.236	.071	.015	.931	1300	2027	.130	.127	.532	.255
1300	1053	.300	.050	.151	.433	1300	1103	.234	.064	.042	.696	1300	2028	.021	.087	.258	.293
1300	1054	.300	.050	.151	.433	1300	1104	.217	.063	.026	.604	1300	2029	.119	.065	.136	.315
1300	1055	.300	.050	.151	.433	1300	1105	.208	.053	.040	.433	1300	2030	.134	.061	.113	.317
1300	1056	.300	.050	.151	.433	1300	1106	.208	.053	.147	.538	1300	2031	.182	.046	.011	.431
1300	1057	.300	.046	.138	.433	1300	1107	.299	.053	.136	.593	1300	2032	.064	.049	.195	.304
1300	1058	.300	.041	.138	.433	1300	1108	.299	.053	.152	.653	1300	2033	.035	.070	.380	.199
1300	1059	.300	.038	.133	.433	1300	1109	.301	.057	.177	.611	1300	2034	.136	.082	.433	.081
1300	1060	.300	.043	.108	.411	1300	1110	.304	.049	.158	.475	1300	2035	.173	.084	.494	.043
1300	1061	.300	.048	.158	.469	1300	1111	.304	.053	.195	.506	1300	2036	.199	.084	.476	.041
1300	1062	.300	.044	.191	.486	1300	1112	.354	.053	.211	.561	1300	2037	.193	.104	.566	.117
1300	1063	.300	.048	.199	.514	1300	1113	.353	.056	.193	.611	1300	2038	.268	.117	.696	.100
1300	1064	.300	.048	.195	.514	1300	1114	.350	.059	.193	.600	1300	2039	.398	.134	.924	.006
1300	1065	.300	.051	.222	.546	1300	1115	.333	.070	.103	.602	1300	2040	.420	.131	.839	.064
1300	1066	.300	.051	.246	.546	1300	1116	.271	.066	.000	.561	1300	2041	.332	.147	.769	.245
1300	1067	.300	.053	.254	.566	1300	1117	.221	.060	.001	.456	1300	2042	.143	.129	.578	.366
1300	1068	.300	.050	.231	.566	1300	1118	.221	.064	.017	.533	1300	2043	.018	.096	.431	.403
1300	1069	.300	.050	.231	.566	1300	1119	.243	.064	.030	.578	1300	2044	.106	.057	.204	.287
1300	1070	.300	.049	.079	.566	1300	1120	.228	.059	.026	.478	1300	2045	.148	.058	.231	.317
1300	1071	.300	.050	.102	.566	1300	1121	.228	.059	.053	.568	1300	2046	.182	.044	.066	.334
1300	1072	.300	.049	.097	.506	1300	1122	.216	.054	.059	.517	1300	2047	.074	.049	.197	.214
1300	1073	.300	.048	.120	.433	1300	1123	.012	.049	.212	.156	1300	2048	.019	.054	.331	.108
1300	1074	.300	.045	.128	.426	1300	1124	.021	.040	.190	.127	1300	2049	.102	.073	.484	.076
1300	1075	.300	.050	.095	.457	1300	1125	.033	.031	.090	.160	1300	2050	.162	.083	.530	.066
1300	1076	.300	.054	.104	.479	1300	2001	.198	.056	.010	.390	1300	2051	.174	.090	.515	.055
1300	1077	.300	.050	.127	.481	1300	2002	.096	.067	.189	.332	1300	2052	.166	.094	.479	.098
1300	1078	.300	.049	.156	.473	1300	2003	.054	.069	.216	.303	1300	2053	.224	.118	.651	.098
1300	1079	.300	.049	.212	.500	1300	2004	.015	.066	.228	.263	1300	2054	.325	.128	.783	.013
1300	1080	.300	.049	.211	.500	1300	2005	.018	.078	.221	.329	1300	2055	.347	.135	.812	.013
1300	1081	.300	.050	.191	.500	1300	2006	.062	.083	.274	.261	1300	2056	.266	.120	.674	.032
1300	1082	.300	.050	.161	.424	1300	2007	.029	.092	.308	.344	1300	2057	.094	.122	.578	.242
1300	1083	.300	.071	.122	.642	1300	2008	.094	.099	.420	.228	1300	2058	.030	.094	.380	.308
1300	1084	.300	.063	.048	.533	1300	2009	.268	.123	.663	.134	1300	2059	.100	.064	.160	.277
1300	1085	.300	.059	.042	.533	1300	2010	.257	.131	.783	.175	1300	2060	.138	.051	.071	.358
1300	1086	.300	.058	.015	.533	1300	2011	.184	.132	.674	.261	1300	2061	.177	.042	.001	.284
1300	1087	.300	.044	.078	.574	1300	2012	.010	.102	.397	.360	1300	2062	.076	.045	.146	.281
1300	1088	.300	.056	.071	.535	1300	2013	.131	.090	.205	.458	1300	2063	.009	.056	.270	.146
1300	1089	.300	.050	.042	.412	1300	2014	.241	.072	.010	.516	1300	2064	.085	.060	.336	.046
1300	1090	.300	.046	.043	.381	1300	2015	.103	.086	.262	.380	1300	2065	.125	.075	.433	.042

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1300	2066	.161	.084	.510	-.066	1300	2116	-.056	.664	.183	-.316	1400	1008	-.335	.099	-.012	-.903
1300	2067	.151	.094	.609	-.144	1300	2117	.104	.688	.385	-.074	1400	1009	-.322	.094	-.057	-.831
1300	2068	.202	.100	.603	-.165	1300	2118	.238	.690	.585	.055	1400	1010	-.335	.088	-.075	-.737
1300	2069	.270	.123	.798	-.076	1300	2119	.258	.695	.609	.054	1400	1011	-.350	.104	-.063	-.810
1300	2070	.286	.127	.778	-.079	1300	2120	.273	.102	.689	.056	1400	1012	-.331	.101	-.041	-.901
1300	2071	.204	.123	.711	-.121	1300	2121	.218	.116	.775	-.039	1400	1013	-.353	.097	-.045	-.948
1300	2072	.051	.099	.381	-.301	1300	2122	.178	.161	.687	-.059	1400	1014	-.350	.069	-.113	-.721
1300	2073	-.069	.084	.303	-.351	1300	2123	.070	.085	.498	-.132	1400	1015	-.356	.068	-.125	-.640
1300	2074	-.110	.056	.136	-.310	1300	2124	-.036	.053	.268	-.175	1400	1016	-.312	.051	-.157	-.545
1300	2075	-.138	.054	.087	-.343	1300	2125	-.127	.058	.166	-.324	1400	1017	-.311	.049	-.155	-.513
1300	2076	-.156	.037	-.003	-.289	1300	2126	-.166	.067	.409	-.063	1400	1018	-.330	.046	-.193	-.509
1300	2077	-.084	.041	.124	-.245	1300	2127	-.163	.084	.480	-.039	1400	1019	-.355	.063	-.137	-.999
1300	2078	.005	.045	.194	-.163	1400	801	.396	.058	.227	-.599	1400	1020	-.335	.068	-.140	-.725
1300	2079	.069	.049	.321	-.057	1400	802	.313	.052	.146	-.474	1400	1021	-.328	.072	-.130	-.788
1300	2080	.094	.049	.314	-.041	1400	803	.298	.047	.115	-.454	1400	1022	-.348	.069	-.186	-.834
1300	2081	.106	.058	.407	-.088	1400	804	.043	.116	.334	-.520	1400	1023	-.350	.071	-.142	-.798
1300	2082	.112	.066	.411	-.105	1400	805	.050	.072	.336	-.232	1400	1024	-.313	.066	-.090	-.647
1300	2083	.160	.081	.471	-.158	1400	806	.069	.083	.431	-.264	1400	1025	-.318	.071	-.112	-.698
1300	2084	.196	.079	.557	-.101	1400	807	.079	.057	.312	-.110	1400	1026	-.328	.064	-.150	-.718
1300	2085	.183	.098	.636	-.073	1400	901	.454	.156	.233	-.151	1400	1027	-.333	.064	-.156	-.740
1300	2086	.135	.101	.491	-.206	1400	902	.289	.131	.232	-.801	1400	1028	-.302	.061	-.119	-.685
1300	2087	.031	.093	.391	-.272	1400	903	.322	.115	.144	-.786	1400	1029	-.296	.057	-.132	-.668
1300	2088	-.065	.065	.169	-.282	1400	905	.313	.199	.059	-.431	1400	1030	-.309	.052	-.155	-.539
1300	2089	.126	.053	.081	-.346	1400	906	.513	.165	.075	-.323	1400	1031	-.329	.050	-.178	-.525
1300	2090	.136	.049	.054	-.303	1400	907	.316	.099	.204	-.043	1400	1032	-.307	.049	-.171	-.603
1300	2091	.124	.053	.059	-.380	1400	908	.630	.114	.179	-.042	1400	1033	-.304	.049	-.173	-.515
1300	2092	.005	.052	.238	-.170	1400	909	.571	.110	.269	-.946	1400	1034	-.335	.047	-.219	-.525
1300	2093	.091	.066	.419	-.081	1400	910	.693	.192	.054	-.1581	1400	1035	-.357	.051	-.221	-.520
1300	2094	.113	.055	.349	-.033	1400	911	.633	.131	.211	-.1160	1400	1036	-.338	.052	-.180	-.522
1300	2095	.089	.060	.356	-.081	1400	912	.466	.138	.013	-.1009	1400	1037	-.369	.056	-.203	-.584
1300	2096	.229	.089	.641	-.002	1400	913	.476	.142	.221	-.1107	1400	1038	-.385	.054	-.228	-.574
1300	2097	.155	.065	.458	-.037	1400	914	.562	.142	.000	-.1150	1400	1039	-.369	.060	-.137	-.640
1300	2098	.140	.056	.368	-.073	1400	915	.499	.136	.126	-.1075	1400	1040	-.323	.061	-.081	-.649
1300	2099	.149	.060	.363	-.003	1400	916	.394	.153	.003	-.1197	1400	1041	-.303	.050	-.148	-.533
1300	2100	.162	.065	.429	-.025	1400	917	.565	.145	.093	-.1158	1400	1042	-.315	.045	-.181	-.501
1300	2101	.141	.080	.506	-.112	1400	918	.492	.131	.091	-.934	1400	1043	-.314	.048	-.132	-.518
1300	2102	.086	.075	.390	-.134	1400	919	.555	.176	.175	-.1571	1400	1044	-.283	.048	-.112	-.572
1300	2103	.023	.063	.373	-.167	1400	921	.356	.133	.844	-.057	1400	1045	-.285	.051	-.141	-.513
1300	2104	.074	.045	.173	-.206	1400	922	.231	.108	.635	-.023	1400	1046	-.316	.044	-.188	-.457
1300	2105	.112	.047	.146	-.264	1400	923	.140	.083	.455	-.250	1400	1047	-.328	.046	-.185	-.482
1300	2106	.019	.050	.201	-.149	1400	924	.066	.072	.348	-.182	1400	1048	-.309	.045	-.166	-.491
1300	2107	.199	.083	.571	-.080	1400	925	.188	.080	.480	-.042	1400	1049	-.327	.044	-.189	-.501
1300	2108	.006	.048	.180	-.163	1400	926	.057	.038	.180	-.066	1400	1050	-.364	.044	-.242	-.358
1300	2109	.174	.126	.203	-.663	1400	1001	.327	.064	.132	-.591	1400	1051	-.382	.051	-.159	-.587
1300	2110	.149	.058	.372	-.016	1400	1002	.351	.062	.169	-.591	1400	1052	-.365	.057	-.114	-.574
1300	2111	.269	.129	.046	-.005	1400	1003	.374	.091	.118	-.810	1400	1053	-.365	.064	-.061	-.618
1300	2112	.269	.116	.922	-.022	1400	1004	.370	.123	.041	-.1166	1400	1054	-.359	.054	-.146	-.591
1300	2113	.174	.102	.682	-.044	1400	1005	.348	.104	.068	-.1060	1400	1055	-.336	.056	-.123	-.649
1300	2114	.148	.069	.498	-.028	1400	1006	.367	.101	.094	-.1060	1400	1056	-.304	.059	-.114	-.706
1300	2115	.037	.061	.287	-.150	1400	1007	.378	.114	.060	-.1255	1400	1057	-.297	.053	-.128	-.616

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
140	1058	304	.046	.146	.499	140	11089	.288	.051	.142	.453	140	2033	.110	.092	.553	.177
140	1059	304	.051	.108	.453	140	11090	.319	.060	.151	.550	140	2034	.212	.103	.673	.047
140	1060	272	.049	.086	.480	140	11100	.284	.052	.110	.471	140	2035	.280	.110	.639	.015
140	1061	294	.051	.125	.486	140	11111	.312	.056	.141	.573	140	2036	.312	.108	.687	.054
140	1062	3318	.047	.176	.476	140	11112	.330	.061	.163	.547	140	2037	.325	.128	.825	.006
140	1063	3333	.051	.180	.444	140	11113	.319	.048	.138	.495	140	2038	.380	.143	.923	.050
140	1064	3333	.052	.178	.444	140	11114	.310	.051	.119	.487	140	2039	.412	.153	.947	.017
140	1065	354	.054	.199	.678	140	11115	.284	.059	.075	.474	140	2040	.347	.137	.762	.230
140	1066	3378	.055	.226	.676	140	11116	.237	.055	.029	.498	140	2041	.186	.137	.737	.068
140	1067	3393	.056	.235	.616	140	11117	.241	.065	.033	.573	140	2042	.042	.122	.437	.491
140	1068	3346	.069	.311	.626	140	11118	.255	.067	.066	.598	140	2043	.158	.091	.179	.483
140	1069	3300	.082	.047	.524	140	11119	.268	.076	.080	.775	140	2044	.182	.051	.030	.326
140	1070	3303	.055	.092	.633	140	11120	.248	.070	.055	.656	140	2045	.203	.051	.084	.360
140	1071	3303	.061	.106	.633	140	11121	.233	.065	.030	.550	140	2046	.159	.051	.011	.368
140	1072	280	.055	.123	.494	140	11122	.248	.061	.043	.507	140	2047	.031	.063	.348	.269
140	1073	280	.051	.123	.494	140	11123	.248	.062	.296	.202	140	2048	.083	.071	.334	.161
140	1074	271	.046	.139	.461	140	11124	.248	.062	.296	.115	140	2049	.184	.094	.500	.044
140	1075	273	.051	.104	.461	140	11125	.248	.066	.269	.197	140	2050	.246	.105	.619	.006
140	1076	277	.054	.102	.498	140	20001	.181	.064	.080	.448	140	2051	.289	.110	.693	.037
140	1077	292	.051	.135	.477	140	20002	.066	.080	.301	.382	140	2052	.289	.107	.667	.015
140	1078	298	.046	.161	.475	140	20003	.031	.089	.327	.315	140	2053	.342	.128	.822	.011
140	1079	3339	.050	.176	.288	140	20004	.016	.083	.491	.205	140	2054	.355	.133	.821	.033
140	1080	346	.052	.213	.900	140	20005	.040	.097	.380	.275	140	2055	.301	.137	.771	.138
140	1081	344	.057	.156	.568	140	20006	.068	.103	.473	.229	140	2056	.141	.109	.533	.280
140	1082	344	.061	.112	.589	140	20007	.076	.106	.434	.283	140	2057	.076	.111	.331	.468
140	1083	323	.067	.061	.589	140	20008	.178	.111	.501	.195	140	2058	.171	.085	.103	.494
140	1084	272	.058	.026	.486	140	20009	.228	.137	.714	.192	140	2059	.182	.054	.041	.396
140	1085	256	.062	.040	.599	140	2010	.199	.138	.700	.253	140	2060	.201	.045	.034	.335
140	1086	264	.069	.066	.666	140	2011	.066	.118	.621	.324	140	2061	.158	.053	.047	.410
140	1087	271	.072	.103	.897	140	20110	.138	.093	.214	.507	140	2062	.034	.062	.246	.266
140	1088	243	.062	.073	.724	140	20111	.138	.093	.214	.507	140	2063	.063	.072	.487	.227
140	1089	233	.059	.071	.516	140	20112	.249	.088	.054	.601	140	2064	.150	.081	.378	.044
140	1090	223	.054	.073	.482	140	20113	.299	.076	.010	.620	140	2065	.203	.101	.640	.025
140	1091	297	.051	.101	.481	140	20114	.145	.079	.193	.438	140	2066	.240	.111	.693	.011
140	1092	293	.050	.121	.465	140	20115	.162	.053	.061	.401	140	2067	.254	.106	.632	.030
140	1093	300	.051	.128	.630	140	20116	.009	.078	.308	.300	140	2068	.291	.108	.678	.011
140	1094	3316	.050	.145	.530	140	20117	.106	.093	.525	.194	140	2069	.295	.128	.741	.004
140	1095	3321	.054	.167	.530	140	20118	.184	.104	.564	.131	140	2070	.229	.129	.673	.147
140	1096	3321	.059	.132	.531	140	2020	.227	.100	.544	.068	140	2071	.079	.121	.550	.344
140	1097	3321	.069	.117	.632	140	2021	.260	.117	.613	.054	140	2072	.094	.098	.241	.438
140	1098	295	.064	.043	.533	140	2022	.374	.125	.657	.114	140	2073	.175	.081	.141	.492
140	1099	255	.069	.061	.533	140	2023	.428	.149	.795	.019	140	2074	.172	.052	.054	.341
140	1100	237	.067	.084	.506	140	2024	.380	.162	.956	.077	140	2075	.190	.049	.010	.368
140	1101	241	.070	.029	.723	140	2025	.225	.145	.801	.198	140	2076	.150	.046	.009	.340
140	1102	250	.063	.084	.994	140	2026	.026	.117	.371	.468	140	2077	.051	.051	.148	.254
140	1103	245	.065	.063	.994	140	2027	.152	.080	.128	.445	140	2078	.049	.055	.321	.110
140	1104	227	.063	.048	.669	140	2028	.194	.057	.014	.387	140	2079	.122	.064	.431	.086
140	1105	225	.062	.071	.669	140	2029	.198	.055	.026	.382	140	2080	.154	.063	.463	.039
140	1106	278	.049	.151	.443	140	2030	.158	.056	.046	.391	140	2081	.168	.071	.471	.025
140	1107	298	.052	.143	.472	140	2031	.010	.065	.222	.213	140	2082	.174	.075	.493	.018

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	2083	.193	.088	.637	-.107	150	806	.128	.089	.505	-.170	150	1025	-.298	.067	-.082	-.609
140	2084	.176	.082	.492	-.048	150	807	.135	.075	.538	-.052	150	1026	-.320	.058	-.106	-.574
140	2085	.112	.092	.464	-.148	150	901	-.344	.144	.282	-.954	150	1027	-.319	.060	-.108	-.677
140	2086	.022	.097	.489	-.292	150	902	-.257	.125	.338	-.687	150	1028	-.284	.057	-.095	-.517
140	2087	-.093	.094	.250	-.424	150	903	-.305	.168	.115	-.726	150	1029	-.289	.037	-.109	-.499
140	2088	-.156	.062	.088	-.390	150	905	-.481	.172	-.043	-1.309	150	1030	-.309	.051	-.143	-.484
140	2089	-.172	.047	.045	-.345	150	906	-.507	.169	-.088	-1.482	150	1031	-.298	.048	-.135	-.537
140	2090	-.178	.044	.016	-.336	150	907	-.457	.096	-.129	-.966	150	1032	-.274	.047	-.137	-.533
140	2091	-.110	.059	.107	-.365	150	908	-.502	.118	-.161	-1.023	150	1033	-.275	.042	-.156	-.433
140	2092	-.047	.058	.269	-.123	150	909	-.511	.123	-.130	-1.110	150	1034	-.312	.042	-.193	-.463
140	2093	.148	.075	.411	-.066	150	910	-.558	.199	-.033	-1.597	150	1035	-.331	.048	-.181	-.508
140	2094	.164	.065	.408	-.026	150	911	-.529	.137	-.103	-1.088	150	1036	-.309	.050	-.153	-.487
140	2095	.174	.079	.449	-.051	150	912	-.406	.131	-.062	-1.006	150	1037	-.314	.050	-.167	-.506
140	2096	.291	.096	.661	-.071	150	913	-.467	.142	-.152	-1.179	150	1038	-.335	.049	-.136	-.518
140	2097	.175	.066	.428	-.035	150	914	-.516	.135	-.040	-.985	150	1039	-.335	.058	-.136	-.508
140	2098	.161	.061	.399	-.079	150	915	-.479	.135	-.103	-.985	150	1040	-.308	.061	-.127	-.545
140	2099	.158	.062	.428	-.025	150	916	-.493	.130	-.001	-1.133	150	1041	-.309	.060	-.124	-.533
140	2100	.148	.063	.367	-.051	150	917	-.535	.146	-.106	-1.079	150	1042	-.321	.050	-.184	-.533
140	21101	.106	.078	.454	-.165	150	918	-.522	.128	-.249	-.861	150	1043	-.314	.054	-.182	-.528
140	21102	.034	.076	.387	-.239	150	919	-.559	.174	-.101	-1.807	150	1044	-.278	.052	-.081	-.580
140	21103	.047	.060	.222	-.278	150	921	-.355	.131	-.924	-.045	150	1045	-.272	.053	-.127	-.522
140	21104	.110	.042	.052	-.278	150	922	-.268	.108	-.939	-.051	150	1046	-.278	.042	-.166	-.533
140	21105	.133	.047	.064	-.328	150	923	-.190	.079	-.487	-.066	150	1047	-.286	.045	-.164	-.488
140	21106	.082	.061	.295	-.103	150	924	-.145	.074	-.453	-.093	150	1048	-.265	.044	-.139	-.433
140	21107	.168	.077	.506	-.077	150	925	-.205	.082	-.564	-.007	150	1049	-.303	.045	-.173	-.533
140	21108	.100	.063	.321	-.080	150	926	-.076	.046	-.251	-.098	150	1050	-.341	.047	-.187	-.533
140	21109	.001	.130	.376	-.487	150	1001	-.262	.058	-.075	-.477	150	1051	-.349	.053	-.162	-.560
140	21110	.187	.069	.557	-.011	150	1002	-.289	.057	-.106	-.512	150	1052	-.323	.056	-.113	-.552
140	21111	.319	.134	.941	-.016	150	1003	-.267	.086	-.068	-1.076	150	1053	-.303	.056	-.089	-.552
140	21112	.307	.119	.874	-.003	150	1004	-.286	.088	-.014	-.796	150	1054	-.312	.053	-.106	-.542
140	21113	.237	.118	.748	-.049	150	1005	-.309	.094	-.046	-.955	150	1055	-.324	.065	-.122	-.584
140	21114	.230	.112	.895	-.016	150	1006	-.327	.091	-.043	-.821	150	1056	-.303	.066	-.083	-.741
140	21115	.120	.071	.372	-.089	150	1007	-.338	.103	-.043	-1.086	150	1057	-.287	.066	-.120	-.668
140	21116	.045	.077	.290	-.311	150	1008	-.308	.099	-.046	-.725	150	1058	-.291	.057	-.131	-.689
140	21117	.153	.089	.533	-.037	150	1009	-.309	.096	-.044	-1.457	150	1059	-.297	.060	-.101	-.674
140	21118	.259	.097	.649	-.057	150	1010	-.336	.090	-.027	-1.234	150	1060	-.257	.058	-.074	-.631
140	21119	.257	.088	.639	-.028	150	1011	-.351	.106	-.068	-.924	150	1061	-.248	.045	-.093	-.428
140	21200	.237	.093	.626	-.027	150	1012	-.329	.097	-.042	-.785	150	1062	-.276	.042	-.157	-.417
140	21201	.153	.101	.528	-.079	150	1013	-.337	.091	-.012	-.830	150	1063	-.289	.044	-.169	-.468
140	21202	.110	.089	.497	-.104	150	1014	-.344	.069	-.110	-.655	150	1064	-.285	.045	-.134	-.462
140	21203	.000	.076	.396	-.246	150	1015	-.347	.069	-.118	-.634	150	1065	-.295	.047	-.127	-.493
140	21204	-.082	.050	.127	-.233	150	1016	-.348	.051	-.102	-.457	150	1066	-.317	.048	-.113	-.491
140	21205	.167	.055	.051	-.349	150	1017	-.250	.050	-.102	-.488	150	1067	-.322	.055	-.054	-.534
140	21206	.141	.073	.421	-.148	150	1018	-.296	.048	-.089	-.530	150	1068	-.274	.054	-.005	-.478
140	21207	.127	.094	.456	-.217	150	1019	-.312	.060	-.039	-.534	150	1069	-.259	.054	-.008	-.453
150	801	-.282	.056	-.114	-.566	150	1020	-.291	.067	-.090	-1.249	150	1070	-.288	.054	-.092	-.453
150	802	-.263	.050	-.108	-.502	150	1021	-.295	.067	-.024	-.569	150	1071	-.303	.064	-.134	-.593
150	803	-.243	.047	-.063	-.419	150	1022	-.324	.063	-.078	-.572	150	1072	-.265	.056	-.100	-.507
150	804	.067	.102	.348	-.282	150	1023	-.335	.072	-.075	-.666	150	1073	-.258	.055	-.084	-.560
150	805	.128	.072	.500	-.067	150	1024	-.303	.070	-.086	-.693	150	1074	-.270	.050	-.071	-.567

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1500	1075	269	055	045	390	150	1125	034	053	240	254	150	2050	306	116	722	028
1500	1076	232	049	072	386	150	2001	128	075	146	402	150	2051	315	120	731	018
1500	1077	238	047	098	465	150	2002	004	098	335	334	150	2052	325	115	702	045
1500	1078	248	043	107	449	150	2003	052	104	466	280	150	2053	293	148	826	065
1500	1079	278	047	149	485	150	2004	098	099	433	219	150	2054	310	141	760	089
1500	1080	276	050	129	471	150	2005	110	113	539	362	150	2055	170	125	602	310
1500	1081	279	056	086	499	150	2006	141	118	599	233	150	2056	030	107	434	472
1500	1082	276	056	084	495	150	2007	156	120	545	217	150	2057	030	107	250	815
1500	1083	256	059	016	485	150	2008	229	121	678	098	150	2058	269	086	440	384
1500	1084	237	055	007	471	150	2009	218	132	630	309	150	2059	207	049	019	450
1500	1085	282	073	014	659	150	2010	130	121	571	303	150	2060	208	040	038	366
1500	1086	286	079	107	974	150	2011	031	112	362	456	150	2061	211	064	153	500
1500	1087	277	071	091	841	150	2012	228	085	036	543	150	2062	006	071	429	241
1500	1088	247	065	049	665	150	2013	298	075	084	632	150	2063	107	080	461	113
1500	1089	231	064	041	531	150	2014	279	067	002	529	150	2064	189	080	533	007
1500	1090	227	059	056	501	150	2015	193	065	031	407	150	2065	170	105	605	062
1500	1091	242	054	088	453	150	2016	113	064	132	325	150	2066	262	105	767	026
1500	1092	238	053	087	434	150	2017	065	099	409	221	150	2067	271	113	722	026
1500	1093	251	049	136	463	150	2018	190	117	589	147	150	2068	283	105	744	035
1500	1094	271	049	118	451	150	2019	263	131	797	141	150	2069	174	129	772	254
1500	1095	267	052	123	471	150	2020	307	127	779	010	150	2070	127	120	560	303
1500	1096	253	056	047	467	150	2021	338	142	920	025	150	2071	044	116	348	441
1500	1097	252	053	037	472	150	2022	360	145	927	024	150	2072	230	098	087	641
1500	1098	230	050	020	403	150	2023	412	150	946	030	150	2073	368	083	101	776
1500	1099	223	063	002	497	150	2024	380	138	882	020	150	2074	205	049	058	591
1500	1100	233	077	000	702	150	2025	255	139	737	149	150	2075	202	044	026	363
1500	1101	254	074	030	673	150	2026	051	123	463	408	150	2076	125	049	096	340
1500	1102	234	064	091	715	150	2027	192	107	182	531	150	2077	101	065	263	387
1500	1103	248	069	070	773	150	2028	256	072	006	499	150	2078	085	067	381	170
1500	1104	228	067	054	590	150	2029	229	049	053	413	150	2079	154	070	454	049
1500	1105	235	072	014	587	150	2030	220	047	066	383	150	2080	184	066	427	010
1500	1106	256	050	114	421	150	2031	111	065	163	344	150	2081	122	080	449	111
1500	1107	262	053	102	437	150	2032	058	077	406	150	2082	186	075	529	079	
1500	1108	262	052	103	439	150	2033	122	117	657	272	150	2083	172	081	493	044
1500	1109	276	057	127	497	150	2034	294	119	724	003	150	2084	125	080	479	096
1500	1110	241	048	047	394	150	2035	343	127	823	014	150	2085	040	100	385	323
1500	1111	261	051	109	446	150	2036	374	123	836	040	150	2086	066	093	305	370
1500	1112	273	057	105	441	150	2037	339	154	961	045	150	2087	177	090	173	573
1500	1113	272	052	064	454	150	2038	410	153	972	002	150	2088	197	060	014	509
1500	1114	256	052	036	437	150	2039	373	153	927	074	150	2089	268	051	096	495
1500	1115	231	055	002	420	150	2040	243	127	681	180	150	2090	168	045	029	360
1500	1116	211	056	019	429	150	2041	041	143	447	534	150	2091	098	061	129	323
1500	1117	246	075	039	555	150	2042	194	122	169	687	150	2092	067	060	338	117
1500	1118	267	076	065	687	150	2043	254	085	050	584	150	2093	101	085	439	111
1500	1119	268	083	067	787	150	2044	215	045	065	375	150	2094	188	072	488	002
1500	1120	248	079	047	709	150	2045	319	050	167	485	150	2095	204	075	514	006
1500	1121	233	074	048	749	150	2046	122	060	114	377	150	2096	299	095	688	066
1500	1122	236	068	056	706	150	2047	026	078	366	247	150	2097	102	071	457	132
1500	1123	114	067	356	246	150	2048	148	084	533	098	150	2098	143	055	371	017
1500	1124	105	058	350	162	150	2049	186	115	646	106	150	2099	131	062	426	116

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	2100	.095	.059	.343	-.124	160	917	-.498	.143	-.070	-1.146	160	1042	-.308	.069	-.117	-.711
150	2101	.049	.074	.280	-.323	160	918	-.268	.128	-.267	-.800	160	1043	-.301	.078	-.080	-.881
150	2102	.044	.067	.236	-.313	160	919	-.565	.191	-.106	-1.771	160	1044	-.261	.072	-.046	-.856
150	2103	.078	.050	.147	-.270	160	921	.312	.125	1.017	.012	160	1045	-.257	.066	-.024	-.617
150	2104	.113	.036	.040	-.246	160	922	.266	.104	.686	.001	160	1046	-.232	.035	-.112	-.373
150	2105	.221	.043	-.019	-.354	160	923	.186	.078	.491	-.115	160	1047	-.237	.038	-.112	-.369
150	2106	.115	.060	.324	-.115	160	924	.145	.071	.421	-.133	160	1048	-.215	.036	-.099	-.345
150	2107	.148	.078	.441	-.125	160	925	.189	.080	.535	-.044	160	1049	-.240	.039	-.113	-.386
150	2108	.137	.062	.393	-.042	160	926	.068	.031	.280	-.111	160	1050	-.272	.038	-.124	-.437
150	2109	.104	.122	.404	-.526	160	1001	-.220	.035	-.010	-.448	160	1051	-.277	.043	-.119	-.460
150	2110	.185	.070	.446	-.040	160	1002	-.245	.054	-.055	-.453	160	1052	-.249	.044	-.085	-.429
150	2111	.301	.133	.943	-.024	160	1003	-.259	.074	-.015	-.746	160	1053	-.243	.042	-.059	-.435
150	2112	.294	.116	.964	-.014	160	1004	-.238	.082	.016	-.774	160	1054	-.286	.047	-.126	-.527
150	2113	.261	.112	.693	-.011	160	1005	-.246	.086	.643	-.657	160	1055	-.309	.062	-.126	-.595
150	2114	.255	.112	.685	-.002	160	1006	-.281	.080	-.043	-.732	160	1056	-.277	.063	-.074	-.632
150	2115	.158	.065	.393	-.033	160	1007	-.292	.087	.020	-.616	160	1057	-.270	.068	-.010	-.799
150	2116	.125	.072	.351	-.127	160	1008	-.269	.094	.027	-.716	160	1058	-.285	.062	-.034	-.649
150	2117	.202	.079	.564	-.011	160	1009	-.284	.104	.027	-.897	160	1059	-.277	.065	-.004	-.725
150	2118	.249	.094	.607	-.029	160	1010	-.222	.110	.053	-.1348	160	1060	-.240	.062	-.027	-.661
150	2119	.208	.086	.567	-.029	160	1011	-.335	.124	.003	-1.268	160	1061	-.203	.040	-.044	-.388
150	2120	.162	.085	.581	-.037	160	1012	-.307	.118	.069	-.898	160	1062	-.232	.037	-.115	-.373
150	2121	.097	.089	.498	-.126	160	1013	-.334	.121	.161	-1.146	160	1063	-.242	.039	-.096	-.385
150	2122	.028	.080	.351	-.163	160	1014	-.353	.090	-.087	-.821	160	1064	-.224	.038	-.108	-.349
150	2123	.076	.063	.196	-.292	160	1015	-.351	.084	-.108	-.786	160	1065	-.227	.044	-.050	-.526
150	2124	.108	.040	.054	-.249	160	1016	-.206	.047	-.058	-.416	160	1066	-.251	.041	-.087	-.501
150	2125	.151	.047	.046	-.373	160	1017	-.215	.046	.024	-.377	160	1067	-.254	.045	-.089	-.432
150	2126	.119	.068	.355	-.185	160	1018	-.243	.043	-.085	-.400	160	1068	-.223	.046	-.071	-.432
150	2127	.130	.081	.432	-.274	160	1019	-.253	.053	-.059	-.460	160	1069	-.247	.060	-.053	-.602
160	801	.212	.044	-.076	-.385	160	1020	-.234	.058	-.003	-.462	160	1070	-.299	.067	-.110	-.626
160	802	.198	.040	-.082	-.340	160	1021	-.251	.063	.016	-.566	160	1071	-.307	.075	-.124	-.676
160	803	.192	.038	-.077	-.331	160	1022	-.285	.059	-.039	-.552	160	1072	-.253	.069	-.076	-.599
160	804	.112	.068	.305	-.163	160	1023	-.301	.069	-.061	-.597	160	1073	-.247	.069	-.039	-.753
160	805	.123	.062	.385	-.048	160	1024	-.278	.073	.032	-.639	160	1074	-.261	.061	-.076	-.635
160	806	.156	.069	.480	-.104	160	1025	-.287	.078	-.026	-.659	160	1075	-.258	.066	-.050	-.599
160	807	.134	.058	.402	-.022	160	1026	-.314	.074	-.087	-.665	160	1076	-.187	.045	-.046	-.538
160	901	.233	.151	.471	-.850	160	1027	-.313	.082	-.084	-.762	160	1077	-.191	.041	-.050	-.538
160	902	.214	.146	.413	-.860	160	1028	-.279	.083	-.046	-.684	160	1078	-.200	.037	-.069	-.555
160	903	.278	.121	.187	-.812	160	1029	-.281	.076	-.004	-.715	160	1079	-.222	.042	-.087	-.389
160	905	.485	.196	-.215	-1.313	160	1030	-.305	.065	-.076	-.683	160	1080	-.213	.043	-.088	-.397
160	906	.533	.203	-.109	-1.567	160	1031	-.250	.044	-.119	-.390	160	1081	-.212	.046	-.012	-.438
160	907	.464	.104	-.163	-.1029	160	1032	-.221	.043	-.097	-.354	160	1082	-.209	.045	-.003	-.437
160	908	.488	.121	-.145	-.1104	160	1033	-.222	.040	-.099	-.399	160	1083	-.217	.053	-.025	-.418
160	909	.496	.135	-.063	-.1261	160	1034	-.222	.039	-.126	-.437	160	1084	-.237	.064	-.060	-.558
160	910	.478	.214	-.232	-.1860	160	1035	-.273	.043	-.154	-.448	160	1085	-.270	.086	-.054	-.888
160	911	.503	.140	.017	-.1069	160	1036	-.249	.043	-.104	-.434	160	1086	-.279	.083	-.083	-.802
160	912	.390	.136	.192	-.913	160	1037	-.263	.050	-.082	-.475	160	1087	-.267	.082	-.057	-.901
160	913	.473	.153	.041	-.1129	160	1038	-.298	.051	-.124	-.499	160	1088	-.239	.075	-.017	-.764
160	914	.499	.139	-.022	-.1235	160	1039	-.316	.063	-.138	-.611	160	1089	-.221	.061	-.054	-.480
160	915	.450	.130	.054	-.1006	160	1040	-.293	.068	-.083	-.636	160	1090	-.215	.056	-.058	-.446
160	916	.483	.146	.001	-.146	160	1041	-.297	.078	-.113	-.728	160	1091	-.202	.050	-.071	-.425

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	1092	.199	.048	.067	.420	160	2017	.077	.110	.561	.292	160	2067	.305	.127	.794	.051
160	1093	.203	.042	.090	.346	160	2018	.192	.124	.687	.169	160	2068	.284	.120	.704	.110
160	1094	.216	.042	.117	.339	160	2019	.235	.136	.793	.101	160	2069	.098	.123	.528	.302
160	1095	.208	.045	.064	.375	160	2020	.329	.130	818	.024	160	2070	.005	.108	.397	.379
160	1096	.189	.047	.062	.353	160	2021	.363	.144	.869	.037	160	2071	.193	.107	.136	.374
160	1097	.192	.052	.019	.413	160	2022	.385	.147	.896	.023	160	2072	.343	.096	.082	.723
160	1098	.189	.055	.012	.457	160	2023	.390	.149	.862	.001	160	2073	.391	.080	.184	.746
160	1099	.221	.071	.058	.563	160	2024	.295	.126	.666	.056	160	2074	.210	.045	.077	.474
160	1100	.247	.079	.017	.708	160	2025	.114	.122	.515	.269	160	2075	.197	.040	.072	.394
160	1101	.255	.076	.048	.699	160	2026	.110	.107	.230	.425	160	2076	.109	.046	.061	.299
160	1102	.241	.065	.051	.752	160	2027	.327	.111	.024	.685	160	2077	.070	.056	.172	.257
160	1103	.236	.068	.028	.609	160	2028	.325	.076	.103	.600	160	2078	.099	.065	.402	.060
160	1104	.221	.066	.023	.561	160	2029	.235	.051	.085	.476	160	2079	.159	.070	.504	.079
160	1105	.222	.070	.056	.567	160	2030	.210	.049	.044	.395	160	2080	.198	.070	.545	.003
160	1106	.193	.039	.081	.353	160	2031	.103	.079	.403	.466	160	2081	.133	.082	.480	.074
160	1107	.201	.042	.076	.382	160	2032	.057	.077	.466	.215	160	2082	.193	.085	.373	.100
160	1108	.199	.040	.072	.360	160	2033	.169	.100	.677	.157	160	2083	.166	.102	.716	.104
160	1109	.222	.044	.083	.400	160	2034	.275	.110	.878	.015	160	2084	.069	.087	.442	.199
160	1110	.194	.037	.081	.344	160	2035	.346	.120	.799	.041	160	2085	.134	.087	.253	.342
160	1111	.208	.039	.094	.363	160	2036	.395	.113	.802	.110	160	2086	.197	.088	.145	.312
160	1112	.209	.042	.065	.381	160	2037	.408	.134	.841	.020	160	2087	.304	.087	.035	.632
160	1113	.205	.046	.023	.382	160	2038	.420	.138	.885	.122	160	2088	.268	.060	.100	.326
160	1114	.192	.044	.008	.375	160	2039	.293	.140	.801	.272	160	2089	.258	.042	.098	.449
160	1115	.198	.054	.007	.510	160	2040	.097	.111	.482	.273	160	2090	.171	.038	.024	.300
160	1116	.219	.066	.009	.526	160	2041	.159	.117	.260	.601	160	2091	.086	.056	.207	.346
160	1117	.239	.071	.048	.719	160	2042	.359	.115	.031	.884	160	2092	.081	.057	.336	.100
160	1118	.246	.068	.047	.883	160	2043	.339	.079	.070	.613	160	2093	.107	.074	.454	.093
160	1119	.245	.078	.016	1.127	160	2044	.219	.039	.091	.482	160	2094	.199	.070	.466	.009
160	1120	.228	.076	.037	.992	160	2045	.245	.039	.091	.430	160	2095	.209	.081	.380	.041
160	1121	.233	.076	.028	.721	160	2046	.106	.062	.247	.334	160	2096	.296	.103	.674	.077
160	1122	.229	.069	.047	.577	160	2047	.038	.076	.375	.228	160	2097	.090	.072	.397	.096
160	1123	.094	.064	.379	.224	160	2048	.161	.079	.496	.032	160	2098	.098	.054	.369	.060
160	1124	.086	.056	.326	.120	160	2049	.240	.111	.713	.055	160	2099	.054	.062	.347	.169
160	1125	.044	.047	.265	.148	160	2050	.331	.125	.804	.021	160	2100	.009	.056	.232	.222
160	2001	.110	.109	.317	.490	160	2051	.330	.127	.870	.030	160	2101	.130	.060	.096	.378
160	2002	.011	.127	.613	.418	160	2052	.342	.121	.814	.059	160	2102	.127	.056	.109	.435
160	2003	.065	.133	.574	.335	160	2053	.295	.144	.862	.060	160	2103	.140	.048	.041	.344
160	2004	.116	.118	.534	.271	160	2054	.227	.130	.764	.131	160	2104	.132	.034	.012	.285
160	2005	.136	.125	.550	.255	160	2055	.062	.114	.539	.293	160	2105	.212	.039	.070	.383
160	2006	.172	.129	.684	.249	160	2056	.175	.101	.190	.496	160	2106	.094	.063	.350	.191
160	2007	.191	.128	.737	.293	160	2057	.439	.117	.032	.843	160	2107	.106	.080	.473	.200
160	2008	.231	.122	.716	.153	160	2058	.439	.086	.093	.695	160	2108	.121	.052	.343	.045
160	2009	.166	.125	.642	.274	160	2059	.218	.046	.086	.459	160	2109	.135	.081	.432	.216
160	2010	.038	.112	.486	.342	160	2060	.198	.036	.079	.358	160	2110	.143	.071	.447	.174
160	2011	.146	.090	.220	.440	160	2061	.178	.060	.070	.437	160	2111	.297	.124	.798	.031
160	2012	.329	.084	.037	.632	160	2062	.011	.064	.340	.272	160	2112	.286	.109	.723	.057
160	2013	.351	.083	.101	.692	160	2063	.123	.076	.435	.067	160	2113	.255	.101	.675	.027
160	2014	.260	.075	.025	.577	160	2064	.215	.082	.498	.005	160	2114	.268	.104	.783	.036
160	2015	.203	.059	.017	.438	160	2065	.202	.106	.601	.063	160	2115	.150	.055	.418	.001
160	2016	.090	.079	.251	.364	160	2066	.301	.115	.731	.033	160	2116	.140	.053	.347	.037

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
160	21117	.172	.072	.491	-.034	170	1009	-.230	.092	.123	-.932	170	1059	-.302	.124	-.024	-1.030
160	21118	.221	.100	.705	-.003	170	1010	-.271	.096	.056	-1.018	170	1060	-.259	.112	-.028	-.899
160	21119	.153	.085	.608	-.123	170	1011	-.289	.119	.109	-1.156	170	1061	-.167	.041	-.033	-.408
160	21200	.085	.069	.390	-.165	170	1012	-.277	.130	.107	-.945	170	1062	-.197	.037	-.094	-.411
160	21221	-.013	.067	.343	-.239	170	1013	-.343	.153	.170	-1.519	170	1063	-.206	.040	-.101	-.416
160	21222	-.041	.056	.263	-.233	170	1014	-.382	.125	-.055	-1.014	170	1064	-.180	.040	-.078	-.388
160	21223	-.106	.051	.129	-.269	170	1015	-.369	.123	-.085	-.965	170	1065	-.180	.037	-.068	-.339
160	21224	-.114	.034	.024	-.236	170	1016	-.178	.052	-.042	-.434	170	1066	-.209	.033	-.085	-.330
160	21225	-.141	.040	.001	-.298	170	1017	-.174	.044	-.037	-.361	170	1067	-.220	.042	-.043	-.460
160	21226	-.090	.071	.376	-.281	170	1018	-.203	.039	-.083	-.376	170	1068	-.209	.056	-.019	-.353
160	21227	-.105	.086	.435	-.338	170	1019	-.210	.043	-.075	-.451	170	1069	-.235	.068	-.044	-.395
170	801	-.166	.033	-.051	-.305	170	1020	-.184	.043	-.046	-.358	170	1070	-.279	.077	-.074	-.660
170	802	-.153	.031	-.061	-.275	170	1021	-.198	.046	-.059	-.464	170	1071	-.280	.097	-.023	-.703
170	803	-.157	.037	-.027	-.316	170	1022	-.235	.048	-.099	-.510	170	1072	-.249	.115	-.107	-.833
170	804	-.048	.048	.245	-.209	170	1023	-.256	.067	-.047	-.638	170	1073	-.269	.141	-.058	-.168
170	805	-.049	.053	.277	-.203	170	1024	-.235	.078	-.009	-.622	170	1074	-.294	.123	-.039	-.1057
170	806	-.142	.066	.453	-.099	170	1025	-.240	.082	-.027	-.648	170	1075	-.289	.125	-.015	-.109
170	807	-.091	.056	.364	-.132	170	1026	-.277	.087	-.016	-.986	170	1076	-.148	.039	-.025	-.356
170	901	-.089	.132	.370	-.808	170	1027	-.298	.114	-.200	-.979	170	1077	-.159	.041	-.016	-.322
170	902	-.068	.129	.442	-.610	170	1028	-.287	.122	-.112	-.929	170	1078	-.164	.037	-.033	-.318
170	903	-.150	.099	.243	-.649	170	1029	-.292	.121	-.003	-.961	170	1079	-.180	.042	-.065	-.371
170	905	-.404	.169	.150	-.394	170	1030	-.314	.103	-.069	-.877	170	1080	-.167	.038	-.042	-.367
170	906	-.431	.176	.031	-.006	170	1031	-.206	.045	-.060	-.442	170	1081	-.171	.039	-.023	-.333
170	907	-.424	.116	-.128	.951	170	1032	-.176	.043	-.012	-.363	170	1082	-.179	.040	-.038	-.332
170	908	-.457	.156	-.011	.841	170	1033	-.180	.038	-.084	-.319	170	1083	-.213	.060	-.005	-.468
170	909	-.421	.175	-.079	.441	170	1034	-.216	.036	-.129	-.381	170	1084	-.239	.077	-.003	-.639
170	910	-.178	.161	-.219	.879	170	1035	-.221	.037	-.115	-.383	170	1085	-.258	.086	-.030	-.708
170	911	-.200	.122	-.174	.913	170	1036	-.195	.037	-.037	-.333	170	1086	-.256	.087	-.013	-.677
170	912	-.213	.116	.251	.699	170	1037	-.207	.042	-.062	-.375	170	1087	-.268	.117	-.021	-.966
170	913	-.357	.147	.183	-.010	170	1038	-.234	.049	-.111	-.473	170	1088	-.267	.130	-.041	-.189
170	914	-.391	.168	.268	-.277	170	1039	-.273	.067	-.073	-.617	170	1089	-.267	.136	-.123	-.721
170	915	-.257	.119	.191	-.885	170	1040	-.245	.075	-.037	-.603	170	1090	-.258	.117	-.058	-.1268
170	916	-.360	.170	.236	-.184	170	1041	-.256	.089	-.006	-.701	170	1091	-.156	.040	-.037	-.324
170	917	-.319	.173	.370	-.135	170	1042	-.298	.104	-.039	-1.007	170	1092	-.152	.039	-.040	-.323
170	918	-.102	.119	.323	.751	170	1043	-.315	.135	.088	-1.175	170	1093	-.162	.042	-.012	-.382
170	919	-.458	.155	-.097	.492	170	1044	-.274	.121	.114	-1.122	170	1094	-.167	.043	-.035	-.451
170	921	-.142	.081	.584	-.045	170	1045	-.270	.117	.016	-1.066	170	1095	-.164	.039	-.007	-.354
170	922	-.208	.101	.787	-.319	170	1046	-.198	.038	-.060	-.358	170	1096	-.155	.042	-.109	-.305
170	923	-.127	.068	.424	-.155	170	1047	-.202	.040	-.073	-.367	170	1097	-.164	.044	-.019	-.391
170	924	-.108	.061	.441	-.135	170	1048	-.175	.039	-.065	-.331	170	1098	-.186	.055	-.017	-.460
170	925	-.122	.072	.425	-.109	170	1049	-.188	.044	-.028	-.437	170	1099	-.229	.079	-.030	-.609
170	926	-.062	.046	.293	-.424	170	1050	-.219	.040	-.099	-.434	170	1100	-.237	.088	-.005	-.616
170	1001	-.176	.058	-.041	-.444	170	1051	-.226	.041	-.096	-.428	170	1101	-.238	.105	-.012	-.959
170	1002	-.199	.053	-.014	-.487	170	1052	-.203	.045	-.062	-.457	170	1102	-.246	.107	-.017	-.763
170	1003	-.203	.058	-.026	-.694	170	1053	-.227	.053	-.007	-.508	170	1103	-.269	.133	-.005	-.1024
170	1004	-.173	.055	-.028	-.470	170	1054	-.281	.062	-.090	-.596	170	1104	-.259	.127	-.007	-.1036
170	1005	-.179	.051	-.037	-.490	170	1055	-.294	.081	-.026	-.614	170	1105	-.237	.113	-.076	-.166
170	1006	-.215	.051	-.018	-.600	170	1056	-.259	.096	-.025	-.771	170	1106	-.145	.037	-.013	-.270
170	1007	-.229	.062	-.036	-.696	170	1057	-.259	.111	-.114	-.830	170	1107	-.154	.040	-.016	-.289
170	1008	-.215	.075	-.034	-.681	170	1058	-.304	.121	-.127	-1.164	170	1108	-.151	.038	-.007	-.279

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN
170	1109	173	045	048	418	170	2034	196	121	763	171	170	2084	071	098	398	505
170	1110	151	034	038	316	170	2035	190	116	816	104	170	2085	170	114	306	695
170	1111	164	036	060	343	170	2036	189	104	756	046	170	2086	223	097	121	707
170	1112	157	039	017	333	170	2037	154	131	770	209	170	2087	237	073	028	547
170	1113	161	044	014	305	170	2038	122	148	965	330	170	2088	215	049	056	402
170	1114	158	042	010	333	170	2039	035	161	640	558	170	2089	172	042	020	343
170	1115	194	062	009	353	170	2040	083	140	356	858	170	2090	143	040	063	318
170	1116	214	080	018	353	170	2041	245	143	260	189	170	2091	100	091	232	491
170	1117	217	083	001	353	170	2042	325	107	015	029	170	2092	036	063	347	177
170	1118	215	079	019	353	170	2043	275	069	078	661	170	2093	081	067	363	159
170	1119	229	104	012	906	170	2044	178	036	035	318	170	2094	109	056	351	038
170	1120	229	119	065	137	170	2045	190	040	018	353	170	2095	137	062	497	016
170	1121	255	139	080	314	170	2046	063	100	353	581	170	2096	138	063	447	000
170	1122	252	119	035	140	170	2047	069	119	651	296	170	2097	043	051	310	111
170	1123	087	074	496	227	170	2048	142	099	566	200	170	2098	002	053	242	268
170	1124	051	316	322	255	170	2049	152	099	591	236	170	2099	002	053	208	283
170	2001	055	181	191	135	170	2050	163	088	630	145	170	2100	096	053	112	307
170	2002	050	182	372	441	170	2051	153	092	575	083	170	2101	145	063	080	406
170	2003	066	175	749	441	170	2052	140	088	542	109	170	2102	156	053	092	382
170	2004	084	152	632	344	170	2053	072	128	557	348	170	2103	142	040	043	315
170	2005	078	168	781	344	170	2054	000	144	585	515	170	2104	122	030	021	256
170	2006	095	163	759	333	170	2055	113	153	601	865	170	2105	137	034	020	295
170	2007	090	179	783	373	170	2056	230	119	161	837	170	2106	086	068	327	169
170	2008	100	166	741	305	170	2057	346	108	040	971	170	2107	057	048	240	167
170	2009	038	168	602	452	170	2058	279	074	081	716	170	2108	055	046	231	202
170	2010	054	133	457	307	170	2059	187	044	028	485	170	2109	038	050	241	117
170	2011	175	098	183	625	170	2060	169	036	037	421	170	2110	033	032	257	137
170	2012	275	074	001	637	170	2061	067	111	516	559	170	2111	176	093	679	047
170	2013	274	077	018	114	170	2062	068	114	652	294	170	2112	164	083	588	035
170	2014	193	078	090	144	170	2063	120	098	617	152	170	2113	152	084	612	049
170	2015	177	062	010	653	170	2064	140	072	466	051	170	2114	165	079	581	019
170	2016	050	115	416	337	170	2065	118	073	459	104	170	2115	112	055	410	029
170	2017	087	153	716	391	170	2066	105	069	460	064	170	2116	054	044	274	095
170	2018	161	161	949	198	170	2067	060	079	472	209	170	2117	049	058	310	148
170	2019	190	151	877	120	170	2068	040	092	605	330	170	2118	048	069	340	163
170	2020	212	139	772	083	170	2069	060	135	576	595	170	2119	012	075	277	247
170	2021	225	162	999	227	170	2070	117	135	531	696	170	2120	044	067	198	280
170	2022	233	172	042	356	170	2071	226	122	156	767	170	2121	084	071	196	336
170	2023	203	167	832	482	170	2072	293	080	044	658	170	2122	102	059	126	313
170	2024	120	152	679	382	170	2073	281	063	116	650	170	2123	134	048	061	323
170	2025	021	148	489	488	170	2074	172	041	048	363	170	2124	137	033	016	276
170	2026	178	111	227	618	170	2075	165	041	012	368	170	2125	144	038	013	336
170	2027	325	091	001	556	170	2076	057	099	452	409	170	2126	022	047	193	192
170	2028	294	064	104	618	170	2077	037	115	598	279	170	2127	047	050	274	222
170	2029	202	048	049	303	170	2078	111	102	635	157	180	801	176	042	032	378
170	2030	176	046	014	365	170	2079	116	080	631	095	180	802	159	039	011	320
170	2031	042	118	546	353	170	2080	117	056	433	032	180	803	155	042	033	325
170	2032	097	111	561	489	170	2081	082	060	454	070	180	804	000	049	202	223
170	2033	150	130	694	159	170	2082	069	064	495	150	180	805	006	062	240	249
170						170	2083	002	090	452	354	180	806	249	093	811	050

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPNEAN	CPRMS	CPMAX	CPHIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPHIN	MD	TAP	CPNEAN	CPRMS	CPMAX	CPHIN
180	807	.122	.089	.493	-.367	180	1026	-.327	.127	.061	-1.083	180	1076	-.153	.049	.030	-.543
180	901	-.067	.134	.361	-.606	180	1027	-.366	.163	.152	-1.269	180	1077	-.148	.052	.008	-.366
180	902	-.191	.154	.410	-.955	180	1028	-.373	.172	.145	-1.409	180	1078	-.155	.051	.033	-.424
180	903	-.290	.125	.217	-.844	180	1029	-.377	.165	.007	-1.245	180	1079	-.170	.056	.012	-.481
180	905	-.525	.165	-.120	-1.372	180	1030	-.400	.141	-.083	-1.092	180	1080	-.151	.041	.007	-.355
180	906	-.498	.143	-.128	-1.272	180	1031	-.220	.058	-.064	-.503	180	1081	-.162	.044	.019	-.431
180	907	-.441	.090	-.168	-.832	180	1032	-.186	.054	-.049	-.422	180	1082	-.177	.053	.037	-.517
180	908	-.470	.143	-.034	-1.367	180	1033	-.198	.052	-.057	-.427	180	1083	-.221	.079	.009	-.562
180	909	-.464	.201	.121	-1.555	180	1034	-.237	.049	-.095	-.458	180	1084	-.230	.095	.032	-.756
180	910	-.134	.126	.235	-1.341	180	1035	-.243	.050	-.092	-.496	180	1085	-.257	.120	.075	-.935
180	911	-.261	.136	.122	-.803	180	1036	-.214	.050	-.072	-.435	180	1086	-.278	.136	.055	-.933
180	912	-.351	.146	.385	-.940	180	1037	-.236	.064	-.044	-.519	180	1087	-.333	.181	.120	-1.273
180	913	-.473	.139	.015	-1.358	180	1038	-.292	.076	-.111	-.630	180	1088	-.365	.200	.106	-1.329
180	914	-.481	.157	.176	-1.279	180	1039	-.313	.103	-.036	-.882	180	1089	-.356	.202	.019	-1.608
180	915	-.428	.155	.062	-1.062	180	1040	-.282	.113	.053	-.852	180	1090	-.341	.173	.040	-1.324
180	916	-.484	.160	.147	-1.415	180	1041	-.298	.125	.083	-.920	180	1091	-.145	.045	.005	-.350
180	917	-.464	.180	.157	-1.197	180	1042	-.330	.154	.033	-1.127	180	1092	-.139	.044	.005	-.341
180	918	-.081	.119	-.277	-.835	180	1043	-.340	.184	.065	-1.572	180	1093	-.155	.054	.030	-.464
180	919	-.510	.133	-.128	-1.329	180	1044	-.340	.163	.044	-1.671	180	1094	-.151	.050	.006	-.363
180	921	.190	.100	.714	-1.101	180	1045	-.353	.166	-.006	-1.417	180	1095	-.145	.043	.028	-.318
180	922	.336	.144	.941	-.047	180	1046	-.219	.053	.069	-.467	180	1096	-.152	.055	.069	-.447
180	923	.189	.082	.538	-.078	180	1047	-.221	.056	.064	-.503	180	1097	-.165	.058	.062	-.502
180	924	.139	.073	.478	-.089	180	1048	-.192	.053	.046	-.491	180	1098	-.193	.071	.026	-.677
180	925	.162	.094	.577	-.201	180	1049	-.205	.054	.053	-.454	180	1099	-.221	.093	.023	-.746
180	926	.086	.062	.337	-.190	180	1050	-.237	.043	.109	-.444	180	1100	-.218	.102	.085	-.894
180	1001	-.186	.065	.021	-.454	180	1051	-.245	.047	.080	-.452	180	1101	-.243	.114	.062	-.957
180	1002	-.209	.055	-.051	-.439	180	1052	-.245	.057	.028	-.564	180	1102	-.273	.131	.049	-1.468
180	1003	-.214	.060	-.015	-.529	180	1053	-.245	.075	.028	-.663	180	1103	-.326	.180	.030	-1.588
180	1004	-.189	.068	.046	-.580	180	1054	-.318	.089	.067	-1.004	180	1104	-.347	.206	.023	-1.974
180	1005	-.214	.086	.056	-.909	180	1055	-.330	.114	.011	-.821	180	1105	-.359	.203	.046	-1.530
180	1006	-.259	.083	-.048	-.746	180	1056	-.360	.138	.060	-.866	180	1106	-.136	.050	.019	-.358
180	1007	-.275	.101	.082	-.882	180	1057	-.326	.186	.143	-1.579	180	1107	-.150	.055	.014	-.410
180	1008	-.263	.123	.138	-1.050	180	1058	-.395	.190	.003	-1.485	180	1108	-.149	.059	.004	-.477
180	1009	-.281	.142	.112	-1.241	180	1059	-.388	.190	.006	-1.500	180	1109	-.165	.064	.005	-.551
180	1010	-.330	.142	.089	-.960	180	1060	-.336	.173	.030	-1.282	180	1110	-.132	.038	.006	-.295
180	1011	-.353	.168	.171	-1.384	180	1061	-.170	.052	.008	-.389	180	1111	-.147	.039	.021	-.297
180	1012	-.359	.167	.175	-1.229	180	1062	-.205	.046	.060	-.402	180	1112	-.135	.041	.030	-.321
180	1013	-.428	.176	-.250	-1.312	180	1063	-.214	.050	.080	-.431	180	1113	-.170	.074	.003	-.852
180	1014	-.472	.151	-.079	-1.394	180	1064	-.184	.049	.028	-.433	180	1114	-.162	.059	.010	-.646
180	1015	-.453	.156	-.064	-1.518	180	1065	-.180	.042	.094	-.363	180	1115	-.198	.080	.007	-.663
180	1016	-.187	.062	.004	-.541	180	1066	-.219	.043	.090	-.432	180	1116	-.195	.088	.009	-.661
180	1017	-.187	.059	.016	-.485	180	1067	-.236	.038	.036	-.553	180	1117	-.197	.096	.008	-.746
180	1018	-.220	.054	-.065	-.467	180	1068	-.234	.076	.003	-.645	180	1118	-.205	.097	.078	-.922
180	1019	-.228	.062	-.050	-.520	180	1069	-.266	.090	.001	-.648	180	1119	-.236	.125	.198	-.950
180	1020	-.205	.066	-.028	-.520	180	1070	-.313	.100	.037	-.783	180	1120	-.250	.154	.186	-1.334
180	1021	-.221	.065	-.008	-.692	180	1071	-.324	.136	.016	-1.105	180	1121	-.328	.218	.115	-1.713
180	1022	-.266	.067	-.100	-.776	180	1072	-.311	.166	.057	-1.245	180	1122	-.338	.195	.058	-1.484
180	1023	-.288	.092	-.041	-.931	180	1073	-.355	.206	.110	-1.539	180	1123	-.160	.110	.503	-.386
180	1024	-.264	.105	-.020	-.852	180	1074	-.328	.185	.007	-1.566	180	1124	-.072	.110	.440	-.491
180	1025	-.277	.121	.092	-1.163	180	1075	-.385	.187	.036	-1.598	180	1125	-.094	.065	.388	-.173

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	2001	.048	.176	.674	-.591	180	2051	.216	.102	.658	-.046	180	2101	-.306	.083	-.063	-.667
180	2002	.158	.189	.868	-.466	180	2052	.131	.080	.480	-.123	180	2102	-.276	.073	-.050	-.561
180	2003	.151	.176	.706	-.369	180	2053	-.077	.110	.352	-.544	180	2103	-.196	.058	-.035	-.437
180	2004	.127	.150	.677	-.266	180	2054	-.263	.143	.163	-.875	180	2104	-.146	.044	-.002	-.327
180	2005	.087	.164	.693	-.380	180	2055	-.423	.186	.114	-1.034	180	2105	-.162	.049	-.006	-.366
180	2006	.084	.167	.817	-.383	180	2056	-.517	.169	-.102	-1.137	180	2106	.168	.106	.562	-.364
180	2007	.047	.173	.770	-.739	180	2057	-.537	.163	-.162	-1.194	180	2107	.051	.052	.238	-.121
180	2008	-.020	.158	.668	-.503	180	2058	-.385	.127	-.026	-1.038	180	2108	.082	.064	.307	-.187
180	2009	-.131	.172	.651	-.711	180	2059	-.209	.058	-.023	-.542	180	2109	.046	.056	.244	-.223
180	2010	-.206	.150	.566	-.922	180	2060	.184	.046	-.044	-.408	180	2110	.026	.053	.195	-.158
180	2011	-.273	.122	.142	-1.131	180	2061	.016	.123	.499	-.421	180	2111	.302	.129	.936	.013
180	2012	-.306	.102	-.037	-.962	180	2062	.195	.126	.773	-.173	180	2112	.295	.117	.858	.026
180	2013	-.286	.110	.016	-1.132	180	2063	.287	.129	.768	-.110	180	2113	.270	.115	.821	.004
180	2014	-.197	.087	.080	-.737	180	2064	.297	.109	.722	-.007	180	2114	.287	.109	.790	.036
180	2015	-.177	.072	.071	-.591	180	2065	.254	.113	.699	-.089	180	2115	.188	.076	.518	.001
180	2016	.076	.147	.523	-.460	180	2066	.208	.102	.612	-.052	180	2116	.045	.048	.264	-.121
180	2017	.253	.190	.914	-.290	180	2067	.111	.093	.635	-.190	180	2117	-.005	.056	.213	-.187
180	2018	.303	.183	.988	-.189	180	2068	-.066	.089	.286	-.439	180	2118	-.014	.060	.214	-.227
180	2019	.299	.172	.998	-.146	180	2069	-.283	.132	.191	-.772	180	2119	-.117	.069	.187	-.376
180	2020	.260	.146	.786	-.089	180	2070	.412	.156	.054	-1.014	180	2120	-.189	.064	.003	-.404
180	2021	.210	.152	.843	-.145	180	2071	.500	.169	.107	-1.196	180	2121	-.234	.071	.018	-.483
180	2022	.158	.150	.783	-.270	180	2072	-.482	.128	.151	-1.007	180	2122	-.217	.061	.045	-.438
180	2023	.033	.154	.806	-.424	180	2073	-.377	.108	.136	-.938	180	2123	-.214	.059	.050	-.431
180	2024	-.109	.143	.404	-.693	180	2074	.197	.058	.038	-.492	180	2124	-.171	.042	.043	-.332
180	2025	.244	.139	.368	-.930	180	2075	-.173	.050	.003	-.384	180	2125	-.176	.051	.030	-.397
180	2026	.329	.141	.069	-1.060	180	2076	.030	.104	.422	-.427	180	2126	-.031	.053	.148	-.261
180	2027	.386	.119	-.063	-1.093	180	2077	.098	.121	.777	-.217	180	2127	-.027	.047	.266	-.173
180	2028	.299	.078	-.116	-.759	180	2078	.176	.117	.709	-.128	190	801	-.190	.049	.018	-.386
180	2029	.204	.060	-.037	-.762	180	2079	.205	.106	.738	-.094	190	802	-.165	.042	.000	-.333
180	2030	.176	.056	.020	-.581	180	2080	.190	.079	.520	-.030	190	803	-.160	.045	.008	-.418
180	2031	.099	.133	.507	-.485	180	2081	.127	.083	.483	-.143	190	804	-.059	.057	.129	-.292
180	2032	.300	.135	.773	-.113	180	2082	-.056	.083	.409	-.197	190	805	-.055	.079	.204	-.423
180	2033	.366	.163	.978	-.167	180	2083	-.107	.093	.235	-.510	190	806	.250	.100	.747	.039
180	2034	.358	.151	.992	-.059	180	2084	-.260	.103	.019	-.738	190	807	.111	.099	.488	.563
180	2035	.300	.135	.839	-.046	180	2085	.389	.134	-.036	-.878	190	901	-.223	.171	.443	-.792
180	2036	.238	.104	.685	-.072	180	2086	-.430	.134	-.059	-.936	190	902	-.326	.183	.371	-.127
180	2037	.142	.114	.758	-.240	180	2087	.426	.108	.197	-.853	190	903	-.338	.147	.222	-.041
180	2038	-.023	.129	.607	-.483	180	2088	-.298	.071	-.104	-.675	190	904	-.636	.161	.239	-.283
180	2039	.374	.166	.518	-.794	180	2089	.191	.053	-.022	-.409	190	905	-.617	.161	.182	-.422
180	2040	.506	.182	-.022	-1.177	180	2090	-.157	.048	.000	-.343	190	906	-.512	.093	.221	-.885
180	2041	.502	.146	-.128	-1.104	180	2091	.087	.109	.292	-.643	190	907	-.466	.116	.196	-.908
180	2042	.363	.115	-.126	-1.029	180	2092	.099	.080	.511	-.253	190	908	-.470	.177	.080	-.1587
180	2043	.207	.054	-.051	-.570	180	2093	.156	.088	.547	-.055	190	909	-.259	.170	.507	-.1247
180	2044	-.202	.056	-.008	-.489	180	2094	.181	.076	.458	-.029	190	910	-.435	.154	.188	-.1279
180	2045	.063	.126	.553	-.457	180	2095	.251	.102	.820	-.004	190	911	-.412	.137	.150	-.013
180	2046	.253	.143	.889	-.131	180	2096	.191	.075	.557	-.009	190	912	-.559	.145	.036	-.1300
180	2047	.337	.129	.910	-.014	180	2097	.011	.054	.215	-.167	190	913	-.512	.143	.067	-.12202
180	2048	.324	.142	.905	-.034	180	2098	-.101	.064	.104	-.341	190	914	-.522	.146	.088	-.12278
180	2049	.283	.126	.803	-.007	180	2099	-.212	.082	.006	-.615	190	915	-.507	.158	.066	-.12296
180	2050	.283	.126	.803	-.007	180	2100	-.256	.078	-.035	-.640	190	916	-.507	.158	.066	-.12296
180						180						190	917	-.507	.158	.066	-.12296

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
190	918	190	154	390	844	190	1043	590	263	273	563	190	1093	148	051	001	001
190	919	617	145	284	199	190	1044	573	251	192	805	190	1094	139	047	017	450
190	921	164	106	595	101	190	1045	526	225	037	429	190	1095	153	047	039	400
190	922	361	143	106	048	190	1046	216	055	049	520	190	1096	167	068	039	594
190	923	185	078	526	085	190	1047	215	056	048	542	190	1097	177	072	017	591
190	924	127	069	467	032	190	1048	181	052	023	493	190	1098	196	085	017	659
190	925	158	092	571	431	190	1049	174	043	006	418	190	1099	217	109	035	197
190	926	079	063	303	282	190	1050	221	043	084	384	190	1100	213	112	050	555
190	1001	216	100	097	671	190	1051	234	058	043	497	190	1101	240	111	113	843
190	1002	235	081	010	586	190	1052	211	071	017	502	190	1102	284	122	083	046
190	1003	239	092	070	698	190	1053	233	091	012	689	190	1103	387	202	125	445
190	1004	234	108	099	653	190	1054	282	104	030	174	190	1104	502	259	154	562
190	1005	262	117	048	886	190	1055	300	134	044	066	190	1105	472	219	095	556
190	1006	294	112	036	881	190	1056	309	165	169	162	190	1106	141	046	003	380
190	1007	290	128	049	260	190	1057	419	226	191	151	190	1107	153	050	009	418
190	1008	259	144	092	136	190	1058	571	247	047	711	190	1108	145	050	014	322
190	1009	267	149	099	039	190	1059	602	268	041	967	190	1109	146	048	012	433
190	1010	329	147	054	482	190	1060	536	245	077	634	190	1110	138	042	015	399
190	1011	381	171	106	390	190	1061	158	054	043	544	190	1111	154	043	000	448
190	1012	416	164	229	330	190	1062	195	047	047	483	190	1112	139	047	062	356
190	1013	521	200	124	682	190	1063	197	050	005	497	190	1113	190	077	032	335
190	1014	662	202	075	479	190	1064	162	043	035	421	190	1114	176	059	040	464
190	1015	659	237	161	288	190	1065	181	043	035	362	190	1115	200	080	002	576
190	1016	213	099	071	646	190	1066	238	053	103	462	190	1116	190	088	048	659
190	1017	209	085	043	649	190	1067	237	078	069	615	190	1117	205	098	053	745
190	1018	241	070	030	553	190	1068	241	103	018	831	190	1118	225	101	110	722
190	1019	249	076	027	361	190	1069	251	125	057	815	190	1119	260	127	250	098
190	1020	222	073	002	302	190	1070	309	134	000	055	190	1120	277	169	143	288
190	1021	230	084	003	669	190	1071	359	182	092	258	190	1121	419	251	203	883
190	1022	271	087	030	656	190	1072	408	227	206	601	190	1122	447	224	049	444
190	1023	280	113	032	766	190	1073	491	249	187	722	190	1123	194	131	046	333
190	1024	254	125	085	227	190	1074	604	250	037	571	190	1124	108	104	451	495
190	1025	270	140	115	413	190	1075	591	258	055	586	190	1125	104	064	304	158
190	1026	359	143	146	153	190	1076	141	046	044	394	190	2001	107	145	599	374
190	1027	455	187	250	244	190	1077	143	050	017	360	190	2002	237	143	644	278
190	1028	537	227	088	481	190	1078	153	046	031	371	190	2003	214	133	681	260
190	1029	647	273	099	904	190	1079	159	044	005	393	190	2004	186	108	586	212
190	1030	675	246	124	224	190	1080	183	060	014	342	190	2005	154	114	587	296
190	1031	238	076	027	606	190	1081	183	060	042	492	190	2006	146	115	615	271
190	1032	201	069	010	472	190	1082	200	071	012	620	190	2007	087	117	645	412
190	1033	206	064	044	488	190	1083	233	097	051	807	190	2008	043	098	380	396
190	1034	244	058	112	630	190	1084	225	107	067	774	190	2009	240	100	160	596
190	1035	251	058	036	518	190	1085	249	138	095	926	190	2010	379	105	119	802
190	1036	225	065	054	488	190	1086	288	139	119	019	190	2011	502	131	012	015
190	1037	234	075	042	705	190	1087	377	185	143	225	190	2012	507	149	063	288
190	1038	281	087	051	729	190	1088	440	222	180	665	190	2013	422	169	012	620
190	1039	289	112	040	920	190	1089	537	267	075	005	190	2014	286	150	106	060
190	1040	266	125	081	963	190	1090	533	232	044	717	190	2015	246	118	084	812
190	1041	327	157	160	073	190	1091	152	052	014	455	190	2016	117	127	577	409
190	1042	467	190	071	186	190	1092	144	051	002	439	190	2017	355	155	936	095

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	2018	.415	.153	.907	-.019	190	2068	-.153	.107	.207	-.527	190	2118	-.087	.070	.121	-.367
190	2019	.401	.143	.859	-.025	190	2069	-.408	.146	.010	-.928	190	2119	-.215	.083	.111	-.608
190	2020	.358	.127	.770	-.019	190	2070	-.573	.166	-.108	-1.121	190	2120	-.300	.072	-.068	-.603
190	2021	.297	.131	.712	-.095	190	2071	-.631	.171	-.259	-1.221	190	2121	-.335	.073	-.135	-.640
190	2022	.215	.124	.672	-.227	190	2072	-.587	.133	-.299	-1.090	190	2122	-.284	.062	-.108	-.529
190	2023	.000	.118	.569	-.532	190	2073	-.411	.129	-.062	-1.024	190	2123	-.263	.066	-.043	-.387
190	2024	-.270	.109	.108	-.736	190	2074	-.195	.066	-.066	-.529	190	2124	-.204	.045	-.073	-.452
190	2025	-.496	.136	.007	-1.022	190	2075	-.167	.056	.033	-.509	190	2125	-.200	.055	.060	-.535
190	2026	-.612	.149	-.167	-1.211	190	2076	-.060	.099	.374	-.477	190	2126	-.104	.070	.071	-.445
190	2027	-.609	.132	-.220	-1.040	190	2077	.099	.111	.554	-.246	190	2127	-.036	.056	.160	-.282
190	2028	-.450	.121	-.105	-.863	190	2078	.171	.107	.606	-.131	200	801	-.171	.040	-.058	-.406
190	2029	-.266	.101	.014	-.758	190	2079	.187	.089	.568	-.049	200	802	-.143	.037	-.043	-.426
190	2030	-.227	.095	.062	-.640	190	2080	.167	.069	.428	.000	200	803	-.140	.037	.011	-.333
190	2031	.086	.135	.652	-.514	190	2081	.100	.077	.481	-.119	200	804	-.123	.056	.049	-.389
190	2032	.334	.126	.797	-.058	190	2082	.086	.086	.375	-.268	200	805	-.139	.083	.109	-.322
190	2033	.415	.144	.908	.008	190	2083	.213	.110	.214	-.646	200	806	.220	.088	.621	.020
190	2034	.406	.132	.878	.071	190	2084	.386	.115	.030	-.874	200	807	.080	.112	.511	.535
190	2035	.354	.122	.842	.006	190	2085	.502	.137	.115	-1.063	200	901	-.215	.173	.386	.860
190	2036	.281	.100	.746	-.013	190	2086	.534	.135	.197	-1.052	200	902	-.264	.149	.328	.876
190	2037	.169	.112	.720	-.178	190	2087	.486	.119	.228	-.954	200	903	-.154	.128	.210	.788
190	2038	.078	.124	.452	-.501	190	2088	.306	.089	.011	-.786	200	905	-.779	.198	.012	-1.707
190	2039	.372	.146	.221	-.938	190	2089	.171	.058	.063	-.581	200	906	.845	.186	.302	-1.731
190	2040	-.591	.162	-.148	-1.135	190	2090	.144	.050	.057	-.398	200	907	-.581	.090	.241	-.908
190	2041	-.712	.190	-.226	-1.374	190	2091	.102	.107	.460	-.531	200	908	-.468	.106	.144	-1.058
190	2042	-.648	.161	-.291	-1.299	190	2092	.102	.078	.439	-.148	200	909	-.438	.204	.144	-1.821
190	2043	-.459	.147	-.025	-1.113	190	2093	.168	.085	.572	-.055	200	910	-.238	.182	.485	-1.101
190	2044	-.228	.066	.002	-.655	190	2094	.190	.075	.484	.014	200	911	-.394	.145	.098	-1.005
190	2045	-.199	.066	.013	-.535	190	2095	.271	.103	.752	-.016	200	912	-.432	.126	.038	-1.121
190	2046	.039	.137	.478	-.485	190	2096	.176	.080	.640	-.067	200	913	-.685	.149	.218	-1.219
190	2047	.250	.129	.670	.129	190	2097	-.026	.065	.274	-.324	200	914	-.514	.128	.163	-1.155
190	2048	.331	.110	.714	.030	190	2098	.169	.077	.100	-.606	200	915	-.502	.131	.080	-1.085
190	2049	.327	.117	.781	.042	190	2099	-.259	.084	-.056	-.688	200	916	-.588	.142	.053	-1.171
190	2050	.288	.111	.775	.016	190	2100	.301	.075	-.106	-.752	200	917	-.484	.141	.039	-1.100
190	2051	.215	.105	.683	-.051	190	2101	-.323	.077	.144	-.751	200	918	-.192	.156	.335	-1.038
190	2052	.113	.089	.444	-.148	190	2102	.276	.066	.080	-.547	200	919	-.873	.162	.438	-1.709
190	2053	-.131	.121	.272	-.528	190	2103	.198	.057	.027	-.449	200	921	-.064	.096	.324	-.257
190	2054	-.386	.152	.093	-.824	190	2104	.144	.041	-.002	-.353	200	922	.338	.139	.943	-.086
190	2055	-.581	.162	-.093	-1.113	190	2105	.145	.045	.013	-.376	200	923	.158	.074	.463	-.063
190	2056	-.678	.145	-.261	-1.135	190	2106	.216	.110	.590	-.234	200	924	.085	.066	.429	-.119
190	2057	-.629	.139	-.267	-1.154	190	2107	.067	.056	.209	-.207	200	925	.119	.092	.488	-.281
190	2058	-.443	.133	-.078	-.963	190	2108	.045	.069	.295	-.245	200	926	-.066	.053	.236	-.163
190	2059	-.223	.076	.062	-.615	190	2109	.004	.060	.211	-.279	200	1001	-.244	.105	.050	-.690
190	2060	.191	.055	-.018	-.425	190	2110	.030	.062	.167	-.287	200	1002	-.264	.085	.014	-.617
190	2061	.014	.136	.522	-.474	190	2111	.313	.128	1.022	-.015	200	1003	-.260	.094	.066	-.662
190	2062	.222	.136	.759	-.208	190	2112	.302	.116	.956	-.002	200	1004	-.229	.092	.074	-.793
190	2063	.268	.128	.729	-.089	190	2113	.278	.115	.718	-.008	200	1005	-.216	.097	.034	-1.091
190	2064	.262	.102	.656	-.004	190	2114	.303	.109	.854	.037	200	1006	-.231	.074	.030	-1.043
190	2065	.220	.106	.658	-.017	190	2115	.181	.077	.518	-.060	200	1007	-.220	.072	.003	-.700
190	2066	.162	.101	.670	-.085	190	2116	.004	.053	.178	-.231	200	1008	-.179	.074	.060	-.705
190	2067	.072	.104	.546	-.259	190	2117	.059	.065	.133	-.330	200	1009	-.265	.131	.061	-.913

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	1010	.461	.188	-.049	-1.414	200	1060	-.771	.227	.023	-1.942	200	1110	-.128	.033	-.013	.396
200	1011	.462	.125	-.089	-1.318	200	1061	-.175	.060	.021	-.650	200	1111	-.140	.036	-.017	.351
200	1012	.428	.083	-.119	-.854	200	1062	-.209	.046	-.066	-.506	200	1112	-.125	.037	-.035	.372
200	1013	.367	.116	-.192	-1.046	200	1063	-.204	.041	-.058	-.469	200	1113	-.179	.068	-.038	.577
200	1014	.741	.286	-.040	-1.826	200	1064	-.166	.035	-.040	-.326	200	1114	-.161	.049	-.022	.401
200	1015	.929	.230	.023	-2.174	200	1065	-.172	.037	-.058	-.335	200	1115	-.171	.059	.024	.334
200	1016	.230	.090	.023	-.672	200	1066	-.217	.042	-.064	-.390	200	1116	-.158	.061	.116	.358
200	1017	.225	.076	.016	-.571	200	1067	-.216	.055	.004	-.440	200	1117	-.173	.071	.045	.586
200	1018	.254	.038	-.101	-.494	200	1068	-.175	.067	.037	-.468	200	1118	-.207	.076	.008	.689
200	1019	.245	.060	.060	-.562	200	1069	-.184	.079	.032	-.408	200	1119	-.252	.100	.098	.927
200	1020	.194	.055	.002	-.505	200	1070	-.253	.087	-.092	-.927	200	1120	-.292	.175	.157	1.078
200	1021	.188	.055	.003	-.542	200	1071	-.357	.135	.118	-1.360	200	1121	-.477	.252	.232	1.625
200	1022	.224	.052	-.040	-.610	200	1072	-.416	.160	.130	-1.388	200	1122	-.516	.220	.118	1.603
200	1023	.224	.075	.118	-1.686	200	1073	-.509	.257	.068	-1.662	200	1123	-.241	.107	.629	.666
200	1024	.195	.076	.046	-1.102	200	1074	-.725	.264	.022	-1.812	200	1124	-.143	.091	.488	.269
200	1025	.260	.096	.016	-.841	200	1075	-.730	.256	.146	-1.784	200	1125	-.109	.053	.346	.093
200	1026	.466	.126	-.047	-.844	200	1076	-.138	.047	-.039	-.414	200	2001	-.165	.159	.744	.367
200	1027	.520	.129	.104	-1.025	200	1077	-.137	.041	.010	-.326	200	2002	-.252	.147	.838	.196
200	1028	.414	.223	.189	-.414	200	1078	-.135	.033	-.022	-.315	200	2003	-.180	.130	.670	.206
200	1029	.895	.304	.287	-2.011	200	1079	-.153	.032	-.045	-.293	200	2004	-.137	.104	.584	.174
200	1030	.918	.238	.163	-1.970	200	1080	-.158	.037	-.043	-.327	200	2005	-.102	.104	.589	.222
200	1031	.248	.072	.020	-.716	200	1081	-.169	.046	.038	-.466	200	2006	-.087	.100	.603	.224
200	1032	.203	.056	.047	-.470	200	1082	-.172	.032	.027	-.506	200	2007	-.024	.099	.453	.333
200	1033	.198	.047	-.053	-.479	200	1083	-.185	.072	.002	-.591	200	2008	-.152	.081	.153	.523
200	1034	.237	.040	.123	-.440	200	1084	-.173	.081	.083	-.615	200	2009	-.365	.095	.005	.703
200	1035	.235	.046	.105	-.474	200	1085	-.202	.094	.117	-.704	200	2010	-.490	.119	.146	.925
200	1036	.191	.049	.042	-.435	200	1086	-.281	.112	.127	-.925	200	2011	-.552	.159	.137	1.201
200	1037	.189	.050	.049	-.463	200	1087	-.389	.158	.115	-1.499	200	2012	-.544	.183	.088	1.451
200	1038	.225	.053	.085	-.515	200	1088	-.472	.244	.181	-1.688	200	2013	-.444	.184	.062	1.218
200	1039	.230	.072	.016	-.681	200	1089	-.634	.271	.193	-1.999	200	2014	-.327	.157	.100	1.111
200	1040	.232	.087	.011	-.696	200	1090	-.650	.226	.113	-1.641	200	2015	-.292	.134	.094	.826
200	1041	.388	.130	.017	-1.044	200	1091	-.145	.045	-.007	-.386	200	2016	-.174	.142	.665	.317
200	1042	.333	.133	.017	-1.237	200	1092	-.126	.045	.062	-.522	200	2017	-.414	.157	.899	.119
200	1043	.663	.301	.003	-2.019	200	1093	-.124	.040	.025	-.452	200	2018	-.435	.149	.874	.055
200	1044	.817	.233	.165	-2.370	200	1094	-.127	.032	.013	-.365	200	2019	-.366	.143	.847	.038
200	1045	.743	.218	.086	-1.624	200	1095	-.151	.042	.007	-.370	200	2020	-.305	.122	.764	.053
200	1046	.219	.053	.054	-.511	200	1096	-.161	.049	.034	-.519	200	2021	-.228	.123	.687	.117
200	1047	.213	.050	.043	-.495	200	1097	-.166	.055	.010	-.476	200	2022	-.114	.113	.564	.258
200	1048	.174	.041	.038	-.363	200	1098	-.170	.057	.018	-.476	200	2023	-.142	.110	.202	.588
200	1049	.185	.037	.069	-.326	200	1099	-.186	.073	.019	-1.101	200	2024	-.431	.111	.036	.773
200	1050	.230	.038	.094	-.416	200	1100	-.187	.079	.057	-.782	200	2025	-.637	.138	.250	1.063
200	1051	.229	.049	.091	-.507	200	1101	-.224	.087	.068	-.704	200	2026	-.703	.150	.279	1.161
200	1052	.189	.056	.035	-.500	200	1102	-.283	.107	.177	-.775	200	2027	-.655	.163	.153	1.245
200	1053	.191	.062	.010	-.512	200	1103	-.396	.207	.036	-1.590	200	2028	-.441	.134	.067	1.213
200	1054	.237	.066	.026	-.612	200	1104	-.533	.247	.015	-1.743	200	2029	-.308	.134	.117	.213
200	1055	.244	.099	.054	-.802	200	1105	-.540	.212	.026	-1.729	200	2030	-.265	.119	.016	.025
200	1056	.342	.126	.072	-.872	200	1106	-.134	.038	-.004	-.303	200	2031	-.109	.146	.646	.319
200	1057	.154	.053	.093	-1.246	200	1107	-.141	.043	.043	-.374	200	2032	-.390	.130	.883	.054
200	1058	.642	.259	.007	-1.589	200	1108	-.127	.040	.047	-.394	200	2033	-.416	.151	.966	.060
200	1059	.834	.268	.168	-2.185	200	1109	-.124	.033	.003	-.254	200	2034	-.396	.131	.866	.094

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	2035	.325	.118	.691	-.008	200	2085	-.621	.151	-.250	-1.222	210	901	-.198	.113	.288	-.652
200	2036	.252	.092	.602	-.017	200	2086	-.568	.144	-.140	-1.083	210	902	-.173	.127	.202	-.655
200	2037	.053	.110	.589	-.267	200	2087	-.441	.158	-.005	-1.038	210	903	-.032	.069	.233	-.803
200	2038	-.232	.126	.362	-.645	200	2088	-.190	.086	.077	-.591	210	905	-.907	.322	.233	-.999
200	2039	-.561	.153	-.015	-1.106	200	2089	-.203	.071	.058	-.519	210	906	-1.215	.273	.431	-2.163
200	2040	-.711	.153	-.306	-1.213	200	2090	-.156	.062	.080	-.434	210	907	-.644	.104	.266	-1.010
200	2041	-.888	.176	-.464	-1.477	200	2091	-.111	.104	.290	-.700	210	908	-.495	.095	.038	-1.068
200	2042	-.731	.156	-.283	-1.379	200	2092	-.152	.076	.477	-.077	210	909	-.392	.201	.149	-1.393
200	2043	-.459	.150	-.008	-1.086	200	2093	-.167	.096	.613	-.073	210	910	-.198	.142	.244	-.787
200	2044	-.205	.066	-.019	-.471	200	2094	-.197	.084	.536	-.035	210	911	-.364	.109	.213	-.810
200	2045	-.246	.069	-.014	-.510	200	2095	-.254	.101	.657	-.013	210	912	-.374	.151	.143	-.919
200	2046	.055	.153	.615	-.391	200	2096	-.137	.069	.453	-.068	210	913	-.511	.208	.095	-1.217
200	2047	.313	.148	.825	-.133	200	2097	-.120	.061	.098	-.369	210	914	-.544	.123	.004	-1.181
200	2048	.409	.119	.820	-.086	200	2098	-.245	.074	.018	-.323	210	915	-.506	.143	.004	-1.041
200	2049	.342	.125	.770	-.002	200	2099	-.373	.099	.067	-.736	210	916	-.422	.204	.066	-1.492
200	2050	.282	.107	.672	-.004	200	2100	-.341	.082	.099	-.672	210	917	-.482	.124	.144	-1.022
200	2051	.162	.097	.546	-.137	200	2101	-.390	.099	-.007	-.746	210	918	-.176	.127	.301	-.733
200	2052	.064	.080	.402	-.275	200	2102	-.247	.087	.076	-.570	210	919	-.228	.262	.493	-2.202
200	2053	-.297	.128	-.065	-.853	200	2103	-.181	.063	.010	-.468	210	921	-1.015	.067	.833	-2.273
200	2054	-.549	.162	-.114	-1.210	200	2104	-.115	.044	.028	-.304	210	922	-.271	.115	.033	-.136
200	2055	-.764	.177	-.310	-1.424	200	2105	-.191	.056	.004	-.538	210	923	-.106	.066	.333	-.129
200	2056	-.743	.146	-.398	-1.237	200	2106	-.285	.118	.784	-.232	210	924	-.031	.053	.349	-.128
200	2057	-.739	.160	-.262	-1.337	200	2107	-.057	.058	.112	-.325	210	925	-.072	.090	.458	-.370
200	2058	-.421	.140	-.032	-1.112	200	2108	-.020	.064	.217	-.326	210	926	-.043	.052	.247	-.209
200	2059	-.235	.080	.015	-.636	200	2109	-.071	.059	.136	-.330	210	1001	-.236	.094	.090	-.754
200	2060	-.159	.055	.045	-.451	200	2110	-.101	.062	.085	-.412	210	1002	-.260	.080	.026	-.786
200	2061	-.004	.150	.627	-.550	200	2111	-.299	.125	.856	-.006	210	1003	-.260	.099	.010	-1.167
200	2062	.246	.140	.733	-.147	200	2112	-.287	.113	.789	-.015	210	1004	-.223	.120	.061	-1.126
200	2063	.305	.132	.821	-.039	200	2113	-.268	.117	.719	-.009	210	1005	-.202	.086	.036	-.882
200	2064	.310	.101	.653	-.043	200	2114	-.287	.110	.718	-.042	210	1006	-.224	.058	.033	-.603
200	2065	.194	.107	.642	-.057	200	2115	-.140	.064	.452	-.006	210	1007	-.238	.079	.033	-.933
200	2066	.121	.094	.550	-.110	200	2116	-.071	.052	.112	-.275	210	1008	-.366	.209	.017	-1.561
200	2067	-.019	.096	.460	-.316	200	2117	-.136	.067	.090	-.384	210	1009	-.707	.267	.082	-1.693
200	2068	-.245	.112	-.117	-.632	200	2118	-.158	.068	.076	-.438	210	1010	-.627	.170	.022	-1.476
200	2069	-.596	.166	-.166	-1.249	200	2119	-.307	.078	-.058	-.641	210	1011	-.517	.083	.232	-.942
200	2070	-.706	.175	-.262	-1.452	200	2120	-.345	.069	-.141	-.591	210	1012	-.411	.070	.140	-.640
200	2071	-.730	.150	-.332	-1.249	200	2121	-.327	.083	-.058	-.576	210	1013	-.308	.074	.050	-.646
200	2072	-.552	.120	-.195	-1.017	200	2122	-.232	.068	.041	-.472	210	1014	-.234	.168	.038	-.669
200	2073	-.397	.128	-.078	-1.056	200	2123	-.186	.060	-.001	-.408	210	1015	-.163	.423	.038	-.843
200	2074	-.201	.070	.024	-.631	200	2124	-.172	.041	.031	-.326	210	1016	-.215	.084	.024	-.588
200	2075	.181	.061	.026	-.550	200	2125	-.174	.049	.006	-.387	210	1017	-.204	.068	.004	-.543
200	2076	.013	.110	.475	-.458	200	2126	-.180	.079	.081	-.518	210	1018	-.246	.058	.096	-.647
200	2077	.156	.129	.668	-.195	200	2127	-.107	.059	.090	-.330	210	1019	-.250	.066	.056	-.550
200	2078	.251	.119	.709	-.056	210	801	-.171	.037	-.011	-.396	210	1020	-.202	.061	.014	-.550
200	2079	.221	.099	.682	-.062	210	802	-.142	.036	-.021	-.409	210	1021	-.206	.070	.004	-.978
200	2080	.194	.066	.509	-.032	210	803	-.155	.045	-.015	-.436	210	1022	-.255	.071	.067	-1.007
200	2081	.033	.067	.329	-.183	210	804	-.151	.051	-.009	-.388	210	1023	-.286	.101	.030	-.833
200	2082	-.078	.079	.223	-.326	210	805	-.190	.079	-.034	-.644	210	1024	-.387	.144	.040	-.890
200	2083	-.319	.120	-.026	-.786	210	806	-.196	.081	-.544	-.003	210	1025	-.533	.128	.104	-.959
200	2084	-.437	.122	-.115	-.863	210	807	-.062	.111	-.466	-.490	210	1026	-.687	.123	.334	-1.046

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	1027	.584	.113	.274	-.933	210	1077	-.146	.044	-.004	-.425	210	2002	.254	.143	.699	-.138
210	1028	-.221	.078	-.061	-.853	210	1078	-.149	.034	-.022	-.314	210	2003	.135	.119	.559	-.269
210	1029	-.322	.445	.591	-2.018	210	1079	-.173	.036	-.043	-.327	210	2004	.103	.096	.477	-.209
210	1030	-.674	.304	.352	-1.799	210	1080	-.170	.044	-.036	-.489	210	2005	.060	.096	.462	-.192
210	1031	-.233	.072	.087	-.695	210	1081	-.169	.051	-.057	-.507	210	2006	.035	.089	.379	-.318
210	1032	-.185	.058	.148	-.535	210	1082	-.166	.057	-.047	-.704	210	2007	-.059	.087	.311	-.404
210	1033	-.192	.046	-.013	-.595	210	1083	-.173	.063	-.047	-.874	210	2008	-.246	.079	.010	-.534
210	1034	-.243	.049	-.084	-.565	210	1084	-.184	.079	-.023	-.783	210	2009	-.422	.103	-.118	-.827
210	1035	-.241	.059	-.010	-.586	210	1085	-.273	.111	-.004	-.679	210	2010	-.493	.136	-.119	-1.150
210	1036	-.194	.058	-.012	-.548	210	1086	-.398	.117	-.036	-.781	210	2011	-.530	.191	-.095	-1.589
210	1037	-.202	.065	.003	-.708	210	1087	-.420	.111	-.059	-.862	210	2012	-.496	.200	-.036	-1.477
210	1038	-.255	.069	.038	-.740	210	1088	-.347	.188	-.078	-1.359	210	2013	-.386	.174	.121	-1.104
210	1039	-.354	.044	-.044	-.608	210	1089	-.543	.271	.332	-1.791	210	2014	-.309	.147	.054	-1.074
210	1040	-.399	.173	.107	-.677	210	1090	-.585	.214	.342	-1.685	210	2015	-.270	.121	.057	-.794
210	1041	-.600	.161	.189	-.677	210	1091	-.127	.040	-.064	-.351	210	2016	-.329	.153	.928	-.169
210	1042	-.677	.130	.226	-.669	210	1092	-.168	.035	-.085	-.294	210	2017	.447	.152	.910	.026
210	1043	-.555	.152	.003	-.446	210	1093	-.143	.033	-.013	-.508	210	2018	.404	.134	.801	.038
210	1044	-.333	.358	.469	-1.111	210	1094	-.143	.037	-.048	-.400	210	2019	.318	.113	.664	-.012
210	1045	-.608	.267	.415	-1.451	210	1095	-.164	.040	-.040	-.429	210	2020	.240	.093	.564	-.057
210	1046	-.288	.055	-.038	-.572	210	1096	-.164	.040	-.015	-.491	210	2021	-.141	.093	.500	-.161
210	1047	-.220	.055	-.013	-.681	210	1097	-.164	.049	-.001	-.459	210	2022	-.004	.091	.360	-.282
210	1048	-.178	.046	.002	-.390	210	1098	-.166	.047	-.006	-.403	210	2023	-.301	.111	.162	-.679
210	1049	-.195	.045	.003	-.418	210	1099	-.184	.060	-.000	-.590	210	2024	-.558	.119	-.258	-.940
210	1050	-.237	.046	.057	-.452	210	1100	-.208	.074	-.008	-.565	210	2025	-.691	.139	-.325	-1.126
210	1051	-.229	.054	.047	-.535	210	1101	-.279	.100	-.015	-.707	210	2026	-.674	.146	-.287	-1.150
210	1052	-.187	.057	.003	-.600	210	1102	-.304	.088	-.064	-.716	210	2027	-.538	.158	-.088	-1.113
210	1053	-.333	.073	.014	-.982	210	1103	-.327	.163	.000	-1.192	210	2028	-.359	.132	.027	-1.099
210	1054	-.303	.114	.031	-.678	210	1104	-.449	.206	.085	-1.340	210	2029	-.283	.132	.085	-1.396
210	1055	-.497	.178	.112	-1.078	210	1105	-.471	.199	.185	-1.858	210	2030	-.243	.111	.080	-.773
210	1056	-.617	.166	.170	-1.129	210	1106	-.115	.040	.064	-.337	210	2031	-.266	.161	.841	-.321
210	1057	-.547	.132	.166	-1.989	210	1107	-.115	.038	.017	-.334	210	2032	.448	.123	.834	.053
210	1058	-.393	.152	.015	-1.298	210	1108	-.109	.033	.009	-.249	210	2033	.419	.133	.854	.074
210	1059	-.592	.345	.365	-1.731	210	1109	-.141	.039	-.022	-.400	210	2034	.349	.112	.790	-.062
210	1060	-.606	.240	.318	-1.417	210	1110	-.154	.041	-.032	-.410	210	2035	.247	.103	.593	-.024
210	1061	-.180	.059	.014	-.495	210	1111	-.154	.040	-.016	-.374	210	2036	.153	.074	.401	-.091
210	1062	-.213	.048	.065	-.500	210	1112	-.135	.039	-.016	-.375	210	2037	-.062	.097	.420	-.353
210	1063	-.208	.044	.076	-.364	210	1113	-.169	.060	-.015	-.523	210	2038	-.376	.141	-.050	-.874
210	1064	-.176	.039	.045	-.411	210	1114	-.154	.042	-.039	-.335	210	2039	-.679	.179	-.225	-1.353
210	1065	-.187	.046	.043	-.418	210	1115	-.160	.048	-.026	-.403	210	2040	-.762	.166	-.320	-1.336
210	1066	-.244	.052	.072	-.879	210	1116	-.154	.051	-.005	-.396	210	2041	-.806	.176	-.372	-1.446
210	1067	-.218	.064	.002	-.955	210	1117	-.191	.074	.050	-.523	210	2042	-.624	.182	-.164	-1.551
210	1068	-.180	.068	.054	-.966	210	1118	-.250	.084	.024	-.580	210	2043	-.329	.117	.001	-.838
210	1069	-.219	.100	.033	-.904	210	1119	-.259	.083	.045	-.687	210	2044	-.185	.065	.066	-.579
210	1070	-.408	.156	.093	-1.032	210	1120	-.223	.133	.175	-1.069	210	2045	-.214	.072	.055	-.648
210	1071	-.558	.174	.059	-1.085	210	1121	-.375	.220	.249	-1.252	210	2046	.182	.175	.786	-.576
210	1072	-.481	.132	.031	-1.013	210	1122	-.435	.187	.186	-1.171	210	2047	.362	.142	.893	-.067
210	1073	-.360	.194	.099	-1.520	210	1123	-.266	.101	.641	-.002	210	2048	.395	.106	.738	.091
210	1074	-.622	.318	.260	-1.674	210	1124	-.167	.097	.667	-.089	210	2049	.299	.106	.706	.043
210	1075	-.678	.276	.532	-1.540	210	1125	-.102	.053	.317	-.048	210	2050	.214	.089	.563	.001
210	1076	-.155	.054	.089	-.413	210	2001	-.280	.169	.912	-.223	210	2051	.088	.082	.414	-.117

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	2052	.054	.079	.241	.287	210	2102	.149	.061	.036	.492	220	919	-1.402	.286	-.618	-2.383
210	2053	.448	.145	.040	.983	210	2103	.139	.046	.010	.325	220	921	-.083	.058	-.179	-.327
210	2054	.686	.172	.199	.326	210	2104	.106	.041	.028	.347	220	922	-.195	.128	-.660	-.440
210	2055	.783	.182	.373	.380	210	2105	.176	.054	.018	.549	220	923	-.065	.066	.344	-.198
210	2056	.681	.145	.363	.134	210	2106	.272	.106	.701	.028	220	924	-.013	.056	.241	-.199
210	2057	.575	.175	.018	.262	210	2107	.101	.052	.086	.261	220	925	.015	.098	.411	-.418
210	2058	.290	.105	.038	.855	210	2108	.058	.058	.134	.312	220	926	.002	.059	.274	-.274
210	2059	.211	.075	.047	.606	210	2109	.113	.050	.086	.338	220	1001	-.167	.097	.116	-.893
210	2060	.157	.054	.021	.377	210	2110	.137	.054	.009	.377	220	1002	-.198	.086	.086	-.819
210	2061	.124	.157	.696	.384	210	2111	.292	.119	.907	.027	220	1003	-.208	.106	.081	-.019
210	2062	.301	.136	.826	.077	210	2112	.280	.108	.822	.005	220	1004	-.176	.078	.070	-.841
210	2063	.333	.126	.854	.044	210	2113	.261	.113	.803	.033	220	1005	-.218	.095	.032	-.891
210	2064	.302	.090	.664	.089	210	2114	.282	.105	.763	.022	220	1006	-.437	.196	-.076	-1.307
210	2065	.172	.089	.545	.087	210	2115	.108	.054	.355	.051	220	1007	-.828	.376	-.073	-2.311
210	2066	.060	.077	.427	.145	210	2116	.103	.040	.049	.270	220	1008	-1.134	.406	.167	-2.673
210	2067	.108	.088	.246	.396	210	2117	.171	.052	.024	.388	220	1009	-.850	.290	-.258	-.098
210	2068	.362	.112	.003	.743	210	2118	.173	.052	.007	.398	220	1010	-.661	.135	.313	-1.402
210	2069	.645	.160	.236	.309	210	2119	.239	.068	.103	.563	220	1011	-.526	.088	.253	-.820
210	2070	.687	.164	.248	.439	210	2120	.243	.067	.083	.515	220	1012	-.351	.071	.080	-.605
210	2071	.624	.146	.289	.248	210	2121	.217	.071	.043	.515	220	1013	-.222	.087	.139	-.575
210	2072	.374	.129	.037	.900	210	2122	.151	.052	.021	.380	220	1014	-.095	.094	.364	-1.103
210	2073	.243	.087	.095	.825	210	2123	.137	.041	.023	.334	220	1015	-.011	.281	.722	-.682
210	2074	.181	.071	.108	.578	210	2124	.157	.042	.048	.392	220	1016	-.153	.076	.121	-.689
210	2075	.174	.063	.026	.493	210	2125	.173	.056	.028	.534	220	1017	-.140	.064	.116	-.566
210	2076	.079	.120	.664	.437	210	2126	.233	.081	.007	.561	220	1018	-.202	.057	.024	-.518
210	2077	.191	.118	.770	.134	210	2127	.147	.054	.009	.388	220	1019	-.247	.077	.017	-.745
210	2078	.246	.103	.685	.087	220	801	.183	.044	.039	.381	220	1020	-.276	.114	.000	-.869
210	2079	.218	.095	.577	.058	220	802	.155	.047	.024	.440	220	1021	-.319	.125	.014	-.918
210	2080	.169	.064	.468	.001	220	803	.173	.058	.020	.651	220	1022	-.444	.152	.026	-.960
210	2081	.003	.058	.258	.188	220	804	.174	.046	.064	.407	220	1023	-.598	.186	.039	-1.182
210	2082	.132	.067	.134	.417	220	805	.228	.087	.006	.718	220	1024	-.670	.168	.258	-1.167
210	2083	.394	.119	.062	.806	220	806	.167	.079	.599	.039	220	1025	-.728	.148	.321	-1.192
210	2084	.470	.117	.165	.835	220	807	.047	.104	.530	.461	220	1026	-.713	.128	.308	-1.137
210	2085	.541	.136	.186	.064	220	901	.102	.089	.289	.469	220	1027	-.478	.107	.092	-.899
210	2086	.399	.139	.023	.897	220	902	.042	.095	.266	.523	220	1028	-.081	.094	.318	-.382
210	2087	.221	.112	.047	.076	220	903	.014	.067	.233	.324	220	1029	-.143	.208	.654	-1.360
210	2088	.124	.063	.077	.603	220	905	.114	.271	.066	.090	220	1030	-.027	.311	.633	-1.154
210	2089	.180	.070	.085	.637	220	906	.319	.296	.454	.359	220	1031	-.185	.094	.261	-.072
210	2090	.159	.067	.078	.583	220	907	.607	.106	.319	.033	220	1032	-.141	.074	.171	-.478
210	2091	.059	.101	.378	.411	220	908	.414	.082	.124	.908	220	1033	-.174	.075	.085	-.605
210	2092	.175	.075	.488	.033	220	909	.300	.158	.106	.310	220	1034	-.252	.078	.014	-.769
210	2093	.192	.088	.600	.004	220	910	.082	.110	.371	.599	220	1035	-.265	.084	.005	-.639
210	2094	.208	.078	.551	.008	220	911	.299	.086	.082	.662	220	1036	-.240	.088	.049	-.642
210	2095	.237	.097	.607	.001	220	912	.179	.111	.171	.668	220	1037	-.294	.118	.026	-.820
210	2096	.068	.049	.250	.062	220	913	.182	.117	.101	.863	220	1038	-.531	.208	-.067	-1.295
210	2097	.155	.055	.015	.351	220	914	.514	.126	.110	.985	220	1039	-.780	.207	.198	-1.420
210	2098	.273	.077	.088	.553	220	915	.319	.123	.049	.937	220	1040	-.836	.194	.385	-1.415
210	2099	.340	.090	.144	.738	220	916	.597	.221	.044	.470	220	1041	-.775	.173	.335	-1.265
210	2100	.250	.078	.044	.599	220	917	.440	.110	.078	.904	220	1042	-.581	.127	.210	-.010
210	2101	.223	.086	.048	.630	220	918	.042	.091	.312	.461	220	1043	-.165	.102	.237	-.846

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2220	1044	.007	.288	.620	-1.284	2220	1094	.149	.043	-.017	-.351	2220	2019	.237	.092	.574	-.035
2220	1045	.129	.309	.779	-1.358	2220	1095	.163	.049	-.028	-.375	2220	2020	.161	.076	.479	-.101
2220	1046	.195	.066	.017	-.659	2220	1096	-.156	.031	-.015	-.395	2220	2021	.048	.078	.377	-.243
2220	1047	.190	.064	.038	-.553	2220	1097	-.156	.055	.029	-.398	2220	2022	-.110	.082	.212	-.454
2220	1048	.170	.066	.075	-.537	2220	1098	-.163	.056	.010	-.435	2220	2023	-.386	.109	-.026	-.744
2220	1049	.201	.084	.078	-.805	2220	1099	-.212	.085	.109	-.618	2220	2024	-.562	.120	-.217	-.987
2220	1050	.243	.074	.007	-.604	2220	1100	.310	.118	-.033	-.718	2220	2025	-.610	.133	-.217	-1.120
2220	1051	.251	.088	.017	-.678	2220	1101	.385	.116	-.106	-.829	2220	2026	-.506	.143	-.088	-1.105
2220	1052	.226	.096	.018	-.746	2220	1102	.324	.082	.075	-.660	2220	2027	-.324	.142	-.200	-1.048
2220	1053	.362	.163	.030	-1.206	2220	1103	.205	.101	.076	-.781	2220	2028	-.221	.116	-.119	-.848
2220	1054	.699	.186	.133	-1.232	2220	1104	.244	.189	.311	-1.268	2220	2029	-.194	.106	.102	-.752
2220	1055	.842	.185	.344	-1.449	2220	1105	.262	.193	.490	-.927	2220	2030	-.166	.094	.153	-.574
2220	1056	.766	.173	.281	-1.346	2220	1106	-.103	.047	.071	-.430	2220	2031	.397	.160	.994	.028
2220	1057	.515	.134	.117	-.991	2220	1107	-.115	.042	.040	-.377	2220	2032	.438	.120	.878	.100
2220	1058	.213	.099	.141	-.833	2220	1108	-.122	.038	.009	-.284	2220	2033	.363	.119	.796	.031
2220	1059	.107	.311	.499	-1.434	2220	1109	-.153	.045	.030	-.414	2220	2034	.264	.093	.634	-.004
2220	1060	.169	.310	.592	-1.315	2220	1110	-.163	.048	.041	-.512	2220	2035	.157	.081	.450	-.087
2220	1061	.170	.014	.014	-.768	2220	1111	-.158	.044	.021	-.401	2220	2036	.042	.058	.270	-.146
2220	1062	.209	.038	.038	-.509	2220	1112	.137	.042	.011	-.324	2220	2037	.170	.081	.126	-.491
2220	1063	.209	.010	.010	-.509	2220	1113	.168	.067	.011	-.603	2220	2038	-.484	.131	-.123	-.938
2220	1064	.190	.073	.044	-.698	2220	1114	.151	.047	-.008	-.430	2220	2039	-.690	.164	-.283	-1.239
2220	1065	.187	.078	.062	-1.308	2220	1115	.165	.054	.007	-.396	2220	2040	-.658	.138	-.302	-1.125
2220	1066	.223	.074	.039	-.666	2220	1116	.184	.071	.014	-.576	2220	2041	-.591	.164	-.121	-.186
2220	1067	.229	.087	.045	-.686	2220	1117	.275	.116	.021	-.776	2220	2042	-.531	.143	-.054	-.994
2220	1068	.250	.125	.032	-.862	2220	1118	.310	.099	.015	-.651	2220	2043	-.195	.101	.155	-.987
2220	1069	.516	.192	.008	-1.109	2220	1119	.266	.086	.045	-.616	2220	2044	-.140	.076	.239	-.614
2220	1070	.716	.169	.277	-1.311	2220	1120	.131	.094	.314	-.661	2220	2045	-.150	.090	.280	-.679
2220	1071	.718	.155	.274	-1.309	2220	1121	.170	.182	.312	-.952	2220	2046	.349	.161	.977	-.232
2220	1072	.468	.114	.085	-.949	2220	1122	.211	.182	.293	-.987	2220	2047	.356	.144	.832	-.021
2220	1073	.191	.101	.184	-.784	2220	1123	.254	.095	.697	-.042	2220	2048	.329	.107	.695	.057
2220	1074	.197	.292	.430	-1.287	2220	1124	.174	.092	.558	-.139	2220	2049	.224	.095	.617	-.003
2220	1075	.291	.308	.689	-1.499	2220	1125	.094	.054	.378	-.066	2220	2050	.128	.074	.436	-.062
2220	1076	.161	.058	.060	-.463	2220	2001	.327	.149	.802	-.163	2220	2051	-.005	.062	.259	-.179
2220	1077	.148	.050	.013	-.443	2220	2002	.198	.122	.599	-.177	2220	2052	-.166	.071	.073	-.429
2220	1078	.151	.042	.001	-.333	2220	2003	.080	.106	.462	-.245	2220	2053	-.515	.148	-.111	-.086
2220	1079	.181	.056	.031	-.328	2220	2004	.052	.080	.351	-.191	2220	2054	-.672	.170	-.318	-1.267
2220	1080	.172	.063	.011	-.496	2220	2005	-.002	.077	.352	-.276	2220	2055	-.659	.151	-.218	-1.165
2220	1081	.162	.069	.079	-.541	2220	2006	.025	.072	.375	-.293	2220	2056	-.514	.133	-.044	-.071
2220	1082	.159	.066	.052	-.486	2220	2007	.115	.068	.204	-.334	2220	2057	-.283	.120	.105	-.814
2220	1083	.191	.090	.035	-.687	2220	2008	-.294	.071	-.008	-.530	2220	2058	-.177	.082	.091	-.547
2220	1084	.314	.158	.028	-.932	2220	2009	.426	.099	.177	-.811	2220	2059	-.153	.072	.069	-.479
2220	1085	.472	.157	.076	-.926	2220	2010	.440	.146	.102	-1.176	2220	2060	-.123	.056	.062	-.379
2220	1086	.313	.134	.077	-.926	2220	2011	.421	.205	.001	-2.001	2220	2061	-.243	.150	.757	-.269
2220	1087	.405	.116	.082	-.851	2220	2012	.319	.144	.064	-.961	2220	2062	-.298	.125	.818	-.020
2220	1088	.178	.108	.082	-.851	2220	2013	.250	.126	.092	-.983	2220	2063	.283	.107	.716	.008
2220	1089	.216	.264	.366	-1.276	2220	2014	-.208	.118	.155	-.936	2220	2064	.228	.072	.517	-.035
2220	1090	.276	.238	.372	-1.050	2220	2015	.181	.106	.157	-.833	2220	2065	.106	.069	.391	-.076
2220	1091	.137	.047	.024	-.436	2220	2016	.467	.153	.929	-.006	2220	2066	-.015	.062	.280	-.186
2220	1092	.122	.039	.011	-.298	2220	2017	.445	.155	.929	-.005	2220	2067	-.180	.082	.143	-.434
2220	1093	.277	.039	.047	-.309	2220	2018	.352	.134	.788	-.033	2220	2068	-.419	.120	-.092	-.804

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2200	2069	.604	.153	-.249	-1.179	2200	2119	-.233	.066	-.063	-.544	230	1011	-.435	.081	-.191	-.783
2200	2070	-.577	.142	-.265	-1.169	2200	2120	-.201	.057	-.059	-.459	230	1012	-.234	.074	-.070	-.498
2200	2071	-.482	.146	-.012	-1.095	2200	2121	-.186	.055	-.049	-.431	230	1013	-.101	.096	.271	-.399
2200	2072	-.213	.090	.033	-.630	2200	2122	-.138	.047	-.017	-.359	230	1014	-.051	.116	.428	-.315
2200	2073	-.182	.076	.031	-.514	2200	2123	-.137	.046	-.027	-.402	230	1015	-.232	.158	.666	-.487
2200	2074	-.162	.071	.073	-.496	2200	2124	-.155	.045	-.046	-.385	230	1016	-.123	.065	.098	-.451
2200	2075	-.158	.063	.037	-.524	2200	2125	-.171	.060	-.016	-.601	230	1017	-.138	.067	.096	-.458
2200	2076	-.168	.120	.587	-.234	2200	2126	-.268	.073	.081	-.552	230	1018	-.235	.083	-.035	-.556
2200	2077	-.225	.121	.703	-.060	2200	2127	-.176	.050	-.004	-.378	230	1019	-.377	.136	-.049	-.981
2200	2078	-.235	.102	.679	-.001	230	801	-.209	.063	-.011	-.504	230	1020	-.419	.137	-.021	-1.045
2200	2079	-.185	.081	.491	-.005	230	802	-.185	.068	-.030	-.537	230	1021	-.406	.105	-.029	-.806
2200	2080	-.125	.052	.392	-.013	230	803	-.194	.069	-.020	-.447	230	1022	-.605	.125	-.205	-1.044
2200	2081	-.034	.048	.277	-.232	230	804	-.174	.044	-.049	-.349	230	1023	-.754	.144	-.340	-1.245
2200	2082	-.188	.070	.038	-.531	230	805	-.232	.090	-.016	-.677	230	1024	-.742	.138	-.411	-1.183
2200	2083	-.406	.111	-.098	-.795	230	806	-.126	.068	.477	-.043	230	1025	-.737	.152	-.386	-1.213
2200	2084	-.434	.102	-.180	-.836	230	807	.029	.089	.383	-.442	230	1026	-.606	.120	-.279	-.991
2200	2085	-.423	.116	-.037	-.909	230	901	.024	.083	.284	-.298	230	1027	-.292	.108	-.139	-.699
2200	2086	-.254	.116	.059	-.792	230	902	.019	.065	.233	-.255	230	1028	.102	.119	.587	-.268
2200	2087	-.157	.073	.105	-.554	230	903	-.098	.051	.113	-.280	230	1029	.323	.153	.794	-.088
2200	2088	-.121	.052	.057	-.440	230	905	-1.142	.221	-.278	-1.969	230	1030	.344	.180	.856	-.420
2200	2089	-.165	.058	.021	-.495	230	906	-1.310	.365	-.070	-2.578	230	1031	-.153	.077	.170	-.747
2200	2090	-.153	.056	.029	-.526	230	907	-.656	.128	-.310	-1.232	230	1032	-.116	.064	.119	-.500
2200	2091	-.033	.119	.604	-.323	230	908	-.365	.072	.156	-.722	230	1033	-.147	.065	.123	-.426
2200	2092	.179	.076	.600	-.040	230	909	-.214	.103	.154	-1.006	230	1034	-.216	.056	.008	-.504
2200	2093	.177	.081	.675	-.041	230	910	-.088	.118	.451	-.433	230	1035	-.253	.068	-.034	-.822
2200	2094	.182	.073	.495	-.018	230	911	-.170	.085	.052	-.565	230	1036	-.312	.097	-.018	-.867
2200	2095	.194	.090	.491	-.060	230	912	-.200	.056	.061	-.419	230	1037	-.497	.153	-.015	-1.144
2200	2096	.011	.042	.186	-.117	230	913	-.136	.041	.081	-.537	230	1038	-.834	.162	-.322	-1.450
2200	2097	-.173	.051	-.018	-.353	230	914	-.389	.127	.015	-.966	230	1039	-.953	.172	-.477	-1.585
2200	2098	-.277	.072	-.194	-.533	230	915	-.198	.050	.024	-.600	230	1040	-.889	.169	-.470	-1.507
2200	2099	-.285	.071	-.116	-.590	230	916	-.250	.149	.074	-1.062	230	1041	-.681	.149	-.195	-1.151
2200	2100	-.181	.062	-.004	-.424	230	917	-.343	.119	.005	-.796	230	1042	-.391	.115	-.062	-.793
2200	2101	-.157	.059	-.035	-.414	230	918	-.080	.090	-.364	-.234	230	1043	-.027	.123	.515	-.395
2200	2102	-.128	.044	-.010	-.347	230	919	-1.300	.241	-.487	-2.240	230	1044	-.272	.155	.819	-.472
2200	2103	-.136	.046	-.003	-.353	230	921	-.137	.052	.064	-.373	230	1045	-.332	.205	.873	-1.126
2200	2104	-.111	.044	-.008	-.352	230	922	-.095	.123	.565	-.388	230	1046	-.163	.071	.129	-.757
2200	2105	-.156	.057	-.004	-.451	230	923	-.009	.056	.251	-.226	230	1047	-.165	.076	.103	-.651
2200	2106	-.263	.104	.735	-.005	230	924	-.061	.047	.146	-.221	230	1048	-.150	.083	.103	-.728
2200	2107	-.131	.052	.060	-.359	230	925	-.058	.081	.313	-.415	230	1049	-.177	.074	.067	-.763
2200	2108	-.078	.060	.177	-.306	230	926	-.050	.063	.198	-.414	230	1050	-.244	.064	-.014	-.662
2200	2109	-.134	.050	.024	-.386	230	1001	-.112	.059	.101	-.449	230	1051	-.317	.099	.035	-.774
2200	2110	-.153	.053	.025	-.381	230	1002	-.146	.051	.043	-.351	230	1052	-.417	.154	.016	-1.082
2200	2111	-.246	.111	.776	-.008	230	1003	-.170	.064	.108	-.501	230	1053	-.666	.189	-.042	-1.306
2200	21111	-.230	.100	.668	-.013	230	1004	-.242	.103	.054	-.672	230	1054	-.854	.181	-.384	-1.367
2200	21112	-.217	.105	.666	-.024	230	1005	-.496	.193	-.065	-1.206	230	1055	-.867	.191	-.420	-1.467
2200	21113	-.241	.105	.666	-.022	230	1006	-.968	.307	-.157	-2.129	230	1056	-.645	.159	-.247	-1.212
2200	21114	-.099	.049	.312	-.053	230	1007	-1.332	.427	-.143	-3.085	230	1057	-.356	.129	-.008	-.854
2200	21115	-.130	.041	-.002	-.284	230	1008	-1.074	.375	-.226	-2.550	230	1058	-.039	.110	.344	-.382
2200	21116	-.204	.056	-.049	-.468	230	1009	-.689	.206	-.251	-1.712	230	1059	-.176	.171	.690	-.817
2200	21117	-.191	.056	-.036	-.418	230	1010	-.569	.120	-.279	-1.166	230	1060	.214	.219	.812	-.747

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	1061	.152	.080	.110	-.545	2330	1111	-.183	.057	-.021	-.424	2330	2036	-.046	.051	.208	-.247
2330	1062	-.190	.072	.046	-1.013	2330	1112	-.157	.051	-.019	-.386	2330	2037	-.246	.083	.131	-.543
2330	1063	-.215	.091	.069	-.793	2330	1113	-.177	.078	.020	-.729	2330	2038	-.535	.134	-.145	-1.113
2330	1064	-.203	.092	.131	-.735	2330	1114	-.160	.057	.006	-.422	2330	2039	-.601	.130	-.276	-1.107
2330	1065	-.205	.086	.060	-.879	2330	1115	-.204	.083	.005	-.618	2330	2040	-.510	.111	-.094	-.937
2330	1066	-.268	.081	-.026	-.779	2330	1116	-.302	.132	.034	-.804	2330	2041	-.311	.144	.126	-.928
2330	1067	-.345	.138	-.015	-1.034	2330	1117	-.417	.133	-.108	-1.019	2330	2042	-.165	.101	.157	-.728
2330	1068	-.549	.207	-.014	-1.348	2330	1118	-.361	.097	-.086	-.744	2330	2043	-.130	.075	.122	-.718
2330	1069	-.721	.174	-.199	-1.512	2330	1119	-.251	.084	.071	-.540	2330	2044	-.104	.055	.099	-.401
2330	1070	-.809	.162	-.408	-1.476	2330	1120	-.050	.086	.388	-.595	2330	2045	-.107	.073	.152	-.499
2330	1071	-.673	.147	-.261	-1.190	2330	1121	-.012	.157	.466	-.756	2330	2046	-.345	.154	.891	-.265
2330	1072	-.342	.117	-.009	-.719	2330	1122	-.066	.173	.503	-.723	2330	2047	-.345	.121	.868	-.015
2330	1073	-.029	.116	-.378	-.404	2330	1123	-.241	.102	.707	-.025	2330	2048	-.277	.085	.609	-.042
2330	1074	.101	.171	.605	-.750	2330	1124	.174	.085	.478	-.210	2330	2049	.171	.071	.417	-.048
2330	1075	-.086	.250	.758	-.870	2330	1125	.087	.051	.288	-.049	2330	2050	-.063	.055	.340	-.112
2330	1076	-.160	.071	.040	-.559	2330	2001	.239	.157	.689	-.419	2330	2051	-.072	.055	.162	-.285
2330	1077	-.144	.058	.121	-.644	2330	2002	.100	.110	.571	-.214	2330	2052	-.253	.075	.006	-.517
2330	1078	-.154	.061	.059	-.644	2330	2003	.001	.089	.331	-.317	2330	2053	-.544	.143	.188	-1.125
2330	1079	-.200	.081	.123	-.639	2330	2004	.001	.066	.223	-.202	2330	2054	-.585	.139	.283	-1.145
2330	1080	-.191	.088	.073	-.775	2330	2005	.040	.066	.239	-.215	2330	2055	-.488	.128	.010	-1.140
2330	1081	-.187	.090	.056	-.667	2330	2006	.060	.058	.199	-.254	2330	2056	-.273	.106	.053	-.766
2330	1082	-.198	.099	.031	-.707	2330	2007	-.151	.055	.061	-.346	2330	2057	-.149	.087	.165	-.625
2330	1083	-.346	.182	.036	-1.082	2330	2008	-.295	.061	-.126	-.529	2330	2058	-.120	.066	.118	-.516
2330	1084	-.538	.177	-.112	-1.233	2330	2009	-.380	.088	-.149	-.817	2330	2059	-.114	.067	.111	-.642
2330	1085	-.596	.147	-.243	-1.186	2330	2010	-.379	.152	.021	-1.418	2330	2060	-.106	.058	.096	-.474
2330	1086	-.505	.120	-.191	-.945	2330	2011	-.331	.157	.091	-1.212	2330	2061	-.313	.139	.837	-.208
2330	1087	-.315	.105	.121	-.720	2330	2012	-.228	.099	.047	-.864	2330	2062	.302	.113	.775	-.020
2330	1088	-.052	.096	.455	-.634	2330	2013	-.173	.084	.107	-.706	2330	2063	.233	.101	.638	-.066
2330	1089	-.049	.183	.533	-.955	2330	2014	-.134	.080	.071	-.628	2330	2064	.155	.066	.453	-.020
2330	1090	-.033	.212	.584	-.839	2330	2015	-.110	.067	.123	-.452	2330	2065	-.049	.056	.303	-.103
2330	1091	-.163	.070	.021	-.504	2330	2016	-.379	.162	.832	-.341	2330	2066	-.077	.051	.153	-.262
2330	1092	-.142	.050	.023	-.491	2330	2017	-.320	.126	.805	-.313	2330	2067	-.256	.076	.093	-.562
2330	1093	-.151	.051	.066	-.383	2330	2018	-.231	.101	.647	-.048	2330	2068	-.494	.107	.224	-.891
2330	1094	-.175	.061	.010	-.487	2330	2019	-.138	.081	.432	-.067	2330	2069	-.534	.123	.236	-.974
2330	1095	-.196	.070	.007	-.573	2330	2020	-.074	.064	.327	-.117	2330	2070	-.444	.120	.076	-.975
2330	1096	-.186	.077	.038	-.654	2330	2021	-.034	.064	.301	-.215	2330	2071	-.246	.110	.051	-.825
2330	1097	-.171	.064	.020	-.433	2330	2022	-.188	.071	.163	-.422	2330	2072	-.138	.064	.062	-.576
2330	1098	-.190	.070	.024	-.515	2330	2023	-.429	.099	-.122	-.825	2330	2073	-.127	.063	.078	-.515
2330	1099	-.331	.130	-.005	-.841	2330	2024	-.501	.097	-.230	-.880	2330	2074	-.123	.058	.072	-.564
2330	1100	-.432	.127	-.100	-.832	2330	2025	-.486	.109	-.158	-.952	2330	2075	-.121	.054	.028	-.363
2330	1101	-.465	.127	.161	-1.015	2330	2026	-.321	.110	.030	-.816	2330	2076	-.225	.107	.664	-.203
2330	1102	-.296	.091	-.015	-.593	2330	2027	-.201	.118	.118	-.914	2330	2077	-.232	.107	.775	-.185
2330	1103	-.096	.088	.370	-.459	2330	2028	-.143	.128	.128	-.540	2330	2078	-.207	.090	.628	-.129
2330	1104	-.047	.158	.644	-.529	2330	2029	-.129	.066	.107	-.554	2330	2079	-.145	.076	.493	-.124
2330	1105	-.052	.176	.494	-.683	2330	2030	-.111	.065	.087	-.600	2330	2080	-.067	.047	.269	-.113
2330	1106	-.115	.060	.059	-.455	2330	2031	-.360	.163	.884	-.410	2330	2081	-.071	.041	.115	-.236
2330	1107	-.133	.048	.047	-.443	2330	2032	-.343	.105	.693	-.181	2330	2082	-.226	.064	.020	-.507
2330	1108	-.141	.045	-.021	-.327	2330	2033	-.262	.098	.589	-.029	2330	2083	-.430	.115	-.137	-.903
2330	1109	-.180	.059	-.015	-.417	2330	2034	-.167	.077	.459	-.087	2330	2084	-.402	.098	-.185	-.796
2330	1110	-.186	.063	-.017	-.452	2330	2035	-.081	.065	.357	-.144	2330	2085	-.305	.113	.037	-.909

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
22300	2086	137	089	100	439	240	1028	280	136	711	147	240	1028	280	136	711	147
22300	2087	131	060	044	439	240	1029	439	155	925	013	240	1029	439	155	925	013
22300	2088	117	044	001	333	240	1030	447	150	921	012	240	1030	447	150	921	012
22300	2089	134	048	003	333	240	1031	127	057	075	415	240	1031	127	057	075	415
22300	2090	128	046	006	322	240	1032	094	041	071	279	240	1032	094	041	071	279
22300	2091	127	095	605	327	240	1033	121	033	002	269	240	1033	121	033	002	269
22300	2092	183	069	471	028	240	1034	200	030	101	269	240	1034	200	030	101	269
22300	2093	186	074	486	030	240	1035	270	044	141	440	240	1035	270	044	141	440
22300	2094	157	066	425	013	240	1036	363	081	154	769	240	1036	363	081	154	769
22300	2095	111	073	358	033	240	1037	690	159	286	266	240	1037	690	159	286	266
22300	2096	052	034	114	066	240	1038	909	143	360	382	240	1038	909	143	360	382
22300	2097	174	051	043	038	240	1039	994	173	544	562	240	1039	994	173	544	562
22300	2098	236	070	059	079	240	1040	801	154	388	386	240	1040	801	154	388	386
22300	2099	248	071	050	092	240	1041	503	132	075	903	240	1041	503	132	075	903
22300	2100	148	060	028	069	240	1042	157	108	255	505	240	1042	157	108	255	505
22300	2101	131	054	046	064	240	1043	220	142	674	156	240	1043	220	142	674	156
22300	2102	122	044	035	068	240	1044	403	158	855	000	240	1044	403	158	855	000
22300	2103	120	043	019	022	240	1045	459	165	980	347	240	1045	459	165	980	347
22300	2104	100	035	010	026	240	1046	124	053	097	454	240	1046	124	053	097	454
22300	2105	117	041	010	040	240	1047	123	045	062	311	240	1047	123	045	062	311
22300	2106	140	032	069	033	240	1048	101	033	019	334	240	1048	101	033	019	334
22300	2107	143	047	008	040	240	1049	143	032	024	301	240	1049	143	032	024	301
22300	2108	067	037	111	040	240	1050	261	044	117	117	240	1050	261	044	117	117
22300	2109	134	045	019	044	240	1051	406	090	187	813	240	1051	406	090	187	813
22300	2110	150	069	019	066	240	1052	653	170	263	312	240	1052	653	170	263	312
22300	2111	185	089	032	099	240	1053	836	164	455	347	240	1053	836	164	455	347
22300	2112	166	081	472	033	240	1054	978	180	572	327	240	1054	978	180	572	327
22300	2113	167	080	473	033	240	1055	855	170	447	407	240	1055	855	170	447	407
22300	2114	191	075	496	030	240	1056	520	129	116	970	240	1056	520	129	116	970
22300	2115	073	047	248	046	240	1057	149	117	275	512	240	1057	149	117	275	512
22300	2116	131	038	022	050	240	1058	147	125	623	044	240	1058	147	125	623	044
22300	2117	179	048	075	038	240	1059	312	156	926	199	240	1059	312	156	926	199
22300	2118	179	047	056	033	240	1060	366	156	933	258	240	1060	366	156	933	258
22300	2119	193	045	034	038	240	1061	089	045	076	398	240	1061	089	045	076	398
22300	2120	165	045	030	034	240	1062	124	031	000	291	240	1062	124	031	000	291
22300	2121	162	042	036	034	240	1063	138	031	031	272	240	1063	138	031	031	272
22300	2122	122	045	055	030	240	1064	139	031	022	263	240	1064	139	031	022	263
22300	2123	120	046	014	032	240	1065	225	042	079	225	240	1065	225	042	079	225
22300	2124	132	039	014	032	240	1066	400	067	216	815	240	1066	400	067	216	815
22300	2125	140	048	014	041	240	1067	709	158	306	492	240	1067	709	158	306	492
22300	2126	186	075	105	095	240	1068	836	158	445	433	240	1068	836	158	445	433
22300	2127	189	047	046	085	240	1069	903	176	496	339	240	1069	903	176	496	339
22400	801	184	056	094	033	240	1070	845	158	454	356	240	1070	845	158	454	356
22400	802	133	058	024	032	240	1071	575	135	149	109	240	1071	575	135	149	109
22400	803	173	053	047	034	240	1072	169	112	248	448	240	1072	169	112	248	448
22400	804	148	031	047	034	240	1073	140	131	671	230	240	1073	140	131	671	230
22400	805	198	074	024	034	240	1074	277	143	806	221	240	1074	277	143	806	221
22400	806	102	059	034	034	240	1075	312	162	902	345	240	1075	312	162	902	345
22400	807	023	072	350	411	240	1076	089	034	030	331	240	1076	089	034	030	331
22400	901	081	059	187	146	240	1077	083	031	112	320	240	1077	083	031	112	320

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	1078	.086	.027	.061	-.279	240	2003	-.063	.069	.224	-.394	240	2053	-.565	.123	-.221	-.044
240	1079	.151	.034	.014	-.423	240	2004	-.040	.050	.166	-.217	240	2054	-.436	.104	-.187	-.938
240	1080	.215	.041	-.010	-.474	240	2005	-.075	.050	.145	-.261	240	2055	-.315	.116	-.020	-.620
240	1081	.312	.064	-.072	-.601	240	2006	-.095	.048	.123	-.283	240	2056	-.207	.082	.071	-.685
240	1082	.526	.122	-.164	-.019	240	2007	-.184	.048	.020	-.417	240	2057	-.173	.072	.051	-.526
240	1083	.744	.152	-.335	-.234	240	2008	-.293	.039	-.122	-.597	240	2058	-.097	.048	.089	-.392
240	1084	.790	.165	-.362	-.378	240	2009	-.354	.084	-.131	-.751	240	2059	-.091	.067	.121	-.584
240	1085	.706	.151	-.329	-.180	240	2010	-.389	.142	-.035	-.826	240	2060	-.130	.067	.061	-.685
240	1086	.488	.120	-.164	-.864	240	2011	-.276	.109	-.036	-.826	240	2061	-.111	.194	.774	-.670
240	1087	.222	.114	-.378	-.704	240	2012	-.149	.069	.017	-.702	240	2062	-.187	.125	.649	-.463
240	1088	.055	.113	.589	-.350	240	2013	-.121	.052	.031	-.414	240	2063	-.162	.078	.421	-.190
240	1089	.186	.129	.656	-.403	240	2014	-.099	.046	.038	-.371	240	2064	-.054	.054	.269	-.117
240	1090	.210	.141	.625	-.340	240	2015	-.098	.043	.045	-.283	240	2065	-.046	.043	.136	-.238
240	1091	.092	.034	.005	-.316	240	2016	-.033	.204	.667	-.676	240	2066	-.113	.043	.068	-.255
240	1092	.085	.032	.021	-.262	240	2017	.135	.173	.571	-.854	240	2067	-.275	.073	-.037	-.586
240	1093	.101	.038	-.043	-.281	240	2018	.117	.073	.399	-.160	240	2068	-.510	.110	-.235	-.941
240	1094	.142	.041	-.006	-.319	240	2019	-.063	.059	.296	-.104	240	2069	-.465	.102	-.223	-.885
240	1095	.250	.063	-.043	-.516	240	2020	-.068	.045	.201	-.139	240	2070	-.271	.102	.002	-.876
240	1096	.381	.068	-.012	-.559	240	2021	-.093	.047	.131	-.238	240	2071	-.146	.078	.100	-.547
240	1097	.581	.100	-.086	-.743	240	2022	-.245	.066	.000	-.406	240	2072	-.154	.059	.054	-.519
240	1098	.388	.142	-.201	-.114	240	2023	-.419	.096	.109	-.773	240	2073	-.148	.048	.048	-.460
240	1099	.703	.154	-.319	-.284	240	2024	-.405	.087	-.212	-.720	240	2074	-.093	.054	.080	-.491
240	1100	.628	.139	-.286	-.185	240	2025	-.351	.105	.017	-.744	240	2075	-.092	.056	.087	-.573
240	1101	.441	.106	-.152	-.819	240	2026	-.198	.088	.066	-.559	240	2076	-.121	.141	.512	-.550
240	1102	.262	.089	-.233	-.523	240	2027	-.146	.085	.093	-.248	240	2077	-.137	.103	.522	-.594
240	1103	.001	.095	-.419	-.366	240	2028	-.113	.047	.059	-.518	240	2078	-.148	.068	.436	-.076
240	1104	.084	.121	.542	-.524	240	2029	-.112	.046	.057	-.321	240	2079	-.098	.055	.361	-.067
240	1105	.105	.124	.507	-.407	240	2030	-.097	.047	.066	-.300	240	2080	-.018	.038	.155	-.148
240	1106	.075	.030	-.006	-.331	240	2031	-.118	.228	.732	-.932	240	2081	-.140	.038	.024	-.313
240	1107	.092	.031	.010	-.257	240	2032	-.171	.168	.441	-.406	240	2082	-.224	.060	-.059	-.508
240	1108	.095	.033	-.012	-.283	240	2033	-.135	.088	.437	-.406	240	2083	-.363	.090	-.147	-.717
240	1109	.135	.042	-.003	-.313	240	2034	-.092	.059	.297	-.088	240	2084	-.345	.075	-.160	-.695
240	1110	.138	.050	.112	-.372	240	2035	-.061	.048	.258	-.133	240	2085	-.213	.067	.007	-.528
240	1111	.230	.059	.010	-.530	240	2036	-.157	.047	.035	-.331	240	2086	-.097	.050	.066	-.373
240	1112	.235	.054	-.062	-.414	240	2037	-.352	.085	.093	-.626	240	2087	-.093	.041	-.048	-.408
240	1113	.353	.061	-.001	-.536	240	2038	-.509	.126	.189	-.860	240	2088	-.124	.026	.040	-.293
240	1114	.359	.087	-.110	-.711	240	2039	-.450	.106	.147	-.817	240	2089	-.132	.031	.015	-.284
240	1115	.593	.150	-.119	-.213	240	2040	-.381	.115	.006	-.801	240	2090	-.079	.030	.030	-.236
240	1116	.643	.148	-.283	-.335	240	2041	-.224	.096	.207	-.697	240	2091	.133	.117	.611	-.433
240	1117	.578	.131	-.242	-.138	240	2042	-.129	.078	.167	-.558	240	2092	.112	.085	.488	-.372
240	1118	.387	.102	-.124	-.808	240	2043	-.109	.047	.132	-.341	240	2093	.096	.072	.430	-.130
240	1119	.195	.104	-.212	-.544	240	2044	-.132	.054	.090	-.444	240	2094	.128	.060	.361	-.066
240	1120	.041	.101	.485	-.207	240	2045	-.136	.065	.131	-.506	240	2095	-.025	.053	.245	-.156
240	1121	.130	.114	.640	-.364	240	2046	-.137	.222	.699	-.666	240	2096	-.130	.031	.004	-.237
240	1122	.162	.115	.639	-.363	240	2047	-.206	.140	.608	-.499	240	2097	-.200	.041	-.098	-.379
240	1123	.207	.088	-.024	-.024	240	2048	-.140	.074	.399	-.114	240	2098	-.195	.047	-.085	-.383
240	1124	.170	.084	.575	-.037	240	2049	-.048	.058	.276	-.120	240	2099	-.166	.042	-.028	-.337
240	1125	.082	.055	.329	-.062	240	2050	-.063	.045	.186	-.148	240	2100	-.143	.035	.016	-.307
240	2061	.085	.230	.552	-.856	240	2051	-.126	.045	.045	-.277	240	2101	-.139	.035	.035	-.294
240	2062	.007	.102	.309	-.857	240	2052	-.338	.072	.102	-.603	240	2102	-.082	.027	.011	-.206

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	103	.077	.023	.013	-.177	250	1045	.431	.145	.914	-.015	250	1045	.431	.145	.914	-.015
250	104	.119	.024	-.040	-.220	250	1046	.138	.033	.027	-.310	250	1046	.138	.033	.027	-.310
250	105	.126	.027	-.027	-.228	250	1047	.135	.029	-.010	-.260	250	1047	.135	.029	-.010	-.260
250	106	.213	.093	-.033	-.033	250	1048	.104	.024	.012	-.207	250	1048	.104	.024	.012	-.207
250	107	.135	.038	-.030	-.294	250	1049	.134	.025	.036	-.246	250	1049	.134	.025	.036	-.246
250	108	.050	.052	.149	-.344	250	1050	.233	.033	.135	-.366	250	1050	.233	.033	.135	-.366
250	109	.118	.036	-.034	-.282	250	1051	.092	.023	.189	-.873	250	1051	.092	.023	.189	-.873
250	110	.129	.039	-.017	-.315	250	1052	.092	.023	.233	-.198	250	1052	.092	.023	.233	-.198
250	111	.104	.072	.448	-.096	250	1053	.092	.023	.369	-.11	250	1053	.092	.023	.369	-.11
250	112	.129	.071	.388	-.097	250	1054	.092	.023	.446	-.297	250	1054	.092	.023	.446	-.297
250	113	.129	.071	.388	-.097	250	1055	.092	.023	.194	-.132	250	1055	.092	.023	.194	-.132
250	114	.153	.063	.395	-.010	250	1056	.241	.119	.131	-.679	250	1056	.241	.119	.131	-.679
250	115	.061	.042	-.258	-.044	250	1057	.099	.111	.512	-.246	250	1057	.099	.111	.512	-.246
250	116	.115	.031	-.005	-.255	250	1058	.099	.111	.684	-.009	250	1058	.099	.111	.684	-.009
250	117	.181	.039	-.046	-.330	250	1059	.343	.141	.816	-.007	250	1059	.343	.141	.816	-.007
250	118	.145	.034	-.026	-.274	250	1060	.351	.132	.845	-.009	250	1060	.351	.132	.845	-.009
250	119	.142	.035	-.025	-.313	250	1061	.092	.023	.045	-.227	250	1061	.092	.023	.045	-.227
250	120	.129	.024	-.049	-.240	250	1062	.133	.023	.026	-.213	250	1062	.133	.023	.026	-.213
250	121	.133	.028	-.031	-.257	250	1063	.092	.023	.045	-.218	250	1063	.092	.023	.045	-.218
250	122	.090	.026	-.000	-.198	250	1064	.134	.023	.026	-.222	250	1064	.134	.023	.026	-.222
250	123	.076	.022	-.006	-.151	250	1065	.192	.023	.066	-.387	250	1065	.192	.023	.066	-.387
250	124	.10	.022	-.029	-.193	250	1066	.134	.023	.189	-.761	250	1066	.134	.023	.189	-.761
250	125	.111	.026	-.016	-.220	250	1067	.092	.023	.140	-.264	250	1067	.092	.023	.140	-.264
250	126	.266	.062	-.111	-.574	250	1068	.603	.061	.329	-.126	250	1068	.603	.061	.329	-.126
250	127	.177	.039	-.044	-.333	250	1069	.702	.153	.327	-.126	250	1069	.702	.153	.327	-.126
250	128	.263	.041	-.138	-.435	250	1070	.570	.129	.169	-.006	250	1070	.570	.129	.169	-.006
250	129	.172	.042	-.013	-.357	250	1071	.277	.120	.144	-.744	250	1071	.277	.120	.144	-.744
250	130	.103	.046	-.154	-.277	250	1072	.081	.119	.623	-.357	250	1072	.081	.119	.623	-.357
250	131	.194	.037	-.083	-.371	250	1073	.284	.132	.720	-.041	250	1073	.284	.132	.720	-.041
250	132	.220	.077	-.014	-.623	250	1074	.092	.023	.788	-.003	250	1074	.092	.023	.788	-.003
250	133	.037	.052	.321	-.097	250	1075	.296	.091	.838	-.020	250	1075	.296	.091	.838	-.020
250	134	.032	.081	.249	-.473	250	1076	.091	.023	.002	-.207	250	1076	.091	.023	.002	-.207
250	135	.055	.045	.224	-.131	250	1077	.092	.023	.008	-.177	250	1077	.092	.023	.008	-.177
250	136	.047	.047	.173	-.199	250	1078	.092	.023	.020	-.164	250	1078	.092	.023	.020	-.164
250	137	.160	.082	-.177	-.793	250	1079	.137	.023	.052	-.244	250	1079	.137	.023	.052	-.244
250	138	.742	.144	-.337	-.192	250	1080	.189	.023	.086	-.314	250	1080	.189	.023	.086	-.314
250	139	.724	.169	-.112	-.331	250	1081	.269	.055	.063	-.496	250	1081	.269	.055	.063	-.496
250	140	.398	.092	-.110	-.739	250	1082	.480	.116	.250	-.992	250	1082	.480	.116	.250	-.992
250	141	.263	.054	-.101	-.478	250	1083	.624	.150	.315	-.163	250	1083	.624	.150	.315	-.163
250	142	.052	.083	.364	-.235	250	1084	.458	.162	.214	-.178	250	1084	.458	.162	.214	-.178
250	143	.143	.064	.364	-.074	250	1085	.463	.117	.102	-.877	250	1085	.463	.117	.102	-.877
250	144	.048	.022	-.022	-.149	250	1086	.223	.090	.075	-.581	250	1086	.223	.090	.075	-.581
250	145	.130	.039	-.054	-.321	250	1087	.013	.094	.360	-.253	250	1087	.013	.094	.360	-.253
250	146	.111	.078	.139	-.629	250	1088	.197	.102	.690	-.027	250	1088	.197	.102	.690	-.027
250	147	.083	.035	-.046	-.343	250	1089	.232	.114	.834	-.033	250	1089	.232	.114	.834	-.033
250	148	.153	.023	-.037	-.240	250	1090	.237	.102	.804	-.038	250	1090	.237	.102	.804	-.038
250	149	.191	.035	-.044	-.323	250	1091	.089	.023	.000	-.178	250	1091	.089	.023	.000	-.178
250	150	.116	.022	-.003	-.279	250	1092	.082	.022	.000	-.167	250	1092	.082	.022	.000	-.167
250	151	.092	.053	.301	-.086	250	1093	.094	.024	.008	-.198	250	1093	.094	.024	.008	-.198
250	152	.775	.125	-.383	-.196	250	1094	.124	.028	.013	-.263	250	1094	.124	.028	.013	-.263

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2550	1095	.189	.043	.059	.372	2550	2020	.062	.033	.073	-.229	2550	2070	.171	.068	.040	-.581
2550	1096	.234	.045	.072	.425	2550	2021	.131	.039	.024	-.308	2550	2071	.124	.053	.057	-.384
2550	1097	.393	.079	.212	.776	2550	2022	.293	.065	.079	-.506	2550	2072	.156	.039	.016	-.391
2550	1098	.537	.108	.312	.890	2550	2023	.466	.107	.321	-.823	2550	2073	.148	.030	.030	-.283
2550	1099	.555	.127	.201	.995	2550	2024	.403	.096	.136	-.718	2550	2074	.091	.031	.014	-.306
2550	1100	.423	.118	.034	.893	2550	2025	.273	.095	.021	-.628	2550	2075	.092	.031	.027	-.272
2550	1101	.213	.094	.112	.591	2550	2026	.153	.066	.047	-.489	2550	2076	.187	.185	.400	-1.056
2550	1102	.003	.081	.338	.261	2550	2027	.127	.045	.018	-.464	2550	2077	.122	.213	.372	-1.136
2550	1103	.132	.089	.574	.126	2550	2028	.117	.028	.031	-.231	2550	2078	.014	.111	.329	-.596
2550	1104	.168	.089	.512	.171	2550	2029	.122	.032	.000	-.242	2550	2079	.016	.045	.172	-.315
2550	1105	.177	.086	.600	.097	2550	2030	.113	.033	.000	-.235	2550	2080	.092	.030	.021	-.241
2550	1106	.076	.021	.017	.166	2550	2031	.297	.172	.395	-1.140	2550	2081	.203	.038	.052	-.359
2550	1107	.089	.023	.010	.180	2550	2032	.311	.221	.279	-1.394	2550	2082	.272	.061	.102	-.515
2550	1108	.088	.022	.019	.167	2550	2033	.105	.185	.279	-1.384	2550	2083	.397	.088	.198	-.704
2550	1109	.129	.035	.024	.320	2550	2034	.011	.048	.187	-.335	2550	2084	.354	.070	.168	-.618
2550	1110	.073	.046	.175	.198	2550	2035	.083	.036	.103	-.276	2550	2085	.220	.054	.035	-.484
2550	1111	.175	.047	.029	.365	2550	2036	.227	.042	.062	-.376	2550	2086	.123	.039	.031	-.389
2550	1112	.217	.038	.098	.366	2550	2037	.406	.080	.197	-.672	2550	2087	.117	.031	.000	-.253
2550	1113	.221	.042	.097	.384	2550	2038	.508	.119	.240	-.883	2550	2088	.144	.023	.071	-.229
2550	1114	.337	.065	.185	.567	2550	2039	.419	.102	.097	-.812	2550	2089	.138	.027	.010	-.314
2550	1115	.506	.115	.246	.981	2550	2040	.251	.081	.004	-.599	2550	2090	.086	.026	.033	-.233
2550	1116	.484	.118	.221	.960	2550	2041	.185	.062	.036	-.568	2550	2091	.036	.026	.033	-.233
2550	1117	.377	.112	.079	.749	2550	2042	.129	.048	.071	-.351	2550	2092	.016	.112	.362	-.531
2550	1118	.166	.094	.261	.489	2550	2043	.113	.034	.066	-.258	2550	2093	.006	.080	.335	-.574
2550	1119	.026	.102	.585	.287	2550	2044	.147	.037	.013	-.405	2550	2094	.066	.053	.396	-.261
2550	1120	.193	.099	.781	.043	2550	2045	.152	.043	.029	-.430	2550	2095	.060	.048	.172	-.235
2550	1121	.201	.095	.662	.102	2550	2046	.275	.192	.652	-.994	2550	2096	.196	.038	.074	-.350
2550	1122	.203	.088	.586	.066	2550	2047	.234	.245	.370	-1.403	2550	2097	.259	.048	.104	-.435
2550	1123	.148	.079	.528	.029	2550	2048	.083	.161	.195	-.979	2550	2098	.246	.054	.098	-.444
2550	1124	.137	.083	.567	.079	2550	2049	.061	.055	.203	-.685	2550	2099	.222	.044	.111	-.407
2550	1125	.076	.067	.396	.098	2550	2050	.088	.037	.054	-.432	2550	2100	.197	.033	.096	-.308
2550	1126	.459	.173	.249	.083	2550	2051	.190	.047	.014	-.331	2550	2101	.177	.033	.069	-.302
2550	1127	.328	.234	.206	.076	2550	2052	.385	.080	.183	-.628	2550	2102	.111	.029	.003	-.240
2550	1128	.113	.096	.137	.077	2550	2053	.549	.125	.238	-.930	2550	2103	.089	.021	.007	-.175
2550	1129	.065	.039	.094	.268	2550	2054	.366	.098	.034	-.721	2550	2104	.125	.021	.052	-.214
2550	1130	.095	.035	.074	.268	2550	2055	.185	.079	.048	-.681	2550	2105	.151	.023	.045	-.229
2550	1131	.123	.034	.026	.273	2550	2056	.169	.054	.004	-.432	2550	2106	.151	.023	.045	-.229
2550	1132	.215	.041	.086	.347	2550	2057	.169	.047	.013	-.474	2550	2107	.188	.038	.084	-.379
2550	1133	.330	.070	.161	.530	2550	2058	.102	.031	.033	-.313	2550	2108	.066	.052	.192	-.302
2550	1134	.434	.125	.104	.936	2550	2059	.099	.036	.025	-.380	2550	2109	.153	.036	.046	-.338
2550	1135	.444	.160	.060	.161	2550	2060	.136	.033	.030	-.403	2550	2110	.178	.039	.068	-.361
2550	1136	.203	.080	.027	.659	2550	2061	.249	.206	.451	-1.133	2550	2111	.013	.052	.223	-.232
2550	1137	.118	.040	.013	.489	2550	2062	.119	.228	.403	-1.480	2550	2112	.018	.048	.177	-.250
2550	1138	.121	.034	.005	.296	2550	2063	.002	.120	.248	-.899	2550	2113	.002	.072	.263	-.396
2550	1139	.111	.035	.002	.277	2550	2064	.043	.040	.108	-.248	2550	2114	.073	.051	.333	-.109
2550	1140	.108	.032	.010	.279	2550	2065	.123	.034	.017	-.287	2550	2115	.016	.039	.199	-.100
2550	1141	.322	.133	.296	.732	2550	2066	.173	.044	.038	-.385	2550	2116	.144	.032	.029	-.294
2550	1142	.309	.220	.351	.988	2550	2067	.330	.075	.129	-.607	2550	2117	.220	.041	.113	-.391
2550	1143	.056	.151	.287	.955	2550	2068	.514	.109	.246	-.945	2550	2118	.188	.037	.094	-.350
2550	1144	.021	.047	.146	.370	2550	2069	.407	.098	.111	-.886	2550	2119	.196	.040	.100	-.362

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	120	.173	.027	.095	.287	260	1012	.125	.111	.628	-.175	260	1062	-.134	.018	-.072	-.198
250	121	-.164	.029	-.076	-.306	260	1013	.172	.121	.665	-.201	260	1063	-.142	.020	-.055	-.219
250	122	-.102	.028	-.004	-.230	260	1014	.183	.119	.597	-.206	260	1064	-.120	.022	-.029	-.201
250	123	-.086	.022	-.008	-.171	260	1015	.205	.133	.608	-.261	260	1065	-.171	.031	-.071	-.333
250	124	.115	.021	-.041	-.186	260	1016	-.124	.032	-.031	-.392	260	1066	-.303	.061	-.157	-.669
250	125	.122	.024	-.034	-.208	260	1017	-.110	.036	-.002	-.407	260	1067	-.532	.120	-.254	-1.074
250	126	.324	.069	-.172	-.628	260	1018	-.145	.038	-.024	-.458	260	1068	-.577	.137	-.232	-1.129
250	127	.233	.043	-.111	-.460	260	1019	-.165	.054	-.020	-.723	260	1069	-.493	.146	-.143	-.944
260	801	-.224	.037	-.102	-.365	260	1020	-.164	.057	-.022	-.682	260	1070	-.319	.116	.000	-.724
260	802	-.117	.042	.052	-.326	260	1021	-.234	.070	-.041	-.620	260	1071	-.040	.113	.390	-.521
260	803	-.054	.050	-.252	-.212	260	1022	-.499	.111	-.218	-.899	260	1072	.243	.122	.757	-.072
260	804	-.203	.035	-.096	-.344	260	1023	-.597	.135	-.281	-1.034	260	1073	.349	.134	.806	-.009
260	805	-.176	.072	-.160	-.574	260	1024	-.438	.122	-.108	-.851	260	1074	.270	.124	.699	-.053
260	806	-.029	.047	-.218	-.241	260	1025	-.220	.104	-.160	-.601	260	1075	.222	.128	.709	-.143
260	807	-.121	.097	-.240	-.661	260	1026	-.060	.101	-.417	-.317	260	1076	-.100	.022	-.010	-.220
260	901	-.013	.054	-.215	-.231	260	1027	.335	.140	.788	-.116	260	1077	-.091	.019	-.014	-.169
260	902	-.059	.060	-.176	-.325	260	1028	.478	.154	.987	-.027	260	1078	-.088	.017	-.027	-.197
260	903	-.235	.120	-.171	-.878	260	1029	.415	.145	.896	-.015	260	1079	-.117	.021	-.037	-.213
260	905	.542	.110	-.217	-1.394	260	1030	.339	.131	.808	-.019	260	1080	-.149	.027	-.050	-.255
260	906	.562	.118	-.219	-.971	260	1031	-.154	.025	-.077	-.330	260	1081	-.221	.050	-.078	-.579
260	907	.223	.098	-.134	-.809	260	1032	-.103	.021	-.036	-.249	260	1082	-.393	.097	-.179	-.778
260	908	-.163	.049	-.061	-.478	260	1033	-.103	.020	-.032	-.191	260	1083	-.497	.128	-.174	-.945
260	909	-.045	.061	-.332	-.278	260	1034	-.153	.020	-.082	-.232	260	1084	-.419	.128	-.047	-.905
260	910	-.093	.085	-.373	-.205	260	1035	-.205	.031	-.094	-.344	260	1085	-.227	.104	.154	-.661
260	911	-.055	.038	.087	-.262	260	1036	-.288	.080	-.103	-.725	260	1086	-.007	.085	.351	-.321
260	912	-.119	.083	.145	-.481	260	1037	-.528	.118	-.217	-.971	260	1087	.177	.097	.549	-.082
260	913	-.337	.144	.103	-.919	260	1038	-.684	.129	-.308	-1.129	260	1088	.255	.104	.720	-.005
260	914	-.046	.050	.190	-.318	260	1039	-.592	.143	-.104	-1.150	260	1089	.216	.114	.769	-.090
260	915	-.117	.055	.109	-.368	260	1040	-.292	.119	-.177	-.741	260	1090	-.184	.099	.646	-.068
260	916	-.132	.075	.142	-.682	260	1041	-.058	.111	-.496	-.358	260	1091	-.098	.022	-.021	-.202
260	917	-.075	.043	.115	-.426	260	1042	.323	.131	.776	-.017	260	1092	-.090	.020	-.019	-.182
260	918	-.041	.065	-.266	-.285	260	1043	.453	.166	1.011	-.021	260	1093	-.093	.021	.004	-.172
260	919	-.585	.095	-.326	-.945	260	1044	.401	.151	.946	-.031	260	1094	-.120	.027	.020	-.252
260	921	-.185	.046	-.030	-.421	260	1045	.308	.138	.804	-.080	260	1095	-.139	.036	-.002	-.307
260	922	-.187	.105	-.233	-.626	260	1046	-.137	.019	-.072	-.201	260	1096	-.187	.040	-.019	-.335
260	923	-.185	.062	-.025	-.480	260	1047	-.137	.019	-.072	-.204	260	1097	-.309	.073	-.146	-.670
260	924	-.158	.039	-.001	-.340	260	1048	-.100	.019	-.034	-.196	260	1098	-.387	.092	-.188	-.780
260	925	-.229	.084	-.135	-.736	260	1049	-.124	.022	-.034	-.212	260	1099	-.347	.101	-.108	-.748
260	926	-.213	.124	-.188	-.740	260	1050	-.211	.028	-.111	-.310	260	1100	-.204	.087	.061	-.556
260	1001	-.133	.039	-.022	-.321	260	1051	-.332	.079	-.153	-.808	260	1101	-.021	.082	.288	-.301
260	1002	-.172	.047	-.055	-.375	260	1052	-.512	.120	-.230	-.983	260	1102	.138	.080	.559	-.086
260	1003	-.169	.061	.007	-.511	260	1053	-.613	.144	-.261	-1.066	260	1103	.189	.089	.655	-.017
260	1004	-.148	.075	-.028	-.598	260	1054	-.567	.143	-.121	-1.059	260	1104	.148	.082	.492	-.040
260	1005	-.203	.106	-.035	-.858	260	1055	-.333	.131	-.203	-.752	260	1105	.142	.085	.584	-.049
260	1006	-.335	.143	-.044	-1.546	260	1056	.009	.113	-.471	-.359	260	1106	-.088	.019	-.022	-.153
260	1007	-.434	.169	-.074	-1.548	260	1057	.277	.117	.734	-.064	260	1107	-.096	.021	-.026	-.171
260	1008	-.407	.135	-.031	-1.074	260	1058	.366	.128	.829	-.049	260	1108	-.090	.019	-.024	-.165
260	1009	-.349	.091	-.090	-.717	260	1059	.305	.137	.795	-.037	260	1109	-.137	.037	-.026	-.356
260	1010	-.259	.068	-.024	-.562	260	1060	.277	.126	.729	-.070	260	1110	-.013	.054	-.255	-.130
260	1011	-.079	.087	-.311	-.411	260	1061	-.105	.021	-.632	-.196	260	1111	-.112	.045	-.092	-.310

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	1112	-.168	.035	-.047	-.328	260	2037	-.354	.077	-.061	-.738	260	2087	-.129	.028	-.044	-.298
260	1113	-.172	.034	-.019	-.349	260	2038	-.395	.096	-.128	-.717	260	2088	-.152	.022	-.068	-.251
260	1114	-.264	.054	-.093	-.515	260	2039	-.289	.079	-.064	-.615	260	2089	-.144	.022	-.057	-.232
260	1115	-.368	.095	-.150	-.798	260	2040	-.190	.049	-.030	-.511	260	2090	-.094	.021	-.010	-.170
260	1116	-.290	.096	-.064	-.728	260	2041	-.167	.046	-.013	-.388	260	2091	-.236	.140	.103	-1.146
260	1117	-.146	.095	.211	-.441	260	2042	-.118	.035	-.002	-.321	260	2092	-.257	.142	.148	-1.131
260	1118	-.044	.086	.441	-.239	260	2043	-.114	.027	-.023	-.243	260	2093	-.222	.156	.124	-1.050
260	1119	-.186	.104	.615	-.124	260	2044	-.150	.024	-.076	-.268	260	2094	-.080	.106	.233	-.687
260	1120	-.253	.104	.739	-.021	260	2045	-.155	.027	-.071	-.295	260	2095	-.083	.079	.295	-.487
260	1121	-.180	.088	.616	-.024	260	2046	-.459	.150	-.081	-1.370	260	2096	-.195	.048	.042	-.371
260	1122	-.147	.077	.545	-.038	260	2047	-.467	.176	-.132	-1.310	260	2097	-.246	.050	.053	-.478
260	1123	-.075	.084	.556	-.195	260	2048	-.437	.206	-.107	-1.318	260	2098	-.228	.051	-.019	-.500
260	1124	-.089	.096	.654	-.207	260	2049	-.223	.144	-.128	-1.062	260	2099	-.217	.038	-.110	-.366
260	1125	-.078	.083	.418	-.111	260	2050	-.144	.072	-.089	-.651	260	2100	-.207	.037	-.119	-.342
260	2001	-.539	.142	-.150	-1.591	260	2051	-.212	.060	-.203	-.572	260	2101	-.178	.026	-.091	-.324
260	2002	-.534	.147	-.028	-1.276	260	2052	-.357	.074	-.066	-.663	260	2102	-.115	.023	-.031	-.236
260	2003	-.427	.177	.027	-1.060	260	2053	-.456	.107	-.195	-.940	260	2103	-.097	.020	-.037	-.188
260	2004	-.124	.091	.135	-.731	260	2054	-.258	.072	-.055	-.616	260	2104	-.133	.020	-.044	-.230
260	2005	-.102	.050	.143	-.549	260	2055	-.144	.047	-.022	-.368	260	2105	-.137	.022	-.032	-.242
260	2006	-.233	.040	.058	-.429	260	2056	-.162	.036	-.054	-.355	260	2106	-.086	.086	.528	-.370
260	2007	-.233	.054	.046	-.602	260	2057	-.166	.031	-.069	-.334	260	2107	-.196	.038	-.103	-.137
260	2008	-.381	.109	.086	-.211	260	2058	-.104	.023	-.024	-.194	260	2108	-.033	.077	.347	-.346
260	2009	-.622	.249	.131	-.816	260	2059	-.104	.021	-.021	-.192	260	2109	-.149	.038	-.049	-.318
260	2010	-.508	.201	-.062	-1.359	260	2060	-.141	.022	-.049	-.220	260	2110	-.186	.037	-.080	-.392
260	2011	-.174	.072	-.012	-.643	260	2061	-.531	.188	-.049	-1.776	260	2111	-.110	.077	.117	-.498
260	2012	-.116	.033	-.013	-.310	260	2062	-.474	.209	-.129	-1.776	260	2112	-.147	.072	.040	-.532
260	2013	-.121	.030	-.012	-.272	260	2063	-.301	.229	-.151	-1.326	260	2113	-.174	.097	.079	-.860
260	2014	-.115	.032	-.017	-.283	260	2064	-.179	.116	-.109	-.806	260	2114	-.033	.071	.308	-.451
260	2015	-.112	.032	-.005	-.301	260	2065	-.186	.065	-.046	-.663	260	2115	-.007	.055	.384	-.129
260	2016	-.483	.113	-.144	-1.003	260	2066	-.199	.051	-.014	-.507	260	2116	-.144	.032	-.030	-.252
260	2017	-.521	.135	-.044	-1.248	260	2067	-.290	.067	-.032	-.510	260	2117	-.226	.038	-.117	-.353
260	2018	-.451	.200	.214	-.209	260	2068	-.409	.086	-.174	-.708	260	2118	-.190	.035	-.104	-.334
260	2019	-.147	.127	.193	-.784	260	2069	-.294	.066	-.100	-.544	260	2119	-.201	.038	-.091	-.349
260	2020	-.101	.055	.116	-.485	260	2070	-.144	.039	-.012	-.333	260	2120	-.183	.024	-.104	-.279
260	2021	-.169	.048	-.026	-.490	260	2071	-.130	.033	-.005	-.293	260	2121	-.167	.024	-.089	-.285
260	2022	-.284	.062	-.062	-.754	260	2072	-.166	.025	-.083	-.280	260	2122	-.109	.022	-.026	-.202
260	2023	-.410	.096	-.149	-.538	260	2073	-.160	.024	-.078	-.290	260	2123	-.097	.020	-.037	-.179
260	2024	-.332	.075	-.126	-.598	260	2074	-.098	.021	-.022	-.189	260	2124	-.126	.019	-.047	-.205
260	2025	-.211	.068	-.021	-.572	260	2075	-.100	.022	-.012	-.176	260	2125	-.133	.022	-.051	-.230
260	2026	-.142	.053	-.028	-.471	260	2076	-.448	.190	.001	-1.564	260	2126	-.310	.054	-.163	-.534
260	2027	-.127	.037	-.010	-.290	260	2077	-.442	.239	.133	-1.927	260	2127	-.243	.039	-.099	-.411
260	2028	-.116	.025	-.040	-.215	260	2078	-.204	.194	.346	-1.297	270	801	-.162	.034	.037	-.307
260	2029	-.125	.029	-.042	-.244	260	2079	-.099	.105	.212	-.716	270	802	-.050	.037	.130	-.227
260	2030	-.118	.029	-.026	-.243	260	2080	-.159	.054	.059	-.492	270	803	-.009	.059	.325	-.146
260	2031	-.454	.127	-.021	-1.098	260	2081	-.236	.053	-.029	-.587	270	804	-.206	.034	-.087	-.337
260	2032	-.353	.135	-.054	-.400	260	2082	-.275	.064	-.047	-.524	270	805	-.177	.087	.269	-.537
260	2033	-.485	.201	.138	-.760	260	2083	-.353	.081	-.133	-.663	270	806	-.074	.058	.170	-.343
260	2034	-.149	.149	.172	-.760	260	2084	-.314	.058	-.167	-.597	270	807	-.198	.113	.132	-.815
260	2035	-.149	.086	.148	-.757	260	2085	-.223	.042	-.049	-.429	270	901	-.024	.051	.143	-.372
260	2036	-.239	.059	-.028	-.580	260	2086	-.139	.031	-.038	-.297	270	902	-.132	.074	.070	-.555

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	903	.391	.168	.063	-1.322	270	1029	.314	.139	.787	-1.143	270	1079	-.087	.022	-.009	-1.179
270	905	.486	.095	-.227	-.902	270	1030	.219	.123	.647	-.208	270	1080	-.099	.027	-.007	-2.201
270	906	.511	.100	-.215	-1.152	270	1031	.177	.030	-.064	-.323	270	1081	-.152	.046	-.028	-.362
270	907	.316	.126	-.140	-.757	270	1032	.113	.023	-.033	-.196	270	1082	-.262	.083	-.077	-.662
270	908	.111	.082	.224	-.530	270	1033	-.101	.021	-.011	-.203	270	1083	-.319	.116	-.014	-.847
270	909	.033	.094	.398	-.372	270	1034	.131	.021	-.038	-.215	270	1084	-.200	.109	.163	-.738
270	910	.068	.100	.427	-.222	270	1035	.167	.030	-.052	-.272	270	1085	-.048	.094	.331	-.476
270	911	.072	.047	.103	-.315	270	1036	.239	.083	-.074	-.739	270	1086	.124	.082	.512	-.168
270	912	.128	.098	.249	-.464	270	1037	.381	.097	-.120	-.717	270	1087	.225	.106	.637	-.035
270	913	.475	.145	.123	-1.061	270	1038	.489	.120	.146	-.859	270	1088	.224	.114	.752	-.067
270	914	.078	.090	.222	-.453	270	1039	.322	.119	.077	-.721	270	1089	.121	.100	.568	-.232
270	915	.128	.074	.168	-.457	270	1040	.027	.103	.307	-.355	270	1090	.075	.086	.480	-.184
270	916	.179	.120	.214	-.658	270	1041	.231	.115	.719	-.120	270	1091	-.105	.021	-.030	-.188
270	917	.064	.066	.192	-.335	270	1042	.374	.133	.865	-.048	270	1092	-.091	.019	-.024	-.175
270	918	.002	.060	.218	-.268	270	1043	.378	.156	.885	-.025	270	1093	-.085	.020	.010	-.216
270	919	.543	.085	.267	-.969	270	1044	.268	.135	.814	-.085	270	1094	-.098	.026	-.003	-.237
270	920	.188	.049	.029	-.736	270	1045	.207	.119	.639	-.098	270	1095	-.076	.033	.049	-.212
270	921	.212	.113	.168	-.333	270	1046	.156	.024	.079	-.287	270	1096	-.116	.036	-.002	-.251
270	922	.244	.089	.012	-.688	270	1047	.145	.022	.071	-.250	270	1097	-.185	.039	-.040	-.474
270	923	.181	.042	.042	-.368	270	1048	.095	.021	-.007	-.168	270	1098	-.210	.075	-.022	-.591
270	924	.304	.106	.050	-.786	270	1049	.097	.022	-.008	-.166	270	1099	-.138	.085	.106	-.562
270	925	.177	.158	.177	-.950	270	1050	.155	.027	-.057	-.263	270	1100	-.009	.078	.302	-.362
270	926	.118	.034	.008	-.301	270	1051	.246	.069	.083	-.612	270	1101	.120	.075	.459	-.092
270	1001	.113	.032	.007	-.308	270	1052	.343	.100	.090	-.839	270	1102	.203	.080	.600	-.001
270	1002	.109	.034	.001	-.369	270	1053	.406	.126	.034	-.921	270	1103	.176	.089	.581	-.042
270	1003	.088	.034	.035	-.470	270	1054	.294	.117	.039	-.727	270	1104	.071	.075	.534	-.100
270	1004	.136	.052	.026	-.576	270	1055	.065	.118	.429	-.454	270	1105	.039	.076	.468	-.165
270	1005	.266	.032	.058	-.706	270	1056	.205	.120	.618	-.192	270	1106	-.096	.020	-.020	-.170
270	1006	.423	.101	.122	-.944	270	1057	.362	.144	.845	-.049	270	1107	-.097	.020	-.028	-.169
270	1007	.158	.099	.050	-.789	270	1058	.347	.140	.793	-.005	270	1108	-.080	.020	.019	-.159
270	1008	.282	.081	.033	-.994	270	1059	.210	.130	.744	-.238	270	1109	-.148	.041	-.040	-.330
270	1009	.158	.076	.192	-.399	270	1060	.169	.115	.710	-.244	270	1110	.054	.060	.373	-.091
270	1010	.009	.100	.392	-.314	270	1061	.117	.023	-.004	-.217	270	1111	.044	.042	.169	-.188
270	1011	.157	.112	.583	-.222	270	1062	.135	.018	-.062	-.208	270	1112	.117	.031	-.000	-.239
270	1012	.146	.120	.511	-.191	270	1063	.133	.021	-.039	-.231	270	1113	.097	.037	.072	-.245
270	1013	.094	.110	.479	-.301	270	1064	.094	.022	-.007	-.182	270	1114	.147	.053	.045	-.355
270	1014	.092	.122	.584	-.292	270	1065	.117	.028	-.008	-.292	270	1115	.191	.085	.064	-.543
270	1015	.128	.028	.031	-.255	270	1066	.218	.054	.091	-.581	270	1116	-.086	.082	.222	-.414
270	1016	.099	.023	.066	-.277	270	1067	.362	.096	.141	-.782	270	1117	.036	.088	.388	-.328
270	1017	.117	.020	.038	-.227	270	1068	.364	.120	.090	-.801	270	1118	.173	.083	.588	-.059
270	1018	.124	.024	.030	-.314	270	1069	.232	.113	.081	-.589	270	1119	.242	.099	.795	-.033
270	1019	.113	.027	.012	-.319	270	1070	.067	.094	.264	-.388	270	1120	.226	.099	.648	-.000
270	1020	.215	.060	.034	-.530	270	1071	.135	.112	.601	-.221	270	1121	.106	.082	.628	-.094
270	1021	.395	.077	.203	-.677	270	1072	.294	.128	.871	-.031	270	1122	.054	.068	.438	-.138
270	1022	.463	.107	.156	-.845	270	1073	.296	.121	.760	-.008	270	1123	.057	.130	.667	-.448
270	1023	.230	.099	.167	-.628	270	1074	.152	.105	.580	-.098	270	1124	.024	.133	.567	-.532
270	1024	.012	.106	.511	-.411	270	1075	.088	.110	.567	-.183	270	1125	.095	.110	.588	-.185
270	1025	.216	.116	.697	-.112	270	1076	-.104	.022	-.022	-.177	270	2001	-.482	.096	-.212	-.934
270	1026	.388	.134	.909	-.061	270	1077	.091	.019	-.026	-.181	270	2002	-.486	.100	-.192	-.913
270	1027	.425	.157	.970	-.053	270	1078	.076	.017	.001	-.147	270	2003	-.530	.123	.036	-1.132

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	2004	411	154	001	-1.201	270	2054	210	064	044	-0.575	270	2104	142	021	-0.071	-0.245
270	2005	292	179	129	-1.350	270	2055	180	057	016	-0.512	270	2105	145	023	-0.061	-0.265
270	2006	284	170	071	-1.147	270	2056	202	046	-0.049	-0.490	270	2106	056	124	-0.796	-0.417
270	2007	344	167	063	-1.052	270	2057	197	040	-0.066	-0.549	270	2107	203	042	-0.061	-0.389
270	2008	438	169	057	-1.178	270	2058	136	032	-0.050	-0.323	270	2108	047	098	-0.438	-0.397
270	2009	399	159	026	-1.065	270	2059	127	026	-0.007	-0.226	270	2109	151	049	-0.143	-0.302
270	2010	278	108	021	-0.797	270	2060	160	024	-0.063	-0.255	270	2110	182	043	-0.007	-0.335
270	2011	204	082	015	-0.766	270	2061	543	157	124	-2.011	270	2111	293	112	-0.011	-0.860
270	2012	149	049	027	-0.401	270	2062	500	164	038	-1.325	270	2112	348	106	-0.060	-0.864
270	2013	133	034	002	-0.277	270	2063	489	161	005	-1.902	270	2113	406	144	-0.032	-1.119
270	2014	124	034	007	-0.279	270	2064	430	159	020	-1.112	270	2114	173	120	-0.373	-0.696
270	2015	121	032	024	-0.293	270	2065	345	142	062	-1.041	270	2115	008	091	-0.757	-0.261
270	2016	457	083	191	-0.840	270	2066	250	101	108	-0.787	270	2116	146	043	-0.083	-0.290
270	2017	485	094	176	-0.931	270	2067	264	096	189	-0.767	270	2117	219	044	-0.021	-0.365
270	2018	502	112	097	-1.065	270	2068	315	081	025	-0.731	270	2118	182	036	-0.068	-0.306
270	2019	444	151	038	-1.107	270	2069	276	075	073	-0.806	270	2119	193	036	-0.085	-0.360
270	2020	260	126	142	-0.909	270	2070	187	058	019	-0.528	270	2120	193	024	-0.110	-0.290
270	2021	225	111	089	-0.903	270	2071	171	036	011	-0.928	270	2121	177	024	-0.095	-0.264
270	2022	265	101	089	-0.904	270	2072	191	036	099	-0.389	270	2122	119	021	-0.051	-0.215
270	2023	310	095	062	-0.819	270	2073	181	031	090	-0.369	270	2123	114	020	-0.054	-0.196
270	2024	279	090	040	-0.644	270	2074	117	025	022	-0.243	270	2124	146	020	-0.067	-0.225
270	2025	244	095	014	-0.694	270	2075	113	024	005	-1.199	270	2125	148	023	-0.052	-0.241
270	2026	193	082	016	-0.880	270	2076	492	164	121	-1.445	270	2126	302	049	-0.172	-0.477
270	2027	158	055	015	-0.645	270	2077	523	197	113	-1.773	270	2127	257	043	-0.138	-0.418
270	2028	126	031	034	-0.322	270	2078	444	182	101	-1.402	280	801	106	038	-0.029	-0.265
270	2029	132	030	038	-0.261	270	2079	381	177	077	-1.105	280	802	007	039	-0.179	-0.156
270	2030	125	029	034	-0.251	270	2080	282	112	020	-0.748	280	803	044	057	-0.368	-0.124
270	2031	466	097	089	-1.019	270	2081	240	086	075	-0.670	280	804	236	041	-0.117	-0.419
270	2032	525	097	159	-1.129	270	2082	225	072	129	-0.559	280	805	210	096	-0.240	-0.640
270	2033	561	131	119	-1.301	270	2083	317	089	019	-0.653	280	806	149	080	-0.205	-0.529
270	2034	437	138	073	-1.129	270	2084	316	070	116	-0.631	280	807	332	153	-0.127	-0.005
270	2035	307	133	096	-0.841	270	2085	250	052	110	-0.534	280	901	105	058	-0.047	-0.514
270	2036	287	099	008	-0.854	270	2086	156	037	038	-0.323	280	902	273	099	-0.020	-0.674
270	2037	290	098	116	-0.735	270	2087	135	031	035	-0.375	280	903	568	162	-0.090	-1.387
270	2038	252	086	037	-0.735	270	2088	161	025	071	-0.279	280	905	563	102	-0.270	-0.970
270	2039	236	083	011	-0.891	270	2089	153	024	049	-0.255	280	906	568	112	-0.257	-1.102
270	2040	237	074	035	-0.753	270	2090	103	023	012	-0.201	280	907	399	121	-0.003	-0.836
270	2041	222	074	012	-0.716	270	2091	344	131	013	-1.482	280	908	122	092	-0.188	-0.500
270	2042	163	054	017	-0.601	270	2092	407	131	018	-1.347	280	909	043	094	-0.437	-0.219
270	2043	149	039	025	-0.334	270	2093	466	172	004	-1.284	280	910	047	095	-0.382	-0.449
270	2044	177	032	087	-0.310	270	2094	297	146	205	-0.846	280	911	120	060	-0.063	-0.491
270	2045	180	034	081	-0.340	270	2095	084	107	390	-0.498	280	912	199	122	-0.190	-0.711
270	2046	470	117	144	-1.263	270	2096	190	053	073	-0.406	280	913	498	118	-0.019	-1.014
270	2047	482	125	146	-1.192	270	2097	227	062	213	-0.471	280	914	132	092	-0.202	-0.532
270	2048	549	136	126	-1.191	270	2098	201	049	057	-0.474	280	915	183	084	-0.135	-0.601
270	2049	492	156	109	-1.216	270	2099	199	039	092	-0.375	280	916	242	122	-0.152	-0.716
270	2050	325	129	110	-0.820	270	2100	201	029	118	-0.324	280	917	099	064	-0.154	-0.402
270	2051	267	101	171	-0.726	270	2101	176	026	088	-0.270	280	918	083	057	-0.145	-0.470
270	2052	296	080	004	-0.679	270	2102	116	023	033	-0.203	280	919	609	092	-0.332	-0.995
270	2053	297	079	047	-0.643	270	2103	110	021	046	-0.213	280	921	237	066	-0.039	-0.648

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	922	.305	.118	.056	.953	280	1046	.207	.029	.129	.316	280	1096	.048	.037	.099	.176
280	923	.339	.093	.045	.841	280	1047	.176	.028	.083	.278	280	1097	.103	.058	.047	.335
280	924	.244	.062	.052	.560	280	1048	.099	.027	.016	.188	280	1098	.103	.069	.073	.403
280	925	.398	.134	.103	.953	280	1049	.076	.029	.056	.162	280	1099	.022	.074	.213	.323
280	926	.403	.183	.219	1.168	280	1050	.106	.033	.029	.228	280	1100	.095	.075	.393	.166
280	1001	.142	.033	.031	.229	280	1051	.172	.071	.016	.521	280	1101	.184	.083	.593	.056
280	1002	.124	.030	.012	.229	280	1052	.228	.093	.016	.557	280	1102	.212	.088	.625	.003
280	1003	.128	.035	.007	.229	280	1053	.252	.116	.129	.703	280	1103	.142	.090	.526	.064
280	1004	.108	.036	.035	.340	280	1054	.103	.108	.312	.467	280	1104	.013	.070	.355	.174
280	1005	.158	.042	.001	.340	280	1055	.108	.115	.586	.224	280	1105	.028	.071	.398	.251
280	1006	.278	.055	.091	.532	280	1056	.317	.124	.765	.019	280	1106	.123	.024	.040	.223
280	1007	.403	.080	.173	.791	280	1057	.395	.145	.895	.040	280	1107	.117	.024	.040	.210
280	1008	.362	.083	.086	.742	280	1058	.298	.132	.742	.062	280	1108	.081	.023	.022	.157
280	1009	.195	.086	.264	.518	280	1059	.127	.117	.542	.173	280	1109	.156	.050	.026	.427
280	1010	.063	.088	.375	.333	280	1060	.089	.103	.507	.180	280	1110	.116	.069	.443	.034
280	1011	.068	.115	.527	.333	280	1061	.158	.029	.063	.258	280	1111	.021	.047	.262	.115
280	1012	.148	.123	.604	.400	280	1062	.155	.024	.067	.242	280	1112	.060	.036	.090	.200
280	1013	.076	.120	.478	.400	280	1063	.136	.025	.018	.220	280	1113	.036	.043	.155	.216
280	1014	.002	.106	.331	.367	280	1064	.071	.027	.045	.157	280	1114	.056	.059	.165	.297
280	1015	.009	.114	.391	.339	280	1065	.071	.033	.056	.176	280	1115	.068	.090	.278	.465
280	1016	.158	.029	.064	.235	280	1066	.142	.053	.017	.443	280	1116	.042	.088	.384	.271
280	1017	.113	.026	.008	.233	280	1067	.244	.087	.010	.521	280	1117	.154	.089	.685	.099
280	1018	.114	.025	.017	.196	280	1068	.207	.111	.097	.557	280	1118	.236	.090	.860	.068
280	1019	.106	.031	.046	.217	280	1069	.056	.106	.356	.437	280	1119	.273	.113	.727	.050
280	1020	.081	.033	.068	.195	280	1070	.102	.097	.547	.194	280	1120	.212	.108	.692	.019
280	1021	.155	.034	.031	.449	280	1071	.248	.126	.812	.093	280	1121	.037	.082	.387	.145
280	1022	.296	.067	.086	.422	280	1072	.319	.138	.865	.019	280	1122	.017	.065	.242	.175
280	1023	.314	.099	.004	.677	280	1073	.259	.131	.861	.041	280	1123	.090	.145	.498	.629
280	1024	.054	.101	.369	.398	280	1074	.092	.100	.552	.144	280	1124	.123	.169	.448	.766
280	1025	.177	.122	.650	.233	280	1075	.021	.092	.449	.229	280	1125	.110	.133	.699	.309
280	1026	.355	.139	.818	.060	280	1076	.140	.027	.055	.247	280	2001	.445	.083	.182	.807
280	1027	.423	.168	.895	.081	280	1077	.110	.022	.037	.184	280	2002	.448	.086	.183	.843
280	1028	.369	.152	.831	.086	280	1078	.076	.020	.003	.142	280	2003	.499	.093	.221	.1030
280	1029	.210	.120	.567	.185	280	1079	.066	.024	.031	.205	280	2004	.491	.123	.034	.187
280	1030	.112	.106	.454	.213	280	1080	.056	.029	.052	.188	280	2005	.470	.177	.092	.448
280	1031	.224	.032	.132	.353	280	1081	.087	.049	.118	.372	280	2006	.412	.176	.137	.175
280	1032	.136	.026	.036	.088	280	1082	.154	.074	.070	.417	280	2007	.365	.159	.128	.289
280	1033	.099	.027	.031	.208	280	1083	.175	.105	.125	.533	280	2008	.305	.118	.036	.970
280	1034	.101	.027	.039	.192	280	1084	.043	.100	.306	.406	280	2009	.290	.108	.090	.771
280	1035	.115	.035	.070	.244	280	1085	.107	.095	.506	.255	280	2010	.258	.083	.035	.615
280	1036	.138	.062	.047	.496	280	1086	.227	.094	.551	.092	280	2011	.227	.063	.044	.535
280	1037	.247	.088	.021	.639	280	1087	.247	.109	.654	.092	280	2012	.178	.041	.034	.436
280	1038	.298	.112	.116	.712	280	1088	.180	.105	.619	.121	280	2013	.169	.039	.061	.363
280	1039	.109	.118	.484	.572	280	1089	.055	.092	.455	.209	280	2014	.160	.040	.034	.368
280	1040	.152	.115	.642	.247	280	1090	.012	.077	.343	.223	280	2015	.162	.037	.035	.319
280	1041	.368	.144	.847	.001	280	1091	.130	.024	.052	.222	280	2016	.426	.070	.207	.665
280	1042	.428	.153	.948	.077	280	1092	.106	.022	.034	.181	280	2017	.453	.078	.203	.726
280	1043	.346	.155	.936	.025	280	1093	.080	.021	.006	.166	280	2018	.468	.084	.193	.928
280	1044	.201	.122	.630	.128	280	1094	.069	.028	.029	.202	280	2019	.498	.101	.109	.913
280	1045	.104	.104	.565	.199	280	1095	.023	.033	.159	.137	280	2020	.422	.117	.050	.898

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	2021	378	140	076	976	280	2071	205	045	080	606	280	2121	204	025	127	333
280	2022	344	137	097	900	280	2072	224	034	129	440	280	2122	146	022	068	234
280	2023	314	122	095	961	280	2073	217	033	104	374	280	2123	144	024	060	238
280	2024	280	085	013	780	280	2074	164	030	063	283	280	2124	182	026	100	274
280	2025	277	077	040	616	280	2075	170	029	048	282	280	2125	181	026	084	293
280	2026	242	059	074	527	280	2076	430	088	184	847	280	2126	305	048	182	526
280	2027	206	046	067	413	280	2077	452	100	156	988	280	2127	272	050	026	542
280	2028	169	032	080	334	280	2078	434	106	110	018	290	801	043	046	170	208
280	2029	180	035	059	321	280	2079	458	122	096	098	290	802	057	045	239	090
280	2030	174	035	059	309	280	2080	414	112	018	843	290	803	083	062	349	072
280	2031	407	077	155	794	280	2081	314	108	275	719	290	804	295	046	112	464
280	2032	454	074	217	876	280	2082	240	091	119	667	290	805	288	079	117	567
280	2033	485	089	238	220	280	2083	256	075	079	611	290	806	256	071	000	531
280	2034	457	093	138	936	280	2084	276	054	056	534	290	807	252	121	011	1080
280	2035	412	094	084	853	280	2085	247	044	104	485	290	901	250	080	018	721
280	2036	394	086	001	755	280	2086	178	034	073	314	290	902	290	103	060	846
280	2037	353	100	009	990	280	2087	166	029	078	304	290	903	382	124	152	276
280	2038	330	092	003	786	280	2088	189	026	110	278	290	905	582	134	202	320
280	2039	298	082	043	692	280	2089	185	029	089	290	906	636	134	075	1390	
280	2040	293	069	094	660	280	2090	140	028	052	239	290	907	339	117	078	794
280	2041	292	069	123	632	280	2091	422	116	057	937	290	908	169	100	200	567
280	2042	224	045	082	433	280	2092	478	114	200	193	290	909	004	117	546	531
280	2043	222	036	112	338	280	2093	529	138	214	191	290	910	193	090	214	756
280	2044	225	033	139	354	280	2094	433	134	046	093	290	911	268	104	022	724
280	2045	226	035	130	374	280	2095	159	121	322	595	290	912	368	157	094	1008
280	2046	390	077	157	711	280	2096	230	064	172	504	290	913	332	122	000	1013
280	2047	381	073	164	992	280	2097	210	076	205	463	290	914	535	100	141	680
280	2048	437	076	181	923	280	2098	195	043	035	379	290	915	316	120	085	912
280	2049	462	095	106	057	280	2099	206	040	098	370	290	916	337	133	105	875
280	2050	442	082	021	728	280	2100	215	031	096	335	290	917	176	088	103	667
280	2051	347	092	016	887	280	2101	199	029	113	358	290	918	205	080	034	742
280	2052	344	087	086	843	280	2102	146	026	052	260	290	919	638	105	274	1006
280	2053	322	088	058	767	280	2103	144	026	030	343	290	921	295	059	065	550
280	2054	250	073	066	623	280	2104	171	025	072	262	290	922	351	077	030	697
280	2055	237	065	059	504	280	2105	172	027	063	267	290	923	397	076	177	754
280	2056	263	055	089	470	280	2106	062	146	589	520	290	924	337	067	109	688
280	2057	254	049	118	417	280	2107	228	048	449	449	290	925	414	110	085	904
280	2058	199	042	087	351	280	2108	089	111	432	399	290	926	497	187	011	217
280	2059	191	038	050	336	280	2109	172	056	185	346	290	1001	185	040	073	388
280	2060	227	036	094	361	280	2110	200	046	030	378	290	1002	158	037	016	351
280	2061	396	091	204	952	280	2111	401	109	060	891	290	1003	163	043	003	348
280	2062	408	090	157	044	280	2112	462	100	184	908	290	1004	130	045	035	315
280	2063	469	098	102	105	280	2113	519	132	203	126	290	1005	168	048	024	338
280	2064	469	106	020	117	280	2114	290	127	308	885	290	1006	247	052	035	472
280	2065	444	106	008	129	280	2115	050	107	602	487	290	1007	325	069	039	690
280	2066	335	103	098	891	280	2116	168	051	068	327	290	1008	249	076	056	627
280	2067	302	101	165	785	280	2117	234	050	062	394	290	1009	079	090	296	439
280	2068	302	079	011	707	280	2118	200	041	082	348	290	1010	031	098	485	286
280	2069	290	069	075	729	280	2119	206	037	089	371	290	1011	101	124	602	282
280	2070	052	070	477	477	280	2120	219	025	139	332	290	1012	115	126	515	293

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	1013	.010	.109	.390	.359	290	1063	.132	.031	.018	.241	290	1113	.029	.052	.233	.118
290	1014	.116	.094	.215	.458	290	1064	.040	.034	.120	.154	290	1114	.037	.064	.259	.195
290	1015	.102	.094	.216	.431	290	1065	.014	.041	.209	.134	290	1115	.050	.090	.410	.379
290	1016	.192	.033	.081	.334	290	1066	.050	.053	.170	.272	290	1116	.149	.093	.570	.225
290	1017	.122	.035	.101	.246	290	1067	.120	.083	.174	.474	290	1117	.240	.091	.622	.001
290	1018	.101	.037	.127	.212	290	1068	.050	.102	.352	.433	290	1118	.290	.086	.651	.084
290	1019	.076	.046	.169	.197	290	1069	.098	.104	.431	.304	290	1119	.244	.100	.651	.023
290	1020	.033	.047	.170	.168	290	1070	.222	.109	.633	.117	290	1120	.153	.091	.559	.086
290	1021	.059	.058	.165	.278	290	1071	.294	.133	.968	.027	290	1121	.005	.071	.313	.202
290	1022	.165	.072	.060	.425	290	1072	.286	.131	.732	.055	290	1122	.054	.055	.206	.206
290	1023	.123	.103	.196	.520	290	1073	.170	.116	.580	.127	290	1123	.244	.098	.315	.626
290	1024	.144	.111	.489	.218	290	1074	.011	.083	.387	.191	290	1124	.286	.115	.242	.794
290	1025	.314	.135	.811	.066	290	1075	.058	.082	.366	.270	290	1125	.011	.152	.522	.469
290	1026	.405	.147	.850	.004	290	1076	.177	.029	.664	.272	290	2001	.370	.063	.170	.629
290	1027	.368	.159	.886	.173	290	1077	.128	.025	.612	.221	290	2002	.371	.064	.147	.649
290	1028	.259	.135	.799	.284	290	1078	.071	.024	.640	.156	290	2003	.386	.076	.140	.683
290	1029	.119	.105	.511	.326	290	1079	.039	.032	.123	.141	290	2004	.380	.112	.033	.960
290	1030	.037	.091	.370	.329	290	1080	.009	.038	.173	.119	290	2005	.414	.156	.068	.176
290	1031	.252	.031	.144	.365	290	1081	.010	.050	.203	.172	290	2006	.393	.166	.090	.452
290	1032	.140	.031	.002	.234	290	1082	.044	.065	.239	.278	290	2007	.382	.175	.107	.258
290	1033	.081	.037	.127	.205	290	1083	.037	.091	.248	.368	290	2008	.316	.120	.066	.935
290	1034	.053	.040	.163	.157	290	1084	.084	.091	.497	.211	290	2009	.303	.097	.007	.011
290	1035	.046	.051	.213	.188	290	1085	.188	.104	.378	.065	290	2010	.275	.070	.074	.699
290	1036	.028	.064	.246	.282	290	1086	.243	.105	.649	.020	290	2011	.245	.056	.095	.607
290	1037	.100	.084	.165	.413	290	1087	.190	.115	.790	.113	290	2012	.206	.042	.089	.547
290	1038	.086	.105	.222	.448	290	1088	.096	.101	.561	.157	290	2013	.218	.046	.068	.438
290	1039	.114	.125	.602	.319	290	1089	.069	.079	.359	.211	290	2014	.210	.049	.060	.413
290	1040	.322	.129	.841	.074	290	1090	.046	.064	.241	.220	290	2015	.215	.045	.067	.452
290	1041	.423	.149	.907	.008	290	1091	.179	.031	.075	.306	290	2016	.328	.056	.169	.545
290	1042	.376	.140	.807	.019	290	1092	.129	.025	.043	.233	290	2017	.357	.061	.184	.599
290	1043	.228	.130	.650	.127	290	1093	.078	.026	.024	.161	290	2018	.358	.063	.176	.687
290	1044	.096	.095	.430	.194	290	1094	.037	.035	.082	.153	290	2019	.376	.077	.136	.683
290	1045	.032	.089	.452	.269	290	1095	.031	.041	.205	.080	290	2020	.362	.093	.086	.895
290	1046	.240	.028	.150	.336	290	1096	.020	.047	.189	.131	290	2021	.361	.105	.012	.900
290	1047	.190	.030	.064	.295	290	1097	.002	.063	.233	.216	290	2022	.338	.105	.038	.841
290	1048	.087	.032	.068	.201	290	1098	.032	.072	.308	.229	290	2023	.318	.093	.035	.724
290	1049	.034	.041	.186	.159	290	1099	.104	.083	.448	.167	290	2024	.281	.066	.038	.534
290	1050	.037	.045	.184	.181	290	1100	.182	.085	.561	.048	290	2025	.289	.060	.087	.518
290	1051	.065	.067	.211	.338	290	1101	.230	.090	.574	.044	290	2026	.261	.049	.114	.519
290	1052	.092	.090	.234	.492	290	1102	.204	.086	.610	.086	290	2027	.230	.039	.102	.388
290	1053	.056	.114	.303	.489	290	1103	.097	.083	.481	.155	290	2028	.203	.035	.077	.347
290	1054	.093	.110	.490	.362	290	1104	.037	.063	.246	.206	290	2029	.225	.039	.092	.401
290	1055	.246	.127	.670	.178	290	1105	.075	.059	.189	.246	290	2030	.217	.038	.086	.379
290	1056	.363	.136	.962	.069	290	1106	.174	.031	.084	.301	290	2031	.362	.052	.172	.532
290	1057	.345	.141	.845	.075	290	1107	.147	.030	.045	.259	290	2032	.394	.050	.211	.563
290	1058	.200	.120	.640	.148	290	1108	.080	.029	.052	.178	290	2033	.411	.056	.206	.611
290	1059	.035	.099	.444	.212	290	1109	.147	.032	.045	.342	290	2034	.382	.057	.173	.610
290	1060	.009	.085	.352	.215	290	1110	.170	.072	.508	.015	290	2035	.380	.059	.163	.592
290	1061	.194	.030	.098	.297	290	1111	.078	.053	.323	.094	290	2036	.398	.060	.154	.630
290	1062	.168	.026	.062	.250	290	1112	.002	.045	.199	.133	290	2037	.403	.068	.174	.659

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	2088	.236	.029	.132	.365	300	905	.732	.163	.236	-1.690						
290	2089	.235	.032	.143	.391	300	906	.664	.141	.123	-1.214						
290	2090	.192	.030	.093	.338	300	907	.294	.110	.078	-.823						
290	2091	.369	.072	.110	.684	300	908	.000	.113	.162	-.753						
290	2092	.410	.069	.173	.704	300	909	.110	.129	.397	-.682						
290	2093	.436	.082	.167	.831	300	910	.319	.107	.008	-1.051						
290	2094	.385	.088	.102	.823	300	911	.408	.163	.008	-.878						
290	2095	.294	.086	.224	.617	300	912	.535	.163	.001	-1.048						
290	2096	.313	.064	.130	.546	300	913	.577	.146	.076	-1.101						
290	2097	.292	.069	.200	.539	300	914	.247	.109	.138	-.710						
290	2098	.256	.045	.142	.461	300	915	.443	.152	.032	-1.041						
290	2099	.241	.040	.113	.434	300	916	.378	.152	.057	-1.145						
290	2100	.253	.035	.139	.563	300	917	.267	.133	.102	-1.018						
290	2101	.239	.037	.109	.588	300	918	.450	.134	.068	-1.309						
290	2102	.191	.034	.062	.229	300	919	.111	.118	.280	-1.064						
290	2103	.202	.034	.110	.324	300	921	.333	.053	.165	-.562						
290	2104	.228	.032	.142	.354	300	922	.059	.053	.217	-.569						
290	2105	.231	.035	.131	.358	300	923	.406	.053	.275	-.631						
290	2106	.240	.096	.269	.518	300	924	.411	.066	.190	-.661						
290	2107	.286	.058	.127	.508	300	925	.382	.066	.226	-.835						
290	2108	.250	.086	.215	.502	300	926	.447	.107	.200	-1.178						
290	2109	.250	.070	.077	.562	1001	1001	.221	.050	.024	-.415						
290	2110	.261	.053	.092	.465	300	1002	.183	.046	.007	-.411						
290	2111	.367	.074	.185	.709	300	1003	.181	.053	.026	-.482						
290	2112	.423	.068	.232	.727	300	1004	.132	.053	.061	-.379						
290	2113	.450	.084	.230	.865	300	1005	.142	.058	.080	-.354						
290	2114	.355	.083	.065	.652	300	1006	.206	.053	.022	-.420						
290	2115	.183	.091	.242	.439	300	1007	.232	.073	.065	-.523						
290	2116	.240	.058	.055	.419	300	1008	.161	.084	.190	-.458						
290	2117	.290	.047	.089	.467	300	1009	.003	.104	.460	-.504						
290	2118	.246	.040	.082	.380	300	1010	.073	.110	.492	-.248						
290	2119	.237	.042	.101	.399	300	1011	.083	.134	.521	-.315						
290	2120	.263	.031	.147	.379	300	1012	.038	.122	.601	-.364						
290	2121	.251	.033	.142	.391	300	1013	.123	.104	.346	-.631						
290	2122	.193	.030	.102	.411	300	1014	.219	.088	.206	-.548						
290	2123	.201	.031	.110	.339	300	1015	.197	.084	.200	-.491						
290	2124	.244	.030	.160	.339	300	1016	.200	.038	.059	-.348						
290	2125	.241	.033	.145	.348	300	1017	.105	.055	.098	-.308						
290	2126	.354	.052	.207	.549	300	1018	.056	.056	.166	-.238						
290	2127	.338	.056	.162	.588	300	1019	.012	.068	.287	-.274						
300	801	.039	.060	.221	.129	300	1020	.030	.071	.371	-.191						
300	802	.122	.058	.321	.019	300	1021	.032	.076	.344	-.170						
300	803	.126	.065	.459	.066	300	1022	.011	.084	.277	-.316						
300	804	.359	.068	.150	.631	300	1023	.063	.115	.468	-.346						
300	805	.374	.057	.129	.559	300	1024	.286	.132	.798	-.085						
300	806	.299	.052	.091	.505	300	1025	.403	.145	.896	-.026						
300	807	.357	.069	.140	.924	300	1026	.397	.137	.870	-.019						
300	901	.339	.116	.042	.022	300	1027	.263	.141	.686	-.165						
300	902	.471	.114	.109	.048	300	1028	.129	.114	.528	-.228						
300	903	.615	.115	.258	.221	300	1029	.001	.088	.355	-.299						

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1030	.070	.075	.270	.312	300	1080	.055	.053	.239	.094	300	2005	.399	.138	.035	-1.443
300	1031	.265	.034	.138	.421	300	1081	.066	.059	.338	.169	300	2006	.339	.143	.042	-1.489
300	1032	.123	.039	.054	.245	300	1082	.062	.066	.342	.190	300	2007	.336	.136	.012	-1.321
300	1033	.039	.048	.196	.195	300	1083	.079	.088	.520	.272	300	2008	.321	.093	.049	.834
300	1034	.016	.053	.234	.141	300	1084	.172	.096	.566	.076	300	2009	.347	.093	.080	.949
300	1035	.040	.066	.270	.143	300	1085	.255	.109	.644	.012	300	2010	.319	.084	.116	.976
300	1036	.086	.074	.333	.174	300	1086	.257	.102	.638	.010	300	2011	.281	.061	.112	.703
300	1037	.034	.098	.376	.256	300	1087	.137	.107	.579	.150	300	2012	.238	.048	.042	.481
300	1038	.102	.111	.513	.231	300	1088	.021	.090	.435	.257	300	2013	.266	.061	.042	.529
300	1039	.262	.134	.744	.134	300	1089	.086	.062	.174	.271	300	2014	.266	.061	.022	.501
300	1040	.397	.144	.949	.037	300	1090	.107	.050	.092	.267	300	2015	.259	.059	.092	.519
300	1041	.395	.148	.960	.026	300	1091	.200	.036	.075	.335	300	2016	.254	.059	.179	.477
300	1042	.268	.130	.823	.078	300	1092	.122	.029	.004	.233	300	2017	.233	.050	.194	.534
300	1043	.092	.081	.640	.252	300	1093	.047	.035	.115	.151	300	2018	.244	.050	.184	.558
300	1044	.066	.081	.376	.252	300	1094	.025	.045	.208	.138	300	2019	.333	.038	.162	.626
300	1045	.061	.070	.283	.295	300	1095	.093	.058	.302	.051	300	2020	.344	.083	.104	.078
300	1046	.239	.033	.108	.361	300	1096	.098	.062	.329	.062	300	2021	.366	.084	.110	.796
300	1047	.169	.039	.013	.317	300	1097	.091	.073	.404	.155	300	2022	.350	.084	.080	.788
300	1048	.042	.045	.143	.198	300	1098	.134	.077	.429	.151	300	2023	.343	.076	.110	.685
300	1049	.031	.050	.267	.117	300	1099	.183	.083	.572	.103	300	2024	.312	.060	.145	.657
300	1050	.054	.055	.305	.089	300	1100	.230	.090	.714	.093	300	2025	.329	.059	.178	.649
300	1051	.053	.073	.393	.167	300	1101	.218	.092	.583	.035	300	2026	.288	.049	.158	.513
300	1052	.059	.088	.432	.303	300	1102	.149	.086	.470	.126	300	2027	.266	.046	.121	.439
300	1053	.128	.107	.492	.240	300	1103	.025	.078	.373	.206	300	2028	.222	.042	.099	.383
300	1054	.259	.114	.665	.071	300	1104	.092	.056	.148	.261	300	2029	.267	.046	.126	.429
300	1055	.341	.137	.804	.021	300	1105	.126	.049	.242	.282	300	2030	.236	.046	.113	.414
300	1056	.233	.136	.815	.026	300	1106	.182	.033	.076	.322	300	2031	.267	.045	.195	.509
300	1057	.067	.135	.678	.145	300	1107	.137	.034	.000	.267	300	2032	.333	.042	.237	.529
300	1058	.067	.107	.461	.220	300	1108	.043	.039	.176	.170	300	2033	.381	.046	.242	.576
300	1059	.072	.082	.314	.312	300	1109	.082	.068	.145	.357	300	2034	.359	.046	.227	.555
300	1060	.082	.069	.211	.299	300	1110	.221	.082	.650	.035	300	2035	.357	.048	.215	.525
300	1061	.189	.035	.065	.329	300	1111	.141	.065	.476	.023	300	2036	.357	.049	.268	.562
300	1062	.141	.030	.028	.246	300	1112	.087	.061	.406	.076	300	2037	.338	.056	.266	.602
300	1063	.094	.040	.082	.208	300	1113	.106	.064	.431	.048	300	2038	.333	.056	.215	.586
300	1064	.014	.048	.204	.118	300	1114	.136	.068	.465	.044	300	2039	.366	.051	.195	.609
300	1065	.063	.058	.348	.095	300	1115	.150	.085	.562	.110	300	2040	.360	.043	.190	.567
300	1066	.067	.067	.369	.120	300	1116	.218	.092	.736	.033	300	2041	.338	.041	.188	.512
300	1067	.018	.089	.422	.286	300	1117	.279	.099	.806	.047	300	2042	.279	.035	.178	.413
300	1068	.107	.102	.517	.212	300	1118	.283	.091	.725	.063	300	2043	.267	.040	.154	.410
300	1069	.228	.104	.617	.095	300	1119	.179	.101	.532	.108	300	2044	.284	.037	.179	.415
300	1070	.295	.114	.781	.012	300	1120	.080	.087	.395	.134	300	2045	.289	.040	.176	.432
300	1071	.281	.136	.956	.051	300	1121	.070	.060	.265	.255	300	2046	.333	.046	.187	.504
300	1072	.197	.126	.780	.132	300	1122	.102	.046	.126	.254	300	2047	.345	.045	.177	.507
300	1073	.048	.097	.671	.227	300	1123	.356	.060	.022	.606	300	2048	.375	.043	.209	.527
300	1074	.078	.065	.362	.255	300	1124	.380	.067	.092	.679	300	2049	.401	.047	.221	.565
300	1075	.143	.065	.321	.332	300	1125	.292	.112	.276	.538	300	2050	.373	.048	.206	.553
300	1076	.183	.032	.057	.325	300	2001	.359	.057	.183	.562	300	2051	.379	.052	.256	.575
300	1077	.119	.031	.117	.235	300	2002	.355	.057	.172	.572	300	2052	.412	.053	.279	.630
300	1078	.038	.031	.117	.129	300	2003	.366	.069	.105	.707	300	2053	.421	.060	.268	.757
300	1079	.007	.043	.176	.126	300	2004	.352	.104	.056	.857	300	2054	.360	.053	.208	.667

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
000						300	2105	257	041	112	432	310	923	401	040	284	562
000						300	2106	322	062	040	541	310	924	446	044	304	673
000						300	2107	301	043	176	492	310	925	347	043	227	422
000						300	2108	357	063	052	563	310	926	381	053	344	681
000						300	2109	370	081	093	684	310	1001	221	059	115	484
000						300	2110	303	045	157	458	310	1002	174	060	131	459
000						300	2111	359	057	191	672	310	1003	172	071	185	500
000						300	2112	396	053	253	681	310	1004	107	069	417	
000						300	2113	429	062	259	707	310	1005	118	071	252	381
000						300	2114	370	061	209	514	310	1006	155	068	086	438
000						300	2115	301	067	066	495	310	1007	185	083	155	524
000						300	2116	329	060	105	493	310	1008	090	095	267	417
000						300	2117	346	047	162	404	310	1009	098	111	481	297
000						300	2118	290	041	155	404	310	1010	013	110	299	353
000						300	2119	285	041	176	401	310	1011	081	122	421	435
000						300	2120	292	039	182	420	310	1012	226	106	298	543
000						300	2121	290	042	152	422	310	1013	297	096	136	590
000						300	2122	238	039	138	389	310	1014	281	080	026	635
000						300	2123	247	039	135	416	310	1015	202	075	004	568
000						300	2124	273	037	165	435	310	1016	070	060	015	370
000						300	2125	283	042	149	475	310	1017	004	069	184	272
000						300	2126	351	041	238	340	310	1018	039	069	273	218
000						310	801	114	075	205	585	310	1019	091	087	370	179
000						310	802	174	070	496	067	310	1020	132	091	464	135
000						310	803	179	077	511	013	310	1021	160	100	534	132
000						310	804	466	066	543	001	310	1022	135	104	503	201
000						310	805	425	051	279	732	310	1023	218	137	708	237
000						310	806	356	052	266	595	310	1024	384	152	873	076
000						310	807	367	052	217	530	310	1025	379	152	811	127
000						310	901	446	143	225	628	310	1026	290	136	666	166
000						310	902	506	118	024	217	310	1027	092	131	579	395
000						310	903	623	103	077	260	310	1028	024	099	376	372
000						310	905	725	175	111	049	310	1029	115	073	300	386
000						310	906	634	164	111	049	310	1030	171	066	183	384
000						310	907	312	111	217	515	310	1031	257	046	101	425
000						310	908	284	131	025	222	310	1032	082	046	201	287
000						310	909	278	130	062	693	310	1033	141	077	351	178
000						310	910	444	177	143	794	310	1034	203	093	415	102
000						310	911	475	120	044	801	310	1035	141	077	543	096
000						310	912	619	149	008	047	310	1036	208	103	672	064
000						310	913	581	142	251	148	310	1037	273	096	600	109
000						310	914	552	129	097	141	310	1038	114	106	666	035
000						310	915	566	137	122	804	310	1039	144	114	821	069
000						310	916	497	168	069	133	310	1040	417	148	911	049
000						310	917	397	145	118	161	310	1041	328	150	884	171
000						310	918	483	176	068	338	310	1042	121	128	605	353
000						310	919	685	127	237	483	310	1043	059	103	389	439
000						310	921	404	064	217	628	310	1044	143	098	215	318
000						310	922	355	044	227	507	310	1045	223	038	106	340
000						310						310	1046			080	343

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	1047	.137	.030	.099	.305	310	1097	.177	.075	.482	.033	310	2022	.355	.072	.136	.703
310	1048	.005	.060	.270	.190	310	1098	.218	.070	.508	.037	310	2023	.349	.069	.167	.673
310	1049	.112	.069	.449	.077	310	1099	.221	.077	.552	.007	310	2024	.303	.055	.132	.531
310	1050	.155	.076	.451	.047	310	1100	.220	.084	.584	.048	310	2025	.328	.058	.158	.608
310	1051	.172	.095	.528	.081	310	1101	.147	.090	.482	.169	310	2026	.295	.055	.128	.507
310	1052	.201	.104	.568	.183	310	1102	.047	.078	.372	.205	310	2027	.297	.051	.131	.566
310	1053	.268	.114	.689	.079	310	1103	.074	.067	.267	.281	310	2028	.262	.043	.117	.504
310	1054	.341	.119	.846	.026	310	1104	.151	.047	.094	.319	310	2029	.306	.048	.148	.476
310	1055	.335	.142	.842	.059	310	1105	.164	.044	.008	.349	310	2030	.291	.047	.133	.533
310	1056	.272	.139	.837	.022	310	1106	.176	.033	.078	.298	310	2031	.343	.044	.177	.470
310	1057	.110	.120	.520	.020	310	1107	.123	.037	.071	.243	310	2032	.363	.041	.238	.534
310	1058	.062	.088	.237	.022	310	1108	.008	.046	.235	.135	310	2033	.375	.044	.245	.536
310	1059	.165	.063	.068	.022	310	1109	.002	.077	.307	.354	310	2034	.361	.044	.221	.535
310	1060	.158	.055	.035	.022	310	1110	.259	.090	.694	.053	310	2035	.371	.050	.226	.555
310	1061	.192	.040	.022	.022	310	1111	.192	.079	.601	.014	310	2036	.392	.050	.222	.582
310	1062	.114	.040	.128	.022	310	1112	.164	.076	.601	.012	310	2037	.404	.057	.226	.647
310	1063	.049	.051	.189	.022	310	1113	.186	.081	.555	.012	310	2038	.376	.058	.205	.638
310	1064	.075	.057	.348	.086	310	1114	.227	.082	.558	.031	310	2039	.357	.052	.190	.638
310	1065	.140	.075	.458	.043	310	1115	.234	.099	.738	.002	310	2040	.349	.045	.175	.638
310	1066	.154	.081	.517	.049	310	1116	.275	.106	.780	.026	310	2041	.332	.044	.172	.638
310	1067	.135	.101	.609	.066	310	1117	.277	.110	.714	.017	310	2042	.291	.042	.163	.642
310	1068	.225	.109	.669	.022	310	1118	.234	.097	.784	.028	310	2043	.292	.044	.163	.633
310	1069	.292	.114	.793	.022	310	1119	.076	.100	.627	.212	310	2044	.305	.041	.178	.673
310	1070	.284	.112	.711	.022	310	1120	.009	.076	.382	.231	310	2045	.307	.045	.170	.492
310	1071	.184	.123	.640	.022	310	1121	.121	.054	.074	.301	310	2046	.323	.046	.200	.480
310	1072	.052	.109	.483	.022	310	1122	.135	.043	.222	.289	310	2047	.330	.040	.212	.492
310	1073	.071	.091	.466	.022	310	1123	.362	.049	.222	.518	310	2048	.356	.038	.227	.492
310	1074	.152	.058	.074	.022	310	1124	.371	.048	.234	.545	310	2049	.380	.042	.240	.506
310	1075	.210	.058	.026	.022	310	1125	.389	.055	.015	.584	310	2050	.362	.044	.231	.506
310	1076	.190	.039	.064	.022	310	2001	.369	.056	.141	.552	310	2051	.376	.051	.227	.533
310	1077	.102	.036	.027	.022	310	2002	.361	.057	.132	.545	310	2052	.402	.052	.240	.555
310	1078	.007	.037	.151	.022	310	2003	.362	.070	.153	.818	310	2053	.403	.057	.240	.654
310	1079	.062	.052	.267	.022	310	2004	.349	.103	.065	.938	310	2054	.347	.052	.179	.601
310	1080	.126	.064	.461	.022	310	2005	.383	.108	.059	-1.068	310	2055	.315	.046	.139	.678
310	1081	.154	.075	.365	.022	310	2006	.353	.112	.052	-1.415	310	2056	.313	.042	.175	.464
310	1082	.171	.077	.445	.022	310	2007	.353	.106	.067	-1.019	310	2057	.304	.043	.151	.463
310	1083	.185	.098	.533	.022	310	2008	.313	.082	.108	.839	310	2058	.267	.042	.140	.445
310	1084	.241	.107	.709	.022	310	2009	.344	.084	.137	.936	310	2059	.264	.040	.149	.429
310	1085	.238	.110	.682	.022	310	2010	.305	.072	.085	.786	310	2060	.279	.038	.169	.424
310	1086	.181	.102	.544	.022	310	2011	.296	.069	.060	.634	310	2061	.339	.043	.214	.489
310	1087	.005	.101	.328	.022	310	2012	.267	.064	.028	.551	310	2062	.316	.042	.196	.463
310	1088	.091	.075	.191	.022	310	2013	.315	.071	.073	.620	310	2063	.331	.043	.199	.463
310	1089	.150	.059	.102	.022	310	2014	.301	.065	.073	.569	310	2064	.373	.042	.243	.504
310	1090	.151	.048	.046	.022	310	2015	.313	.065	.087	.572	310	2065	.387	.047	.250	.504
310	1091	.205	.038	.090	.022	310	2016	.313	.044	.182	.508	310	2066	.356	.048	.198	.504
310	1092	.100	.035	.044	.022	310	2017	.362	.048	.219	.585	310	2067	.369	.054	.233	.571
310	1093	.004	.041	.231	.022	310	2018	.352	.049	.203	.562	310	2068	.371	.053	.233	.606
310	1094	.094	.052	.354	.022	310	2019	.357	.062	.194	.795	310	2069	.343	.052	.113	.569
310	1095	.151	.069	.406	.022	310	2020	.327	.062	.162	.818	310	2070	.290	.046	.031	.475
310	1096	.168	.072	.422	.022	310	2021	.369	.070	.165	.042	310	2071	.279	.042	.034	.424

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	272	288	038	143	482	330	21222	249	040	144	417	320	1014	331	072	070	566
310	073	285	040	153	482	330	21223	254	040	122	410	320	1015	326	065	083	512
310	074	247	040	124	445	330	21224	281	037	163	423	320	1016	169	056	023	365
310	075	242	041	109	391	330	21225	295	042	160	456	320	1017	066	056	285	270
310	076	330	040	194	480	330	21226	331	037	227	458	320	1018	089	088	281	157
310	077	342	043	193	522	330	21227	320	040	158	441	320	1019	156	107	501	139
310	077	342	043	193	522	330	801	190	091	513	016	320	1020	237	110	578	054
310	078	320	043	185	500	330	802	234	085	544	059	320	1021	247	116	666	129
310	079	348	043	185	500	330	803	234	102	632	027	320	1022	245	117	633	098
310	080	370	043	221	520	330	804	441	069	273	734	320	1023	309	146	816	219
310	081	368	043	113	441	330	805	406	054	265	576	320	1024	394	155	903	052
310	082	338	051	100	521	330	806	345	055	208	541	320	1025	348	153	793	081
310	083	319	056	007	519	330	807	345	045	199	530	320	1026	176	127	614	171
310	084	297	046	089	475	330	901	540	161	129	390	320	1027	077	132	341	546
310	085	279	042	097	428	330	902	518	109	118	001	320	1028	162	088	169	513
310	086	245	039	068	396	330	903	624	096	325	111	320	1029	199	088	030	380
310	087	252	041	129	454	330	905	689	180	156	424	320	1030	238	044	054	413
310	088	268	037	136	415	330	906	538	173	137	301	320	1031	228	044	032	417
310	089	268	040	110	399	330	907	347	122	186	843	320	1032	021	066	372	214
310	090	333	039	110	399	330	908	373	148	148	883	320	1033	098	089	474	140
310	091	324	044	112	355	330	909	367	156	162	202	320	1034	192	098	532	073
310	092	347	041	241	511	330	910	533	195	053	891	320	1035	235	119	695	066
310	093	359	044	238	616	330	911	533	136	106	326	320	1036	302	132	752	038
310	094	337	043	217	575	330	912	636	147	067	326	320	1037	324	128	729	058
310	095	337	045	217	506	330	913	570	148	022	121	320	1038	375	133	832	004
310	096	278	053	248	589	320	914	431	129	037	936	320	1039	394	144	925	001
310	097	229	043	200	485	320	915	603	129	176	079	320	1040	356	144	802	080
310	098	229	045	117	412	320	916	574	161	072	468	320	1041	188	134	636	254
310	099	238	044	115	386	320	917	471	148	005	981	320	1042	056	106	329	418
310	100	254	033	131	399	320	918	551	191	099	619	320	1043	214	085	106	526
310	101	266	033	149	433	320	919	580	136	039	186	320	1044	190	051	023	358
310	102	256	043	124	447	320	921	376	072	173	719	320	1045	208	046	015	361
310	103	242	039	131	411	320	922	352	052	218	570	320	1046	192	192	045	348
310	104	255	036	157	424	320	923	400	053	275	647	320	1047	081	065	171	253
310	105	359	040	142	445	320	924	449	067	300	769	320	1048	079	077	399	125
310	106	345	045	214	547	320	925	337	050	215	560	320	1049	178	095	652	038
310	107	276	037	165	407	320	926	367	053	242	561	320	1050	226	161	633	014
310	108	247	048	227	559	320	1001	207	063	126	489	320	1051	244	122	712	025
310	109	257	074	254	789	320	1002	146	068	207	439	320	1052	286	126	769	014
310	110	313	040	200	452	320	1003	142	081	263	444	320	1053	335	134	825	023
310	111	349	047	198	532	320	1004	056	079	298	433	320	1054	347	134	894	054
310	112	349	043	198	532	320	1005	063	088	438	354	320	1055	261	147	792	233
310	113	340	045	246	532	320	1006	087	083	266	390	320	1056	134	133	562	351
310	114	349	045	244	532	320	1007	087	099	309	458	320	1057	082	117	308	455
310	115	362	050	234	545	320	1008	103	099	414	351	320	1058	203	082	052	503
310	116	405	049	277	569	320	1009	020	106	493	352	320	1059	242	055	022	412
310	117	366	044	249	559	320	1010	082	118	493	298	320	1060	213	048	031	360
310	118	291	039	180	554	320	1011	051	106	468	495	320	1061	179	041	017	400
310	119	261	034	153	555	320	1012	078	111	370	435	320	1062	071	052	165	244
310	120	259	032	170	364	320	1013	197	097	190	537	320	1063	008	070	305	180
310	121	266	036	183	433	320		310	089	017	619	320					

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	1064	.144	.050	.496	.054	320	1114	.298	.098	.686	.058	320	2039	.334	.051	.152	.574
320	1065	.197	.096	.632	.003	320	1115	.284	.110	.764	.045	320	2040	.328	.047	.161	.547
320	1066	.220	.101	.661	.000	320	1116	.281	.112	.809	.014	320	2041	.325	.048	.165	.580
320	1067	.211	.119	.668	.047	320	1117	.288	.105	.827	.076	320	2042	.303	.047	.176	.588
320	1068	.285	.122	.771	.011	320	1118	.129	.092	.534	.390	320	2043	.300	.046	.159	.485
320	1069	.299	.131	.793	.004	320	1119	.053	.099	.525	.338	320	2044	.305	.042	.175	.479
320	1070	.227	.123	.656	.115	320	1120	.096	.072	.306	.356	320	2045	.306	.046	.165	.502
320	1071	.061	.125	.306	.454	320	1121	.167	.051	.058	.318	320	2046	.305	.044	.162	.464
320	1072	.093	.109	.362	.593	320	1122	.167	.042	.015	.318	320	2047	.316	.041	.150	.451
320	1073	.196	.085	.121	.471	320	1123	.351	.049	.237	.560	320	2048	.334	.039	.178	.461
320	1074	.213	.051	.000	.371	320	1124	.348	.049	.227	.530	320	2049	.359	.043	.193	.466
320	1075	.261	.051	.000	.432	320	1125	.392	.049	.270	.575	320	2050	.352	.046	.216	.550
320	1076	.175	.044	.161	.333	320	2000	.352	.059	.139	.575	320	2051	.354	.049	.211	.587
320	1077	.064	.048	.161	.071	320	2001	.341	.060	.095	.571	320	2052	.369	.049	.243	.605
320	1078	.056	.049	.270	.066	320	2002	.347	.073	.122	.744	320	2053	.362	.053	.155	.582
320	1079	.108	.066	.367	.071	320	2003	.327	.091	.092	.165	320	2054	.318	.049	.057	.498
320	1080	.167	.073	.481	.024	320	2004	.370	.095	.076	.291	320	2055	.307	.047	.123	.467
320	1081	.188	.082	.567	.030	320	2005	.357	.101	.057	.909	320	2056	.313	.044	.154	.514
320	1082	.210	.080	.568	.015	320	2006	.357	.103	.092	.189	320	2057	.310	.046	.148	.491
320	1083	.199	.092	.577	.111	320	2007	.309	.075	.114	.681	320	2058	.282	.045	.143	.440
320	1084	.206	.093	.656	.109	320	2008	.348	.085	.102	.669	320	2059	.280	.046	.143	.433
320	1085	.172	.112	.455	.181	320	2009	.325	.084	.055	.817	320	2060	.288	.043	.152	.423
320	1086	.072	.102	.459	.140	320	2010	.329	.084	.060	.758	320	2061	.322	.049	.146	.516
320	1087	.127	.108	.237	.482	320	2011	.303	.073	.071	.618	320	2062	.309	.047	.171	.494
320	1088	.186	.080	.113	.482	320	2012	.353	.076	.113	.653	320	2063	.307	.040	.204	.499
320	1089	.209	.049	.003	.400	320	2013	.334	.070	.102	.626	320	2064	.343	.041	.222	.442
320	1090	.193	.040	.031	.340	320	2014	.334	.065	.103	.605	320	2065	.353	.048	.219	.563
320	1091	.203	.043	.057	.417	320	2015	.334	.065	.157	.424	320	2066	.329	.049	.181	.548
320	1092	.066	.045	.096	.217	320	2016	.336	.045	.189	.497	320	2067	.353	.054	.177	.590
320	1093	.048	.058	.300	.103	320	2017	.322	.045	.166	.501	320	2068	.347	.051	.159	.533
320	1094	.166	.074	.460	.042	320	2018	.329	.055	.122	.580	320	2069	.321	.051	.061	.474
320	1095	.219	.092	.589	.055	320	2019	.329	.053	.132	.510	320	2070	.288	.051	.100	.474
320	1096	.241	.094	.587	.018	320	2020	.350	.063	.170	.664	320	2071	.287	.050	.100	.434
320	1097	.237	.078	.657	.044	320	2021	.350	.066	.144	.699	320	2072	.296	.043	.159	.454
320	1098	.239	.088	.641	.040	320	2022	.336	.064	.147	.676	320	2073	.286	.046	.148	.484
320	1099	.215	.086	.551	.040	320	2023	.329	.057	.110	.575	320	2074	.256	.047	.148	.454
320	1100	.167	.091	.559	.050	320	2024	.339	.062	.161	.603	320	2075	.253	.050	.075	.467
320	1101	.061	.096	.410	.293	320	2025	.316	.058	.125	.605	320	2076	.310	.043	.173	.458
320	1102	.049	.083	.238	.293	320	2026	.304	.051	.149	.489	320	2077	.320	.045	.174	.484
320	1103	.151	.067	.080	.381	320	2027	.270	.044	.137	.435	320	2078	.311	.045	.171	.485
320	1104	.188	.044	.045	.347	320	2028	.316	.050	.147	.504	320	2079	.326	.047	.195	.517
320	1105	.200	.039	.069	.345	320	2029	.297	.049	.130	.477	320	2080	.341	.049	.210	.516
320	1106	.164	.039	.021	.322	320	2030	.312	.040	.166	.461	320	2081	.337	.054	.167	.533
320	1107	.081	.046	.097	.229	320	2031	.324	.037	.208	.472	320	2082	.313	.059	.087	.533
320	1108	.080	.063	.365	.090	320	2032	.334	.040	.212	.488	320	2083	.288	.054	.073	.485
320	1109	.087	.090	.236	.200	320	2033	.333	.040	.209	.497	320	2084	.266	.045	.034	.396
320	1110	.299	.090	.632	.096	320	2034	.345	.042	.216	.481	320	2085	.264	.051	.019	.453
320	1111	.243	.087	.629	.024	320	2035	.359	.042	.198	.503	320	2086	.260	.053	.061	.485
320	1112	.233	.088	.726	.023	320	2036	.366	.050	.080	.549	320	2087	.266	.046	.130	.495
320	1113	.264	.104	.766	.064	320	2037	.349	.051	.174	.569	320	2088	.267	.040	.143	.477

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
33200	22089	.261	.044	.101	.460	3330	906	.387	.164	.297	.963	3330	1031	.192	.060	.063	.418
33200	22090	.236	.045	.066	.438	3330	907	.338	.115	.075	.788	3330	1032	.045	.083	.350	.216
33200	22091	.312	.049	.164	.488	3330	908	.404	.138	.211	.018	3330	1033	.175	.103	.548	.111
33200	22092	.330	.047	.191	.489	3330	909	.382	.146	.166	-1.247	3330	1034	.270	.108	.724	.033
33200	22093	.342	.050	.205	.514	3330	910	.525	.173	.011	-1.489	3330	1035	.304	.126	.826	.027
33200	22094	.327	.048	.192	.543	3330	911	.526	.121	.114	-1.237	3330	1036	.364	.129	.797	.059
33200	22095	.326	.045	.191	.472	3330	912	.600	.135	.112	-1.243	3330	1037	.397	.136	.887	.030
33200	22096	.366	.055	.219	.619	3330	913	.524	.147	.008	-1.111	3330	1038	.409	.137	.877	.024
33200	22097	.366	.039	.188	.448	3330	914	.444	.127	.112	-.923	3330	1039	.342	.159	.868	.276
33200	22098	.250	.041	.141	.394	3330	915	.582	.125	.129	-1.299	3330	1040	.234	.151	.711	.419
33200	22099	.233	.033	.127	.377	3330	916	.584	.159	.039	-1.258	3330	1041	.006	.130	.461	.430
33200	22100	.253	.034	.150	.393	3330	917	.480	.145	.008	-1.103	3330	1042	.231	.115	.090	.629
33200	22101	.273	.047	.151	.535	3330	918	.549	.169	.174	-1.498	3330	1043	.330	.089	.084	.652
33200	22102	.258	.049	.136	.550	3330	919	.449	.129	.047	-1.051	3330	1044	.234	.050	.083	.419
33200	22103	.265	.045	.141	.508	3330	921	.296	.054	.114	-.536	3330	1045	.255	.047	.084	.427
33200	22104	.271	.041	.150	.419	3330	922	.290	.043	.193	-.494	3330	1046	.159	.052	.031	.360
33200	22105	.272	.045	.134	.437	3330	923	.330	.042	.233	-.518	3330	1047	.016	.083	.329	.281
33200	22106	.340	.046	.209	.532	3330	924	.367	.053	.238	-.615	3330	1048	.161	.100	.589	.111
33200	22107	.259	.034	.163	.396	3330	925	.278	.040	.180	-.470	3330	1049	.250	.107	.626	.054
33200	22108	.385	.046	.255	.575	3330	926	.315	.044	.200	-.534	3330	1050	.296	.111	.695	.002
33200	22109	.451	.072	.275	.792	3330	1001	.182	.077	.081	-.535	3330	1051	.308	.131	.841	.035
33200	22110	.293	.037	.198	.513	3330	1002	.101	.086	.203	-.485	3330	1052	.348	.132	.860	.009
33200	22111	.323	.046	.189	.513	3330	1003	.097	.104	.348	-.542	3330	1053	.373	.142	.871	.132
33200	22112	.355	.043	.228	.528	3330	1004	.066	.102	.435	-.317	3330	1054	.311	.138	.740	.120
33200	22113	.384	.046	.249	.571	3330	1005	.000	.098	.415	-.318	3330	1055	.145	.142	.634	.308
33200	22114	.332	.044	.200	.504	3330	1006	.020	.093	.325	-.311	3330	1056	.030	.127	.425	.433
33200	22115	.361	.048	.204	.544	3330	1007	.030	.111	.404	-.381	3330	1057	.230	.121	.207	.613
33200	22116	.403	.048	.253	.565	3330	1008	.036	.117	.477	-.372	3330	1058	.299	.085	.023	.610
33200	22117	.354	.040	.229	.480	3330	1009	.053	.123	.564	-.299	3330	1059	.282	.054	.093	.532
33200	22118	.282	.034	.178	.384	3330	1010	.018	.107	.466	-.395	3330	1060	.233	.045	.085	.440
33200	22119	.275	.032	.163	.363	3330	1011	.180	.107	.177	-.596	3330	1061	.151	.052	.143	.361
33200	22120	.278	.033	.178	.414	3330	1012	.287	.093	.042	-.596	3330	1062	.016	.064	.292	.226
33200	22121	.316	.044	.194	.500	3330	1013	.372	.081	.073	-.776	3330	1063	.071	.085	.495	.142
33200	22122	.266	.045	.142	.428	3330	1014	.333	.065	.061	-.567	3330	1064	.208	.094	.683	.050
33200	22123	.274	.052	.085	.501	3330	1015	.343	.059	.074	-.581	3330	1065	.263	.103	.699	.017
33200	22124	.302	.048	.136	.476	3330	1016	.129	.064	.130	-.405	3330	1066	.282	.104	.724	.024
33200	22125	.316	.055	.120	.513	3330	1017	.055	.097	.433	-.253	3330	1067	.271	.119	.736	.047
33200	22126	.332	.038	.225	.486	3330	1018	.160	.108	.488	-.157	3330	1068	.309	.124	.754	.015
33200	22127	.295	.040	.168	.480	3330	1019	.218	.130	.619	-.140	3330	1069	.250	.126	.766	.160
33300	801	.264	.114	.680	.024	3330	1020	.293	.129	.811	-.078	3330	1070	.110	.120	.495	.360
33300	802	.300	.109	.685	.037	3330	1021	.319	.137	.738	-.034	3330	1071	.115	.133	.292	.615
33300	803	.353	.100	.700	.015	3330	1022	.326	.136	.726	-.014	3330	1072	.258	.119	.106	.712
33300	804	.337	.042	.243	.535	3330	1023	.349	.160	.870	-.040	3330	1073	.271	.088	.033	.585
33300	805	.333	.032	.233	.493	3330	1024	.355	.152	.830	-.083	3330	1074	.235	.051	.049	.426
33300	806	.276	.037	.187	.441	3330	1025	.242	.142	.820	-.205	3330	1075	.273	.049	.093	.459
33300	807	.293	.042	.181	.461	3330	1026	.016	.114	.439	-.405	3330	1076	.159	.045	.047	.322
33300	901	.522	.153	.141	.793	3330	1027	.258	.111	.141	-.640	3330	1077	.030	.055	.202	.215
33300	902	.485	.110	.160	.065	3330	1028	.279	.076	.065	-.561	3330	1078	.104	.060	.377	.062
33300	903	.585	.105	.290	.009	3330	1029	.248	.049	.061	-.430	3330	1079	.170	.084	.529	.014
33300	905	.573	.193	.009	.469	3330	1030	.270	.044	.113	-.443	3330	1080	.235	.095	.592	.016

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	1081	.237	.094	.602	.024	3330	2006	.318	.085	.036	.878	330	2056	.318	.047	.177	.505
3330	1082	.258	.090	.628	.035	3330	2007	.319	.085	.067	.790	3330	2057	.309	.049	.146	.537
3330	1083	.255	.106	.655	.009	3330	2008	.293	.073	.101	.612	3330	2058	.287	.048	.149	.524
3330	1084	.185	.116	.569	.097	3330	2009	.350	.085	.092	.914	3330	2059	.278	.048	.138	.490
3330	1085	.068	.112	.518	.349	3330	2010	.338	.088	.087	.868	3330	2060	.256	.044	.148	.455
3330	1086	.270	.105	.268	.474	3330	2011	.347	.087	.049	.726	3330	2061	.236	.041	.128	.432
3330	1087	.279	.108	.158	.678	3330	2012	.317	.072	.069	.775	3330	2062	.252	.040	.140	.392
3330	1088	.280	.076	.000	.438	3330	2013	.362	.073	.068	.688	3330	2063	.263	.039	.138	.419
3330	1089	.225	.043	.000	.777	3330	2014	.341	.068	.102	.643	3330	2064	.285	.039	.168	.448
3330	1090	.195	.037	.000	.000	3330	2015	.355	.064	.158	.647	3330	2065	.289	.043	.148	.448
3330	1091	.187	.047	.028	.383	3330	2016	.252	.043	.123	.402	3330	2066	.278	.043	.140	.444
3330	1092	.025	.032	.176	.167	3330	2017	.302	.047	.158	.475	3330	2067	.284	.046	.153	.443
3330	1093	.104	.075	.422	.099	3330	2018	.286	.048	.127	.468	3330	2068	.280	.043	.123	.442
3330	1094	.229	.091	.589	.031	3330	2019	.285	.050	.103	.490	3330	2069	.277	.049	.076	.460
3330	1095	.263	.108	.744	.000	3330	2020	.264	.048	.096	.454	3330	2070	.284	.050	.122	.479
3330	1096	.279	.106	.762	.028	3330	2021	.323	.057	.139	.517	3330	2071	.291	.049	.122	.479
3330	1097	.282	.093	.026	.040	3330	2022	.310	.059	.127	.537	3330	2072	.291	.041	.166	.462
3330	1098	.272	.081	.659	.168	3330	2023	.315	.062	.126	.662	3330	2073	.274	.044	.139	.505
3330	1099	.173	.090	.299	.489	3330	2024	.292	.053	.135	.576	3330	2074	.256	.043	.106	.462
3330	1100	.087	.093	.333	.777	3330	2025	.347	.061	.156	.593	3330	2075	.256	.045	.091	.430
3330	1101	.048	.096	.286	.333	3330	2026	.328	.058	.144	.539	3330	2076	.260	.035	.150	.424
3330	1102	.148	.076	.489	.489	3330	2027	.333	.055	.133	.542	3330	2077	.264	.037	.151	.439
3330	1103	.211	.060	.010	.491	3330	2028	.329	.048	.141	.494	3330	2078	.264	.035	.158	.412
3330	1104	.197	.038	.344	.344	3330	2029	.340	.054	.163	.560	3330	2079	.273	.037	.173	.452
3330	1105	.209	.040	.071	.390	3330	2030	.318	.053	.149	.532	3330	2080	.277	.036	.143	.442
3330	1106	.155	.045	.017	.345	3330	2031	.275	.043	.142	.439	3330	2081	.267	.041	.096	.428
3330	1107	.034	.063	.217	.227	3330	2032	.279	.040	.162	.430	3330	2082	.252	.043	.049	.437
3330	1108	.134	.086	.543	.076	3330	2033	.285	.042	.160	.444	3330	2083	.243	.051	.017	.410
3330	1109	.160	.110	.640	.169	3330	2034	.293	.043	.165	.444	3330	2084	.250	.045	.076	.410
3330	1110	.321	.098	.739	.089	3330	2035	.304	.048	.173	.505	3330	2085	.274	.052	.055	.494
3330	1111	.274	.100	.716	.333	3330	2036	.313	.046	.186	.510	3330	2086	.289	.053	.140	.534
3330	1112	.277	.103	.783	.073	3330	2037	.319	.052	.169	.548	3330	2087	.274	.047	.131	.532
3330	1113	.316	.101	.775	.088	3330	2038	.315	.051	.147	.522	3330	2088	.266	.041	.139	.496
3330	1114	.335	.091	.745	.139	3330	2039	.328	.053	.113	.592	3330	2089	.258	.044	.121	.510
3330	1115	.290	.105	.811	.073	3330	2040	.316	.052	.150	.611	3330	2090	.243	.044	.112	.479
3330	1116	.237	.110	.741	.000	3330	2041	.331	.056	.164	.610	3330	2091	.250	.038	.133	.381
3330	1117	.151	.107	.747	.151	3330	2042	.316	.053	.151	.529	3330	2092	.260	.035	.157	.383
3330	1118	.046	.089	.411	.270	3330	2043	.302	.051	.138	.510	3330	2093	.267	.039	.162	.405
3330	1119	.153	.092	.217	.480	3330	2044	.300	.046	.171	.473	3330	2094	.268	.039	.170	.419
3330	1120	.153	.060	.136	.333	3330	2045	.296	.050	.153	.485	3330	2095	.274	.040	.160	.459
3330	1121	.170	.047	.058	.333	3330	2046	.263	.040	.117	.408	3330	2096	.282	.041	.148	.480
3330	1122	.298	.039	.333	.333	3330	2047	.272	.041	.158	.397	3330	2097	.254	.033	.162	.480
3330	1123	.298	.040	.499	.333	3330	2048	.284	.038	.184	.403	3330	2098	.223	.034	.119	.378
3330	1124	.311	.047	.196	.333	3330	2049	.300	.043	.180	.464	3330	2099	.240	.036	.140	.386
3330	1125	.353	.047	.240	.523	3330	2050	.303	.045	.172	.469	3330	2100	.274	.042	.159	.435
3330	2001	.353	.055	.097	.503	3330	2051	.306	.044	.135	.461	3330	2101	.288	.051	.155	.525
3330	2002	.283	.057	.080	.494	3330	2052	.313	.043	.171	.489	3330	2102	.273	.053	.126	.636
3330	2003	.292	.070	.051	.706	3330	2053	.309	.048	.116	.498	3330	2103	.275	.054	.089	.561
3330	2004	.255	.067	.006	.646	3330	2054	.301	.049	.131	.552	3330	2104	.275	.048	.098	.487
3330	2005	.323	.080	.050	.794	3330	2055	.304	.051	.127	.523	3330	2105	.273	.052	.080	.494

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	2106	.283	.041	.172	.458	3340	924	.377	.042	.230	.520	340	1048	.212	.118	.639	.035
3330	2107	.242	.032	.139	.361	3340	925	.261	.036	.167	.408	340	1049	.325	.119	.746	.055
3330	2108	.328	.039	.225	.468	3340	926	.275	.044	.167	.453	340	1050	.359	.116	.772	.085
3330	2109	.355	.049	.238	.554	3340	1001	.123	.091	.242	.544	340	1051	.358	.136	.848	.038
3330	2110	.265	.033	.173	.385	3340	1002	.029	.098	.361	.428	340	1052	.384	.139	.869	.004
3330	2111	.275	.042	.167	.444	3340	1003	.035	.113	.313	.443	340	1053	.335	.140	.798	.063
3330	2112	.333	.040	.210	.476	3340	1004	.039	.110	.424	.311	340	1054	.202	.128	.625	.140
3330	2113	.336	.044	.221	.526	3340	1005	.047	.112	.495	.450	340	1055	.022	.136	.454	.519
3330	2114	.286	.043	.177	.489	3340	1006	.023	.102	.382	.290	340	1056	.211	.134	.193	.766
3330	2115	.284	.039	.191	.511	3340	1007	.001	.118	.444	.431	340	1057	.408	.124	.068	.842
3330	2116	.323	.037	.238	.548	3340	1008	.035	.120	.530	.413	340	1058	.405	.087	.189	.706
3330	2117	.303	.031	.216	.440	3340	1009	.016	.117	.463	.475	340	1059	.328	.060	.168	.759
3330	2118	.248	.028	.170	.448	3340	1010	.104	.096	.250	.458	340	1060	.251	.045	.135	.483
3330	2119	.263	.038	.155	.444	3340	1011	.000	.099	.160	.659	340	1061	.129	.061	.217	.348
3330	2120	.316	.045	.191	.560	3340	1012	.088	.091	.055	.716	340	1062	.030	.076	.323	.203
3330	2121	.348	.057	.206	.609	3340	1013	.394	.091	.127	.844	340	1063	.121	.103	.556	.171
3330	2122	.284	.056	.136	.499	3340	1014	.355	.069	.051	.566	340	1064	.249	.114	.864	.019
3330	2123	.284	.054	.108	.591	3340	1015	.322	.066	.049	.562	340	1065	.308	.117	.782	.042
3330	2124	.318	.051	.153	.590	3340	1016	.072	.080	.222	.340	340	1066	.312	.115	.737	.066
3330	2125	.329	.057	.130	.627	3340	1017	.132	.116	.522	.391	340	1067	.289	.130	.780	.012
3330	2126	.316	.033	.235	.476	3340	1018	.242	.128	.627	.105	340	1068	.277	.128	.730	.073
3340	2127	.284	.036	.155	.330	3340	1019	.089	.152	.756	.181	340	1069	.138	.126	.625	.225
340	801	.296	.118	.830	.037	3340	1020	.022	.154	.865	.073	340	1070	.039	.122	.361	.425
340	802	.324	.112	.811	.064	3340	1021	.339	.152	.846	.018	340	1071	.279	.136	.136	.801
340	803	.324	.118	.988	.058	3340	1022	.666	.147	.855	.083	340	1072	.384	.126	.076	.879
340	804	.314	.043	.212	.567	3340	1023	.345	.146	.846	.193	340	1073	.350	.090	.068	.801
340	805	.322	.041	.218	.512	3340	1024	.277	.143	.761	.330	340	1074	.262	.053	.060	.610
340	806	.266	.039	.167	.447	3340	1025	.084	.139	.643	.535	340	1075	.281	.042	.103	.504
340	807	.275	.040	.176	.425	3340	1026	.172	.109	.227	.535	340	1076	.143	.053	.070	.354
340	901	.487	.138	.185	.433	3340	1027	.429	.106	.076	.793	340	1077	.007	.076	.364	.199
340	902	.459	.096	.129	.336	3340	1028	.370	.073	.142	.662	340	1078	.148	.081	.545	.046
340	903	.538	.100	.209	.942	3340	1029	.271	.056	.115	.521	340	1079	.214	.100	.595	.043
340	905	.477	.191	.088	.377	3340	1030	.271	.048	.114	.498	340	1080	.265	.101	.673	.016
340	906	.298	.147	.330	.014	3340	1031	.148	.077	.228	.465	340	1081	.265	.105	.773	.045
340	907	.366	.124	.062	.962	3340	1032	.111	.104	.572	.212	340	1082	.272	.097	.733	.062
340	908	.464	.157	.084	.346	3340	1033	.282	.120	.791	.084	340	1083	.200	.112	.720	.083
340	909	.410	.151	.054	.555	3340	1034	.349	.125	.858	.002	340	1084	.106	.121	.603	.441
340	910	.500	.149	.008	.483	3340	1035	.371	.143	.897	.047	340	1085	.058	.124	.302	.509
340	911	.509	.110	.217	.100	3340	1036	.415	.150	.899	.067	340	1086	.210	.116	.128	.665
340	912	.569	.124	.223	.210	3340	1037	.419	.150	.955	.030	340	1087	.399	.119	.104	.853
340	913	.506	.149	.029	.231	3340	1038	.383	.146	.868	.030	340	1088	.346	.085	.142	.740
340	914	.460	.116	.027	.577	3340	1039	.232	.153	.719	.368	340	1089	.251	.050	.106	.511
340	915	.536	.111	.222	.130	3340	1040	.067	.134	.511	.450	340	1090	.207	.038	.090	.389
340	916	.593	.151	.089	.579	3340	1041	.199	.137	.203	.673	340	1091	.179	.054	.002	.478
340	917	.492	.132	.121	.978	3340	1042	.403	.125	.056	.844	340	1092	.014	.064	.348	.208
340	918	.492	.150	.096	.978	3340	1043	.436	.098	.171	.839	340	1093	.140	.082	.625	.040
340	919	.340	.121	.205	.353	3340	1044	.277	.061	.120	.615	340	1094	.271	.099	.719	.053
340	921	.250	.036	.077	.438	3340	1045	.262	.049	.125	.500	340	1095	.299	.118	.692	.040
340	922	.264	.038	.160	.350	3340	1046	.066	.066	.156	.346	340	1096	.307	.114	.687	.063
340	923	.305	.035	.209	.451	3340	1047	.035	.103	.435	.232	340	1097	.275	.097	.625	.065

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	1098	.228	.087	.540	.015	340	2023	.339	.066	.142	.561	340	2073	.344	.057	.166	.658
340	1099	.088	.102	.552	.239	340	2024	.320	.058	.155	.538	340	2074	.289	.054	.117	.574
340	1100	.027	.103	.421	.363	340	2025	.376	.065	.173	.640	340	2075	.282	.057	.107	.917
340	1101	.176	.103	.172	.636	340	2026	.348	.063	.139	.584	340	2076	.214	.038	.121	.400
340	1102	.262	.089	.024	.531	340	2027	.337	.061	.119	.625	340	2077	.276	.042	.168	.479
340	1103	.287	.069	.116	.483	340	2028	.302	.054	.126	.624	340	2078	.242	.041	.142	.442
340	1104	.223	.040	.099	.405	340	2029	.350	.059	.135	.673	340	2079	.252	.040	.132	.395
340	1105	.211	.039	.101	.365	340	2030	.331	.053	.118	.610	340	2080	.227	.040	.091	.363
340	1106	.150	.053	.069	.366	340	2031	.333	.053	.125	.456	340	2081	.285	.048	.052	.479
340	1107	.006	.076	.410	.249	340	2032	.300	.044	.116	.409	340	2082	.245	.048	.022	.438
340	1108	.169	.099	.678	.090	340	2033	.294	.048	.173	.557	340	2083	.250	.046	.043	.517
340	1109	.259	.112	.644	.046	340	2034	.290	.048	.142	.466	340	2084	.264	.047	.089	.420
340	1110	.366	.111	.828	.058	340	2035	.293	.048	.136	.470	340	2085	.366	.064	.095	.717
340	1111	.328	.116	.763	.021	340	2036	.352	.043	.146	.458	340	2086	.338	.067	.187	.820
340	1112	.342	.116	.840	.023	340	2037	.337	.050	.133	.584	340	2087	.312	.065	.100	.674
340	1113	.305	.119	.942	.006	340	2038	.332	.053	.119	.571	340	2088	.276	.054	.087	.531
340	1114	.311	.102	.862	.096	340	2039	.343	.053	.134	.515	340	2089	.328	.061	.092	.624
340	1115	.231	.112	.799	.054	340	2040	.330	.043	.189	.490	340	2090	.281	.059	.081	.567
340	1116	.147	.112	.579	.241	340	2041	.338	.050	.223	.603	340	2091	.243	.038	.118	.388
340	1117	.054	.101	.432	.308	340	2042	.332	.050	.161	.588	340	2092	.226	.035	.112	.354
340	1118	.056	.090	.248	.382	340	2043	.366	.050	.159	.572	340	2093	.290	.039	.164	.436
340	1119	.246	.099	.081	.775	340	2044	.338	.044	.143	.490	340	2094	.255	.037	.142	.407
340	1120	.210	.065	.014	.330	340	2045	.341	.053	.171	.591	340	2095	.254	.039	.152	.424
340	1121	.202	.044	.055	.374	340	2046	.338	.044	.114	.405	340	2096	.235	.035	.155	.420
340	1122	.183	.036	.062	.323	340	2047	.336	.045	.132	.436	340	2097	.288	.035	.178	.440
340	1123	.262	.041	.158	.418	340	2048	.241	.041	.132	.402	340	2098	.237	.043	.091	.403
340	1124	.275	.044	.172	.475	340	2049	.308	.048	.168	.529	340	2099	.270	.052	.064	.361
340	1125	.307	.044	.202	.496	340	2050	.330	.047	.042	.510	340	2100	.294	.064	.134	.254
340	2001	.274	.056	.071	.474	340	2051	.328	.042	.145	.436	340	2101	.372	.085	.185	.726
340	2002	.256	.057	.040	.460	340	2052	.337	.050	.137	.404	340	2102	.314	.080	.131	.953
340	2003	.252	.065	.008	.613	340	2053	.333	.050	.164	.526	340	2103	.309	.075	.113	.999
340	2004	.232	.062	.003	.692	340	2054	.346	.053	.112	.524	340	2104	.282	.063	.107	.848
340	2005	.310	.083	.028	.822	340	2055	.348	.053	.204	.561	340	2105	.342	.072	.140	.944
340	2006	.315	.087	.012	.639	340	2056	.327	.053	.184	.545	340	2106	.259	.034	.166	.372
340	2007	.324	.089	.065	.707	340	2057	.366	.058	.192	.710	340	2107	.244	.038	.117	.397
340	2008	.307	.077	.012	.626	340	2058	.331	.054	.149	.677	340	2108	.302	.036	.209	.444
340	2009	.369	.090	.066	.858	340	2059	.305	.054	.098	.833	340	2109	.328	.041	.223	.583
340	2010	.360	.094	.005	.870	340	2060	.309	.047	.096	.588	340	2110	.259	.033	.158	.411
340	2011	.366	.086	.060	.823	340	2061	.326	.041	.114	.431	340	2111	.246	.037	.127	.394
340	2012	.330	.070	.110	.853	340	2062	.334	.038	.086	.393	340	2112	.277	.035	.172	.412
340	2013	.377	.074	.149	.833	340	2063	.344	.038	.109	.411	340	2113	.301	.038	.195	.465
340	2014	.356	.068	.165	.772	340	2064	.340	.037	.112	.381	340	2114	.252	.036	.148	.440
340	2015	.360	.067	.162	.714	340	2065	.340	.044	.111	.469	340	2115	.271	.036	.176	.399
340	2016	.219	.044	.099	.375	340	2066	.333	.044	.060	.435	340	2116	.304	.032	.224	.412
340	2017	.268	.049	.130	.445	340	2067	.334	.044	.093	.408	340	2117	.304	.035	.200	.414
340	2018	.249	.050	.109	.446	340	2068	.333	.044	.110	.390	340	2118	.257	.034	.155	.372
340	2019	.268	.055	.106	.490	340	2069	.342	.057	.152	.531	340	2119	.284	.044	.172	.498
340	2020	.261	.054	.096	.481	340	2070	.330	.061	.131	.546	340	2120	.344	.052	.190	.577
340	2021	.330	.062	.140	.559	340	2071	.345	.066	.150	.894	340	2121	.374	.069	.162	.767
340	2022	.321	.063	.130	.573	340	2072	.301	.053	.153	.579	340	2122	.308	.068	.131	.742

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3340	2123	.306	.070	.124	.825	350	1015	.255	.071	.020	.560	350	1065	.324	.111	.803	.022
3340	2124	.334	.063	.167	.774	350	1016	.019	.092	.343	.302	350	1066	.315	.105	.714	.039
3340	2125	.347	.071	.160	.812	350	1017	.232	.123	.636	.133	350	1067	.289	.115	.683	.039
3340	2126	.298	.033	.185	.409	350	1018	.338	.129	.807	.113	350	1068	.189	.122	.593	.268
3340	2127	.280	.039	.077	.417	350	1019	.387	.144	.927	.021	350	1069	.006	.119	.425	.400
801	801	.324	.130	.990	.039	350	1020	.400	.143	.909	.019	350	1070	.209	.129	.213	.800
802	802	.348	.125	.987	.083	350	1021	.404	.158	.847	.035	350	1071	.407	.154	.046	.173
803	803	.353	.133	.932	.065	350	1022	.389	.147	.823	.020	350	1072	.519	.145	.061	.161
804	804	.302	.045	.157	.535	350	1023	.310	.147	.783	.221	350	1073	.446	.106	.195	.862
805	805	.301	.043	.202	.473	350	1024	.120	.129	.586	.337	350	1074	.274	.057	.129	.687
866	866	.254	.042	.151	.423	350	1025	.104	.122	.287	.502	350	1075	.236	.045	.089	.476
807	807	.257	.042	.151	.456	350	1026	.350	.109	.016	.696	350	1076	.131	.074	.173	.477
901	901	.461	.129	.085	-1.256	350	1027	.499	.116	.148	.881	350	1077	.034	.081	.503	.190
902	902	.422	.091	.153	.852	350	1028	.430	.092	.206	.782	350	1078	.173	.083	.597	.051
903	903	.455	.098	.226	.978	350	1029	.284	.071	.053	.591	350	1079	.221	.101	.686	.002
905	905	.351	.166	.127	-1.626	350	1030	.249	.052	.048	.456	350	1080	.253	.102	.704	.033
906	906	.244	.144	.361	.754	350	1031	.030	.083	.271	.273	350	1081	.262	.106	.671	.035
908	908	.381	.139	.109	.914	350	1032	.199	.118	.685	.123	350	1082	.242	.098	.683	.031
909	909	.461	.164	.067	-1.271	350	1033	.324	.136	.824	.658	350	1083	.107	.112	.646	.242
910	910	.394	.139	.022	-1.074	350	1034	.395	.132	.860	.050	350	1084	.043	.114	.358	.389
911	911	.497	.145	.136	-1.245	350	1035	.421	.143	.938	.057	350	1085	.221	.128	.200	.737
912	912	.533	.118	.122	-1.013	350	1036	.421	.142	.949	.056	350	1086	.367	.124	.042	.826
913	913	.480	.148	.054	-1.076	350	1037	.461	.143	.870	.038	350	1087	.521	.129	.178	.016
914	914	.437	.122	.034	-1.255	350	1038	.294	.132	.771	.066	350	1088	.418	.098	.172	.830
915	915	.528	.116	.229	-1.168	350	1039	.079	.131	.667	.662	350	1089	.264	.053	.124	.675
916	916	.557	.157	.086	-1.373	350	1040	.165	.128	.352	.656	350	1090	.212	.038	.101	.402
917	917	.480	.142	.036	-1.246	350	1041	.420	.136	.018	.973	350	1091	.191	.066	.033	.567
918	918	.470	.133	.184	-1.479	350	1042	.565	.121	.254	.975	350	1092	.030	.072	.334	.215
921	921	.282	.115	.193	.784	350	1043	.479	.103	.257	.625	350	1093	.203	.094	.580	.035
922	922	.256	.044	.116	.491	350	1044	.293	.069	.094	.670	350	1094	.316	.104	.701	.062
923	923	.252	.038	.139	.423	350	1045	.245	.053	.073	.527	350	1095	.310	.119	.748	.052
924	924	.297	.038	.207	.488	350	1046	.053	.079	.288	.388	350	1096	.290	.112	.730	.047
925	925	.313	.044	.187	.548	350	1047	.152	.117	.633	.187	350	1097	.245	.102	.642	.040
926	926	.249	.038	.151	.416	350	1048	.277	.132	.744	.075	350	1098	.157	.097	.543	.135
1000	1000	.264	.041	.165	.404	350	1049	.352	.130	.821	.038	350	1099	.026	.113	.358	.432
1001	1001	.029	.098	.378	.473	350	1050	.374	.125	.823	.070	350	1100	.156	.113	.207	.696
1002	1002	.071	.102	.460	.347	350	1051	.370	.134	.851	.056	350	1101	.301	.098	.010	.869
1003	1003	.087	.111	.460	.310	350	1052	.344	.137	.845	.016	350	1102	.352	.098	.130	.865
1004	1004	.100	.108	.512	.247	350	1053	.250	.130	.718	.182	350	1103	.333	.080	.114	.804
1005	1005	.073	.112	.572	.260	350	1054	.042	.117	.399	.379	350	1104	.233	.046	.088	.491
1006	1006	.048	.103	.472	.265	350	1055	.194	.136	.232	.631	350	1105	.226	.039	.101	.404
1007	1007	.050	.117	.490	.265	350	1056	.427	.151	.002	.897	350	1106	.158	.066	.058	.466
1008	1008	.012	.117	.448	.468	350	1057	.534	.133	.167	.887	350	1107	.033	.084	.387	.192
1009	1009	.060	.109	.378	.533	350	1058	.461	.100	.209	.862	350	1108	.229	.106	.735	.019
1010	1010	.206	.092	.104	.594	350	1059	.279	.066	.059	.670	350	1109	.306	.130	.870	.024
1011	1011	.360	.098	.039	.765	350	1060	.237	.044	.098	.447	350	1110	.356	.118	.939	.067
1012	1012	.460	.105	.119	.863	350	1061	.099	.075	.229	.353	350	1111	.323	.126	.997	.029
1013	1013	.413	.112	.069	-1.205	350	1062	.091	.085	.445	.158	350	1112	.339	.127	1.107	.044
1014	1014	.288	.084	.045	.717	350	1063	.208	.101	.681	.082	350	1113	.306	.134	.991	.179
						350	1064	.284	.106	.648	.014	350	1114	.304	.110	.853	.035

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: SUN GAS BUILDING, DALLAS

WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN
350	1115	.174	.117	.740	.173	350	2036	.274	.044	.150	.429	350	2082	.252	.046	.029	.477
350	1116	.039	.111	.511	.399	350	2037	.314	.051	.154	.508	350	2083	.284	.052	.044	.493
350	1117	.108	.111	.368	.475	350	2038	.331	.056	.146	.591	350	2084	.282	.061	.028	.650
350	1118	.210	.099	.108	.595	350	2039	.356	.066	.133	.608	350	2085	.333	.096	.070	.952
350	1119	.373	.107	.040	.752	350	2040	.346	.061	.168	.570	350	2086	.391	.105	.118	1.291
350	1120	.280	.071	.048	.509	350	2041	.361	.071	.150	.704	350	2087	.349	.091	.146	1.179
350	1121	.233	.047	.083	.457	350	2042	.331	.073	.091	.738	350	2088	.337	.075	.157	.748
350	1122	.203	.039	.087	.398	350	2043	.317	.065	.099	.761	350	2089	.367	.079	.168	.926
350	1123	.251	.039	.153	.401	350	2044	.290	.052	.128	.525	350	2090	.342	.077	.157	.854
350	1124	.259	.039	.162	.421	350	2045	.313	.059	.122	.586	350	2091	.232	.039	.122	.407
350	1125	.289	.038	.197	.461	350	2046	.230	.049	.098	.418	350	2092	.214	.035	.123	.360
350	2001	.288	.067	.012	.569	350	2047	.239	.045	.106	.420	350	2093	.255	.037	.150	.408
350	2002	.235	.063	.010	.528	350	2048	.229	.041	.110	.391	350	2094	.240	.036	.141	.413
350	2003	.235	.069	.008	.584	350	2049	.261	.046	.129	.442	350	2095	.243	.040	.144	.411
350	2004	.229	.072	.003	.545	350	2050	.252	.045	.091	.434	350	2096	.228	.040	.144	.456
350	2005	.318	.088	.013	.686	350	2051	.255	.046	.095	.471	350	2097	.263	.047	.104	.472
350	2006	.313	.088	.013	.740	350	2052	.254	.044	.086	.443	350	2098	.258	.061	.049	.564
350	2007	.324	.094	.049	.874	350	2053	.318	.056	.122	.650	350	2099	.277	.080	.038	.900
350	2008	.307	.084	.022	.940	350	2054	.341	.064	.152	.715	350	2100	.229	.087	.088	1.139
350	2009	.375	.103	.062	.939	350	2055	.366	.070	.161	.745	350	2101	.286	.105	.147	1.097
350	2010	.337	.109	.094	.935	350	2056	.342	.067	.146	.724	350	2102	.269	.112	.098	1.238
350	2011	.357	.113	.029	.967	350	2057	.351	.077	.125	.905	350	2103	.277	.097	.088	1.077
350	2012	.329	.100	.049	.926	350	2058	.320	.072	.086	.941	350	2104	.249	.081	.119	.976
350	2013	.381	.103	.057	.968	350	2059	.300	.068	.108	.752	350	2105	.266	.089	.143	1.156
350	2014	.355	.082	.031	.785	350	2060	.278	.057	.121	.652	350	2106	.245	.037	.148	.399
350	2015	.354	.072	.165	.691	350	2061	.235	.041	.095	.421	350	2107	.239	.048	.037	.416
350	2016	.257	.051	.040	.481	350	2062	.221	.040	.077	.408	350	2108	.209	.036	.192	.419
350	2017	.237	.057	.078	.512	350	2063	.227	.040	.122	.374	350	2109	.249	.044	.167	.503
350	2018	.238	.055	.066	.522	350	2064	.213	.036	.117	.338	350	2110	.249	.043	.102	.433
350	2019	.265	.062	.067	.507	350	2065	.247	.040	.102	.373	350	2111	.242	.041	.124	.402
350	2020	.334	.060	.090	.457	350	2066	.239	.042	.089	.470	350	2112	.272	.037	.167	.419
350	2021	.334	.069	.119	.674	350	2067	.260	.045	.088	.464	350	2113	.288	.042	.184	.465
350	2022	.327	.069	.099	.691	350	2068	.269	.048	.106	.492	350	2114	.274	.038	.126	.389
350	2023	.333	.065	.099	.612	350	2069	.347	.066	.166	.650	350	2115	.256	.038	.160	.418
350	2024	.372	.063	.155	.620	350	2070	.367	.081	.136	.808	350	2116	.255	.036	.175	.446
350	2025	.340	.073	.168	.745	350	2071	.372	.081	.170	1.172	350	2117	.287	.041	.122	.460
350	2026	.440	.070	.123	.653	350	2072	.332	.068	.126	.717	350	2118	.264	.048	.090	.513
350	2027	.343	.074	.108	.664	350	2073	.352	.074	.072	.812	350	2119	.300	.071	.108	.797
350	2028	.307	.062	.126	.776	350	2074	.319	.068	.098	.740	350	2120	.361	.078	.162	.845
350	2029	.352	.063	.166	.909	350	2075	.321	.070	.137	.761	350	2121	.388	.096	.134	1.000
350	2030	.326	.060	.149	.764	350	2076	.209	.038	.112	.564	350	2122	.388	.098	.007	.964
350	2031	.337	.048	.082	.422	350	2077	.244	.041	.141	.415	350	2123	.388	.098	.091	1.349
350	2032	.324	.042	.083	.382	350	2078	.231	.040	.116	.392	350	2124	.359	.095	.148	1.139
350	2033	.251	.047	.086	.451	350	2079	.247	.041	.093	.387	350	2125	.359	.103	.114	1.190
350	2034	.249	.047	.098	.447	350	2080	.227	.039	.028	.398	350	2126	.298	.062	.156	.446
350	2035	.711	.048	.097	.449	350	2081	.265	.044	.077	.460	350	2127	.264	.054	.006	.415

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	801	.276	.126	.785	-.021	10	1020	.354	.164	1.013	-.214	10	1070	-.573	.146	-.187	-.991
10	802	.298	.126	.782	-.003	10	1021	.314	.145	.770	-.211	10	1071	-.719	.163	-.282	-1.234
10	803	.303	.129	.923	-.023	10	1022	.243	.124	.668	-.242	10	1072	-.678	.142	-.255	-1.145
10	804	.379	.113	.653	-1.152	10	1023	.031	.122	.510	-.396	10	1073	-.463	.140	-.037	-1.182
10	805	.217	.035	.092	-.374	10	1024	-.245	.116	.171	-.696	10	1074	-.216	.057	-.024	-.619
10	806	.222	.051	.058	-.488	10	1025	-.484	.137	-.073	-.959	10	1075	-.191	.055	-.014	-.641
10	807	.197	.037	.092	-.470	10	1026	-.635	.145	-.224	-1.048	10	1076	-.129	.134	-.441	-.580
10	901	.730	.170	.219	-1.450	10	1027	-.625	.148	-.154	-1.126	10	1077	.081	.096	.504	.223
10	902	.547	.110	.183	-1.345	10	1028	-.454	.139	-.032	-1.062	10	1078	.179	.094	.630	-.091
10	903	.489	.105	.194	-.990	10	1029	-.253	.095	.065	-.740	10	1079	.223	.115	.786	-.093
10	905	.226	.167	.467	-.938	10	1030	-.223	.078	.024	-.675	10	1080	.218	.110	.765	-.116
10	906	.166	.173	.434	-.967	10	1031	-.092	.168	.576	-.678	10	1081	.181	.103	.545	-.121
10	907	.294	.167	.314	-1.114	10	1032	.227	.175	.823	-.301	10	1082	-.088	.096	.519	-.200
10	908	.306	.181	.231	-1.183	10	1033	.332	.179	.958	-.232	10	1083	-.123	.112	.409	-.571
10	909	.257	.148	.282	-1.222	10	1034	.384	.165	.941	-.101	10	1084	-.348	.117	.133	-.817
10	910	.711	.205	.085	-1.543	10	1035	.382	.163	.899	-.106	10	1085	-.546	.137	.171	-1.016
10	911	.652	.154	.091	-1.271	10	1036	.332	.146	.853	-.140	10	1086	-.663	.136	.275	-1.156
10	912	.656	.147	.065	-1.313	10	1037	.214	.128	.623	-.238	10	1087	-.622	.133	.119	-1.128
10	913	.452	.193	.141	-1.249	10	1038	-.013	.120	.423	-.535	10	1088	-.410	.119	.017	-.923
10	914	.421	.144	.103	-1.045	10	1039	-.323	.140	.144	-.847	10	1089	-.200	.051	.018	-.416
10	915	.585	.138	.045	-1.297	10	1040	-.569	.156	-.089	-1.173	10	1090	-.182	.038	.014	-.356
10	916	.347	.196	.033	-1.333	10	1041	-.752	.160	-.285	-1.273	10	1091	-.164	.127	.319	-.698
10	917	.546	.180	.046	-1.312	10	1042	-.705	.130	-.303	-1.150	10	1092	.070	.081	.462	-.194
10	918	.728	.180	.230	-1.433	10	1043	-.522	.148	-.147	-1.096	10	1093	.201	.089	.718	-.062
10	919	.153	.142	.311	-1.759	10	1044	-.252	.069	.003	-.620	10	1094	.268	.102	.882	-.037
10	921	.270	.084	.097	-.763	10	1045	-.129	.066	.038	-.533	10	1095	.263	.113	.851	-.024
10	922	.215	.047	.084	-.456	10	1046	-.219	.147	.619	-.580	10	1096	.195	.101	.685	-.246
10	923	.238	.058	.065	-.518	10	1047	.154	.143	.784	-.254	10	1097	.104	.091	.429	-.107
10	924	.296	.089	.063	-.805	10	1048	.285	.154	.842	-.085	10	1098	-.087	.079	.205	-.410
10	925	.222	.046	.031	-.469	10	1049	.335	.147	.897	-.015	10	1099	-.290	.098	.016	-.712
10	926	.204	.033	.075	-.387	10	1050	.326	.132	.768	-.099	10	1100	-.420	.114	.152	-.948
10	1001	.004	.205	.686	-.892	10	1051	.267	.128	.718	-.133	10	1101	-.488	.117	.123	-1.233
10	1002	.084	.170	.557	-.916	10	1052	.168	.119	.591	-.343	10	1102	-.457	.102	.179	-1.059
10	1003	.051	.161	.597	-.954	10	1053	.031	.125	.453	-.713	10	1103	-.291	.072	.055	-.681
10	1004	.064	.136	.540	-.488	10	1054	.330	.126	.062	-.741	10	1104	-.180	.041	-.032	-.384
10	1005	.062	.116	.338	-.392	10	1055	.587	.154	-.113	-1.099	10	1105	-.168	.041	.021	-.416
10	1006	.023	.098	.410	-.580	10	1056	.741	.164	-.260	-1.357	10	1106	-.184	.123	.193	-.859
10	1007	.015	.102	.407	-.476	10	1057	.705	.152	.245	-1.368	10	1107	.076	.087	.557	-.180
10	1008	.138	.098	.210	-.560	10	1058	.517	.143	.108	-1.068	10	1108	-.253	.117	.774	-.004
10	1009	.294	.100	.103	-.769	10	1059	-.245	.072	.025	-.552	10	1109	-.289	.131	.879	-.020
10	1010	.431	.099	.094	-.777	10	1060	-.207	.057	.072	-.479	10	1110	.283	.114	.707	-.025
10	1011	.522	.132	.094	-1.437	10	1061	-.144	.150	.491	-.660	10	1111	-.272	.121	.755	-.001
10	1012	.526	.176	.029	-1.765	10	1062	.119	.106	.555	-.219	10	1112	.292	.127	.838	-.004
10	1013	.439	.176	.029	-1.418	10	1063	.223	.130	.860	-.092	10	1113	.147	.130	.627	-.532
10	1014	.296	.127	.047	-.041	10	1064	.277	.140	.870	-.078	10	1114	.139	.095	.488	-.123
10	1015	.251	.115	.061	-.785	10	1065	.264	.139	.819	-.100	10	1115	-.033	.101	.411	-.406
10	1016	.003	.212	.609	-.083	10	1066	.220	.120	.625	-.158	10	1116	-.214	.108	.205	-.657
10	1017	.291	.205	.920	-.348	10	1067	.132	.119	.533	-.245	10	1117	-.362	.117	.116	-.875
10	1018	.362	.192	.989	-.283	10	1068	-.077	.115	.323	-.527	10	1118	-.450	.107	.093	-.901
10	1019	.370	.188	.992	-.209	10	1069	-.349	.133	.114	-.809	10	1119	-.447	.103	.119	-.903

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	1120	.280	.064	.060	.325	10	2043	.787	.237	.405	.209	10	2095	.204	.039	.034	.436
10	1121	.172	.043	.020	.366	10	2046	.181	.047	.019	.393	10	2096	.244	.072	.027	.807
10	1122	.166	.036	.014	.319	10	2047	.180	.044	.034	.366	10	2097	.219	.060	.052	.537
10	1123	.198	.032	.092	.384	10	2048	.194	.034	.069	.328	10	2098	.244	.052	.073	.551
10	1124	.208	.036	.106	.387	10	2049	.222	.043	.033	.325	10	2099	.244	.052	.073	.551
10	1125	.188	.026	.098	.287	10	2050	.262	.061	.081	.965	10	2100	.324	.074	.039	.695
10	2000	.219	.094	.157	.634	10	2051	.277	.071	.082	.734	10	2101	.325	.104	.160	.133
10	2001	.188	.079	.121	.523	10	2052	.285	.072	.093	.859	10	2102	.313	.178	.211	.135
10	2002	.198	.084	.120	.648	10	2053	.292	.085	.040	.804	10	2103	.451	.294	.218	.923
10	2003	.241	.087	.018	.593	10	2054	.340	.105	.054	.871	10	2104	.333	.269	.239	.976
10	2004	.274	.098	.027	.841	10	2055	.432	.123	.064	1.426	10	2105	.510	.257	.244	.623
10	2005	.268	.102	.001	.034	10	2056	.510	.123	.121	1.050	10	2106	.192	.034	.081	.336
10	2006	.268	.105	.059	.030	10	2057	.516	.206	.053	.508	10	2107	.022	.079	.390	.272
10	2007	.304	.109	.030	.217	10	2058	.580	.344	.321	.857	10	2108	.190	.029	.087	.306
10	2008	.413	.189	.037	.644	10	2059	.749	.323	.267	1.142	10	2109	.261	.076	.040	.698
10	2009	.485	.208	.006	.050	10	2060	.761	.243	.149	.990	10	2110	.177	.049	.015	.542
10	2010	.507	.155	.016	.385	10	2061	.167	.044	.012	.392	10	2111	.128	.037	.085	.308
10	2011	.512	.134	.151	.261	10	2062	.165	.038	.045	.307	10	2112	.126	.030	.048	.277
10	2012	.530	.267	.070	.920	10	2063	.180	.036	.052	.320	10	2113	.174	.030	.048	.318
10	2013	.817	.334	.264	.349	10	2064	.211	.041	.072	.382	10	2114	.173	.029	.058	.308
10	2014	.907	.323	.143	.901	10	2065	.259	.063	.104	.650	10	2115	.193	.033	.092	.357
10	2015	.966	.071	.028	.545	10	2066	.292	.080	.090	.914	10	2116	.221	.045	.063	.392
10	2016	.966	.071	.028	.545	10	2067	.308	.089	.101	1.113	10	2117	.202	.041	.084	.386
10	2017	.928	.068	.024	.571	10	2068	.318	.078	.130	.751	10	2118	.191	.043	.051	.462
10	2018	.918	.058	.001	.471	10	2069	.371	.110	.059	.996	10	2119	.249	.057	.069	.693
10	2019	.216	.058	.016	.532	10	2070	.450	.131	.078	.993	10	2120	.272	.060	.018	.692
10	2020	.246	.057	.056	.542	10	2071	.506	.146	.013	1.229	10	2121	.294	.088	.050	.031
10	2021	.259	.073	.006	.726	10	2072	.493	.215	.039	1.623	10	2122	.344	.135	.374	.181
10	2022	.265	.089	.018	.350	10	2073	.563	.374	.377	2.004	10	2123	.334	.291	.270	.869
10	2023	.327	.101	.027	.164	10	2074	.700	.360	.383	2.249	10	2124	.463	.266	.226	.186
10	2024	.426	.127	.062	.035	10	2075	.700	.314	.456	2.216	10	2125	.497	.286	.222	.455
10	2025	.426	.127	.062	.035	10	2076	.159	.035	.010	.323	10	2126	.047	.083	.412	.220
10	2026	.533	.148	.036	.110	10	2077	.157	.035	.023	.291	10	2127	.072	.070	.261	.345
10	2027	.533	.148	.036	.110	10	2078	.161	.030	.064	.315	20	801	.123	.103	.716	.139
10	2028	.616	.280	.074	.806	10	2079	.183	.040	.003	.334	20	802	.144	.100	.656	.077
10	2029	.928	.362	.185	.414	10	2080	.217	.046	.034	.457	20	803	.134	.089	.574	.089
10	2030	.896	.309	.060	.269	10	2081	.254	.059	.061	.643	20	804	.371	.091	.104	.802
10	2031	.190	.051	.013	.457	10	2082	.275	.066	.078	.824	20	805	.206	.035	.090	.332
10	2032	.197	.040	.069	.417	10	2083	.323	.085	.087	.924	20	806	.208	.042	.053	.449
10	2033	.194	.040	.061	.383	10	2084	.382	.090	.104	.798	20	807	.183	.033	.066	.361
10	2034	.214	.040	.062	.444	10	2085	.416	.100	.104	.889	20	901	.833	.219	.152	.174
10	2035	.242	.052	.038	.512	10	2086	.411	.111	.065	1.193	20	902	.529	.129	.103	.635
10	2036	.256	.060	.041	.577	10	2087	.388	.189	.089	1.474	20	903	.447	.122	.083	.126
10	2037	.256	.076	.004	.705	10	2088	.453	.304	.192	1.731	20	905	.117	.133	.348	.818
10	2038	.279	.088	.051	.981	10	2089	.572	.345	.417	2.718	20	906	.086	.133	.396	.574
10	2039	.313	.104	.045	.829	10	2090	.571	.306	.524	0.029	20	907	.160	.107	.296	.649
10	2040	.413	.115	.018	.932	10	2091	.141	.036	.001	.283	20	908	.142	.127	.315	.683
10	2041	.513	.146	.000	1.171	10	2092	.147	.029	.036	.269	20	909	.181	.070	.121	.569
10	2042	.565	.203	.096	.573	10	2093	.157	.031	.033	.314	20	910	.673	.247	.177	.546
10	2043	.669	.340	.177	.865	10	2094	.180	.030	.047	.312	20	911	.501	.161	.162	.073
10	2044	.789	.272	.211	.202	10											

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	912	.317	.165	.186	-1.253	20	1037	.055	.153	.600	-.503	20	1087	-.433	.130	.115	-.942
20	913	.284	.157	.336	-1.045	20	1038	-.134	.140	.370	-.772	20	1088	-.260	.095	.003	-.694
20	914	.312	.121	.210	-1.863	20	1039	-.376	.145	.059	-1.082	20	1089	-.168	.049	.063	-.435
20	915	.464	.139	.025	-1.151	20	1040	-.534	.152	.184	-1.192	20	1090	-.158	.039	.050	-.366
20	916	.395	.160	.114	-1.278	20	1041	-.596	.161	-.184	-1.142	20	1091	.033	.130	.605	-.506
20	917	.392	.161	.051	-1.054	20	1042	-.471	.143	.057	-.963	20	1092	.102	.085	.523	-.265
20	918	.804	.198	.214	-1.861	20	1043	-.263	.124	.098	-.837	20	1093	.142	.080	.574	-.149
20	919	.074	.120	.348	-.722	20	1044	-.146	.082	.183	-.442	20	1094	.149	.080	.557	-.104
20	921	.231	.072	.034	-1.777	20	1045	-.118	.078	.170	-.456	20	1095	.133	.091	.530	-.162
20	922	.196	.046	.047	-.445	20	1046	.116	.180	.667	-.516	20	1096	-.046	.102	.451	-.295
20	923	.203	.049	.062	-.474	20	1047	.202	.145	.685	-.273	20	1097	-.048	.100	.333	-.408
20	924	.244	.072	.053	-.710	20	1048	.205	.118	.676	-.140	20	1098	-.218	.107	.097	-.711
20	925	.212	.044	.014	-.410	20	1049	.188	.120	.689	-.069	20	1099	-.352	.111	.034	-.921
20	926	.191	.036	.033	-.403	20	1050	.154	.110	.572	-.084	20	1100	-.405	.098	.060	-.941
20	1001	.159	.226	.897	-.683	20	1051	.085	.127	.585	-.202	20	1101	-.384	.088	.045	-.737
20	1002	.129	.179	.651	-.496	20	1052	-.013	.148	.482	-.512	20	1102	-.306	.085	.039	-.677
20	1003	.027	.170	.544	-.561	20	1053	.187	.165	.537	-.852	20	1103	-.213	.061	.068	-.487
20	1004	.019	.161	.510	-.601	20	1054	-.395	.143	.089	-1.035	20	1104	-.160	.047	.048	-.402
20	1005	.010	.155	.597	-.492	20	1055	-.562	.160	.018	-1.253	20	1105	-.149	.043	.018	-.384
20	1006	.007	.130	.471	-.511	20	1056	-.607	.167	-.154	-1.224	20	1106	.025	.106	.437	-.364
20	1007	.052	.137	.534	-.659	20	1057	-.462	.152	.024	-1.071	20	1107	.116	.099	.667	-.178
20	1008	.170	.119	.335	-.867	20	1058	-.246	.106	.064	-.768	20	1108	.170	.099	.684	-.085
20	1009	.294	.109	.152	-.924	20	1059	-.156	.076	.166	-.615	20	1109	.161	.099	.683	-.045
20	1010	.379	.106	.073	-.853	20	1060	-.136	.071	.155	-.535	20	1110	.134	.091	.646	-.046
20	1011	.439	.150	.067	-.810	20	1061	-.096	.184	.720	-.565	20	1111	.147	.095	.702	-.059
20	1012	.419	.181	.024	-.429	20	1062	.176	.114	.781	-.239	20	1112	.179	.107	.733	-.064
20	1013	.305	.154	.098	-.984	20	1063	.164	.099	.717	-.179	20	1113	-.055	.186	.538	-.945
20	1014	.210	.120	.080	-.838	20	1064	.138	.090	.501	-.315	20	1114	-.008	.106	.499	-.389
20	1015	.183	.110	.116	-.739	20	1065	.118	.104	.700	-.120	20	1115	-.144	.128	.400	-.632
20	1016	.208	.232	.932	-.613	20	1066	.074	.106	.559	-.201	20	1116	-.264	.119	.162	-.769
20	1017	.336	.222	.996	-.273	20	1067	-.027	.136	.534	-.558	20	1117	-.348	.095	.007	-.841
20	1018	.319	.187	.876	-.197	20	1068	-.209	.158	.282	-1.003	20	1118	-.352	.078	.067	-.794
20	1019	.271	.186	.866	-.229	20	1069	-.404	.147	.041	-1.013	20	1119	-.286	.085	.018	-.627
20	1020	.244	.182	.847	-.375	20	1070	-.518	.132	-.176	-1.006	20	1120	-.193	.062	.085	-.468
20	1021	.187	.176	.860	-.420	20	1071	-.574	.146	-.243	-1.208	20	1121	-.154	.046	.022	-.420
20	1022	.116	.151	.608	-.433	20	1072	-.471	.142	-.069	-1.067	20	1122	-.153	.039	.005	-.352
20	1023	.096	.149	.518	-.798	20	1073	-.271	.111	-.029	-.839	20	1123	-.182	.035	.075	-.367
20	1024	.320	.133	.146	-.917	20	1074	-.155	.057	.093	-.408	20	1124	-.196	.034	.103	-.352
20	1025	.473	.132	.022	-.037	20	1075	.151	.059	.093	-.510	20	1125	-.182	.029	.088	-.317
20	1026	.517	.137	-.098	-1.096	20	1076	.077	.153	.616	-.458	20	2001	-.151	.089	.190	-.639
20	1027	.447	.147	.055	-1.011	20	1077	.127	.107	.620	-.235	20	2002	-.121	.080	.195	-.610
20	1028	.265	.114	.160	-.800	20	1078	.132	.080	.605	-.140	20	2003	-.133	.079	.175	-.496
20	1029	.175	.108	.150	-.968	20	1079	.112	.081	.497	-.171	20	2004	-.196	.077	.030	-.748
20	1030	.143	.087	.118	-.626	20	1080	.084	.082	.442	-.181	20	2005	-.264	.104	.032	-.163
20	1031	.147	.228	.873	-.554	20	1081	-.022	.089	.588	-.230	20	2006	-.298	.109	.015	-.958
20	1032	.275	.198	.937	-.246	20	1082	-.069	.100	.407	-.366	20	2007	-.369	.169	.015	-.1389
20	1033	.285	.166	.052	-.167	20	1083	-.239	.139	.348	-.816	20	2008	-.659	.303	-.111	-1.937
20	1034	.253	.130	.856	-.084	20	1084	.381	.128	.085	-1.090	20	2009	-.948	.440	-.096	-2.678
20	1035	.211	.144	.845	-.140	20	1085	.496	.129	.138	-1.094	20	2010	-.679	.228	-.083	-1.979
20	1036	.153	.147	.711	-.251	20	1086	.524	.118	.251	-.992	20	2011	-.578	.125	-.284	-1.445

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	2012	.483	.090	.244	.782	20	2062	.139	.054	.075	.433	20	2112	.118	.029	.030	.241
20	2013	.305	.096	.043	.114	20	2063	.149	.048	.089	.595	20	2113	.178	.031	.070	.305
20	2014	.333	.328	.290	.033	20	2064	.167	.052	.004	.508	20	2114	.171	.032	.072	.338
20	2015	.546	.314	.446	.306	20	2065	.210	.061	.027	.596	20	2115	.178	.034	.035	.326
20	2016	.162	.077	.092	.693	20	2066	.275	.070	.019	.708	20	2116	.211	.043	.081	.418
20	2017	.150	.065	.060	.760	20	2067	.342	.079	.038	.873	20	2117	.187	.037	.058	.352
20	2018	.148	.057	.071	.612	20	2068	.482	.116	.162	.990	20	2118	.193	.038	.075	.333
20	2019	.198	.064	.018	.620	20	2069	.681	.156	.244	.302	20	2119	.286	.055	.114	.513
20	2020	.253	.071	.004	.789	20	2070	.753	.162	.313	.359	20	2120	.308	.054	.119	.491
20	2021	.300	.101	.031	.795	20	2071	.654	.151	.194	.278	20	2121	.302	.085	.089	.538
20	2022	.335	.135	.008	.086	20	2072	.444	.117	.093	.940	20	2122	.161	.106	.372	.480
20	2023	.416	.158	.025	.949	20	2073	.199	.166	.183	.245	20	2123	.051	.161	.641	.390
20	2024	.575	.160	.106	.075	20	2074	.170	.327	.539	.185	20	2124	.059	.191	.461	.459
20	2025	.693	.167	.166	.254	20	2075	.224	.332	.592	.744	20	2125	.092	.240	.506	.724
20	2026	.698	.163	.242	.188	20	2076	.149	.039	.008	.353	20	2126	.041	.070	.379	.147
20	2027	.565	.144	.102	.010	20	2077	.148	.041	.012	.480	20	2127	.021	.086	.488	.247
20	2028	.294	.118	.050	.137	20	2078	.147	.038	.015	.552	30	801	.090	.089	.549	.116
20	2029	.405	.380	.476	.624	20	2079	.164	.051	.003	.446	30	802	.125	.083	.488	.049
20	2030	.520	.314	.563	.443	20	2080	.184	.055	.003	.438	30	803	.122	.088	.471	.064
20	2031	.112	.079	.219	.729	20	2081	.251	.059	.016	.613	30	804	.391	.091	.072	.743
20	2032	.114	.058	.089	.379	20	2082	.320	.070	.016	.612	30	805	.212	.038	.083	.374
20	2033	.143	.057	.088	.463	20	2083	.453	.115	.126	.894	30	806	.215	.045	.051	.427
20	2034	.198	.060	.063	.543	20	2084	.550	.125	.145	.684	30	807	.185	.036	.045	.332
20	2035	.260	.078	.008	.724	20	2085	.568	.131	.123	.112	30	901	1.001	.200	.353	.824
20	2036	.363	.081	.025	.721	20	2086	.496	.119	.136	.952	30	902	.566	.106	.250	.994
20	2037	.324	.095	.098	.696	20	2087	.343	.114	.022	.508	30	903	.431	.102	.127	.965
20	2038	.398	.142	.054	.000	20	2088	.143	.146	.270	.174	30	905	.089	.126	.273	.692
20	2039	.615	.193	.115	.422	20	2089	.109	.267	.668	.525	30	906	.072	.123	.433	.598
20	2040	.779	.189	.303	.464	20	2090	.138	.296	.667	.709	30	907	.133	.085	.207	.480
20	2041	.778	.201	.266	.409	20	2091	.145	.038	.031	.310	30	908	.071	.086	.289	.421
20	2042	.572	.163	.047	.187	20	2092	.146	.031	.001	.263	30	909	.207	.075	.003	.605
20	2043	.291	.180	.277	.364	20	2093	.154	.032	.021	.316	30	910	.958	.232	.104	.691
20	2044	.332	.340	.414	.407	20	2094	.176	.033	.062	.337	30	911	.418	.137	.034	.986
20	2045	.422	.365	.614	.499	20	2095	.191	.045	.050	.425	30	912	.539	.125	.110	.297
20	2046	.122	.078	.288	.516	20	2096	.211	.061	.025	.582	30	913	.263	.134	.351	.736
20	2047	.120	.064	.131	.650	20	2097	.194	.067	.062	.765	30	914	.293	.121	.177	.813
20	2048	.140	.052	.072	.544	20	2098	.274	.061	.062	.564	30	915	.495	.126	.032	.022
20	2049	.181	.058	.041	.579	20	2099	.353	.080	.131	.701	30	916	.403	.141	.065	.051
20	2050	.250	.076	.005	.651	20	2100	.365	.075	.145	.709	30	917	.356	.142	.015	.987
20	2051	.316	.092	.034	.803	20	2101	.318	.092	.034	.644	30	918	.999	.211	.471	.837
20	2052	.348	.087	.098	.754	20	2102	.202	.118	.319	.761	30	919	.057	.110	.319	.604
20	2053	.459	.145	.111	.067	20	2103	.103	.139	.548	.963	30	921	.210	.058	.037	.743
20	2054	.687	.196	.172	.282	20	2104	.106	.203	.535	.551	30	922	.188	.046	.035	.450
20	2055	.798	.198	.233	.510	20	2105	.114	.228	.626	.556	30	923	.188	.045	.044	.495
20	2056	.757	.173	.282	.391	20	2106	.176	.033	.062	.335	30	924	.237	.063	.059	.798
20	2057	.528	.150	.007	.178	20	2107	.018	.085	.413	.375	30	925	.203	.042	.027	.395
20	2058	.243	.175	.192	.385	20	2108	.168	.030	.067	.331	30	926	.182	.038	.056	.353
20	2059	.259	.363	.536	.876	20	2109	.302	.103	.063	.869	30	1001	.240	.156	.666	.403
20	2060	.335	.339	.535	.570	20	2110	.152	.047	.016	.533	30	1002	.125	.122	.473	.341
20	2061	.143	.060	.191	.415	20	2111	.123	.033	.054	.268	30	1003	.022	.114	.453	.456

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
00	1004	.017	.100	.469	-.480	30	1054	-.600	.166	-.145	-1.164	30	1104	-.169	.058	.020	-.559
00	1005	-.017	.099	.372	-.486	30	1055	-.661	.166	-.263	-1.234	30	1105	-.165	.056	.038	-.465
00	1006	-.040	.087	.318	-.408	30	1056	-.578	.158	-.155	-1.137	30	1106	-.059	.081	.326	-.352
00	1007	-.120	.098	.326	-.580	30	1057	-.354	.159	-.193	-1.158	30	1107	-.123	.100	.638	-.404
00	1008	-.270	.101	-.128	-.928	30	1058	-.170	.091	-.177	-1.599	30	1108	-.167	.101	.637	-.176
00	1009	-.385	.118	-.031	-.956	30	1059	-.144	.092	-.260	-.587	30	1109	-.162	.093	.587	-.057
00	1010	-.424	.140	-.075	-1.360	30	1060	-.132	.089	-.196	-.529	30	1110	-.107	.070	.426	-.058
00	1011	-.446	.192	-.004	-1.512	30	1061	-.242	.142	-.787	-.248	30	1111	-.135	.080	.496	-.078
00	1012	-.341	.166	-.214	-1.183	30	1062	-.283	.115	-.748	-.063	30	1112	-.189	.108	.712	-.128
00	1013	-.229	.137	-.202	-1.189	30	1063	-.233	.107	-.734	-.033	30	1113	-.263	.140	.207	-1.038
00	1014	-.166	.110	-.114	-.991	30	1064	-.159	.086	-.504	-.060	30	1114	-.146	.065	.095	-.468
00	1015	-.147	.101	-.172	-.797	30	1065	-.078	.076	-.404	-.129	30	1115	-.310	.094	-.006	-.789
00	1016	-.378	.161	.887	-.603	30	1066	-.016	.065	-.246	-.129	30	1116	-.410	.105	.121	-.872
00	1017	-.402	.163	1.002	-.156	30	1067	-.194	.102	-.335	-.599	30	1117	-.415	.108	.089	-.952
00	1018	-.335	.133	.761	-.057	30	1068	-.450	.164	-.263	-1.123	30	1118	-.328	.092	.093	-.748
00	1019	-.243	.125	.688	-.152	30	1069	-.622	.172	-.127	-1.243	30	1119	-.218	.069	.044	-.545
00	1020	-.177	.116	.602	-.181	30	1070	-.627	.144	-.291	-1.216	30	1120	-.178	.062	.119	-.651
00	1021	-.121	.115	.536	-.322	30	1071	-.563	.138	-.212	-1.280	30	1121	-.159	.059	.041	-.683
00	1022	-.092	.104	.359	-.518	30	1072	-.330	.126	-.024	-.988	30	1122	-.163	.055	.030	-.673
00	1023	-.022	.133	.138	-.999	30	1073	-.193	.088	-.077	-.580	30	1123	-.174	.036	.068	-.436
00	1024	-.492	.146	-.020	-1.091	30	1074	-.144	.066	-.102	-.507	30	1124	-.185	.032	.038	-.327
00	1025	-.576	.147	.134	-1.156	30	1075	-.151	.071	-.092	-.488	30	1125	-.175	.027	.070	-.273
00	1026	-.508	.131	.143	-1.029	30	1076	-.158	.126	-.681	-.329	30	2001	-.105	.083	.177	-.688
00	1027	-.347	.130	.069	-.997	30	1077	-.179	.117	-.733	-.399	30	2002	-.085	.074	.166	-.428
00	1028	-.196	.120	.198	-.889	30	1078	-.159	.091	-.547	-.135	30	2003	-.106	.076	.129	-.553
00	1029	-.149	.113	.254	-.934	30	1079	-.110	.082	-.454	-.109	30	2004	-.165	.067	.025	-.540
00	1030	-.115	.085	.129	-.460	30	1080	-.045	.067	-.347	-.242	30	2005	-.237	.095	.034	-.826
00	1031	-.338	.163	.874	-.185	30	1081	-.053	.062	-.330	-.258	30	2006	-.429	.194	.041	-1.341
00	1032	-.386	.159	.855	-.037	30	1082	-.215	.083	-.144	-.536	30	2007	-.755	.330	.050	-2.154
00	1033	-.334	.134	.818	-.044	30	1083	-.464	.153	-.114	-1.091	30	2008	-.239	.332	.062	-2.062
00	1034	-.234	.106	.707	-.109	30	1084	-.588	.168	-.091	-1.254	30	2009	-.941	.431	.322	-2.929
00	1035	-.158	.106	.662	-.120	30	1085	-.564	.144	-.187	-1.145	30	2010	-.701	.143	-.130	-1.350
00	1036	-.044	.106	.639	-.269	30	1086	-.478	.121	-.131	-1.108	30	2011	-.610	.100	-.337	-.952
00	1037	-.116	.119	.471	-.566	30	1087	-.282	.099	-.013	-.800	30	2012	-.481	.074	-.196	-.748
00	1038	-.332	.129	-.129	-1.031	30	1088	-.185	.069	-.043	-.482	30	2013	-.251	.075	.126	-.594
00	1039	-.608	.169	-.060	-1.337	30	1089	-.163	.064	-.107	-.481	30	2014	-.050	.142	.309	-1.221
00	1040	-.661	.163	-.162	-1.385	30	1090	-.159	.050	-.044	-.412	30	2015	-.288	.301	.450	-1.343
00	1041	-.597	.155	-.064	-1.147	30	1091	-.076	.111	-.440	-.392	30	2016	-.131	.079	.130	-.738
00	1042	-.357	.153	.107	-.964	30	1092	-.124	.099	-.484	-.366	30	2017	-.117	.065	.161	-.406
00	1043	-.176	.107	.154	-.615	30	1093	-.147	.084	-.525	-.160	30	2018	-.132	.063	.107	-.559
00	1044	-.109	.099	.274	-.814	30	1094	-.126	.073	-.461	-.037	30	2019	-.192	.072	.052	-.569
00	1045	-.099	.099	.249	-.533	30	1095	-.097	.073	-.470	-.078	30	2020	-.280	.089	.099	-.773
00	1046	-.148	.083	.883	-.102	30	1096	-.048	.068	-.225	-.362	30	2021	-.370	.119	-.001	-.910
00	1047	-.322	.140	.883	-.047	30	1097	-.161	.079	-.195	-.458	30	2022	-.505	.162	-.074	-1.275
00	1048	-.317	.119	.755	-.076	30	1098	-.360	.109	-.009	-.794	30	2023	-.647	.173	-.146	-1.232
00	1049	-.225	.104	.626	-.069	30	1099	-.454	.125	-.156	-1.000	30	2024	-.812	.164	-.331	-1.351
00	1050	-.138	.078	.489	-.100	30	1100	-.427	.109	-.178	-.863	30	2025	-.859	.172	-.399	-1.400
00	1051	-.002	.082	.414	-.270	30	1101	-.313	.091	-.009	-.663	30	2026	-.793	.161	-.366	-1.256
00	1052	-.181	.111	.302	-.566	30	1102	-.222	.061	-.035	-.545	30	2027	-.568	.124	-.219	-.1009
00	1053	-.443	.164	.182	-1.032	30	1103	-.191	.061	-.023	-.559	30	2028	-.187	.080	.154	-.422

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
00	2079	.155	.054	.069	.459	40	802	.068	.070	.367	.081	40	802	.068	.070	.367	.081
00	2080	.175	.057	.039	.588	40	803	.059	.069	.347	.085	40	803	.059	.069	.347	.085
00	2081	.251	.056	.055	.666	40	804	.375	.088	.154	.775	40	804	.375	.088	.154	.775
00	2082	.333	.065	.101	.680	40	805	.192	.036	.081	.325	40	805	.192	.036	.081	.325
00	2083	.493	.100	.153	.947	40	806	.199	.044	.078	.403	40	806	.199	.044	.078	.403
00	2084	.595	.108	.247	1.065	40	807	.164	.032	.059	.307	40	807	.164	.032	.059	.307
00	2085	.612	.115	.247	1.048	40	901	-1.193	.254	.264	-1.878	40	901	-1.193	.254	.264	-1.878
00	2086	.522	.114	.195	.986	40	902	.326	.101	.158	.921	40	902	.326	.101	.158	.921
00	2087	.333	.114	.155	.838	40	903	.353	.072	.118	.715	40	903	.353	.072	.118	.715
00	2088	.061	.094	.327	.443	40	905	.061	.160	.377	.467	40	905	.061	.160	.377	.467
00	2089	.002	.174	.509	.935	40	906	.063	.086	.317	.361	40	906	.063	.086	.317	.361
00	2090	.024	.224	.594	.986	40	907	.045	.074	.212	.329	40	907	.045	.074	.212	.329
00	2091	.149	.045	.001	.340	40	908	.075	.074	.183	.358	40	908	.075	.074	.183	.358
00	2092	.141	.032	.037	.289	40	909	.268	.098	.027	.985	40	909	.268	.098	.027	.985
00	2093	.151	.031	.043	.292	40	910	-1.174	.250	.250	-2.107	40	910	-1.174	.250	.250	-2.107
00	2094	.171	.032	.062	.446	40	911	.218	.066	.053	.607	40	911	.218	.066	.053	.607
00	2095	.184	.044	.055	.508	40	912	.540	.125	.079	.992	40	912	.540	.125	.079	.992
00	2096	.198	.054	.041	.529	40	913	.209	.101	.169	.694	40	913	.209	.101	.169	.694
00	2097	.175	.065	.015	.635	40	914	.209	.087	.196	.753	40	914	.209	.087	.196	.753
00	2098	.284	.059	.089	.504	40	915	.330	.151	.020	1.105	40	915	.330	.151	.020	1.105
00	2099	.380	.076	.177	.753	40	916	.361	.130	.021	.908	40	916	.361	.130	.021	.908
00	2100	.383	.075	.186	.764	40	917	.249	.075	.010	.783	40	917	.249	.075	.010	.783
00	2101	.317	.100	.041	.803	40	918	-1.213	.255	.548	-2.173	40	918	-1.213	.255	.548	-2.173
00	2102	.156	.128	.278	.728	40	919	.029	.080	.275	.317	40	919	.029	.080	.275	.317
00	2103	.010	.114	.618	.424	40	921	.192	.055	.012	.491	40	921	.192	.055	.012	.491
00	2104	.024	.139	.467	.643	40	922	.172	.042	.040	.394	40	922	.172	.042	.040	.394
00	2105	.013	.176	.475	.328	40	923	.169	.040	.044	.374	40	923	.169	.040	.044	.374
00	2106	.175	.038	.069	.359	40	924	.217	.055	.056	.592	40	924	.217	.055	.056	.592
00	2107	.054	.089	.445	.212	40	925	.183	.038	.041	.386	40	925	.183	.038	.041	.386
00	2108	.168	.032	.053	.368	40	926	.169	.033	.073	.352	40	926	.169	.033	.073	.352
00	2109	.341	.112	.046	.882	40	1001	.192	.145	.651	.664	40	1001	.192	.145	.651	.664
00	2110	.142	.049	.066	.368	40	1002	.025	.106	.354	.365	40	1002	.025	.106	.354	.365
00	2111	.115	.031	.028	.231	40	1003	.116	.101	.246	.461	40	1003	.116	.101	.246	.461
00	2112	.110	.028	.023	.208	40	1004	.080	.082	.224	.316	40	1004	.080	.082	.224	.316
00	2113	.175	.029	.071	.289	40	1005	.088	.074	.207	.410	40	1005	.088	.074	.207	.410
00	2114	.164	.029	.068	.266	40	1006	.094	.060	.152	.383	40	1006	.094	.060	.152	.383
00	2115	.176	.036	.059	.353	40	1007	.182	.066	.115	.507	40	1007	.182	.066	.115	.507
00	2116	.219	.047	.072	.475	40	1008	.313	.079	.041	.669	40	1008	.313	.079	.041	.669
00	2117	.183	.037	.061	.361	40	1009	.401	.122	.065	.967	40	1009	.401	.122	.065	.967
00	2118	.196	.036	.056	.341	40	1010	.435	.177	.066	.345	40	1010	.435	.177	.066	.345
00	2119	.304	.050	.153	.485	40	1011	.399	.210	.059	1.467	40	1011	.399	.210	.059	1.467
00	2120	.325	.048	.158	.523	40	1012	.266	.155	.193	.011	40	1012	.266	.155	.193	.011
00	2121	.285	.094	.167	.557	40	1013	.184	.118	.187	.967	40	1013	.184	.118	.187	.967
00	2122	.103	.133	.422	.386	40	1014	.143	.107	.134	.959	40	1014	.143	.107	.134	.959
00	2123	.003	.132	.700	.492	40	1015	.127	.088	.126	.519	40	1015	.127	.088	.126	.519
00	2124	.015	.146	.529	.759	40	1016	.417	.173	.958	.655	40	1016	.417	.173	.958	.655
00	2125	.027	.198	.490	1.265	40	1017	.343	.149	.801	.249	40	1017	.343	.149	.801	.249
00	2126	.041	.064	.336	1.139	40	1018	.259	.112	.599	.087	40	1018	.259	.112	.599	.087
00	2127	.003	.090	.351	.267	40	1019	.166	.100	.524	.148	40	1019	.166	.100	.524	.148
00	801	.041	.079	.364	.153	40	1020	.103	.087	.479	.185	40	1020	.103	.087	.479	.185

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	MD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	1021	.022	.078	.310	-.228	40	1071	-.373	.136	.023	-.924	40	1121	-.144	.046	-.009	-.496
40	1022	-.112	.071	.181	-.347	40	1072	-.186	.083	.066	-.581	40	1122	-.156	.049	-.035	-.377
40	1023	-.403	.105	.025	-.809	40	1073	-.149	.072	.059	-.650	40	1123	-.158	.033	-.061	-.341
40	1024	-.539	.114	-.160	-.943	40	1074	-.121	.054	.037	-.491	40	1124	-.171	.033	-.071	-.321
40	1025	-.541	.125	-.181	-.969	40	1075	-.138	.062	.048	-.542	40	1125	-.165	.028	-.068	-.295
40	1026	-.393	.121	-.062	-.896	40	1076	-.113	.149	.807	-.560	40	2001	-.096	.063	.101	-.498
40	1027	-.241	.129	.151	-.917	40	1077	-.137	.102	.548	-.467	40	2002	-.079	.055	.123	-.359
40	1028	-.171	.112	.187	-.883	40	1078	-.115	.075	.482	-.125	40	2003	-.089	.060	.163	-.575
40	1029	-.139	.096	.162	-.805	40	1079	-.071	.067	.380	-.103	40	2004	-.138	.057	.044	-.505
40	1030	-.107	.076	.123	-.525	40	1080	-.007	.053	.258	-.156	40	2005	-.260	.114	.022	-.930
40	1031	-.393	.168	.891	-.233	40	1081	-.083	.053	.158	-.279	40	2006	-.581	.237	.062	-.137
40	1032	.370	.146	.830	-.004	40	1082	-.229	.070	.014	-.482	40	2007	-.894	.332	-.089	-.927
40	1033	.288	.123	.685	-.047	40	1083	-.436	.123	.143	-.900	40	2008	-.978	.342	.281	-.236
40	1034	.202	.087	.520	-.033	40	1084	-.497	.128	.214	-.966	40	2009	-.712	.177	.273	-.589
40	1035	.100	.078	.416	-.125	40	1085	-.441	.122	-.073	-.899	40	2010	-.636	.124	.306	-.130
40	1036	-.027	.072	.326	-.230	40	1086	-.293	.102	.009	-.745	40	2011	-.557	.093	.297	-.892
40	1037	.211	.084	.229	-.477	40	1087	-.171	.073	.069	-.925	40	2012	-.388	.073	.143	-.623
40	1038	.478	.142	.102	-.864	40	1088	-.147	.065	.029	-.734	40	2013	-.147	.096	.245	-.461
40	1039	.637	.142	.201	-.096	40	1089	-.141	.051	.097	-.566	40	2014	.054	.121	.488	-.399
40	1040	-.587	.130	.148	-.053	40	1090	-.144	.043	.099	-.360	40	2015	.017	.179	.611	-.944
40	1041	-.442	.159	.052	-.162	40	1091	-.044	.114	.399	-.498	40	2016	-.115	.059	.083	-.517
40	1042	-.196	.091	.132	-.673	40	1092	.072	.102	.434	-.502	40	2017	-.101	.051	.092	-.340
40	1043	-.149	.088	.154	-.599	40	1093	.096	.080	.457	-.277	40	2018	-.113	.052	.071	-.355
40	1044	-.113	.086	.187	-.697	40	1094	.073	.061	.337	-.090	40	2019	-.169	.069	.022	-.584
40	1045	-.103	.091	.236	-.569	40	1095	-.052	.060	.315	-.112	40	2020	-.273	.093	.023	-.702
40	1046	.329	.149	.763	-.305	40	1096	-.095	.052	.118	-.345	40	2021	-.351	.110	.001	-.865
40	1047	.313	.134	.817	-.235	40	1097	-.197	.062	.031	-.478	40	2022	-.491	.149	.060	-.605
40	1048	.252	.111	.663	-.039	40	1098	-.363	.084	-.102	-.732	40	2023	-.688	.176	.197	-.232
40	1049	.164	.085	.512	-.033	40	1099	-.276	.097	-.115	-.886	40	2024	-.817	.174	.402	-.327
40	1050	.083	.061	.325	-.084	40	1100	-.270	.097	-.008	-.631	40	2025	-.831	.178	.379	-.411
40	1051	-.054	.062	.216	-.219	40	1101	-.183	.066	.049	-.535	40	2026	-.715	.151	.296	-.883
40	1052	-.245	.090	.110	-.574	40	1102	-.165	.049	.026	-.445	40	2027	-.444	.111	.009	-.843
40	1053	-.536	.141	-.086	-.963	40	1103	-.146	.044	.006	-.352	40	2028	-.043	.097	.309	-.339
40	1054	-.633	.146	-.237	-.197	40	1104	-.147	.043	-.020	-.345	40	2029	.213	.150	.645	-.932
40	1055	-.596	.143	-.251	-.117	40	1105	-.133	.054	.027	-.412	40	2030	.204	.249	.727	-.666
40	1056	-.422	.162	.045	-.943	40	1106	-.044	.088	.388	-.409	40	2031	-.100	.080	.273	-.526
40	1057	-.186	.098	.142	-.729	40	1107	.089	.166	.559	-.368	40	2032	-.097	.056	.185	-.363
40	1058	-.129	.070	.082	-.543	40	1108	.123	.092	.462	-.214	40	2033	-.124	.055	.099	-.375
40	1059	-.131	.073	.124	-.560	40	1109	.084	.073	.434	-.100	40	2034	-.158	.057	.042	-.403
40	1060	-.130	.077	.207	-.525	40	1110	.037	.055	.325	-.115	40	2035	-.211	.068	.088	-.647
40	1061	.245	.170	.766	-.502	40	1111	.076	.066	.375	-.087	40	2036	-.294	.073	.082	-.614
40	1062	.257	.120	.675	-.262	40	1112	.226	.092	.500	-.109	40	2037	-.402	.108	.081	-.920
40	1063	.199	.103	.561	-.070	40	1113	-.126	.118	.027	-.865	40	2038	-.700	.190	.152	-.310
40	1064	.126	.079	.400	-.022	40	1114	-.173	.048	-.014	-.372	40	2039	-.876	.174	.369	-.660
40	1065	.030	.062	.330	-.333	40	1115	-.286	.068	-.068	-.563	40	2040	-.946	.176	.451	-.507
40	1066	-.061	.053	.197	-.399	40	1116	-.317	.081	-.079	-.682	40	2041	-.812	.170	.409	-.483
40	1067	-.243	.081	.115	-.523	40	1117	-.233	.076	-.016	-.596	40	2042	-.450	.136	.018	-.986
40	1068	-.491	.125	-.976	-.004	40	1118	-.177	.052	.019	-.455	40	2043	-.027	.107	.471	-.329
40	1069	-.586	.137	-.228	-.173	40	1119	-.152	.053	.008	-.424	40	2044	-.177	.148	.652	-.756
40	1070	-.511	.120	-.149	-.003	40	1120	-.141	.046	.013	-.320	40	2045	.172	.234	.817	-.966

APPENDIX A -- PRESSURE DATA:

CONFIGURATION R: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	2046	.132	.069	.131	-.674	40	2096	-.183	.048	-.022	-.516	50	913	-.127	.090	.080	-.517
40	2047	-.124	.066	.132	-.516	40	2097	-.149	.055	-.061	-.493	50	914	-.192	.040	.070	-.349
40	2048	-.127	.055	.099	-.420	40	2098	-.277	.054	-.125	-.490	50	915	-.237	.116	.054	-.924
40	2049	-.150	.057	.017	-.433	40	2099	-.362	.068	-.163	-.603	50	916	-.212	.063	.050	-.662
40	2050	-.202	.064	.005	-.580	40	2100	-.361	.064	-.170	-.604	50	917	-.236	.045	-.075	-.388
40	2051	-.274	.074	-.015	-.720	40	2101	-.281	.078	-.046	-.621	50	918	-1.236	.227	-.528	-2.408
40	2052	-.369	.090	-.115	-.844	40	2102	-.097	.104	-.255	-.469	50	919	-.076	.074	.343	-.193
40	2053	-.657	.179	-.214	-1.353	40	2103	-.072	.112	-.502	-.259	50	920	-.209	.067	-.044	-.672
40	2054	-.834	.177	-.282	-1.591	40	2104	-.116	.103	-.442	-.444	50	921	-.187	.055	-.037	-.521
40	2055	-.858	.180	-.306	-1.431	40	2105	-.121	.121	-.473	-.505	50	922	-.188	.048	-.046	-.454
40	2056	-.722	.149	-.313	-1.238	40	2106	-.156	.034	-.031	-.369	50	923	-.243	.074	-.095	-.697
40	2057	-.407	.135	-.265	-.838	40	2107	-.094	.081	-.510	-.227	50	924	-.197	.047	-.068	-.463
40	2058	-.032	.121	-.699	-.522	40	2108	-.153	.032	-.056	-.303	50	925	-.171	.038	-.063	-.354
40	2059	-.158	.178	-.790	-.612	40	2109	-.352	.107	-.056	-.821	50	926	-.060	.181	.561	-.636
40	2060	-.155	.223	.816	-.616	40	2110	-.117	.047	-.103	-.381	50	1001	-.074	.098	.209	-.404
40	2061	-.140	.054	.063	-.424	40	2111	-.095	.031	-.061	-.184	50	1002	-.186	.090	.114	-.535
40	2062	-.127	.054	.049	-.766	40	2112	-.093	.027	-.047	-.168	50	1003	-.121	.067	.123	-.358
40	2063	-.128	.057	.085	-.453	40	2113	-.158	.028	-.034	-.260	50	1004	-.113	.060	.132	-.344
40	2064	-.136	.057	.075	-.501	40	2114	-.152	.031	-.029	-.254	50	1005	-.113	.047	.059	-.330
40	2065	-.178	.053	.034	-.457	40	2115	-.159	.035	-.042	-.302	50	1006	-.190	.048	.003	-.443
40	2066	-.248	.062	.119	-.551	40	2116	-.213	.046	-.063	-.432	50	1007	-.348	.058	-.097	-.539
40	2067	-.338	.082	-.132	-.774	40	2117	-.161	.036	-.029	-.333	50	1008	-.383	.111	.060	-1.253
40	2068	-.374	.135	-.263	-1.178	40	2118	-.179	.035	-.066	-.350	50	1009	-.307	.152	.048	-1.303
40	2069	-.752	.153	-.279	-1.271	40	2119	-.279	.047	-.137	-.456	50	1010	-.206	.108	.139	-.719
40	2070	-.760	.147	-.309	-.706	40	2120	-.296	.049	-.140	-.492	50	1011	-.139	.078	.088	-.621
40	2071	-.636	.145	-.221	-.106	40	2121	-.233	.082	-.115	-.539	50	1012	-.108	.068	.113	-.563
40	2072	-.339	.113	-.190	-.706	40	2122	-.092	.120	-.450	-.364	50	1013	-.111	.066	.112	-.512
40	2073	-.017	.119	-.453	-.457	40	2123	-.092	.131	-.607	-.208	50	1014	-.227	.216	.915	-.796
40	2074	-.136	.167	-.707	-.633	40	2124	-.126	.112	-.522	-.305	50	1015	-.236	.127	.709	-.505
40	2075	-.152	.203	-.776	-.692	40	2125	-.114	.138	-.561	-.450	50	1016	-.165	.090	.540	-.151
40	2076	-.130	.035	.030	-.327	40	2126	-.051	.060	-.524	-.137	50	1017	-.089	.080	.442	-.159
40	2077	-.128	.036	.017	-.407	40	2127	-.037	.080	-.402	-.193	50	1018	-.032	.070	.341	-.356
40	2078	-.122	.039	.034	-.367	50	801	-.066	.065	-.405	-.174	50	1019	-.051	.057	.211	-.259
40	2079	-.138	.060	.085	-.453	50	802	-.014	.051	-.248	-.153	50	1020	-.187	.058	.102	-.473
40	2080	-.158	.054	.020	-.406	50	803	-.066	.048	-.218	-.124	50	1021	-.448	.100	.108	-.867
40	2081	-.230	.054	-.045	-.491	50	804	-.391	.092	-.160	-.810	50	1022	-.494	.103	.210	-.875
40	2082	-.310	.067	-.036	-.713	50	805	-.194	.041	-.073	-.443	50	1023	-.404	.099	.046	-.831
40	2083	-.458	.095	-.221	-.891	50	806	-.203	.049	-.061	-.441	50	1024	-.240	.087	.019	-.601
40	2084	-.552	.100	-.275	-.945	50	807	-.165	.037	-.056	-.349	50	1025	-.180	.100	.135	-.966
40	2085	-.551	.101	-.281	-.934	50	901	-.165	.365	-.116	-.207	50	1026	-.134	.072	.079	-.581
40	2086	-.433	.096	-.128	-.773	50	902	-.567	.121	-.227	-.083	50	1027	-.112	.060	.097	-.480
40	2087	-.233	.114	-.181	-.799	50	903	-.317	.056	-.138	-.596	50	1028	-.093	.056	.102	-.455
40	2088	-.004	.101	-.414	-.304	50	905	-.109	.117	-.514	-.233	50	1029	-.204	.219	.878	-.649
40	2089	-.096	.137	-.564	-.701	50	906	-.040	.081	-.317	-.249	50	1030	-.236	.142	.732	-.564
40	2090	-.108	.166	-.641	-.701	50	907	-.011	.050	-.175	-.162	50	1031	-.193	.102	.633	-.203
40	2091	-.124	.033	-.025	-.357	50	908	-.075	.060	-.159	-.307	50	1032	-.065	.071	.397	-.066
40	2092	-.116	.024	-.032	-.223	50	909	-.373	.123	-.408	-.125	50	1033	-.020	.061	.282	-.156
40	2093	-.137	.027	-.038	-.224	50	910	-.140	.232	-.408	-.911	50	1034	-.100	.053	.095	-.256
40	2094	-.161	.032	-.055	-.377	50	911	-.163	.036	-.025	-.387	50	1035	-.086	.086	.018	-.699
40	2095	-.171	.042	-.036	-.558	50	912	-.386	.133	-.011	-.921	50	1036	-.090	.080	.080	-.517

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	1038	511	123	207	-1.026	50	1088	128	055	066	924	50	2013	092	119	388	463
50	1039	244	125	244	-1.058	50	1089	137	043	001	393	50	2014	169	138	701	227
50	1040	343	131	065	990	50	1090	149	041	033	367	50	2015	146	146	578	450
50	1041	250	113	072	797	50	1091	129	142	347	719	50	2016	125	054	076	355
50	1042	146	079	093	569	50	1092	018	131	354	633	50	2017	197	058	021	437
50	1043	127	067	098	491	50	1093	039	086	395	412	50	2018	132	058	059	469
50	1044	111	066	079	530	50	1094	016	050	225	244	50	2019	213	072	006	329
50	1045	110	078	182	536	50	1095	069	052	132	326	50	2020	311	075	095	584
50	1046	193	186	751	491	50	1096	129	043	030	506	50	2021	465	093	150	864
50	1047	208	139	667	833	50	1097	214	047	076	506	50	2022	516	112	185	079
50	1048	162	088	491	491	50	1098	312	062	163	962	50	2023	698	154	299	286
50	1049	086	070	349	084	50	1099	303	077	077	856	50	2024	802	147	403	337
50	1050	016	050	211	129	50	1100	146	058	047	587	50	2025	894	160	473	412
50	1051	114	052	100	777	50	1101	136	050	048	426	50	2026	582	126	178	006
50	1052	293	081	030	312	50	1102	142	039	018	386	50	2027	249	107	121	606
50	1053	535	129	216	018	50	1103	209	038	082	372	50	2028	116	118	538	194
50	1054	314	116	236	028	50	1104	125	037	011	365	50	2029	289	174	828	358
50	1055	439	134	050	616	50	1105	135	041	039	332	50	2030	395	179	933	335
50	1056	229	110	123	875	50	1106	025	109	396	586	50	2031	106	066	184	369
50	1057	149	083	130	585	50	1107	069	129	520	539	50	2032	103	046	085	292
50	1058	110	050	050	402	50	1108	049	098	500	539	50	2033	122	046	051	392
50	1059	122	062	105	448	50	1109	023	056	334	140	50	2034	140	047	047	851
50	1060	121	066	151	425	50	1110	026	041	170	141	50	2035	192	054	043	951
50	1061	130	139	730	567	50	1111	044	057	236	250	50	2036	294	068	061	186
50	1062	176	124	372	534	50	1112	082	078	490	135	50	2037	464	128	135	188
50	1063	127	083	476	500	50	1113	320	099	020	818	50	2038	752	169	293	442
50	1064	059	083	357	283	50	1114	192	036	071	348	50	2039	920	162	499	371
50	1065	026	061	357	156	50	1115	318	058	142	649	50	2040	920	152	509	406
50	1066	107	039	037	263	50	1116	177	063	004	570	50	2041	706	137	251	154
50	1067	286	075	094	551	50	1117	144	047	034	370	50	2042	281	119	212	699
50	1068	486	123	224	129	50	1118	145	039	018	336	50	2043	146	128	861	147
50	1069	497	120	230	032	50	1119	216	044	062	403	50	2044	333	143	663	201
50	1070	380	110	070	845	50	1120	118	034	018	297	50	2045	379	167	976	147
50	1071	214	094	066	222	50	1121	126	037	008	365	50	2046	117	061	976	321
50	1072	148	074	072	597	50	1122	145	039	037	348	50	2047	114	055	138	373
50	1073	123	053	030	000	50	1123	163	041	039	369	50	2048	118	043	080	91
50	1074	168	046	064	294	50	1124	169	038	059	349	50	2049	141	047	010	321
50	1075	128	056	087	329	50	1125	163	030	084	278	50	2050	180	054	016	422
50	1076	017	182	612	759	50	20001	180	058	016	525	50	2051	260	066	058	718
50	1077	049	132	505	724	50	20002	084	048	076	362	50	2052	408	103	138	865
50	1078	054	073	345	398	50	20003	095	047	062	306	50	2053	691	163	217	949
50	1079	052	060	200	230	50	20004	184	061	013	485	50	2054	809	166	308	331
50	1080	035	045	175	173	50	20005	467	141	147	125	50	2055	796	167	363	416
50	1081	124	042	062	250	50	20006	638	235	137	498	50	2056	603	127	281	045
50	1082	272	058	069	509	50	20007	876	327	180	374	50	2057	251	121	170	643
50	1083	340	111	279	019	50	20008	733	199	254	908	50	2058	110	123	562	201
50	1084	405	104	161	877	50	20009	862	194	398	927	50	2059	305	157	873	488
50	1085	304	114	010	944	50	20010	596	119	304	091	50	2060	342	159	875	331
50	1086	185	072	054	888	50	20011	472	080	133	745	50	2061	136	057	076	902
50	1087	226	072	042	607	50	2012	271	072	016	514	50	2062	121	061	112	490

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	2063	122	062	060	438
50	2064	133	048	049	358
50	2065	174	049	044	365
50	2066	239	059	016	492
50	2067	356	089	145	935
50	2068	585	137	257	138
50	2069	712	164	271	292
50	2070	675	155	276	155
50	2071	521	132	109	965
50	2072	189	112	284	573
50	2073	122	126	620	254
50	2074	261	137	748	211
50	2075	280	141	834	265
50	2076	126	033	020	372
50	2077	122	041	056	627
50	2078	114	051	083	388
50	2079	135	074	114	502
50	2080	159	052	023	372
50	2081	220	051	046	462
50	2082	307	070	087	621
50	2083	457	109	091	979
50	2084	533	108	205	002
50	2085	509	104	186	973
50	2086	359	096	037	699
50	2087	124	112	344	711
50	2088	102	104	533	176
50	2089	182	115	683	179
50	2090	203	118	693	259
50	2091	114	029	004	250
50	2092	109	024	008	209
50	2093	129	028	002	251
50	2094	158	037	016	325
50	2095	181	051	039	565
50	2096	195	055	023	492
50	2097	132	050	042	399
50	2098	276	054	123	551
50	2099	338	064	156	596
50	2100	323	059	140	596
50	2101	223	070	022	491
50	2102	021	096	324	376
50	2103	121	107	584	196
50	2104	151	085	564	181
50	2105	155	090	601	259
50	2106	159	039	055	349
50	2107	119	079	420	089
50	2108	152	034	013	300
50	2109	377	112	085	783
50	2110	098	044	061	325
50	2111	078	035	131	185
50	2112	075	031	156	164

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	2113	141	029	001	141
50	2114	136	034	010	252
50	2115	161	038	033	331
50	2116	224	052	096	499
50	2117	149	031	024	315
50	2118	164	034	024	306
50	2119	265	051	117	460
50	2120	270	048	131	463
50	2121	193	070	149	428
50	2122	019	108	582	267
50	2123	162	114	629	141
50	2124	182	086	571	060
50	2125	169	091	608	162
50	2126	078	069	429	098
50	2127	065	081	435	154
60	801	046	053	174	306
60	802	032	041	129	193
60	803	063	041	118	196
60	804	448	111	168	962
60	805	210	049	046	437
60	806	213	054	044	491
60	807	166	042	014	354
60	901	834	270	132	197
60	902	520	100	170	937
60	903	282	047	132	520
60	905	144	078	447	110
60	906	069	058	230	116
60	907	013	037	133	142
60	908	060	083	236	504
60	909	434	163	183	201
60	910	928	168	396	612
60	911	153	068	102	534
60	912	169	079	048	574
60	913	046	032	098	273
60	914	167	030	021	274
60	915	163	041	016	369
60	916	179	027	054	289
60	917	200	039	002	337
60	918	954	175	307	579
60	919	101	056	305	696
60	921	267	092	010	884
60	922	203	065	026	651
60	923	230	064	020	517
60	924	296	098	118	965
60	925	211	055	007	454
60	926	171	039	066	387
60	1001	285	245	435	118
60	1002	169	115	150	941
60	1003	223	073	136	541
60	1004	144	053	099	330

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1005	133	043	037	282
60	1006	132	037	028	286
60	1007	206	042	021	360
60	1008	279	056	107	479
60	1009	373	131	094	1098
60	1010	419	145	053	1034
60	1011	263	095	010	731
60	1012	133	070	017	676
60	1013	116	049	073	336
60	1014	090	040	019	284
60	1015	104	043	051	348
60	1016	133	024	523	936
60	1017	015	243	503	974
60	1018	060	068	290	338
60	1019	004	058	236	228
60	1020	040	050	174	220
60	1021	112	045	114	271
60	1022	236	053	024	451
60	1023	449	093	223	759
60	1024	330	093	128	746
60	1025	330	107	052	773
60	1026	177	077	040	485
60	1027	148	075	120	764
60	1028	120	046	061	835
60	1029	108	043	019	449
60	1030	088	039	026	349
60	1031	148	229	568	1061
60	1032	039	257	466	1163
60	1033	668	102	405	847
60	1034	029	049	257	112
60	1035	057	045	136	209
60	1036	164	047	050	351
60	1037	330	076	097	585
60	1038	492	109	225	867
60	1039	448	107	082	836
60	1040	303	123	071	760
60	1041	158	083	145	662
60	1042	115	061	098	532
60	1043	111	041	055	418
60	1044	109	053	097	388
60	1045	104	054	114	422
60	1046	105	205	537	964
60	1047	038	241	492	1209
60	1048	044	102	347	711
60	1049	003	049	224	196
60	1050	053	036	094	186
60	1051	174	045	012	335
60	1052	345	077	154	629
60	1053	513	129	246	1003
60	1054	418	164	112	797

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1055	.277	.111	.011	-.717	60	1105	-.124	.038	-.032	-.374	60	2030	-.432	.157	.920	-.103
60	1056	-.154	.077	.057	-.512	60	1106	-.124	.109	-.195	-.861	60	2031	-.104	.051	.095	-.407
60	1057	-.127	.061	.095	-.438	60	1107	-.111	.127	-.335	-.946	60	2032	-.102	.036	.018	-.275
60	1058	-.093	.034	.053	-.247	60	1108	-.056	.104	-.376	-.993	60	2033	-.116	.037	.010	-.289
60	1059	-.111	.053	.039	-.451	60	1109	-.029	.051	.217	-.369	60	2034	-.129	.037	.023	-.295
60	1060	-.109	.053	.047	-.554	60	1110	-.063	.034	.095	-.224	60	2035	-.172	.045	.011	-.386
60	1061	-.173	.299	.532	-.971	60	1111	-.017	.050	.212	-.194	60	2036	-.273	.063	.097	-.568
60	1062	-.072	.206	.383	-.923	60	1112	-.032	.071	.344	-.188	60	2037	-.481	.138	.131	-1.070
60	1063	-.003	.111	.287	-.717	60	1113	-.285	.095	.067	-.780	60	2038	-.697	.156	.173	-1.288
60	1064	-.018	.047	.176	-.355	60	1114	-.174	.032	.042	-.310	60	2039	-.781	.166	.327	-1.347
60	1065	-.075	.037	.100	-.257	60	1115	-.179	.041	-.026	-.351	60	2040	-.712	.143	.328	-1.146
60	1066	-.144	.037	-.003	-.259	60	1116	-.125	.037	.003	-.292	60	2041	-.464	.118	.036	-.841
60	1067	-.314	.071	-.116	-.576	60	1117	-.114	.034	.034	-.280	60	2042	-.053	.113	.423	-.402
60	1068	-.470	.104	-.213	-.868	60	1118	-.118	.029	.001	-.279	60	2043	-.297	.146	.787	-.058
60	1069	-.397	.098	-.183	-.834	60	1119	-.112	.030	.003	-.337	60	2044	-.417	.149	.932	-.061
60	1070	-.229	.091	.015	-.677	60	1120	-.099	.025	.011	-.231	60	2045	-.424	.158	.937	-.052
60	1071	-.148	.067	.111	-.467	60	1121	-.115	.034	.018	-.311	60	2046	-.108	.051	.108	-.380
60	1072	-.125	.053	.085	-.376	60	1122	-.128	.034	.030	-.289	60	2047	-.101	.042	.074	-.289
60	1073	-.112	.036	.019	-.343	60	1123	-.168	.044	.046	-.456	60	2048	-.107	.034	.023	-.249
60	1074	-.096	.041	.033	-.336	60	1124	-.179	.045	.045	-.403	60	2049	-.131	.042	.059	-.338
60	1075	-.114	.049	.018	-.430	60	1125	-.157	.031	.063	-.290	60	2050	-.166	.046	.010	-.390
60	1076	-.208	.185	.448	-.948	60	2001	-.118	.046	.056	-.315	60	2051	-.251	.064	.060	-.653
60	1077	-.132	.195	.381	-1.370	60	2002	-.116	.047	.037	-.350	60	2052	-.433	.119	.157	-1.201
60	1078	-.047	.104	.248	-.710	60	2003	-.135	.052	.045	-.351	60	2053	-.650	.159	.286	-1.296
60	1079	-.047	.048	.182	-.439	60	2004	-.219	.067	.049	-.516	60	2054	-.723	.168	.278	-1.309
60	1080	-.076	.033	.066	-.217	60	2005	-.361	.121	-.063	-.140	60	2055	-.655	.154	.202	-1.182
60	1081	-.150	.035	-.006	-.301	60	2006	-.491	.187	.030	-.426	60	2056	-.411	.108	.121	-.898
60	1082	-.271	.054	-.102	-.511	60	2007	-.553	.202	-.093	-.643	60	2057	-.050	.139	.429	-.418
60	1083	-.386	.084	-.182	-.718	60	2008	-.570	.158	-.205	-.848	60	2058	-.250	.158	.815	-.016
60	1084	-.293	.077	-.057	-.584	60	2009	-.565	.144	-.213	-.748	60	2059	-.344	.145	.912	-.015
60	1085	-.172	.074	.057	-.510	60	2010	-.481	.093	.195	-.872	60	2060	-.347	.145	.872	-.015
60	1086	-.130	.051	.028	-.415	60	2011	-.365	.080	.055	-.684	60	2061	-.121	.048	.059	-.415
60	1087	-.126	.046	.042	-.400	60	2012	-.127	.079	.154	-.408	60	2062	-.107	.045	.081	-.336
60	1088	-.114	.031	.023	-.396	60	2013	-.080	.119	.481	-.356	60	2063	-.109	.043	.098	-.374
60	1089	-.126	.040	.055	-.334	60	2014	-.254	.142	.688	-.253	60	2064	-.124	.036	.001	-.323
60	1090	-.128	.036	.030	-.298	60	2015	-.204	.139	.657	-.224	60	2065	-.160	.043	.029	-.459
60	1091	-.162	.124	.294	-.827	60	2016	-.121	.038	.020	-.370	60	2066	-.221	.055	.034	-.553
60	1092	-.131	.134	.257	-.981	60	2017	-.164	.043	.009	-.347	60	2067	-.359	.105	.101	-.924
60	1093	-.075	.104	.198	-.686	60	2018	-.145	.051	.008	-.388	60	2068	-.536	.137	.119	-1.073
60	1094	-.044	.044	.126	-.296	60	2019	-.194	.065	.034	-.494	60	2069	-.559	.163	.019	-1.247
60	1095	-.046	.040	.119	-.233	60	2020	-.244	.066	.030	-.582	60	2070	-.321	.140	.060	-.1085
60	1096	-.141	.037	-.033	-.318	60	2021	-.336	.087	.094	-.978	60	2071	-.349	.107	.004	-.733
60	1097	-.192	.038	-.065	-.409	60	2022	-.456	.114	.113	-.930	60	2072	-.027	.104	.408	-.369
60	1098	-.227	.044	-.102	-.456	60	2023	-.638	.138	.299	-.131	60	2073	-.222	.129	.796	-.063
60	1099	-.136	.042	-.032	-.342	60	2024	-.696	.124	.375	-.105	60	2074	-.301	.134	.781	-.024
60	1100	-.110	.041	-.042	-.316	60	2025	-.673	.119	.342	-.089	60	2075	-.295	.135	.851	-.018
60	1101	-.114	.037	-.063	-.290	60	2026	-.386	.096	.064	-.739	60	2076	-.118	.035	.004	-.383
60	1102	-.115	.027	-.023	-.245	60	2027	-.051	.109	.343	-.466	60	2077	-.117	.047	.061	-.347
60	1103	-.108	.027	-.012	-.218	60	2028	-.264	.128	.643	-.138	60	2078	-.111	.060	.120	-.412
60	1104	-.116	.034	-.003	-.282	60	2029	-.350	.160	.804	-.106	60	2079	-.131	.068	.117	-.525

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	800	133	039	021	302	70	803	111	044	038	348	70	1022	266	052	098	496
60	801	205	048	041	379	70	804	393	101	190	029	70	1023	439	092	202	800
60	802	301	072	080	607	70	805	179	040	036	378	70	1024	379	090	121	748
60	803	423	120	036	896	70	806	174	047	024	465	70	1025	256	094	007	609
60	804	448	118	032	869	70	807	148	044	038	367	70	1026	135	058	031	408
60	805	335	112	036	792	70	901	743	162	257	1272	70	1027	129	045	006	554
60	806	222	088	103	651	70	902	359	098	005	788	70	1028	118	031	004	278
60	807	019	103	452	344	70	903	222	044	068	438	70	1029	111	033	007	259
60	808	202	109	617	049	70	905	120	066	367	127	70	1030	091	030	012	222
60	809	229	122	723	060	70	906	044	046	211	147	70	1031	429	162	305	175
60	890	226	117	737	029	70	907	044	039	159	194	70	1032	422	216	260	289
60	891	108	031	003	294	70	908	165	097	232	817	70	1033	152	208	276	155
60	892	100	026	030	217	70	909	441	180	100	678	70	1034	042	051	177	509
60	893	110	035	120	279	70	910	719	140	253	311	70	1035	110	036	039	306
60	894	145	047	066	441	70	911	319	116	013	876	70	1036	202	043	060	374
60	895	188	059	030	497	70	912	109	038	058	299	70	1037	359	073	146	573
60	896	237	076	059	643	70	913	035	025	069	147	70	1038	474	102	191	773
60	897	132	030	037	408	70	914	107	056	149	535	70	1039	382	095	082	677
60	898	245	053	112	336	70	915	131	031	028	257	70	1040	184	068	019	340
60	899	299	069	044	549	70	916	144	031	031	245	70	1041	124	049	048	338
60	100	268	062	028	430	70	917	130	069	169	450	70	1042	102	035	026	245
60	101	152	066	159	434	70	918	730	139	251	346	70	1043	107	028	012	223
60	102	064	098	640	226	70	919	679	047	238	096	70	1044	103	035	005	259
60	103	192	100	582	091	70	921	311	109	012	944	70	1045	102	038	014	352
60	104	179	078	311	077	70	922	184	062	021	499	70	1046	376	156	195	259
60	105	165	079	538	029	70	923	243	065	049	563	70	1047	379	224	347	400
60	106	173	045	043	414	70	924	331	104	081	011	70	1048	185	214	263	284
60	107	128	083	481	120	70	925	181	050	064	391	70	1049	073	063	152	507
60	108	163	039	044	333	70	926	146	035	045	390	70	1050	101	033	046	277
60	109	402	123	118	535	70	1001	583	186	181	444	70	1051	205	045	051	371
60	110	089	039	066	229	70	1002	421	205	046	069	70	1052	352	079	131	620
60	111	057	043	215	184	70	1003	219	102	122	995	70	1053	481	100	241	783
60	112	054	037	174	159	70	1004	133	051	141	425	70	1054	338	080	094	622
60	113	119	031	053	239	70	1005	122	037	111	304	70	1055	174	063	005	596
60	114	122	033	020	066	70	1006	122	029	066	245	70	1056	126	047	061	388
60	115	170	042	033	408	70	1007	197	034	056	350	70	1057	114	036	007	383
60	116	244	056	087	577	70	1008	292	068	109	837	70	1058	087	024	015	804
60	117	142	032	011	301	70	1009	521	194	115	379	70	1059	105	039	032	385
60	118	150	033	029	290	70	1010	395	135	091	040	70	1060	103	038	040	353
60	119	231	051	094	451	70	1011	192	083	011	756	70	1061	408	159	310	171
60	120	222	051	084	429	70	1012	122	043	010	388	70	1062	372	182	272	236
60	121	126	061	105	333	70	1013	112	033	006	259	70	1063	237	208	222	168
60	122	089	094	305	173	70	1014	092	030	006	250	70	1064	102	083	113	753
60	123	212	116	706	101	70	1015	110	034	004	276	70	1065	118	043	177	483
60	124	206	087	566	072	70	1016	458	162	204	226	70	1066	168	040	071	335
60	125	181	090	585	138	70	1017	418	248	267	298	70	1067	313	068	063	547
60	126	097	072	478	077	70	1018	093	148	209	909	70	1068	415	090	194	774
60	127	068	078	429	150	70	1019	055	047	220	429	70	1069	287	075	058	368
70	801	095	055	234	321	70	1020	091	037	045	245	70	1070	133	047	024	383
70	802	085	047	132	276	70	1021	155	037	050	275	70	1071	118	041	011	292

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1072	.113	.034	.009	.372
70	1073	.105	.027	.010	.246
70	1074	.088	.029	.006	.301
70	1075	.105	.033	.009	.355
70	1076	.357	.156	.227	-1.218
70	1077	.353	.175	.146	-1.187
70	1078	.229	.144	.080	-1.164
70	1079	.131	.076	.061	-.801
70	1080	.113	.041	.036	-.533
70	1081	.170	.040	.074	-.376
70	1082	.264	.055	.063	-.472
70	1083	.346	.082	.149	-.683
70	1084	.204	.070	.058	-.481
70	1085	.125	.047	.025	-.364
70	1086	.113	.036	.009	-.351
70	1087	.126	.032	.027	-.302
70	1088	.108	.026	.029	-.229
70	1089	.112	.033	.008	-.355
70	1090	.110	.029	.001	-.349
70	1091	.302	.127	.041	-1.123
70	1092	.285	.141	.161	-1.317
70	1093	.252	.147	.091	-1.194
70	1094	.124	.067	.063	-.563
70	1095	.117	.051	.058	-.463
70	1096	.155	.045	.029	-.511
70	1097	.184	.044	.015	-.343
70	1098	.184	.045	.043	-.381
70	1099	.136	.039	.017	-.335
70	1100	.104	.035	.011	-.328
70	1101	.108	.033	.045	-.253
70	1102	.104	.022	.028	-.189
70	1103	.125	.031	.045	-.312
70	1104	.111	.035	.009	-.299
70	1105	.111	.035	.021	-.331
70	1106	.266	.121	.107	-.997
70	1107	.282	.147	.124	-1.111
70	1108	.213	.142	.156	-1.066
70	1109	.111	.071	.195	-.999
70	1110	.116	.037	.018	-.314
70	1111	.099	.053	.099	-.370
70	1112	.229	.066	.276	-.333
70	1113	.229	.098	.134	-.706
70	1114	.163	.038	.063	-.292
70	1115	.173	.046	.008	-.342
70	1116	.116	.039	.021	-.281
70	1117	.107	.033	.003	-.251
70	1118	.109	.028	.021	-.280
70	1119	.111	.027	.005	-.297
70	1120	.103	.028	.014	-.286
70	1121	.119	.037	.028	-.301

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1122	.120	.032	.038	-.265
70	1123	.151	.039	.037	-.352
70	1124	.154	.035	.054	-.319
70	1125	.128	.023	.051	-.230
70	2001	.141	.039	.012	-.289
70	2002	.128	.043	.011	-.328
70	2003	.137	.052	.001	-.447
70	2004	.181	.063	.019	-.607
70	2005	.260	.109	.008	-.917
70	2006	.321	.143	.004	-1.087
70	2007	.405	.175	.057	-1.707
70	2008	.451	.141	.134	-1.418
70	2009	.462	.113	.146	-.937
70	2010	.357	.087	.094	-.715
70	2011	.178	.082	.158	-.449
70	2012	.041	.096	.408	-.253
70	2013	.197	.139	.744	-.241
70	2014	.249	.145	.765	-.184
70	2015	.224	.141	.686	-.248
70	2016	.118	.029	.031	-.336
70	2017	.127	.036	.015	-.400
70	2018	.117	.044	.004	-.573
70	2019	.142	.054	.009	-.517
70	2020	.183	.061	.026	-.588
70	2021	.256	.072	.035	-.781
70	2022	.430	.111	.184	-.870
70	2023	.561	.124	.226	-1.013
70	2024	.580	.116	.262	-.938
70	2025	.470	.107	.093	-.773
70	2026	.190	.090	.176	-.566
70	2027	.164	.128	.698	-.176
70	2028	.397	.146	.886	-.023
70	2029	.436	.168	1.061	-.032
70	2030	.414	.158	1.007	-.026
70	2031	.101	.035	.069	-.281
70	2032	.094	.027	.004	-.217
70	2033	.104	.031	.013	-.238
70	2034	.107	.032	.008	-.284
70	2035	.140	.037	.003	-.305
70	2036	.225	.051	.068	-.502
70	2037	.438	.117	.139	-.985
70	2038	.572	.120	.231	-.993
70	2039	.627	.138	.288	-1.138
70	2040	.515	.115	.201	-.909
70	2041	.258	.102	.097	-.587
70	2042	.125	.117	.676	-.197
70	2043	.374	.146	.837	.041
70	2044	.407	.138	.842	.044
70	2045	.376	.144	.834	-.040
70	2046	.103	.036	.034	-.301

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	2047	.096	.032	.045	-.239
70	2048	.097	.028	.004	-.220
70	2049	.116	.036	.027	-.303
70	2050	.136	.038	.009	-.296
70	2051	.208	.054	.062	-.520
70	2052	.381	.108	.177	-.913
70	2053	.537	.144	.211	-1.083
70	2054	.556	.155	.188	-1.069
70	2055	.476	.131	.046	-.905
70	2056	.239	.089	.068	-.578
70	2057	.098	.110	.523	-.293
70	2058	.336	.140	.900	-.052
70	2059	.342	.154	.960	-.069
70	2060	.311	.136	.759	-.025
70	2061	.113	.034	.025	-.289
70	2062	.096	.033	.046	-.325
70	2063	.096	.034	.073	-.246
70	2064	.108	.033	.006	-.234
70	2065	.143	.042	.013	-.346
70	2066	.189	.049	.008	-.434
70	2067	.324	.102	.057	-.867
70	2068	.446	.133	.129	-1.044
70	2069	.465	.158	.004	-1.107
70	2070	.362	.133	.044	-.919
70	2071	.185	.092	.181	-.538
70	2072	.114	.099	.652	-.155
70	2073	.300	.137	.973	-.060
70	2074	.313	.133	.850	-.011
70	2075	.260	.125	.799	-.025
70	2076	.105	.030	.006	-.322
70	2077	.106	.037	.044	-.366
70	2078	.093	.042	.114	-.354
70	2079	.104	.047	.050	-.330
70	2080	.131	.037	.044	-.293
70	2081	.184	.048	.017	-.450
70	2082	.277	.076	.021	-.689
70	2083	.346	.106	.071	-.909
70	2084	.338	.107	.037	-.816
70	2085	.275	.109	.111	-.736
70	2086	.106	.082	.208	-.426
70	2087	.133	.099	.638	-.125
70	2088	.251	.115	.738	-.018
70	2089	.213	.117	.672	-.053
70	2090	.188	.107	.604	-.084
70	2091	.102	.030	.003	-.249
70	2092	.090	.026	.016	-.193
70	2093	.091	.034	.058	-.243
70	2094	.109	.040	.051	-.306
70	2095	.163	.057	.020	-.482
70	2096	.277	.089	.006	-.759

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
70	2097	.125	.048	.080	-.380
70	2098	-.208	.050	-.077	-.482
70	2099	-.227	.066	-.053	-.506
70	21100	-.191	.063	.020	-.474
70	21101	-.078	.062	.186	-.303
70	21102	.124	.085	.570	-.137
70	21103	.200	.098	.823	-.050
70	21104	.155	.078	.533	-.075
70	21105	.128	.081	.501	-.091
70	21106	-.145	.038	-.043	-.417
70	21107	-.135	.081	.497	-.059
70	21108	.141	.034	-.039	-.292
70	21109	-.383	.125	-.098	-1.162
70	21110	-.066	.035	.086	-.223
70	21111	-.029	.049	.230	-.170
70	21112	-.022	.043	.219	-.147
70	21113	-.092	.032	.073	-.207
70	21114	-.098	.031	.037	-.240
70	21115	-.149	.038	-.009	-.329
70	21116	-.223	.053	-.094	-.455
70	21117	-.121	.031	-.024	-.249
70	21118	-.116	.031	-.000	-.323
70	21119	-.175	.049	-.031	-.405
70	21120	-.154	.031	-.017	-.359
70	21121	-.062	.055	.162	-.262
70	21122	.139	.082	.514	-.093
70	21123	.230	.101	.748	-.028
70	21124	.193	.077	.544	-.023
70	21125	.148	.084	.551	-.044
70	21126	.112	.070	.432	-.130
70	21127	.084	.083	.514	-.163
80	801	-.119	.063	.128	-.433
80	802	-.124	.058	.129	-.499
80	803	-.155	.057	-.073	-.470
80	804	-.334	.093	-.126	-.825
80	805	-.142	.034	-.033	-.308
80	806	-.145	.042	-.010	-.350
80	807	-.116	.034	-.021	-.266
80	901	-.565	.117	-.158	-1.005
80	902	-.170	.103	.186	-.614
80	903	-.118	.038	.068	-.296
80	905	.080	.085	.436	-.253
80	906	.012	.053	.202	-.240
80	907	-.039	.042	.127	-.336
80	908	-.182	.122	.231	-.992
80	909	-.446	.161	-.061	-1.435
80	910	-.538	.106	.190	-.931
80	911	-.424	.123	.169	-.884
80	912	-.064	.057	.229	-.404
80	913	-.037	.040	.105	-.328

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
80	914	-.080	.078	.167	-.663
80	915	-.072	.059	.228	-.437
80	916	-.103	.056	.114	-.607
80	917	-.129	.106	.212	-.569
80	918	-.348	.102	-.240	-1.004
80	919	-.047	.057	.234	-.157
80	921	-.282	.105	.127	-.813
80	922	-.153	.052	.019	-.440
80	923	-.196	.058	.028	-.470
80	924	-.294	.091	-.075	-.803
80	925	-.139	.039	.063	-.404
80	926	-.113	.026	-.026	-.299
80	1001	-.640	.169	.194	-1.730
80	1002	-.602	.163	-.103	-1.370
80	1003	-.431	.184	.009	-1.196
80	1004	-.143	.086	.132	-.904
80	1005	-.113	.047	.041	-.463
80	1006	-.126	.039	.046	-.449
80	1007	-.223	.060	-.028	-.657
80	1008	-.477	.195	-.098	-1.291
80	1009	-.729	.269	-.140	-1.633
80	1010	-.469	.185	-.037	-1.150
80	1011	-.186	.077	.010	-.646
80	1012	-.135	.040	.029	-.435
80	1013	-.123	.033	.022	-.257
80	1014	-.101	.030	-.006	-.221
80	1015	-.117	.033	-.028	-.270
80	1016	-.586	.151	.100	-1.251
80	1017	-.598	.151	.075	-1.214
80	1018	-.450	.183	.040	-1.130
80	1019	-.147	.110	.211	-.862
80	1020	-.122	.048	.092	-.475
80	1021	-.181	.042	-.002	-.570
80	1022	-.286	.060	-.114	-.531
80	1023	-.448	.101	-.182	-.864
80	1024	-.376	.090	-.149	-.747
80	1025	-.239	.075	-.040	-.508
80	1026	-.139	.048	-.017	-.332
80	1027	-.134	.038	-.019	-.332
80	1028	-.125	.028	-.039	-.229
80	1029	-.117	.029	-.004	-.244
80	1030	-.097	.026	-.019	-.214
80	1031	-.513	.128	.016	-1.147
80	1032	-.536	.141	.059	-1.331
80	1033	-.490	.196	.123	-1.223
80	1034	-.189	.131	.180	-.741
80	1035	-.145	.071	.188	-.520
80	1036	-.201	.056	.040	-.454
80	1037	-.306	.070	-.033	-.563
80	1038	-.376	.087	-.141	-.680

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
80	1039	-.283	.077	-.072	-.595
80	1040	-.152	.048	-.004	-.403
80	1041	-.126	.040	-.016	-.515
80	1042	-.107	.030	-.019	-.259
80	1043	-.118	.029	-.021	-.247
80	1044	-.111	.030	-.014	-.262
80	1045	-.105	.031	-.021	-.262
80	1046	-.491	.130	-.166	-1.101
80	1047	-.536	.161	-.054	-1.475
80	1048	-.479	.215	-.115	-1.429
80	1049	-.220	.144	.132	-.766
80	1050	-.140	.063	.121	-.469
80	1051	-.199	.057	.085	-.520
80	1052	-.290	.065	-.086	-.560
80	1053	-.348	.080	-.140	-.653
80	1054	-.204	.054	-.044	-.438
80	1055	-.132	.041	-.048	-.379
80	1056	-.117	.035	-.001	-.370
80	1057	-.110	.028	-.013	-.260
80	1058	-.085	.021	-.042	-.175
80	1059	-.100	.026	-.021	-.209
80	1060	-.099	.026	-.018	-.199
80	1061	-.500	.153	-.151	-1.411
80	1062	-.488	.150	-.031	-1.463
80	1063	-.442	.199	-.083	-1.398
80	1064	-.215	.133	.122	-.801
80	1065	-.150	.069	.247	-.542
80	1066	-.164	.049	.094	-.467
80	1067	-.260	.062	.016	-.539
80	1068	-.306	.074	-.093	-.618
80	1069	-.182	.053	.066	-.398
80	1070	-.100	.033	.078	-.261
80	1071	-.108	.032	.025	-.256
80	1072	-.105	.025	-.018	-.206
80	1073	-.100	.024	-.027	-.199
80	1074	-.082	.023	-.012	-.184
80	1075	-.098	.026	-.014	-.214
80	1076	-.464	.155	-.077	-1.277
80	1077	-.503	.183	-.049	-1.768
80	1078	-.410	.169	-.057	-1.094
80	1079	-.225	.119	.065	-.874
80	1080	-.146	.067	.120	-.550
80	1081	-.164	.051	-.068	-.494
80	1082	-.214	.046	-.055	-.389
80	1083	-.252	.059	-.094	-.524
80	1084	-.140	.047	.006	-.456
80	1085	-.113	.043	.047	-.463
80	1086	-.106	.030	.006	-.284
80	1087	-.119	.027	-.020	-.229
80	1088	-.100	.025	.001	-.207

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	1089	.102	.027	.018	-.242	80	2014	.247	.132	.716	-.155	80	2064	-.092	.026	.001	-.268
80	1090	-.098	.023	-.029	-.209	80	2015	.234	.136	.705	-.155	80	2065	-.118	.033	-.014	-.312
80	1091	-.409	.142	-.089	-.179	80	2016	-.118	.026	-.035	-.238	80	2066	-.151	.041	-.041	-.407
80	1092	-.407	.154	.071	-.491	80	2017	-.116	.030	.013	-.342	80	2067	-.288	.076	-.075	-.682
80	1093	-.390	.173	.023	-.232	80	2018	-.091	.034	.011	-.329	80	2068	-.354	.096	-.090	-.808
80	1094	-.190	.088	.087	-.724	80	2019	-.100	.036	.011	-.513	80	2069	-.347	.118	-.017	-.899
80	1095	-.149	.067	.103	-.746	80	2020	-.127	.035	-.018	-.448	80	2070	-.248	.103	-.089	-.713
80	1096	-.150	.051	.051	-.530	80	2021	-.209	.055	.045	-.567	80	2071	-.080	.070	-.197	-.336
80	1097	-.139	.044	.080	-.386	80	2022	-.362	.094	.143	-.741	80	2072	-.184	.090	-.346	-.047
80	1098	-.149	.040	.016	-.345	80	2023	-.460	.110	.126	-.869	80	2073	.334	.890	-.097	-.097
80	1099	-.123	.040	.023	-.307	80	2024	-.394	.100	.062	-.738	80	2074	.292	.135	.760	-.104
80	1100	-.098	.034	.026	-.255	80	2025	-.239	.101	.150	-.634	80	2075	.229	.124	.845	-.139
80	1101	-.103	.030	-.018	-.261	80	2026	-.032	.107	.408	-.319	80	2076	-.098	.025	-.008	-.211
80	1102	-.095	.021	.001	-.201	80	2027	-.308	.136	.770	-.124	80	2077	-.098	.029	-.027	-.283
80	1103	-.117	.029	.037	-.274	80	2028	-.446	.139	.863	-.026	80	2078	-.081	.031	.042	-.307
80	1104	-.101	.029	.019	-.252	80	2029	-.387	.149	.850	-.129	80	2079	-.086	.031	.044	-.238
80	1105	-.102	.028	.013	-.324	80	2030	-.346	.139	.795	-.076	80	2080	-.108	.027	.016	-.242
80	1106	-.356	.127	-.038	-.212	80	2031	-.105	.027	.001	-.214	80	2081	-.151	.035	.024	-.222
80	1107	-.386	.154	.007	-.471	80	2032	-.096	.021	.023	-.172	80	2082	-.222	.059	.034	-.355
80	1108	-.323	.155	.038	-.210	80	2033	-.099	.024	.007	-.197	80	2083	-.259	.079	.011	-.616
80	1109	-.180	.097	.071	-.747	80	2034	-.093	.026	.030	-.219	80	2084	-.231	.082	.040	-.603
80	1110	-.134	.047	.035	-.355	80	2035	-.121	.030	.013	-.257	80	2085	-.175	.087	.140	-.557
80	1111	-.098	.064	.073	-.437	80	2036	-.204	.053	.068	-.555	80	2086	-.045	.069	.257	-.334
80	1112	-.087	.070	.205	-.332	80	2037	-.402	.099	.134	-.874	80	2087	-.164	.092	.583	-.077
80	1113	-.181	.077	.079	-.643	80	2038	-.485	.107	.161	-.840	80	2088	.283	.114	.635	-.021
80	1114	-.141	.037	.029	-.297	80	2039	-.437	.125	.037	-.898	80	2089	.219	.120	.856	-.058
80	1115	-.145	.043	.053	-.314	80	2040	-.300	.095	.016	-.622	80	2090	.181	.110	.809	-.087
80	1116	-.105	.037	.051	-.287	80	2041	-.067	.085	.237	-.339	80	2091	-.092	.029	.015	-.219
80	1117	-.103	.033	.011	-.237	80	2042	-.259	.129	.697	-.082	80	2092	-.081	.026	.033	-.184
80	1118	-.102	.026	.021	-.226	80	2043	-.422	.155	.985	-.036	80	2093	-.079	.032	.057	-.222
80	1119	-.109	.025	.010	-.257	80	2044	-.364	.137	.815	-.004	80	2094	-.086	.037	.059	-.310
80	1120	-.096	.029	.036	-.245	80	2045	-.306	.141	.812	-.070	80	2095	-.124	.042	.034	-.354
80	1121	-.108	.033	.013	-.275	80	2046	-.102	.026	.009	-.214	80	2096	-.235	.076	.037	-.601
80	1122	-.104	.023	.023	-.253	80	2047	-.093	.025	.001	-.217	80	2097	-.103	.042	.064	-.302
80	1123	-.117	.029	.029	-.292	80	2048	-.091	.023	.001	-.203	80	2098	-.153	.045	.036	-.415
80	1124	-.122	.029	.026	-.270	80	2049	-.103	.029	.010	-.229	80	2099	-.149	.055	.008	-.422
80	1125	-.092	.019	.044	-.182	80	2050	-.111	.032	.018	-.268	80	2100	-.115	.055	.040	-.386
80	2001	-.144	.033	.023	-.319	80	2051	-.164	.045	.044	-.429	80	2101	-.033	.060	.291	-.263
80	2002	-.119	.047	.064	-.379	80	2052	-.314	.083	.146	-.728	80	2102	-.121	.078	.487	-.227
80	2003	-.111	.050	.023	-.408	80	2053	-.420	.110	.166	-.092	80	2103	-.211	.099	.639	-.058
80	2004	-.125	.054	.013	-.514	80	2054	-.390	.119	.095	-.052	80	2104	-.148	.085	.594	-.071
80	2005	-.190	.087	.010	-.701	80	2055	-.307	.105	.003	-.744	80	2105	-.112	.089	.577	-.107
80	2006	-.235	.118	.051	-.942	80	2056	-.096	.063	.192	-.384	80	2106	-.114	.030	.429	-.027
80	2007	-.330	.122	.013	-.134	80	2057	-.211	.107	.670	-.131	80	2107	-.108	.076	.408	-.066
80	2008	-.384	.092	.123	-.738	80	2058	-.393	.146	.892	-.040	80	2108	-.099	.026	.027	-.223
80	2009	-.352	.091	.055	-.661	80	2059	-.330	.134	.814	-.006	80	2109	-.307	.107	.078	-.891
80	2010	-.185	.085	.197	-.478	80	2060	-.270	.114	.673	-.032	80	2110	-.045	.031	.105	-.160
80	2011	-.094	.100	.441	-.297	80	2061	-.110	.026	.007	-.236	80	2111	-.018	.042	.193	-.141
80	2012	-.199	.108	.545	-.133	80	2062	-.089	.026	.027	-.246	80	2112	-.003	.037	.205	-.107
80	2013	-.287	.137	.885	-.119	80	2063	-.086	.026	.025	-.228	80	2113	-.067	.030	.057	-.168

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	21114	.073	.026	.031	.178	90	1006	.204	.094	.019	-.673	90	1056	-.123	.035	-.004	-.366
80	22115	.116	.030	.002	-.239	90	1007	.304	.123	.068	-.103	90	1057	-.123	.030	-.020	-.285
80	22116	.173	.045	.050	-.360	90	1008	.528	.206	.091	-1.399	90	1058	-.102	.035	-.022	-.221
80	22117	.087	.027	.003	-.225	90	1009	.541	.216	.086	-1.605	90	1059	-.117	.030	-.019	-.261
80	22118	.076	.029	.029	-.324	90	1010	.322	.135	.035	-.919	90	1060	-.115	.030	-.018	-.253
80	22119	.115	.047	.017	-.327	90	1011	.172	.069	.003	-.622	90	1061	-.368	.198	-.138	-1.720
80	22120	.078	.029	.089	-.286	90	1012	.136	.039	.021	-.375	90	1062	-.366	.170	-.062	-1.493
80	22121	.018	.051	.222	.203	90	1013	.125	.031	.004	-.269	90	1063	-.376	.157	-.018	-1.276
80	22122	.139	.072	.487	.066	90	1014	.106	.028	.001	-.233	90	1064	-.218	.085	-.059	-.744
80	22123	.226	.109	.649	.042	90	1015	.122	.030	.004	-.254	90	1065	-.169	.053	.123	-.476
80	22124	.189	.090	.594	.090	90	1016	.255	.130	.223	-1.611	90	1066	-.154	.039	.017	-.385
80	22125	.126	.098	.606	.107	90	1017	.525	.147	.163	-1.566	90	1067	-.202	.051	.019	-.459
80	22126	.105	.059	.384	.076	90	1018	.500	.151	.101	-1.659	90	1068	-.198	.057	.028	-.450
80	2127	.083	.075	.435	.109	90	1019	.253	.139	.146	-.764	90	1069	-.136	.042	.030	-.469
90	801	.154	.053	.087	.434	90	1020	.157	.080	.165	-.843	90	1070	-.103	.030	.022	-.319
90	802	.156	.052	.032	-.469	90	1021	.184	.062	.025	-.691	90	1071	-.119	.025	.024	-.296
90	803	.174	.050	.050	-.399	90	1022	.383	.065	.010	-.664	90	1072	-.115	.025	.042	-.213
90	804	.181	.060	.002	-.334	90	1023	.387	.107	.138	-1.020	90	1073	-.109	.025	.034	-.233
90	805	.103	.027	.002	-.250	90	1024	.357	.113	.058	-.920	90	1074	-.092	.024	.022	-.219
90	806	.099	.020	.010	-.296	90	1025	.292	.120	.034	-.804	90	1075	-.107	.026	.028	-.249
90	807	.082	.025	.047	.191	90	1026	.165	.060	.015	-.442	90	1076	-.479	.163	.110	-1.371
90	901	.321	.131	.115	-1.406	90	1027	.145	.041	.028	-.375	90	1077	-.468	.172	.121	-1.251
90	902	.089	.100	.279	.494	90	1028	.333	.030	.037	-.272	90	1078	-.336	.113	.041	-.868
90	903	.071	.040	.085	.261	90	1029	.121	.028	.045	-.274	90	1079	-.229	.074	.021	-.699
90	905	.105	.089	.416	.151	90	1030	.103	.025	.035	-.246	90	1080	-.171	.051	.051	-.521
90	906	.065	.045	.180	.191	90	1031	.549	.177	.161	-1.860	90	1081	-.161	.044	.042	-.416
90	907	.008	.037	.040	-.290	90	1032	.562	.181	.063	-1.775	90	1082	-.162	.044	.073	-.391
90	908	.222	.130	.215	-1.002	90	1033	.516	.186	.071	-1.271	90	1083	-.170	.032	.008	-.429
90	909	.450	.143	.071	-1.237	90	1034	.248	.114	.103	-.687	90	1084	-.123	.039	.014	-.377
90	910	.484	.112	.196	-1.576	90	1035	.176	.077	.125	-.543	90	1085	-.120	.036	.011	-.302
90	911	.381	.138	.073	-.892	90	1036	.184	.063	.097	-.504	90	1086	-.111	.026	.009	-.226
90	912	.077	.065	.175	.378	90	1037	.243	.066	.040	-.689	90	1087	-.121	.025	.030	-.222
90	913	.035	.039	.098	.320	90	1038	.274	.072	.090	-.637	90	1088	-.110	.025	.029	-.231
90	914	.060	.064	.182	.314	90	1039	.223	.069	.035	-.536	90	1089	-.107	.026	.014	-.255
90	915	.070	.056	.165	.458	90	1040	.157	.054	.015	-.551	90	1090	-.097	.022	.021	-.199
90	916	.104	.045	.070	.326	90	1041	.134	.044	.004	-.491	90	1091	-.427	.154	.070	-1.479
90	917	.093	.100	.289	.565	90	1042	.117	.030	.035	-.262	90	1092	-.409	.154	.001	-1.443
90	918	.488	.112	.189	-1.139	90	1043	.129	.029	.049	-.282	90	1093	-.334	.129	.006	-1.080
90	919	.039	.050	.196	.228	90	1044	.125	.029	.035	-.279	90	1094	-.197	.063	.006	-.473
90	921	.081	.104	.367	.479	90	1045	.120	.029	.024	-.251	90	1095	-.175	.036	.016	-.527
90	922	.091	.034	.076	.217	90	1046	.583	.173	.101	-1.432	90	1096	-.150	.043	.026	-.322
90	923	.097	.045	.123	.257	90	1047	.599	.195	.003	-1.462	90	1097	-.147	.043	.060	-.324
90	924	.154	.076	.382	.474	90	1048	.462	.195	.099	-1.414	90	1098	-.129	.035	.009	-.290
90	925	.062	.049	.201	.210	90	1049	.239	.115	.139	-.902	90	1099	-.130	.036	.008	-.371
90	926	.072	.028	.104	.165	90	1050	.162	.059	.090	-.530	90	1100	-.116	.033	.001	-.317
90	1001	.593	.183	.176	-2.478	90	1051	.187	.034	.027	-.556	90	1101	-.114	.027	.006	-.216
90	1002	.562	.149	.146	-1.311	90	1052	.231	.039	.011	-.526	90	1102	-.099	.021	.011	-.189
90	1003	.532	.177	.003	-1.504	90	1053	.236	.063	.029	-.523	90	1103	-.120	.031	.037	-.373
90	1004	.253	.163	.146	-1.132	90	1054	.141	.042	.068	-.498	90	1104	-.105	.031	.019	-.337
90	1005	.192	.114	.078	-.822	90	1055	.130	.040	.083	-.503	90	1105	-.107	.029	.006	-.287

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	1106	.411	.163	.046	-.132	90	2031	.119	.028	-.027	-.223	90	2081	.099	.034	.042	-.283
90	1107	.411	.168	.008	-.143	90	2032	.099	.024	-.013	-.201	90	2082	.114	.041	.023	-.348
90	1108	.309	.133	.099	-.175	90	2033	.091	.030	-.040	-.214	90	2083	.108	.059	.138	-.467
90	1109	.185	.066	.060	-.560	90	2034	.070	.033	.091	-.207	90	2084	.073	.063	.243	-.444
90	1110	.164	.042	.014	-.374	90	2035	.082	.034	.086	-.230	90	2085	.053	.070	.262	-.427
90	1111	.162	.051	.046	-.386	90	2036	.132	.048	.037	-.372	90	2086	.020	.060	.220	-.275
90	1112	.126	.052	.125	-.362	90	2037	.237	.078	.008	-.568	90	2087	.020	.081	.339	-.294
90	1113	.160	.051	.064	-.502	90	2038	.248	.106	.084	-.636	90	2088	.054	.117	.521	-.372
90	1114	.131	.031	.028	-.275	90	2039	.126	.123	.346	-.675	90	2089	.019	.157	.645	-.664
90	1115	.135	.036	.017	-.251	90	2040	.005	.119	.493	-.449	90	2090	.015	.151	.662	-.492
90	1116	.111	.030	.017	-.251	90	2041	.081	.122	.660	-.358	90	2091	.089	.026	.006	-.245
90	1117	.117	.033	.004	-.307	90	2042	.185	.131	.743	-.182	90	2092	.071	.027	.035	-.206
90	1118	.106	.026	.019	-.219	90	2043	.260	.173	.894	-.233	90	2093	.061	.035	.093	-.236
90	1119	.114	.026	.005	-.222	90	2044	.221	.165	.718	-.499	90	2094	.054	.033	.108	-.219
90	1120	.108	.030	.019	-.266	90	2045	.176	.175	.775	-.556	90	2095	.076	.027	.034	-.195
90	1121	.108	.032	.004	-.358	90	2046	.109	.027	-.012	-.209	90	2096	.097	.061	.110	-.348
90	1122	.100	.026	.006	-.258	90	2047	.094	.028	.025	-.219	90	2097	.058	.042	.176	-.241
90	1123	.084	.026	.022	-.181	90	2048	.086	.026	.023	-.206	90	2098	.056	.044	.162	-.224
90	1124	.085	.025	.002	-.201	90	2049	.087	.034	.057	-.275	90	2099	.044	.052	.218	-.299
90	1125	.068	.023	.023	-.155	90	2050	.083	.039	.071	-.261	90	2100	.029	.051	.247	-.273
90	0001	.129	.034	.032	-.222	90	2051	.109	.049	.098	-.325	90	2101	.013	.033	.252	-.231
90	0002	.075	.035	.029	-.309	90	2052	.179	.068	.030	-.555	90	2102	.037	.066	.455	-.246
90	0003	.058	.033	.111	-.238	90	2053	.201	.109	.174	-.739	90	2103	.082	.114	.750	-.271
90	0004	.059	.028	.088	-.303	90	2054	.122	.130	.440	-.614	90	2104	.050	.123	.741	-.290
90	0005	.096	.038	.099	-.303	90	2055	.065	.118	.462	-.585	90	2105	.031	.134	.814	-.400
90	0006	.130	.044	.044	-.425	90	2056	.025	.074	.363	-.338	90	2106	.084	.024	.005	-.182
90	0007	.246	.062	.013	-.570	90	2057	.039	.093	.433	-.278	90	2107	.029	.061	.300	-.135
90	0008	.251	.066	.004	-.488	90	2058	.135	.161	.860	-.324	90	2108	.068	.023	.040	-.152
90	0009	.137	.091	.316	-.555	90	2059	.139	.196	.804	-.436	90	2109	.176	.077	.011	-.707
90	0010	.056	.125	.586	-.405	90	2060	.100	.169	.635	-.427	90	2110	.025	.044	.210	-.154
90	0011	.188	.161	.760	-.292	90	2061	.116	.026	.017	-.229	90	2111	.010	.054	.347	-.149
90	0012	.294	.195	.779	-.280	90	2062	.090	.026	.003	-.219	90	2112	.008	.047	.284	-.110
90	0013	.317	.173	.816	-.232	90	2063	.081	.028	.027	-.202	90	2113	.046	.041	.210	-.161
90	0014	.228	.148	.747	-.417	90	2064	.081	.028	.035	-.213	90	2114	.048	.031	.073	-.169
90	0015	.244	.147	.770	-.272	90	2065	.093	.038	.088	-.334	90	2115	.081	.026	.026	-.180
90	0016	.119	.023	.048	-.209	90	2066	.095	.044	.079	-.346	90	2116	.093	.035	.011	-.283
90	0017	.104	.025	.018	-.234	90	2067	.134	.057	.044	-.448	90	2117	.053	.039	.151	-.171
90	0018	.068	.026	.062	-.284	90	2068	.144	.079	.110	-.483	90	2118	.013	.052	.271	-.147
90	0019	.064	.029	.086	-.199	90	2069	.104	.106	.386	-.546	90	2119	.007	.062	.267	-.432
90	0020	.074	.028	.048	-.219	90	2070	.056	.097	.472	-.473	90	2120	.025	.037	.284	-.309
90	0021	.158	.060	.013	-.464	90	2071	.030	.079	.379	-.337	90	2121	.007	.059	.296	-.228
90	0022	.244	.067	.029	-.521	90	2072	.017	.086	.396	-.319	90	2122	.048	.069	.553	-.166
90	0023	.293	.101	.035	-.699	90	2073	.070	.152	.628	-.393	90	2123	.068	.097	.574	-.236
90	0024	.117	.101	.260	-.604	90	2074	.058	.182	.691	-.487	90	2124	.058	.096	.495	-.202
90	0025	.060	.143	.609	-.300	90	2075	.043	.170	.686	-.542	90	2125	.018	.123	.633	-.311
90	0026	.247	.174	.760	-.344	90	2076	.102	.021	.047	-.199	90	2126	.049	.059	.461	-.110
90	0027	.376	.185	.004	-.182	90	2077	.095	.025	.025	-.193	90	2127	.002	.058	.402	-.149
90	0028	.412	.171	.957	-.078	90	2078	.072	.026	.052	-.175	100	801	.192	.061	.050	-.534
90	0029	.306	.171	.869	-.242	90	2079	.073	.028	.058	-.261	100	802	.190	.062	.002	-.525
90	0030	.265	.157	.845	-.269	90	2080	.084	.028	.030	-.271	100	803	.205	.069	.007	-.677

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	804	.162	.058	.022	-.493	100	1023	-.359	.150	.020	-1.028	100	1073	-.141	.030	-.049	-.278
100	805	.094	.029	.011	-.203	100	1024	-.305	.129	.008	-.868	100	1074	-.121	.028	-.040	-.255
100	806	.083	.035	.044	-.233	100	1025	-.242	.099	-.015	-1.001	100	1075	-.137	.030	-.047	-.295
100	807	.063	.024	.014	-.176	100	1026	-.177	.060	-.046	-.660	100	1076	-.349	.144	-.009	-1.323
100	901	.041	.145	.020	-1.198	100	1027	-.168	.044	-.068	-.416	100	1077	-.359	.141	-.001	-1.162
100	902	.098	.090	.263	-.510	100	1028	-.156	.037	-.049	-.302	100	1078	-.328	.107	-.030	-1.028
100	903	.041	.155	.188	-.182	100	1029	-.135	.036	.051	-.305	100	1079	-.276	.095	-.029	-.791
100	905	.006	.099	.430	-.000	100	1030	-.135	.033	.042	-.271	100	1080	-.220	.071	-.011	-.649
100	906	.064	.054	.099	-.381	100	1031	-.492	.174	-.103	-1.829	100	1081	-.189	.055	-.042	-.423
100	907	.172	.068	.003	-.517	100	1032	-.512	.190	.023	-1.538	100	1082	-.177	.045	-.008	-.388
100	908	.392	.183	.071	-1.192	100	1033	-.476	.179	.037	-1.412	100	1083	-.176	.049	-.005	-.540
100	909	.516	.022	-.071	-1.059	100	1034	-.316	.115	.090	-.814	100	1084	-.161	.042	-.014	-.345
100	910	.563	.125	-.164	-1.111	100	1035	-.238	.104	.083	-.873	100	1085	-.158	.035	-.052	-.382
100	911	.405	.142	.061	-.949	100	1036	-.201	.089	.099	-.878	100	1086	-.145	.026	-.067	-.276
100	912	.078	.066	.247	-.381	100	1037	-.210	.084	.125	-.788	100	1087	-.142	.028	-.054	-.231
100	913	.078	.052	.105	-.403	100	1038	-.222	.075	.001	-.857	100	1088	-.131	.028	-.053	-.234
100	914	.078	.051	.238	-.691	100	1039	-.258	.085	.037	-.632	100	1089	-.128	.027	-.052	-.229
100	915	.075	.034	.127	-.433	100	1040	-.211	.075	.011	-.669	100	1090	-.123	.024	-.052	-.223
100	916	.111	.033	.101	-.449	100	1041	-.181	.058	.022	-.531	100	1091	-.118	.031	-.019	-.075
100	917	.125	.025	.101	-.471	100	1042	-.154	.040	.046	-.617	100	1092	-.310	.130	-.021	-1.291
100	918	.536	.130	.141	-1.492	100	1043	-.163	.037	.058	-.304	100	1093	-.309	.133	-.030	-1.049
100	919	.033	.052	.138	-.305	100	1044	-.137	.036	.053	-.290	100	1094	-.236	.078	-.043	-.993
100	921	.088	.096	.474	-.287	100	1045	-.133	.036	.063	-.314	100	1095	-.209	.071	-.007	-.752
100	922	.040	.039	.162	-.169	100	1046	-.463	.187	.055	-1.451	100	1096	-.179	.053	-.019	-.592
100	923	.075	.052	.148	-.357	100	1047	-.487	.222	.071	-1.994	100	1097	-.173	.049	-.004	-.439
100	924	.103	.046	.218	-.303	100	1048	-.419	.194	.106	-1.519	100	1098	-.162	.040	-.050	-.344
100	925	.023	.046	.214	-.194	100	1049	-.288	.118	.062	-.761	100	1099	-.167	.040	-.044	-.332
100	926	.055	.024	.094	-.155	100	1050	-.202	.075	.069	-.538	100	1100	-.148	.032	-.056	-.268
100	1001	.322	.176	.119	-2.698	100	1051	-.195	.071	.127	-.536	100	1101	-.134	.026	-.047	-.222
100	1002	.310	.143	.092	-1.403	100	1052	-.190	.065	.075	-.545	100	1102	-.122	.022	-.033	-.211
100	1003	.541	.183	.201	-1.633	100	1053	-.179	.055	.019	-.522	100	1103	-.131	.026	-.046	-.239
100	1004	.429	.199	.061	-1.333	100	1054	-.150	.046	.046	-.432	100	1104	-.122	.026	-.026	-.224
100	1005	.317	.151	.059	-1.148	100	1055	-.162	.049	.010	-.560	100	1105	-.124	.028	-.040	-.250
100	1006	.281	.122	.056	-.776	100	1056	-.160	.044	.032	-.519	100	1106	-.299	.124	-.033	-1.311
100	1007	.317	.134	.053	-.847	100	1057	-.137	.036	.049	-.300	100	1107	-.307	.144	-.042	-1.331
100	1008	.327	.139	.036	-.878	100	1058	-.135	.031	.042	-.257	100	1108	-.270	.127	-.055	-1.215
100	1009	.272	.124	.014	-.960	100	1059	-.149	.035	.024	-.279	100	1109	-.218	.089	-.034	-.856
100	1010	.208	.093	.008	-.674	100	1060	-.146	.034	.016	-.276	100	1110	-.192	.055	-.023	-.556
100	1011	.183	.069	.017	-.543	100	1061	-.385	.178	.075	-1.663	100	1111	-.196	.067	-.013	-.732
100	1012	.160	.047	-.007	-.409	100	1062	-.359	.154	.096	-1.261	100	1112	-.173	.064	-.058	-.528
100	1013	.150	.039	.015	-.354	100	1063	-.344	.150	.102	-1.279	100	1113	-.175	.055	-.011	-.595
100	1014	.151	.036	.010	-.384	100	1064	-.270	.103	.097	-.840	100	1114	-.160	.044	-.018	-.488
100	1015	.147	.037	.045	-.400	100	1065	-.207	.068	.043	-.549	100	1115	-.165	.045	-.037	-.402
100	1016	.478	.134	.149	-2.455	100	1066	-.169	.051	.090	-.663	100	1116	-.151	.038	-.016	-.330
100	1017	.502	.148	.090	-1.512	100	1067	-.179	.051	.078	-.430	100	1117	-.145	.033	-.018	-.274
100	1018	.380	.139	.053	-1.143	100	1068	-.169	.045	.024	-.482	100	1118	-.127	.025	-.045	-.223
100	1019	.358	.155	.143	-1.321	100	1069	-.159	.040	.022	-.311	100	1119	-.128	.027	-.024	-.231
100	1020	.291	.156	.047	-1.351	100	1070	-.139	.034	.019	-.282	100	1120	-.122	.030	-.041	-.256
100	1021	.296	.154	.052	-1.026	100	1071	-.154	.034	.019	-.318	100	1121	-.125	.030	-.042	-.245
100	1022	.307	.136	.010	-.987	100	1072	-.146	.030	.056	-.297	100	1122	-.119	.027	-.045	-.225

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	1123	.071	.025	.012	.177	100	2048	.075	.025	.021	.163	100	2098	.027	.045	.152	.241
100	1124	.070	.024	.016	.157	100	2049	.048	.031	.098	.190	100	2099	.003	.050	.209	.200
100	1125	.055	.020	.009	.133	100	2050	.024	.036	.127	.204	100	2100	.006	.045	.213	.194
100	2001	.131	.033	.005	.231	100	2051	.029	.047	.202	.240	100	2101	.006	.050	.237	.256
100	2002	.067	.032	.068	.261	100	2052	.077	.053	.158	.346	100	2102	.017	.056	.413	.212
100	2003	.050	.031	.075	.229	100	2053	.034	.086	.325	.402	100	2103	.002	.066	.355	.242
100	2004	.043	.028	.064	.211	100	2054	.099	.116	.576	.290	100	2104	.059	.068	.375	.312
100	2005	.069	.034	.067	.241	100	2055	.150	.123	.643	.256	100	2105	.081	.081	.515	.380
100	2006	.101	.038	.060	.300	100	2056	.103	.090	.452	.189	100	2106	.069	.026	.010	.168
100	2007	.208	.054	.013	.377	100	2057	.007	.071	.323	.231	100	2107	.057	.059	.331	.120
100	2008	.151	.056	.123	.396	100	2058	.065	.096	.432	.443	100	2108	.054	.023	.020	.147
100	2009	.024	.081	.316	.353	100	2059	.112	.109	.704	.433	100	2109	.177	.079	.003	.649
100	2010	.225	.116	.594	.293	100	2060	.141	.102	.478	.442	100	2110	.005	.042	.180	.170
100	2011	.351	.152	.886	.291	100	2061	.131	.028	.051	.244	100	2111	.089	.085	.486	.092
100	2012	.357	.152	.858	.376	100	2062	.092	.026	.020	.204	100	2112	.109	.078	.476	.048
100	2013	.261	.185	.819	.467	100	2063	.088	.027	.069	.185	100	2113	.021	.057	.286	.148
100	2014	.117	.166	.624	.434	100	2064	.050	.028	.050	.172	100	2114	.030	.036	.173	.151
100	2015	.167	.174	.819	.330	100	2065	.043	.037	.118	.200	100	2115	.065	.028	.038	.188
100	2016	.131	.026	.047	.218	100	2066	.031	.043	.125	.231	100	2116	.085	.036	.020	.295
100	2017	.096	.027	.005	.187	100	2067	.054	.031	.150	.414	100	2117	.009	.043	.227	.155
100	2018	.050	.030	.068	.169	100	2068	.008	.068	.278	.379	100	2118	.046	.050	.343	.102
100	2019	.028	.033	.149	.147	100	2069	.082	.114	.718	.351	100	2119	.060	.058	.315	.085
100	2020	.022	.030	.142	.142	100	2070	.102	.112	.632	.316	100	2120	.098	.058	.362	.064
100	2021	.070	.046	.156	.284	100	2071	.037	.079	.442	.247	100	2121	.066	.067	.468	.126
100	2022	.141	.061	.112	.389	100	2072	.052	.056	.148	.254	100	2122	.069	.070	.455	.136
100	2023	.110	.086	.200	.389	100	2073	.104	.085	.354	.363	100	2123	.037	.068	.414	.181
100	2024	.113	.090	.490	.176	100	2074	.132	.101	.556	.441	100	2124	.000	.058	.308	.199
100	2025	.299	.137	.745	.150	100	2075	.139	.097	.447	.443	100	2125	.065	.076	.471	.388
100	2026	.433	.173	1.031	.083	100	2076	.119	.023	.047	.208	100	2126	.032	.052	.391	.159
100	2027	.427	.194	1.082	.140	100	2077	.098	.024	.009	.195	100	2127	.038	.058	.288	.184
100	2028	.314	.174	.919	.176	100	2078	.061	.025	.057	.163	110	801	.300	.088	.050	.989
100	2029	.153	.175	.893	.323	100	2079	.048	.028	.062	.152	110	802	.303	.084	.000	.725
100	2030	.120	.167	.777	.323	100	2080	.049	.027	.069	.170	110	803	.284	.071	.069	.578
100	2031	.139	.031	.046	.268	100	2081	.052	.034	.059	.197	110	804	.173	.059	.032	.452
100	2032	.105	.025	.006	.185	100	2082	.056	.038	.086	.277	110	805	.074	.032	.043	.215
100	2033	.077	.028	.044	.170	100	2083	.009	.059	.268	.280	110	806	.078	.042	.052	.275
100	2034	.033	.031	.110	.170	100	2084	.051	.077	.399	.261	110	807	.047	.027	.059	.171
100	2035	.023	.037	.136	.178	100	2085	.046	.088	.506	.280	110	901	.546	.137	.062	-1.052
100	2036	.047	.045	.112	.269	100	2086	.010	.070	.415	.407	110	902	.149	.092	.250	.616
100	2037	.116	.069	.118	.473	100	2087	.041	.069	.239	.398	110	903	.062	.061	.133	.296
100	2038	.067	.093	.271	.502	100	2088	.064	.075	.351	.322	110	905	.150	.092	.175	.686
100	2039	.077	.109	.508	.311	100	2089	.103	.093	.432	.431	110	906	.180	.081	.052	.794
100	2040	.197	.126	.621	.172	100	2090	.106	.094	.476	.436	110	907	.295	.080	.053	.669
100	2041	.231	.142	.852	.109	100	2091	.094	.028	.041	.193	110	908	.480	.132	.092	-1.075
100	2042	.169	.127	.673	.212	100	2092	.045	.030	.112	.165	110	909	.509	.097	.197	.927
100	2043	.086	.130	.634	.240	100	2093	.017	.037	.166	.161	110	910	.663	.153	.223	-1.565
100	2044	.088	.120	.681	.423	100	2094	.027	.032	.113	.177	110	911	.492	.126	.048	-1.012
100	2045	.047	.140	.728	.451	100	2095	.046	.028	.058	.152	110	912	.136	.086	.192	.480
100	2046	.132	.030	.034	.246	100	2096	.014	.056	.233	.211	110	913	.189	.118	.071	.996
100	2047	.102	.028	.003	.223	100	2097	.012	.043	.171	.217	110	914	.247	.162	.250	.904

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	915	.142	.079	.116	-.6335	110	1040	-.259	.050	-.131	-.462	110	1090	-.159	.024	-.074	-.250
110	916	.196	.109	.141	-.7735	110	1041	-.237	.039	-.124	-.532	110	1091	-.361	.102	-.093	-.969
110	917	.322	.172	.192	-.9337	110	1042	-.198	.030	-.103	-.335	110	1092	-.364	.107	-.113	-1.233
110	918	.330	.166	-.1833	-1.0332	110	1043	-.199	.030	-.101	-.324	110	1093	-.369	.118	-.104	-1.770
110	919	.152	.071	-.0566	-.6233	110	1044	-.192	.030	-.100	-.340	110	1094	-.350	.091	-.104	-.853
110	921	.164	.095	.044	-.1033	110	1045	-.191	.032	-.102	-.312	110	1095	-.306	.085	-.029	-.687
110	922	.061	.044	.209	-.1833	110	1046	-.334	.103	-.058	-1.258	110	1096	-.269	.068	-.011	-.631
110	923	.060	.053	.140	-.3333	110	1047	-.364	.121	-.047	-1.350	110	1097	-.262	.064	-.058	-.531
110	924	.087	.048	.107	-.2966	110	1048	-.369	.117	-.038	-1.208	110	1098	-.231	.051	-.084	-.458
110	925	.027	.050	.266	-.170	110	1049	-.330	.080	-.024	-.804	110	1099	-.230	.050	-.081	-.488
110	926	.032	.027	.079	-.143	110	1050	-.311	.063	-.072	-.585	110	1100	-.209	.047	-.073	-.446
110	1001	-.343	.069	-.149	-.614	110	1051	-.309	.067	-.094	-.559	110	1101	-.182	.043	-.030	-.379
110	1002	-.338	.067	-.135	-.678	110	1052	-.299	.068	-.056	-.556	110	1102	-.165	.033	-.048	-.319
110	1003	-.384	.099	-.103	-1.004	110	1053	-.277	.066	-.052	-.623	110	1103	-.155	.033	-.029	-.274
110	1004	-.402	.133	.059	-1.250	110	1054	-.243	.053	-.049	-.533	110	1104	-.149	.033	-.024	-.273
110	1005	-.355	.162	.114	-1.240	110	1055	-.250	.050	-.096	-.701	110	1105	-.148	.035	-.021	-.319
110	1006	-.341	.148	.128	-1.155	110	1056	-.231	.041	-.103	-.436	110	1106	-.335	.100	-.079	-1.048
110	1007	-.340	.153	.086	-1.194	110	1057	-.212	.033	-.115	-.378	110	1107	-.334	.119	-.051	-1.347
110	1008	-.298	.129	.078	-.976	110	1058	-.178	.028	-.094	-.294	110	1108	-.339	.118	-.093	-1.209
110	1009	-.260	.087	.084	-.755	110	1059	-.190	.029	-.108	-.303	110	1109	-.327	.112	-.044	-1.071
110	1010	-.222	.057	.060	-.660	110	1060	-.183	.029	-.098	-.286	110	1110	-.285	.061	-.067	-.553
110	1011	-.222	.060	.038	-.750	110	1061	-.342	.101	-.106	-1.430	110	1111	-.285	.077	-.039	-.743
110	1012	-.191	.047	-.065	-.444	110	1062	-.332	.094	-.083	-1.128	110	1112	-.267	.082	-.070	-.791
110	1013	-.177	.048	-.022	-.444	110	1063	-.366	.103	-.131	-1.111	110	1113	-.268	.074	-.006	-.593
110	1014	-.159	.044	-.017	-.385	110	1064	-.363	.084	-.078	-.905	110	1114	-.253	.059	-.067	-.531
110	1015	-.178	.041	-.056	-.389	110	1065	-.323	.072	-.058	-.598	110	1115	-.234	.057	-.058	-.539
110	1016	-.343	.076	-.100	-.661	110	1066	-.287	.060	-.103	-.526	110	1116	-.211	.046	-.073	-.463
110	1017	-.353	.072	-.158	-.721	110	1067	-.293	.064	-.084	-.543	110	1117	-.198	.045	-.040	-.395
110	1018	-.351	.070	-.147	-.726	110	1068	-.269	.059	-.086	-.530	110	1118	-.179	.038	-.043	-.321
110	1019	-.396	.103	-.122	-.918	110	1069	-.253	.051	-.113	-.451	110	1119	-.159	.036	-.051	-.336
110	1020	-.375	.115	.044	-.924	110	1070	-.224	.043	-.115	-.435	110	1120	-.151	.033	-.051	-.312
110	1021	-.326	.106	.035	-.777	110	1071	-.230	.041	-.115	-.499	110	1121	-.150	.036	-.047	-.285
110	1022	-.282	.089	-.043	-.744	110	1072	-.208	.035	-.103	-.356	110	1122	-.151	.032	-.060	-.277
110	1023	-.252	.084	-.026	-.643	110	1073	-.189	.032	-.099	-.321	110	1123	-.054	.031	-.071	-.189
110	1024	-.259	.085	-.046	-.643	110	1074	-.163	.029	-.081	-.281	110	1124	-.051	.027	-.040	-.152
110	1025	-.247	.058	-.063	-.564	110	1075	-.179	.031	-.087	-.310	110	1125	-.041	.021	-.028	-.134
110	1026	-.207	.042	-.060	-.439	110	1076	-.349	.087	-.114	-1.135	110	2001	-.147	.038	-.017	-.343
110	1027	-.201	.037	-.061	-.432	110	1077	-.345	.092	-.075	-1.052	110	2002	-.083	.040	-.095	-.379
110	1028	-.185	.037	-.063	-.429	110	1078	-.358	.083	-.092	-.768	110	2003	-.062	.042	-.108	-.276
110	1029	-.185	.037	-.079	-.346	110	1079	-.360	.088	-.056	-.800	110	2004	-.058	.038	-.087	-.216
110	1030	-.167	.033	-.076	-.310	110	1080	-.328	.073	-.113	-.737	110	2005	-.071	.046	-.118	-.247
110	1031	-.336	.073	-.103	-.834	110	1081	-.301	.065	-.085	-.653	110	2006	-.090	.049	-.112	-.278
110	1032	-.342	.077	-.100	-.922	110	1082	-.288	.054	-.114	-.548	110	2007	-.159	.062	-.092	-.412
110	1033	-.354	.087	-.074	-.918	110	1083	-.263	.053	-.108	-.471	110	2008	-.071	.069	-.179	-.345
110	1034	-.347	.072	-.112	-.653	110	1084	-.239	.048	-.063	-.448	110	2009	-.104	.108	-.454	-.309
110	1035	-.348	.076	-.092	-.786	110	1085	-.221	.046	-.092	-.426	110	2010	-.253	.139	-.687	-.211
110	1036	-.320	.077	-.025	-.625	110	1086	-.209	.040	-.094	-.397	110	2011	-.318	.156	-.937	-.240
110	1037	-.314	.080	-.090	-.893	110	1087	-.183	.037	-.054	-.331	110	2012	-.268	.138	-.670	-.294
110	1038	-.278	.066	-.074	-.680	110	1088	-.164	.030	-.058	-.295	110	2013	-.172	.137	-.638	-.449
110	1039	-.278	.060	-.082	-.580	110	1089	-.158	.028	-.066	-.259	110	2014	-.021	.110	-.374	-.463

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	20655	.116	.127	.555	.417	110	20655	.002	.038	.222	-.124	110	2115	-.046	.032	.064	-.200
110	20656	.154	.026	.555	.240	110	20656	.021	.043	.239	-.228	110	2116	-.081	.041	.054	-.273
110	20657	.090	.034	.055	.444	110	20657	.003	.052	.244	-.263	110	2117	-.038	.049	.291	-.100
110	20658	.031	.042	.176	.189	110	20658	.066	.064	.731	-.158	110	2118	.102	.060	.379	-.054
110	20659	.004	.048	.204	.190	110	20659	.193	.130	.645	-.211	110	2119	.121	.065	.423	-.078
110	20660	.016	.045	.201	.131	110	20660	.231	.130	.789	-.216	110	2120	.159	.063	.472	-.008
110	20661	.005	.038	.233	.171	110	20661	.123	.094	.618	-.192	110	2121	.096	.063	.421	-.110
110	20662	.071	.238	.342	.342	110	20662	.017	.057	.221	-.264	110	2122	-.057	.059	.315	-.125
110	20663	.030	.097	.392	.324	110	20663	.098	.061	.142	-.369	110	2123	-.004	.053	.250	-.193
110	20664	.233	.592	.592	.133	110	20664	.132	.056	.181	-.372	110	2124	-.051	.048	.154	-.201
110	20665	.370	.149	.881	.039	110	20665	.159	.058	.076	-.451	110	2125	.121	.061	.107	-.365
110	20666	.431	.162	1.001	.061	110	20666	.140	.026	.054	-.225	110	2126	.073	.059	.321	-.158
110	20667	.375	.174	.939	.183	110	20667	.099	.025	.030	-.194	110	2127	.106	.071	.441	-.073
110	20668	.262	.134	.758	.162	110	20668	.045	.025	.076	-.133	120	801	-.354	.065	.168	-.647
110	20669	.113	.117	.455	.382	110	20669	.017	.027	.112	-.119	120	802	-.333	.059	.148	-.656
110	20670	.080	.111	.330	.350	110	20670	.011	.026	.098	-.093	120	803	-.315	.062	.133	-.625
110	20671	.170	.030	.063	.068	110	20671	.009	.032	.122	-.136	120	804	-.203	.084	.011	-.649
110	20672	.113	.027	.011	.200	110	20672	.017	.038	.144	-.187	120	805	-.046	.040	.092	-.240
110	20673	.039	.036	.066	.206	110	20673	.044	.053	.317	-.206	120	806	-.075	.055	.116	-.358
110	20674	.042	.210	.145	.145	110	20674	.131	.078	.464	-.146	120	807	.023	.034	.105	-.183
110	20675	.030	.045	.251	.117	110	20675	.146	.105	.645	-.211	120	901	-.540	.150	.111	-.271
110	20676	.027	.048	.232	.148	110	20676	.080	.086	.570	-.179	120	902	.181	.110	.244	-.006
110	20677	.013	.066	.232	.282	110	20677	.029	.071	.246	-.329	120	903	.121	.082	.129	-.327
110	20678	.070	.086	.380	.311	110	20678	.087	.061	.187	-.297	120	905	-.302	.140	.116	-.450
110	20679	.122	.122	.734	.195	110	20679	.134	.063	.095	-.469	120	906	-.325	.129	.103	-.164
110	20680	.331	.129	.840	.069	110	20680	.144	.062	.103	-.445	120	907	.416	.101	.069	-.025
110	20681	.333	.132	.762	.008	110	20681	-.096	.034	.053	-.228	120	908	.571	.128	.185	-.047
110	20682	.256	.135	.743	.128	110	20682	.025	.035	.151	-.136	120	909	.577	.105	.242	-.971
110	20683	.146	.117	.595	.178	110	20683	.022	.042	.210	-.087	120	910	.707	.173	.141	-.701
110	20684	.020	.087	.332	.244	110	20684	.008	.033	.147	-.102	120	911	.552	.132	.071	-.119
110	20685	.026	.093	.332	.244	110	20685	.018	.029	.121	-.129	120	912	.222	.111	.143	-.765
110	20686	.161	.030	.075	.277	110	20686	.081	.057	.336	-.090	120	913	.351	.131	.114	-.946
110	20687	.109	.028	.020	.204	110	20687	.035	.051	.305	-.184	120	914	-.446	.164	.138	-.035
110	20688	.081	.028	.081	.172	110	20688	.006	.051	.283	-.231	120	915	-.259	.116	.044	-.847
110	20689	.012	.037	.164	.148	110	20689	.034	.051	.256	-.232	120	916	-.373	.152	.056	-.908
110	20690	.027	.043	.229	.133	110	21000	.041	.047	.334	-.165	120	917	-.475	.168	.085	-.021
110	20691	.028	.049	.201	.162	110	21001	.019	.052	.331	-.226	120	918	-.523	.166	.152	-.923
110	20692	.007	.055	.180	.240	110	21002	.011	.055	.346	-.255	120	919	-.294	.125	.027	-.371
110	20693	.062	.079	.312	.350	110	21003	-.044	.063	.263	-.275	120	921	.255	.095	.617	-.007
110	20694	.226	.114	.704	.204	110	21004	-.106	.058	.230	-.285	120	922	-.054	.058	.279	-.143
110	20695	.284	.134	.913	.138	110	21005	.133	.069	.266	-.374	120	923	.010	.055	.161	-.285
110	20696	.198	.092	.546	.078	110	21006	-.054	.029	.066	-.172	120	924	.043	.048	.129	-.259
110	20697	.053	.078	.333	.233	110	21007	.147	.076	.426	-.050	120	925	.067	.051	.254	-.089
110	20698	.029	.078	.333	.244	110	21008	.041	.031	.088	-.201	120	926	-.007	.026	.094	-.131
110	20699	.066	.066	.333	.244	110	21009	.213	.103	.011	-.871	120	1001	-.343	.059	.164	-.680
110	20700	.132	.059	.204	.355	110	21100	.064	.052	.271	-.128	120	1002	-.334	.056	.166	-.678
110	20701	.158	.028	.060	.294	110	21101	.189	.109	.711	-.048	120	1003	-.368	.088	.105	-.908
110	20702	.100	.025	.022	.109	110	21102	.212	.099	.736	-.001	120	1004	-.383	.133	.023	-.148
110	20703	.053	.028	.095	.150	110	21103	.095	.072	.391	-.080	120	1005	-.378	.138	.004	-.217
110	20704	.017	.030	.134	.131	110	21104	.010	.042	.214	-.170	120	1006	-.358	.133	.015	-.283

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1007	.373	.139	.004	-1.287	120	1037	-.247	.039	-.126	-.406	120	1107	-.366	.072	-.188	-.879
120	1008	.344	.120	.015	-1.003	120	1058	-.218	.035	-.126	-.352	120	1108	-.324	.071	-.164	-.777
120	1009	.299	.104	-.038	-.969	120	1059	-.230	.038	-.128	-.400	120	1109	-.328	.073	-.164	-.695
120	1010	.290	.090	-.031	-.968	120	1060	-.224	.038	-.119	-.390	120	1110	-.280	.048	-.170	-.491
120	1011	.248	.081	-.059	-.883	120	1061	-.302	.051	-.119	-.686	120	1111	-.362	.057	-.231	-.640
120	1012	.242	.069	-.004	-.652	120	1062	-.289	.046	-.135	-.603	120	1112	-.330	.061	-.184	-.607
120	1013	.241	.083	-.012	-.607	120	1063	-.318	.050	-.161	-.595	120	1113	-.326	.063	-.164	-.626
120	1014	.222	.064	-.051	-.592	120	1064	-.333	.052	-.198	-.526	120	1114	-.301	.054	-.138	-.537
120	1015	.239	.059	-.077	-.453	120	1065	-.337	.048	-.171	-.562	120	1115	-.354	.066	-.079	-.638
120	1016	.312	.052	-.128	-.568	120	1066	-.319	.046	-.182	-.547	120	1116	-.268	.058	-.093	-.491
120	1017	.313	.050	-.124	-.549	120	1067	-.347	.055	-.156	-.625	120	1117	-.240	.056	-.064	-.475
120	1018	.300	.047	-.121	-.454	120	1068	-.334	.058	-.098	-.662	120	1118	-.189	.042	-.030	-.352
120	1019	.339	.072	-.084	-.939	120	1069	-.304	.056	-.126	-.569	120	1119	-.245	.049	-.043	-.511
120	1020	.344	.088	-.088	-.842	120	1070	-.264	.048	-.108	-.499	120	1120	-.196	.047	-.043	-.397
120	1021	.222	.093	-.097	-.799	120	1071	-.260	.045	-.091	-.467	120	1121	-.188	.047	-.038	-.425
120	1022	.331	.080	-.103	-.680	120	1072	-.235	.040	-.109	-.411	120	1122	-.168	.041	-.045	-.374
120	1023	.345	.083	-.073	-.697	120	1073	-.215	.038	-.112	-.366	120	1123	-.027	.034	-.145	-.160
120	1024	.293	.077	-.147	-.725	120	1074	-.191	.035	-.096	-.318	120	1124	-.017	.032	-.098	-.131
120	1025	.290	.063	-.128	-.610	120	1075	-.207	.037	-.112	-.349	120	1125	-.022	.025	-.060	-.142
120	1026	.236	.043	-.083	-.493	120	1076	-.300	.053	-.149	-.566	120	2001	-.218	.052	-.036	-.447
120	1027	.236	.045	-.070	-.453	120	1077	-.323	.054	-.160	-.508	120	2002	-.098	.056	-.137	-.407
120	1028	.228	.046	-.084	-.470	120	1078	-.309	.049	-.155	-.506	120	2003	-.069	.057	-.187	-.360
120	1029	.231	.047	-.079	-.415	120	1079	-.398	.062	-.219	-.671	120	2004	-.035	.049	-.179	-.268
120	1030	.222	.042	-.083	-.379	120	1080	-.353	.060	-.192	-.617	120	2005	-.097	.063	-.183	-.310
120	1031	.222	.030	-.161	-.532	120	1081	-.350	.057	-.162	-.573	120	2006	-.058	.067	-.241	-.276
120	1032	.222	.051	-.156	-.545	120	1082	-.332	.054	-.167	-.619	120	2007	-.094	.076	-.259	-.394
120	1033	.323	.048	-.183	-.531	120	1083	-.384	.067	-.221	-.740	120	2008	.040	.081	-.380	-.237
120	1034	.323	.044	-.194	-.488	120	1084	-.303	.058	-.125	-.577	120	2009	.141	.121	-.663	-.257
120	1035	.354	.051	-.217	-.519	120	1085	-.275	.050	-.097	-.530	120	2010	.261	.134	-.757	-.137
120	1036	.351	.054	-.205	-.517	120	1086	-.227	.039	-.086	-.357	120	2011	.234	.149	-.772	-.198
120	1037	.353	.058	-.169	-.576	120	1087	-.266	.043	-.142	-.600	120	2012	.124	.120	-.568	-.249
120	1038	.334	.054	-.155	-.531	120	1088	-.205	.042	-.093	-.501	120	2013	-.040	.127	-.430	-.435
120	1039	.338	.055	-.165	-.544	120	1089	-.194	.039	-.083	-.391	120	2014	-.121	.099	-.263	-.444
120	1040	.309	.051	-.138	-.577	120	1090	-.172	.034	-.071	-.335	120	2015	-.005	.117	-.576	-.403
120	1041	.273	.045	-.097	-.488	120	1091	-.367	.061	-.180	-.679	120	2016	-.163	.035	-.042	-.326
120	1042	.274	.037	-.130	-.375	120	1092	-.321	.059	-.142	-.644	120	2017	-.123	.049	-.081	-.318
120	1043	.244	.040	-.131	-.409	120	1093	-.328	.064	-.150	-.762	120	2018	-.001	.059	-.258	-.219
120	1044	.236	.040	-.121	-.404	120	1094	-.319	.060	-.174	-.655	120	2019	.050	.065	-.316	-.164
120	1045	.222	.038	-.122	-.368	120	1095	-.382	.064	-.216	-.765	120	2020	.090	.061	-.349	-.057
120	1046	.287	.045	-.139	-.520	120	1096	-.327	.060	-.172	-.597	120	2021	.050	.080	-.427	-.165
120	1047	.311	.049	-.145	-.607	120	1097	-.342	.062	-.181	-.604	120	2022	.061	.090	-.475	-.244
120	1048	.313	.050	-.147	-.584	120	1098	-.307	.056	-.150	-.585	120	2023	.161	.108	-.588	-.203
120	1049	.334	.046	-.205	-.501	120	1099	-.330	.063	-.102	-.719	120	2024	.348	.118	-.825	-.039
120	1050	.326	.044	-.203	-.481	120	1100	-.234	.056	-.014	-.483	120	2025	.401	.163	1.037	-.025
120	1051	.351	.050	-.158	-.526	120	1101	-.207	.049	-.089	-.437	120	2026	.394	.157	1.110	-.026
120	1052	.354	.054	-.163	-.520	120	1102	-.183	.039	-.045	-.383	120	2027	.204	.138	.710	-.129
120	1053	.355	.057	-.185	-.525	120	1103	-.242	.046	-.079	-.490	120	2028	.078	.100	.498	-.177
120	1054	.318	.050	-.157	-.526	120	1104	-.190	.046	-.061	-.384	120	2029	-.080	.091	.313	-.328
120	1055	.315	.049	-.107	-.526	120	1105	-.185	.048	-.003	-.401	120	2030	-.061	.084	.347	-.295
120	1056	.285	.045	-.105	-.458	120	1106	-.299	.058	-.150	-.612	120	2031	-.177	.036	-.048	-.353

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	2032	.097	.037	.073	-.255	120	2082	.035	.055	.305	-.159	130	805	-.028	.049	.278	-.142
120	2033	-.020	.050	.271	-.171	120	2083	.095	.064	.425	-.109	130	806	-.002	.059	.226	-.336
120	2034	.062	.057	.325	-.101	120	2084	.161	.069	.519	-.011	130	807	-.033	.044	.261	-.095
120	2035	.105	.066	.413	-.043	120	2085	.175	.095	.636	-.111	130	901	-.509	.155	.113	-1.188
120	2036	.117	.069	.387	-.049	120	2086	.114	.093	.760	-.142	130	902	-.255	.128	.351	-.700
120	2037	.097	.087	.424	-.137	120	2087	-.022	.069	.296	-.280	130	903	-.222	.111	.177	-.630
120	2038	.185	.098	.576	-.057	120	2088	-.111	.054	.116	-.413	130	905	-.444	.193	.253	-1.394
120	2039	.328	.124	.767	-.018	120	2089	-.146	.051	.071	-.314	130	906	-.464	.171	.023	-1.459
120	2040	.393	.134	.911	-.056	120	2090	-.156	.048	.061	-.319	130	907	-.471	.105	.062	-.955
120	2041	.326	.142	.813	-.007	120	2091	-.115	.046	.081	-.268	130	908	-.471	.120	.195	-.993
120	2042	.136	.108	.642	-.135	120	2092	-.017	.045	.236	-.138	130	909	-.573	.113	.272	-1.007
120	2043	-.001	.088	.352	-.294	120	2093	.054	.055	.380	-.084	130	910	-.693	.181	.186	-1.473
120	2044	.086	.061	.200	-.312	120	2094	.059	.044	.262	-.055	130	911	-.589	.130	.060	-1.073
120	2045	.123	.065	.223	-.374	120	2095	.026	.042	.252	-.088	130	912	-.347	.134	.161	-.888
120	2046	.181	.034	.065	-.321	120	2096	.156	.071	.440	-.025	130	913	-.436	.143	.072	-1.176
120	2047	.098	.037	.071	-.261	120	2097	.091	.054	.295	-.070	130	914	-.536	.158	.019	-1.224
120	2048	.027	.040	.126	-.147	120	2098	.064	.045	.216	-.140	130	915	-.392	.137	.032	-.999
120	2049	.046	.055	.250	-.106	120	2099	.094	.046	.284	-.128	130	916	-.481	.163	.101	-1.146
120	2050	.097	.064	.310	-.082	120	2100	.104	.050	.298	-.109	130	917	-.550	.160	.017	-1.240
120	2051	.106	.070	.380	-.072	120	2101	.073	.052	.327	-.118	130	918	-.522	.119	.105	-.942
120	2052	.084	.076	.356	-.166	120	2102	.003	.044	.264	-.149	130	919	-.474	.168	.002	-1.724
120	2053	.157	.098	.523	-.198	120	2103	.056	.043	.120	-.240	130	921	-.327	.120	.808	-.055
120	2054	.300	.117	.746	-.012	120	2104	.119	.038	.061	-.286	130	922	.159	.070	.343	-.049
120	2055	.350	.132	.954	-.025	120	2105	.143	.044	.090	-.319	130	923	.077	.064	.359	-.233
120	2056	.256	.106	.703	-.035	120	2106	.029	.035	.114	-.152	130	924	.031	.052	.204	-.178
120	2057	.043	.075	.375	-.212	120	2107	.181	.077	.464	-.047	130	925	.134	.062	.445	-.149
120	2058	.075	.059	.189	-.299	120	2108	.016	.034	.112	-.186	130	926	.019	.031	.147	-.107
120	2059	.116	.045	.076	-.257	120	2109	.212	.112	.068	-.724	130	1001	-.327	.059	.106	-.548
120	2060	.151	.040	.011	-.284	120	2110	.108	.052	.303	-.106	130	1002	-.319	.056	.107	-.546
120	2061	.171	.033	.055	-.309	120	2111	.212	.104	.761	-.016	130	1003	-.352	.085	.077	-.771
120	2062	.096	.034	.088	-.217	120	2112	.237	.096	.681	-.018	130	1004	-.367	.122	.029	-1.240
120	2063	.032	.039	.118	-.165	120	2113	.137	.074	.529	-.038	130	1005	-.361	.113	.109	-1.099
120	2064	.022	.041	.183	-.106	120	2114	.077	.048	.286	-.053	130	1006	-.344	.108	.033	-1.175
120	2065	.055	.051	.295	-.106	120	2115	.003	.040	.155	-.157	130	1007	-.372	.125	.028	-1.390
120	2066	.081	.059	.330	-.096	120	2116	-.066	.045	.074	-.323	130	1008	-.360	.129	.005	-1.163
120	2067	.080	.071	.378	-.151	120	2117	.086	.054	.324	-.064	130	1009	-.327	.108	.074	-1.394
120	2068	.139	.076	.531	-.094	120	2118	.192	.070	.496	-.024	130	1010	-.273	.076	.078	-.904
120	2069	.246	.100	.745	-.012	120	2119	.220	.085	.572	-.007	130	1011	-.283	.085	.000	-.792
120	2070	.280	.122	.780	-.012	120	2120	.263	.089	.657	.067	130	1012	-.291	.090	.026	-.752
120	2071	.202	.111	.675	-.081	120	2121	.182	.086	.608	-.050	130	1013	-.308	.097	.013	-.762
120	2072	.006	.070	.327	-.224	120	2122	.101	.068	.358	-.126	130	1014	-.279	.068	.033	-.750
120	2073	.114	.060	.136	-.348	120	2123	-.005	.059	.260	-.213	130	1015	-.295	.065	.075	-.552
120	2074	.139	.047	.047	-.309	120	2124	-.047	.042	.126	-.217	130	1016	-.328	.051	.161	-.516
120	2075	.160	.043	.071	-.306	120	2125	.125	.050	.078	-.320	130	1017	-.324	.056	.169	-.556
120	2076	.156	.032	.023	-.298	120	2126	.135	.061	.392	-.106	130	1018	-.312	.052	.146	-.578
120	2077	.095	.032	.054	-.220	120	2127	.151	.071	.452	-.095	130	1019	-.353	.075	.147	-.522
120	2078	.022	.034	.160	-.135	130	801	-.349	.061	.159	-.639	130	1020	-.349	.081	.109	-.915
120	2079	.018	.038	.179	-.083	130	802	-.329	.054	.149	-.567	130	1021	-.347	.080	.119	-.838
120	2080	.030	.038	.200	-.090	130	803	-.312	.050	.137	-.514	130	1022	-.339	.077	.148	-.703
120	2081	.039	.045	.266	-.118	130	804	-.112	.088	.160	-.519	130	1023	-.357	.087	.133	-.868

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1330	1022	.323	.079	.130	.803	1330	1074	.226	.043	.035	.433	1330	1124	.025	.041	.198	.140
1330	1022	.323	.061	.110	.636	1330	1075	.236	.048	.060	.474	1330	1125	.012	.032	.129	.173
1330	1022	.239	.049	.074	.501	1330	1076	.305	.049	.177	.478	1330	2001	.230	.060	.081	.476
1330	1022	.266	.050	.103	.474	1330	1077	.316	.043	.157	.466	1330	2002	.098	.071	.208	.408
1330	1028	.260	.048	.095	.443	1330	1078	.301	.038	.164	.423	1330	2003	.056	.077	.213	.516
1330	1029	.263	.052	.099	.464	1330	1079	.383	.049	.212	.579	1330	2004	.002	.067	.238	.291
1330	1030	.245	.047	.105	.411	1330	1080	.351	.052	.208	.593	1330	2005	.041	.085	.310	.320
1330	1031	.333	.046	.193	.527	1330	1081	.350	.056	.195	.593	1330	2006	.006	.089	.440	.238
1330	1032	.332	.046	.193	.520	1330	1082	.333	.055	.176	.602	1330	2007	.010	.091	.441	.302
1330	1033	.332	.048	.167	.487	1330	1083	.373	.066	.156	.685	1330	2008	.122	.094	.571	.191
1330	1034	.332	.046	.180	.490	1330	1084	.296	.057	.024	.546	1330	2009	.188	.136	.746	.257
1330	1035	.332	.051	.207	.564	1330	1085	.276	.056	.050	.512	1330	2010	.233	.142	.683	.137
1330	1036	.332	.053	.200	.572	1330	1086	.238	.043	.107	.435	1330	2011	.129	.133	.529	.300
1330	1037	.332	.056	.191	.586	1330	1087	.283	.050	.121	.491	1330	2012	.043	.099	.307	.401
1330	1038	.343	.056	.205	.621	1330	1088	.231	.046	.100	.442	1330	2013	.211	.100	.184	.567
1330	1039	.343	.059	.177	.599	1330	1089	.215	.050	.073	.476	1330	2014	.254	.081	.055	.580
1330	1040	.313	.053	.144	.530	1330	1090	.193	.043	.076	.416	1330	2015	.109	.093	.246	.402
1330	1041	.281	.048	.108	.539	1330	1091	.348	.052	.164	.604	1330	2016	.157	.042	.011	.337
1330	1042	.255	.044	.103	.479	1330	1092	.310	.049	.137	.548	1330	2017	.081	.066	.202	.322
1330	1043	.267	.047	.091	.495	1330	1093	.324	.050	.197	.545	1330	2018	.050	.080	.398	.218
1330	1044	.259	.046	.081	.467	1330	1094	.323	.049	.205	.554	1330	2019	.126	.088	.508	.119
1330	1045	.259	.043	.099	.419	1330	1095	.382	.059	.219	.655	1330	2020	.177	.082	.499	.078
1330	1046	.282	.038	.171	.424	1330	1096	.341	.061	.166	.625	1330	2021	.165	.105	.567	.164
1330	1047	.312	.040	.191	.460	1330	1097	.349	.073	.164	.716	1330	2022	.195	.111	.592	.112
1330	1048	.314	.040	.198	.467	1330	1098	.307	.067	.076	.619	1330	2023	.280	.128	.860	.066
1330	1049	.346	.047	.212	.557	1330	1099	.311	.070	.048	.574	1330	2024	.388	.131	.827	.046
1330	1050	.339	.047	.214	.524	1330	1100	.231	.060	.006	.546	1330	2025	.358	.168	.914	.106
1330	1051	.367	.054	.230	.659	1330	1101	.224	.057	.000	.538	1330	2026	.264	.158	.757	.144
1330	1052	.371	.059	.235	.724	1330	1102	.213	.050	.030	.495	1330	2027	.041	.125	.451	.319
1330	1053	.365	.060	.142	.643	1330	1103	.261	.054	.103	.481	1330	2028	.094	.082	.250	.344
1330	1054	.332	.052	.141	.522	1330	1104	.212	.054	.033	.396	1330	2029	.209	.065	.091	.431
1330	1055	.355	.050	.105	.495	1330	1105	.211	.057	.014	.416	1330	2030	.182	.061	.151	.386
1330	1056	.283	.046	.119	.485	1330	1106	.294	.050	.152	.521	1330	2031	.175	.041	.018	.316
1330	1057	.236	.043	.124	.458	1330	1107	.353	.058	.186	.632	1330	2032	.071	.049	.167	.224
1330	1058	.233	.040	.116	.381	1330	1108	.317	.057	.154	.600	1330	2033	.036	.069	.341	.148
1330	1059	.246	.043	.112	.423	1330	1109	.345	.057	.181	.605	1330	2034	.131	.081	.422	.079
1330	1060	.239	.042	.112	.413	1330	1110	.296	.042	.169	.471	1330	2035	.183	.085	.479	.036
1330	1061	.314	.048	.153	.464	1330	1111	.372	.052	.224	.554	1330	2036	.207	.090	.497	.025
1330	1062	.300	.044	.153	.438	1330	1112	.351	.056	.176	.568	1330	2037	.215	.106	.558	.076
1330	1063	.329	.048	.170	.492	1330	1113	.346	.057	.183	.690	1330	2038	.295	.124	.683	.036
1330	1064	.342	.050	.182	.502	1330	1114	.326	.054	.104	.602	1330	2039	.378	.138	.916	.013
1330	1065	.347	.049	.203	.521	1330	1115	.363	.068	.151	.640	1330	2040	.348	.137	.842	.020
1330	1066	.333	.050	.207	.558	1330	1116	.275	.058	.026	.497	1330	2041	.211	.140	.723	.235
1330	1067	.333	.060	.214	.650	1330	1117	.237	.051	.019	.428	1330	2042	.021	.109	.336	.371
1330	1068	.333	.063	.093	.640	1330	1118	.264	.042	.001	.401	1330	2043	.135	.073	.190	.445
1330	1069	.333	.056	.099	.533	1330	1119	.263	.056	.106	.547	1330	2044	.188	.046	.013	.334
1330	1070	.232	.047	.089	.433	1330	1120	.219	.051	.061	.598	1330	2045	.207	.047	.021	.355
1330	1071	.232	.046	.105	.455	1330	1121	.219	.060	.059	.586	1330	2046	.176	.042	.085	.325
1330	1072	.232	.043	.116	.427	1330	1122	.199	.052	.069	.504	1330	2047	.073	.049	.132	.235
1330	1073	.246	.047	.047	.521	1330	1123	.029	.052	.233	.161	1330	2048	.011	.054	.231	.140

APPENDIX A -- PRESSURE DATA

CONFIGURATION B) SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	2049	.104	.069	.411	-.081	130	2099	.118	.050	.337	-.064	140	916	-.514	.151	.076	-1.262
130	2050	.161	.077	.492	-.019	130	2100	.107	.053	.351	-.083	140	917	-.360	.143	.065	-1.128
130	2051	.191	.085	.503	-.008	130	2101	-.064	.060	.296	-.170	140	918	-.454	.123	.090	-1.004
130	2052	.185	.089	.514	-.051	130	2102	-.031	.055	.169	-.228	140	919	-.301	.122	.088	-1.693
130	2053	.260	.106	.714	-.009	130	2103	-.096	.045	.085	-.279	140	921	-.332	.121	.094	-.063
130	2054	.349	.121	.825	-.061	130	2104	-.154	.037	.006	-.281	140	922	-.226	.101	.090	.011
130	2055	.339	.130	.820	-.003	130	2105	-.164	.041	.012	-.297	140	923	-.194	.077	.068	-.086
130	2056	.185	.116	.596	-.422	130	2106	.025	.052	.312	-.134	140	924	-.106	.069	.365	-.123
130	2057	-.057	.097	.325	-.422	130	2107	.159	.080	.493	-.067	140	925	-.178	.077	.546	-.012
130	2058	-.178	.066	.073	-.424	130	2108	-.039	.050	.208	-.119	140	926	-.057	.042	.223	-.103
130	2059	-.186	.045	-.018	-.330	130	2109	-.082	.128	.314	-.718	140	1001	-.324	.058	.087	-.611
130	2060	-.218	.039	-.078	-.341	130	2110	.131	.057	.363	-.019	140	1002	-.322	.057	.123	-.739
130	2061	-.166	.044	.024	-.350	130	2111	.280	.117	.898	-.035	140	1003	-.355	.091	.081	-1.071
130	2062	-.071	.049	.148	-.303	130	2112	.286	.105	.849	-.021	140	1004	-.364	.113	.014	-1.258
130	2063	.012	.053	.276	-.134	130	2113	.220	.095	.600	-.023	140	1005	-.363	.107	.017	-.931
130	2064	.079	.057	.325	-.080	130	2114	.154	.081	.541	-.046	140	1006	-.337	.107	.053	-1.043
130	2065	.128	.068	.409	-.048	130	2115	.063	.059	.289	-.098	140	1007	-.381	.124	.009	-1.129
130	2066	.162	.074	.442	-.028	130	2116	-.004	.065	.248	-.275	140	1008	-.356	.113	.017	-1.264
130	2067	.166	.086	.514	-.118	130	2117	.129	.065	.450	-.028	140	1009	-.327	.095	.061	-.971
130	2068	.213	.092	.588	-.099	130	2118	.212	.081	.546	-.000	140	1010	-.298	.083	.044	-.748
130	2069	.272	.110	.759	-.007	130	2119	.234	.086	.633	-.016	140	1011	-.323	.102	.017	-.983
130	2070	.246	.122	.813	-.069	130	2120	.253	.093	.622	-.006	140	1012	-.331	.102	.014	-.810
130	2071	.120	.121	.589	-.181	130	2121	.167	.091	.584	-.052	140	1013	-.329	.092	.031	-.926
130	2072	-.087	.085	.277	-.368	130	2122	.071	.074	.397	-.103	140	1014	-.329	.068	.060	-.642
130	2073	.186	.063	.061	-.420	130	2123	-.049	.064	.240	-.258	140	1015	-.314	.067	.060	-.511
130	2074	.189	.043	.021	-.327	130	2124	.099	.043	.120	-.223	140	1016	-.304	.050	.151	-.422
130	2075	.202	.044	-.008	-.354	130	2125	.160	.048	.051	-.329	140	1017	-.324	.052	.143	-.576
130	2076	.162	.039	.030	-.315	130	2126	.143	.063	.378	-.124	140	1018	-.314	.050	.150	-.576
130	2077	.077	.040	.140	-.213	130	2127	.152	.074	.491	-.169	140	1019	-.349	.066	.158	-.685
130	2078	.006	.044	.218	-.115	140	801	-.340	.061	.166	-.540	140	1020	-.355	.071	.160	-.931
130	2079	.073	.048	.276	-.071	140	802	-.332	.057	.171	-.531	140	1021	-.339	.074	.141	-.677
130	2080	.089	.048	.291	-.032	140	803	-.303	.048	.147	-.549	140	1022	-.328	.070	.148	-.637
130	2081	.110	.056	.406	-.060	140	804	-.066	.097	.358	-.285	140	1023	-.343	.079	.160	-.687
130	2082	.114	.062	.439	-.086	140	805	.111	.067	.395	-.097	140	1024	-.318	.077	.121	-.703
130	2083	.155	.075	.517	-.069	140	806	.081	.074	.351	-.308	140	1025	-.308	.073	.080	-.733
130	2084	.178	.079	.524	-.008	140	807	.091	.056	.306	-.079	140	1026	-.285	.066	.098	-.628
130	2085	.153	.098	.567	-.074	140	901	-.440	.159	.248	-.082	140	1027	-.301	.065	.079	-.669
130	2086	.057	.097	.468	-.209	140	902	-.312	.134	.211	-.856	140	1028	-.291	.059	.111	-.505
130	2087	.104	.085	.393	-.368	140	903	-.254	.110	.204	-.762	140	1029	-.273	.055	.071	-.497
130	2088	.190	.057	.052	-.392	140	905	-.550	.207	.313	-.1744	140	1030	-.257	.049	.085	-.457
130	2089	.195	.045	-.007	-.348	140	906	-.574	.205	.011	-.946	140	1031	-.309	.049	.181	-.532
130	2090	.199	.042	.031	-.337	140	907	-.422	.095	.045	-.828	140	1032	-.309	.049	.179	-.544
130	2091	.115	.052	.104	-.295	140	908	-.540	.113	.182	-.068	140	1033	-.323	.047	.193	-.474
130	2092	.010	.055	.222	-.130	140	909	-.558	.112	.166	-.038	140	1034	-.321	.045	.200	-.520
130	2093	.109	.068	.365	-.050	140	910	-.623	.190	.054	-.546	140	1035	-.356	.051	.209	-.574
130	2094	.112	.053	.319	-.043	140	911	-.495	.123	.077	-.041	140	1036	-.360	.055	.179	-.565
130	2095	.100	.057	.316	-.048	140	912	-.408	.129	.002	-.950	140	1037	-.364	.061	.211	-.565
130	2096	.215	.084	.675	-.021	140	913	-.486	.150	.082	-.193	140	1038	-.345	.060	.125	-.635
130	2097	.127	.059	.406	-.103	140	914	-.552	.145	.065	-.274	140	1039	-.336	.060	.114	-.699
130	2098	.105	.052	.350	-.043	140	915	-.415	.127	.006	-.866	140	1040	-.305	.055	.090	-.547

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRNS	CPMAX	CPMIN
140	1041	.291	.037	.031	.571
140	1042	.269	.051	.139	.502
140	1043	.282	.054	.132	.533
140	1044	.282	.053	.111	.535
140	1045	.287	.048	.110	.533
140	1046	.294	.044	.168	.443
140	1047	.317	.047	.179	.473
140	1048	.318	.047	.179	.493
140	1049	.334	.043	.206	.463
140	1050	.332	.044	.191	.506
140	1051	.339	.031	.202	.562
140	1052	.363	.037	.197	.589
140	1053	.370	.063	.166	.609
140	1054	.322	.054	.089	.500
140	1055	.322	.054	.070	.505
140	1056	.293	.054	.130	.519
140	1057	.294	.054	.146	.542
140	1058	.290	.048	.121	.430
140	1059	.261	.052	.109	.493
140	1060	.253	.031	.100	.493
140	1061	.306	.046	.161	.463
140	1062	.296	.042	.161	.425
140	1063	.322	.043	.176	.470
140	1064	.340	.047	.176	.500
140	1065	.352	.050	.209	.578
140	1066	.341	.051	.148	.558
140	1067	.330	.062	.169	.600
140	1068	.353	.067	.128	.652
140	1069	.313	.061	.110	.642
140	1070	.272	.031	.100	.599
140	1071	.278	.038	.095	.632
140	1072	.266	.039	.118	.672
140	1073	.254	.032	.085	.501
140	1074	.230	.047	.057	.412
140	1075	.243	.051	.063	.447
140	1076	.299	.049	.142	.467
140	1077	.309	.047	.160	.503
140	1078	.393	.041	.172	.471
140	1079	.372	.034	.231	.633
140	1080	.352	.060	.185	.720
140	1081	.347	.039	.170	.634
140	1082	.329	.038	.146	.578
140	1083	.357	.068	.107	.635
140	1084	.282	.057	.067	.500
140	1085	.268	.061	.056	.515
140	1086	.247	.055	.087	.602
140	1087	.291	.066	.107	.764
140	1088	.245	.060	.063	.588
140	1089	.231	.061	.049	.468
140	1090	.206	.032	.036	.395

WD	TAP	CPMEAN	CPRNS	CPMAX	CPMIN
140	1091	.330	.032	.141	.511
140	1092	.303	.031	.116	.480
140	1093	.298	.045	.129	.503
140	1094	.298	.043	.151	.523
140	1095	.348	.053	.181	.642
140	1096	.318	.058	.143	.549
140	1097	.336	.075	.125	.675
140	1098	.284	.066	.063	.602
140	1099	.281	.067	.022	.516
140	1100	.231	.065	.060	.571
140	1101	.246	.071	.043	.678
140	1102	.234	.065	.073	.808
140	1103	.269	.068	.069	.828
140	1104	.228	.065	.036	.586
140	1105	.231	.070	.021	.711
140	1106	.287	.045	.127	.557
140	1107	.337	.052	.146	.655
140	1108	.313	.050	.131	.588
140	1109	.340	.034	.170	.583
140	1110	.286	.046	.130	.497
140	1111	.334	.036	.179	.620
140	1112	.347	.060	.168	.578
140	1113	.336	.037	.148	.574
140	1114	.310	.058	.127	.545
140	1115	.326	.074	.099	.652
140	1116	.245	.062	.031	.485
140	1117	.235	.060	.126	.578
140	1118	.288	.059	.073	.644
140	1119	.280	.069	.109	.697
140	1120	.238	.064	.075	.495
140	1121	.240	.069	.033	.734
140	1122	.218	.059	.047	.625
140	1123	.095	.066	.337	.132
140	1124	.090	.057	.367	.070
140	1125	.071	.043	.238	.145
140	2001	.206	.068	.067	.513
140	2002	.072	.085	.270	.444
140	2003	.017	.089	.442	.463
140	2004	.046	.078	.442	.267
140	2005	.024	.099	.392	.280
140	2006	.072	.103	.465	.292
140	2007	.034	.105	.449	.283
140	2008	.164	.102	.556	.191
140	2009	.178	.139	.682	.335
140	2010	.158	.138	.610	.407
140	2011	.066	.116	.416	.500
140	2012	.189	.084	.096	.609
140	2013	.328	.084	.052	.660
140	2014	.316	.074	.016	.571
140	2015	.192	.078	.102	.420

WD	TAP	CPMEAN	CPRNS	CPMAX	CPMIN
140	2016	.142	.052	.063	.348
140	2017	.027	.084	.298	.285
140	2018	.110	.100	.478	.212
140	2019	.210	.106	.558	.092
140	2020	.265	.097	.606	.013
140	2021	.271	.122	.732	.050
140	2022	.309	.127	.717	.050
140	2023	.362	.142	.818	.047
140	2024	.406	.138	.850	.044
140	2025	.301	.162	.890	.166
140	2026	.125	.140	.568	.282
140	2027	.134	.112	.331	.500
140	2028	.227	.068	.010	.478
140	2029	.278	.052	.112	.479
140	2030	.247	.050	.067	.449
140	2031	.152	.055	.051	.369
140	2032	.018	.068	.285	.239
140	2033	.107	.092	.498	.182
140	2034	.211	.104	.625	.051
140	2035	.283	.103	.716	.030
140	2036	.316	.103	.707	.055
140	2037	.338	.117	.763	.037
140	2038	.405	.125	.856	.059
140	2039	.404	.147	.917	.013
140	2040	.306	.146	.816	.132
140	2041	.102	.144	.624	.478
140	2042	.169	.113	.218	.589
140	2043	.264	.075	.013	.532
140	2044	.261	.043	.098	.399
140	2045	.262	.042	.109	.400
140	2046	.157	.049	.052	.421
140	2047	.031	.064	.291	.228
140	2048	.073	.070	.399	.122
140	2049	.179	.088	.513	.021
140	2050	.243	.096	.610	.008
140	2051	.271	.108	.688	.022
140	2052	.274	.109	.654	.011
140	2053	.327	.125	.768	.030
140	2054	.342	.136	.878	.023
140	2055	.245	.135	.799	.178
140	2056	.046	.119	.419	.321
140	2057	.195	.106	.190	.534
140	2058	.274	.072	.014	.548
140	2059	.249	.045	.049	.433
140	2060	.269	.039	.105	.423
140	2061	.159	.051	.100	.361
140	2062	.043	.057	.254	.229
140	2063	.064	.070	.452	.122
140	2064	.140	.075	.559	.025
140	2065	.196	.088	.649	.004

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	2066	.231	.095	.605	.020	140	2116	.133	.070	.457	-.131	150	1008	.329	.102	.005	-.747
140	2067	.243	.100	.640	.025	140	2117	.198	.081	.521	-.014	150	1009	.309	.097	.005	-1.071
140	2068	.277	.099	.622	.047	140	2118	.243	.091	.678	.033	150	1010	.297	.091	.005	-.715
140	2069	.285	.113	.680	.036	140	2119	.203	.083	.560	.011	150	1011	.321	.108	.080	-.653
140	2070	.202	.120	.695	.124	140	2120	.216	.086	.589	-.039	150	1012	.322	.103	.011	-.895
140	2071	.023	.114	.523	.280	140	2121	.090	.084	.462	-.097	150	1013	.328	.090	.028	-.911
140	2072	.220	.093	.174	.571	140	2122	.017	.071	.320	-.197	150	1014	.304	.067	.106	-.658
140	2073	.289	.073	.029	.360	140	2123	.121	.060	.151	-.307	150	1015	.315	.065	.103	-.589
140	2074	.247	.046	.063	.385	140	2124	.097	.037	.055	-.210	150	1016	.272	.049	.118	-.453
140	2075	.249	.045	.115	.421	140	2125	.189	.043	.024	-.327	150	1017	.278	.032	.128	-.540
140	2076	.164	.048	.018	.377	140	2126	.190	.067	.453	-.097	150	1018	.274	.049	.137	-.522
140	2077	.055	.049	.151	.252	140	2127	.150	.080	.476	-.254	150	1019	.301	.060	.116	-.551
140	2078	.043	.055	.283	.116	150	801	.288	.058	.131	-.582	150	1020	.307	.067	.114	-.572
140	2079	.107	.056	.305	.037	150	802	.280	.051	.128	-.533	150	1021	.310	.071	.005	-.676
140	2080	.129	.056	.341	.016	150	803	.265	.052	.078	-.464	150	1022	.368	.068	.071	-.592
140	2081	.150	.061	.423	.004	150	804	.118	.104	.450	-.281	150	1023	.318	.074	.081	-.701
140	2082	.155	.065	.423	.029	150	805	.139	.069	.524	-.056	150	1024	.298	.073	.071	-.727
140	2083	.176	.076	.513	.098	150	806	.134	.089	.512	-.156	150	1025	.287	.072	.043	-.690
140	2084	.164	.084	.540	.071	150	807	.136	.070	.556	-.055	150	1026	.278	.064	.089	-.548
140	2085	.106	.104	.549	.196	150	901	.362	.147	.289	-.967	150	1027	.286	.063	.103	-.605
140	2086	.015	.090	.454	.294	150	902	.327	.132	.277	-.812	150	1028	.274	.060	.096	-.574
140	2087	.194	.090	.211	.370	150	903	.306	.115	.089	-.897	150	1029	.274	.061	.095	-.568
140	2088	.262	.060	.025	.588	150	905	.333	.204	.171	-1.432	150	1030	.264	.055	.055	-.516
140	2089	.232	.045	.014	.422	150	906	.350	.194	.060	-1.647	150	1031	.273	.055	.134	-.418
140	2090	.230	.042	.053	.416	150	907	.409	.102	.113	-.944	150	1032	.273	.040	.136	-.406
140	2091	.108	.057	.131	.318	150	908	.475	.119	.136	-.992	150	1033	.286	.048	.143	-.505
140	2092	.039	.060	.285	.171	150	909	.496	.125	.133	-1.192	150	1034	.294	.047	.167	-.491
140	2093	.152	.076	.498	.063	150	910	.534	.196	.112	-1.326	150	1035	.322	.055	.183	-.563
140	2094	.162	.069	.403	.002	150	911	.460	.125	.077	-1.051	150	1036	.324	.059	.136	-.554
140	2095	.160	.073	.480	.011	150	912	.397	.120	.031	-.884	150	1037	.322	.065	.134	-.553
140	2096	.261	.098	.700	.062	150	913	.460	.135	.009	-1.275	150	1038	.303	.062	.143	-.553
140	2097	.153	.064	.447	.041	150	914	.509	.130	.101	-1.101	150	1039	.295	.061	.083	-.547
140	2098	.132	.061	.444	.060	150	915	.428	.126	.036	-1.015	150	1040	.282	.061	.029	-.585
140	2099	.124	.057	.350	.070	150	916	.485	.141	.032	-1.116	150	1041	.289	.065	.119	-.585
140	2100	.085	.058	.300	.086	150	917	.514	.140	.114	-1.109	150	1042	.271	.055	.135	-.531
140	2101	.019	.066	.282	.191	150	918	.388	.125	.071	-.924	150	1043	.272	.055	.112	-.563
140	2102	.095	.060	.157	.311	150	919	.517	.202	.072	-1.807	150	1044	.260	.056	.092	-.536
140	2103	.156	.049	.022	.334	150	921	.340	.124	.948	.014	150	1045	.253	.054	.088	-.503
140	2104	.194	.038	.071	.333	150	922	.270	.113	.864	.032	150	1046	.258	.043	.141	-.450
140	2105	.193	.041	.051	.332	150	923	.233	.082	.529	-.011	150	1047	.275	.046	.161	-.476
140	2106	.088	.057	.293	.092	150	924	.156	.079	.451	-.087	150	1048	.278	.046	.157	-.486
140	2107	.134	.078	.432	.149	150	925	.211	.084	.536	-.024	150	1049	.288	.045	.171	-.477
140	2108	.153	.052	.337	.016	150	926	.076	.041	.211	-.069	150	1050	.295	.048	.163	-.511
140	2109	.065	.106	.353	.471	150	1001	.000	.064	.054	-.577	150	1051	.310	.056	.134	-.565
140	2110	.159	.067	.472	.156	150	1002	.280	.064	.084	-.577	150	1052	.307	.062	.121	-.599
140	2111	.315	.128	.966	.005	150	1003	.309	.092	.032	-.877	150	1053	.304	.064	.069	-.544
140	2112	.344	.109	.772	.066	150	1004	.313	.094	.067	-.969	150	1054	.271	.054	.076	-.597
140	2113	.275	.105	.656	.014	150	1005	.326	.101	.066	-1.327	150	1055	.276	.061	.081	-.770
140	2114	.227	.109	.698	.022	150	1006	.318	.090	.041	-1.157	150	1056	.272	.062	.116	-.648
140	2115	.154	.067	.464	.077	150	1007	.338	.098	.056	-.900	150	1057	.280	.064	.128	-.579

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1058	237	.034	.089	.351
150	1059	239	.037	.065	.320
150	1060	249	.036	.051	.304
150	1061	266	.046	.134	.449
150	1062	263	.041	.141	.437
150	1063	285	.045	.152	.473
150	1064	307	.048	.148	.518
150	1065	307	.038	.173	.618
150	1066	298	.037	.100	.597
150	1067	311	.066	.112	.638
150	1068	282	.066	.022	.554
150	1069	239	.060	.021	.544
150	1070	257	.066	.051	.774
150	1071	278	.074	.105	.792
150	1072	263	.063	.109	.599
150	1073	247	.037	.080	.561
150	1074	230	.051	.078	.489
150	1075	236	.055	.070	.525
150	1076	253	.048	.130	.412
150	1077	260	.030	.100	.470
150	1078	252	.043	.105	.413
150	1079	317	.054	.134	.564
150	1080	310	.058	.098	.565
150	1081	303	.064	.084	.594
150	1082	281	.062	.046	.532
150	1083	287	.070	.013	.538
150	1084	251	.065	.047	.616
150	1085	255	.065	.035	.559
150	1086	253	.060	.077	.571
150	1087	277	.066	.075	.606
150	1088	242	.062	.030	.529
150	1089	236	.071	.037	.694
150	1090	213	.060	.042	.538
150	1091	276	.055	.095	.455
150	1092	264	.054	.096	.427
150	1093	280	.052	.124	.484
150	1094	281	.052	.114	.484
150	1095	309	.061	.063	.387
150	1096	286	.064	.074	.519
150	1097	276	.071	.067	.598
150	1098	227	.059	.034	.515
150	1099	240	.063	.015	.496
150	1100	237	.073	.006	.604
150	1101	265	.082	.046	.795
150	1102	242	.069	.082	.915
150	1103	264	.076	.041	.861
150	1104	237	.071	.018	.573
150	1105	234	.068	.000	.563
150	1106	250	.046	.100	.404
150	1107	296	.033	.124	.462

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1108	277	.052	.127	.469
150	1109	302	.051	.161	.524
150	1110	246	.043	.072	.404
150	1111	299	.049	.146	.501
150	1112	304	.053	.142	.505
150	1113	285	.060	.095	.493
150	1114	253	.058	.023	.482
150	1115	259	.066	.020	.525
150	1116	225	.065	.006	.558
150	1117	248	.078	.031	.898
150	1118	248	.073	.091	.792
150	1119	282	.087	.090	.097
150	1120	249	.080	.055	.943
150	1121	240	.078	.003	.734
150	1122	220	.067	.011	.637
150	1123	109	.064	.337	.315
150	1124	106	.061	.311	.264
150	1125	089	.048	.273	.091
150	2001	139	.080	.214	.482
150	2002	003	.102	.490	.393
150	2003	053	.112	.560	.386
150	2004	113	.097	.490	.218
150	2005	105	.116	.513	.265
150	2006	147	.118	.534	.306
150	2007	122	.118	.571	.229
150	2008	200	.110	.561	.178
150	2009	167	.134	.582	.251
150	2010	089	.127	.550	.270
150	2011	088	.111	.558	.505
150	2012	277	.075	.048	.639
150	2013	371	.074	.124	.754
150	2014	313	.071	.043	.585
150	2015	247	.067	.045	.505
150	2016	088	.061	.149	.293
150	2017	060	.102	.470	.309
150	2018	191	.120	.650	.234
150	2019	249	.130	.714	.067
150	2020	300	.117	.683	.013
150	2021	315	.142	.810	.029
150	2022	348	.146	.838	.040
150	2023	399	.154	.894	.007
150	2024	363	.133	.754	.036
150	2025	192	.144	.713	.212
150	2026	034	.123	.422	.464
150	2027	297	.104	.103	.659
150	2028	329	.062	.131	.543
150	2029	304	.050	.134	.494
150	2030	272	.050	.096	.469
150	2031	121	.066	.127	.362
150	2032	030	.081	.308	.202

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	2033	166	.109	.555	.121
150	2034	273	.121	.676	.040
150	2035	309	.131	.781	.027
150	2036	334	.129	.753	.035
150	2037	356	.141	.794	.004
150	2038	384	.141	.825	.023
150	2039	359	.153	.968	.029
150	2040	197	.133	.724	.197
150	2041	040	.129	.581	.626
150	2042	306	.113	.164	.807
150	2043	350	.080	.094	.697
150	2044	291	.046	.145	.506
150	2045	272	.045	.124	.425
150	2046	125	.059	.123	.377
150	2047	017	.081	.352	.206
150	2048	123	.090	.489	.080
150	2049	227	.109	.651	.031
150	2050	282	.115	.719	.034
150	2051	303	.116	.732	.001
150	2052	309	.115	.743	.009
150	2053	343	.129	.870	.009
150	2054	307	.131	.765	.086
150	2055	184	.141	.697	.381
150	2056	059	.128	.346	.475
150	2057	306	.120	.067	.693
150	2058	346	.080	.091	.668
150	2059	269	.045	.132	.479
150	2060	277	.039	.149	.448
150	2061	126	.063	.173	.423
150	2062	002	.071	.402	.295
150	2063	081	.074	.425	.118
150	2064	153	.079	.530	.025
150	2065	207	.091	.694	.024
150	2066	239	.097	.712	.039
150	2067	259	.105	.622	.011
150	2068	273	.109	.693	.011
150	2069	243	.130	.722	.150
150	2070	120	.132	.585	.360
150	2071	066	.124	.392	.465
150	2072	299	.106	.088	.693
150	2073	326	.079	.100	.645
150	2074	250	.048	.084	.444
150	2075	241	.044	.101	.411
150	2076	150	.052	.076	.405
150	2077	036	.055	.314	.227
150	2078	060	.057	.457	.098
150	2079	133	.067	.413	.057
150	2080	154	.067	.413	.047
150	2081	174	.072	.457	.050
150	2082	174	.075	.510	.072

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	8006	.197	.086	.571	.030	160	8006	.208	.093	.585	-.113	160	1025	-.295	.093	-.052	-.879
160	8007	.138	.097	.540	-.140	160	8007	.160	.077	.492	-.142	160	1026	-.291	.087	-.027	-.826
160	8008	.078	.114	.476	-.284	160	9001	-.301	.133	.288	-.858	160	1027	-.293	.087	-.033	-.734
160	8009	.115	.115	.461	-.461	160	9002	-.341	.136	.159	-1.079	160	1028	-.283	.086	-.061	-.701
160	8010	.236	.089	.115	.560	160	9003	-.343	.121	.180	-.920	160	1029	-.271	.073	-.041	-.701
160	8011	.238	.047	.039	.559	160	9005	-.513	.187	-.031	-1.421	160	1030	-.264	.066	-.071	-.593
160	8012	.236	.046	.069	.401	160	9006	-.511	.184	-.117	-1.615	160	1031	-.237	.049	-.099	-.426
160	8013	.238	.044	.047	.377	160	9007	-.401	.090	-.150	-.823	160	1032	-.234	.048	-.100	-.421
160	8014	.103	.062	.334	.360	160	9008	-.417	.100	-.115	-.890	160	1033	-.239	.047	-.086	-.467
160	8015	.034	.065	.143	.140	160	9009	-.434	.115	-.127	-1.046	160	1034	-.250	.048	-.133	-.582
160	8016	.173	.091	.538	.045	160	9101	-.431	.183	-.175	-1.310	160	1035	-.271	.053	-.123	-.616
160	8017	.184	.072	.429	.010	160	9111	-.437	.122	-.030	-1.079	160	1036	-.268	.053	-.105	-.571
160	8018	.186	.076	.483	.000	160	9122	-.384	.113	-.086	-.967	160	1037	-.272	.055	-.060	-.584
160	8019	.273	.093	.662	.061	160	9133	-.451	.133	-.127	-1.159	160	1038	-.264	.059	-.073	-.593
160	8020	.163	.065	.409	.038	160	9144	-.453	.123	-.085	-1.212	160	1039	-.276	.072	-.099	-.703
160	8021	.133	.058	.428	.030	160	9155	-.429	.122	-.050	-.899	160	1040	-.279	.076	-.080	-.766
160	8022	.101	.062	.448	.094	160	9166	-.447	.127	-.073	-1.063	160	1041	-.289	.078	-.097	-.794
160	8023	.043	.058	.303	.173	160	9177	-.455	.129	-.094	-1.016	160	1042	-.273	.071	-.104	-.603
160	8024	.030	.063	.206	.274	160	9188	-.320	.136	-.178	-.828	160	1043	-.271	.075	-.067	-.769
160	8025	.139	.062	.284	.391	160	9199	-.531	.185	-.145	-1.932	160	1044	-.257	.070	-.053	-.636
160	8026	.182	.032	.031	.362	160	9211	-.347	.129	-.926	.073	160	1045	-.248	.066	-.015	-.742
160	8027	.201	.041	.027	.355	160	9222	-.332	.123	1.069	.052	160	1046	-.228	.040	-.102	-.330
160	8028	.191	.045	.016	.344	160	9233	-.272	.084	.667	.019	160	1047	-.240	.042	-.112	-.370
160	8029	.114	.069	.373	.259	160	9244	-.216	.080	.577	-.009	160	1048	-.243	.043	-.107	-.374
160	8030	.138	.071	.379	.288	160	9255	-.240	.087	.646	.078	160	1049	-.253	.047	-.114	-.354
160	8031	.167	.058	.373	.333	160	9266	-.085	.052	.292	-.176	160	1050	-.257	.046	-.139	-.521
160	8032	.120	.058	.338	.390	160	10001	-.240	.061	.009	-.556	160	1051	-.262	.049	-.112	-.449
160	8033	.172	.068	.477	.130	160	10002	-.240	.059	-.014	-.510	160	1052	-.256	.052	-.103	-.537
160	8034	.310	.133	.897	.000	160	10003	-.262	.082	.029	-1.124	160	1053	-.260	.055	-.054	-.480
160	8035	.228	.114	.890	.062	160	10004	-.269	.085	.007	-.683	160	1054	-.256	.056	-.076	-.560
160	8036	.113	.112	.795	.009	160	10005	-.291	.096	.016	-.766	160	1055	-.277	.071	-.116	-.662
160	8037	.248	.114	.827	.012	160	10006	-.295	.091	-.003	-.795	160	1056	-.278	.077	-.082	-.743
160	8038	.173	.063	.419	.014	160	10007	-.311	.101	-.009	-1.019	160	1057	-.261	.064	-.090	-.526
160	8039	.177	.067	.534	.134	160	10008	-.307	.105	-.000	-.871	160	1058	-.246	.057	-.078	-.532
160	8040	.224	.082	.566	.049	160	10009	-.297	.106	.003	-.929	160	1059	-.245	.061	-.063	-.633
160	8041	.259	.094	.616	.059	160	1010	-.297	.107	.032	-.962	160	1060	-.235	.059	-.062	-.553
160	8042	.204	.087	.555	.049	160	1011	-.317	.119	.086	-1.052	160	1061	-.217	.044	-.071	-.385
160	8043	.183	.099	.552	.043	160	1012	-.319	.118	.041	-1.194	160	1062	-.218	.041	-.084	-.367
160	8044	.099	.099	.474	.180	160	1013	-.327	.113	.182	-.953	160	1063	-.236	.044	-.090	-.384
160	8045	.133	.066	.334	.289	160	1014	-.312	.086	.071	-.933	160	1064	-.250	.049	-.147	-.441
160	8046	.179	.042	.606	.334	160	1015	-.314	.080	-.078	-.765	160	1065	-.260	.048	-.097	-.509
160	8047	.179	.046	.606	.334	160	1016	-.234	.054	-.067	-.445	160	1066	-.250	.045	-.100	-.449
160	8048	.169	.059	.589	.276	160	1017	-.230	.047	-.073	-.428	160	1067	-.255	.049	-.090	-.475
160	8049	.138	.039	.333	.038	160	1018	-.230	.044	-.084	-.424	160	1068	-.240	.051	-.064	-.461
160	8050	.138	.039	.333	.038	160	1019	-.250	.052	-.090	-.466	160	1069	-.232	.062	-.016	-.522
160	8051	.234	.056	.070	.423	160	1020	-.255	.057	-.080	-.551	160	1070	-.269	.068	-.058	-.533
160	8052	.231	.056	.070	.423	160	1021	-.272	.065	-.067	-.550	160	1071	-.283	.073	-.105	-.564
160	8053	.223	.044	.089	.400	160	1022	-.273	.061	-.047	-.543	160	1072	-.259	.065	-.091	-.537
160	8054	.173	.079	.152	.152	160	1023	-.282	.068	-.023	-.620	160	1073	-.239	.066	-.028	-.517
160	8055	.147	.065	.460	.075	160	1024	-.276	.072	-.060	-.734	160	1074	-.224	.058	-.032	-.477

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	1075	.228	.062	.038	.302	160	1125	.090	.054	.314	.127	160	2050	.286	.110	.793	.031
160	1076	.208	.048	.073	.412	160	2001	.112	.109	.319	.771	160	2051	.320	.118	.792	.001
160	1077	.219	.043	.064	.413	160	2002	.065	.128	.484	.517	160	2052	.322	.116	.760	.003
160	1078	.223	.038	.105	.382	160	2003	.054	.135	.608	.475	160	2053	.322	.129	.818	.023
160	1079	.253	.048	.119	.467	160	2004	.111	.111	.617	.279	160	2054	.227	.128	.813	.237
160	1080	.250	.051	.044	.446	160	2005	.127	.130	.562	.359	160	2055	.076	.122	.527	.341
160	1081	.246	.052	.092	.529	160	2006	.167	.131	.625	.214	160	2056	.183	.112	.190	.568
160	1082	.235	.046	.084	.483	160	2007	.178	.133	.703	.244	160	2057	.393	.122	.002	.863
160	1083	.229	.051	.036	.471	160	2008	.225	.118	.715	.157	160	2058	.379	.089	.100	.749
160	1084	.230	.062	.020	.494	160	2009	.144	.130	.636	.262	160	2059	.252	.050	.104	.532
160	1085	.256	.079	.032	.750	160	2010	.010	.115	.417	.386	160	2060	.246	.041	.116	.406
160	1086	.258	.065	.093	.584	160	2011	.192	.095	.227	.512	160	2061	.112	.058	.146	.338
160	1087	.250	.067	.074	.624	160	2012	.363	.077	.135	.657	160	2062	.008	.063	.299	.204
160	1088	.229	.065	.063	.561	160	2013	.393	.083	.131	.697	160	2063	.110	.076	.327	.171
160	1089	.221	.069	.026	.658	160	2014	.292	.081	.008	.670	160	2064	.183	.081	.609	.039
160	1090	.210	.058	.025	.443	160	2015	.240	.062	.000	.480	160	2065	.241	.097	.604	.019
160	1091	.229	.053	.076	.445	160	2016	.069	.071	.252	.328	160	2066	.269	.102	.623	.010
160	1092	.228	.052	.073	.436	160	2017	.086	.104	.509	.274	160	2067	.291	.116	.685	.010
160	1093	.226	.051	.080	.432	160	2018	.200	.119	.770	.169	160	2068	.285	.118	.729	.003
160	1094	.235	.050	.107	.528	160	2019	.288	.132	.779	.078	160	2069	.213	.126	.711	.104
160	1095	.232	.054	.083	.483	160	2020	.342	.120	.760	.027	160	2070	.056	.120	.505	.331
160	1096	.220	.056	.020	.520	160	2021	.363	.148	.900	.086	160	2071	.147	.124	.329	.638
160	1097	.212	.055	.043	.462	160	2022	.384	.154	.947	.068	160	2072	.357	.118	.030	.774
160	1098	.189	.050	.011	.347	160	2023	.391	.167	.982	.069	160	2073	.342	.091	.081	.684
160	1099	.209	.067	.045	.502	160	2024	.293	.133	.812	.079	160	2074	.232	.050	.081	.550
160	1100	.233	.078	.006	.723	160	2025	.082	.132	.669	.307	160	2075	.219	.040	.090	.383
160	1101	.260	.083	.062	.672	160	2026	.168	.115	.250	.596	160	2076	.131	.051	.061	.427
160	1102	.244	.066	.091	.554	160	2027	.383	.106	.037	.790	160	2077	.009	.055	.284	.209
160	1103	.244	.075	.038	.600	160	2028	.370	.068	.152	.667	160	2078	.087	.063	.433	.103
160	1104	.230	.073	.049	.558	160	2029	.280	.054	.071	.488	160	2079	.155	.077	.524	.032
160	1105	.223	.074	.034	.780	160	2030	.247	.053	.061	.434	160	2080	.179	.078	.566	.004
160	1106	.210	.041	.065	.354	160	2031	.104	.078	.275	.506	160	2081	.193	.084	.668	.012
160	1107	.223	.047	.059	.390	160	2032	.039	.080	.411	.274	160	2082	.184	.085	.630	.021
160	1108	.227	.046	.078	.431	160	2033	.167	.100	.663	.121	160	2083	.152	.085	.594	.080
160	1109	.256	.052	.069	.538	160	2034	.273	.114	.736	.086	160	2084	.068	.081	.435	.178
160	1110	.204	.041	.058	.356	160	2035	.331	.125	.852	.001	160	2085	.028	.099	.370	.386
160	1111	.230	.047	.088	.417	160	2036	.357	.121	.842	.061	160	2086	.164	.116	.286	.547
160	1112	.239	.055	.097	.446	160	2037	.380	.135	.892	.027	160	2087	.304	.106	.182	.594
160	1113	.229	.055	.025	.395	160	2038	.384	.140	.966	.002	160	2088	.316	.068	.023	.528
160	1114	.205	.049	.058	.375	160	2039	.278	.137	.685	.083	160	2089	.216	.046	.035	.383
160	1115	.205	.054	.019	.412	160	2040	.068	.115	.444	.324	160	2090	.199	.041	.050	.362
160	1116	.209	.065	.003	.541	160	2041	.176	.116	.275	.627	160	2091	.087	.061	.166	.418
160	1117	.231	.070	.043	.732	160	2042	.402	.111	.004	.773	160	2092	.059	.060	.339	.128
160	1118	.230	.065	.086	.695	160	2043	.389	.085	.152	.664	160	2093	.165	.073	.523	.028
160	1119	.238	.083	.052	.128	160	2044	.281	.048	.149	.482	160	2094	.182	.066	.459	.004
160	1120	.225	.082	.004	.871	160	2045	.244	.046	.088	.422	160	2095	.208	.078	.515	.011
160	1121	.233	.075	.030	.616	160	2046	.113	.068	.299	.429	160	2096	.281	.101	.755	.042
160	1122	.220	.064	.001	.507	160	2047	.025	.073	.387	.225	160	2097	.164	.070	.461	.021
160	1123	.100	.075	.575	.351	160	2048	.124	.077	.468	.085	160	2098	.109	.053	.347	.098
160	1124	.091	.068	.433	.217	160	2049	.229	.098	.711	.033	160	2099	.076	.059	.361	.176

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	2100	.009	.057	.260	-.178	160	2110	.181	.073	.481	-.078	160	2119	.168	.090	.522	-.060
160	2101	-.068	.063	.244	-.290	160	2111	.335	.129	.944	.048	160	2120	-.098	.080	.471	-.156
160	2102	-.168	.061	.188	-.365	160	2112	.337	.113	.867	.095	160	2121	-.020	.082	.397	-.273
160	2103	-.192	.049	-.006	-.464	160	2113	.301	.108	.747	.058	160	2122	-.115	.069	.252	-.330
160	2104	-.180	.037	-.032	-.358	160	2114	.307	.110	.811	.071	160	2123	-.188	.063	.057	-.420
160	2105	-.163	.041	-.011	-.343	160	2115	.187	.072	.447	-.037	160	2124	-.150	.039	.007	-.320
160	2106	.103	.065	.399	-.136	160	2116	.185	.070	.443	-.106	160	2125	-.184	.047	-.019	-.397
160	2107	.162	.076	.456	-.146	160	2117	.204	.079	.497	-.016	160	2126	.144	.067	.376	-.173
160	2108	.155	.064	.478	-.092	160	2118	.237	.107	.733	.010	160	2127	.141	.080	.416	-.231
160	2109	.177	.088	.472	-.350												

APPENDIX A -- PRESSURE DATA:

CONFIGURATION C: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
00	906	-.196	.156	.350	-.727
00	1007	-.031	.094	.438	-.246
00	1008	-.056	.109	.375	-.512
00	2007	-.316	.104	.051	-.823
00	2008	-.337	.120	.071	-.979
00	2009	-.368	.123	.034	-.148
00	2015	-.418	.113	-.132	-.143
00	2074	-.403	.124	-.081	-.332
22	906	-.162	.152	.383	-.330
22	1007	-.013	.101	.408	-.439
22	1008	-.082	.111	.447	-.652
22	2007	-.295	.114	.083	-.152
22	2008	-.335	.135	.142	-.297
22	2009	-.360	.135	.072	-.633
22	2015	-.460	.137	.163	-.211
22	2074	-.426	.127	.143	-.273
44	906	-.173	.169	.376	-.813
44	1007	-.025	.093	.345	-.324
44	1008	-.126	.109	.285	-.610
44	2007	-.295	.117	.097	-.988
44	2008	-.331	.138	.128	-.478
44	2009	-.353	.138	.053	-.245
44	2015	-.563	.173	.149	-.777
44	2074	-.448	.154	.036	-.234
66	906	-.174	.168	.448	-.777
66	1007	-.021	.090	.326	-.347
66	1008	-.136	.107	.263	-.622
66	2007	-.288	.118	.054	-.811
66	2008	-.305	.141	.143	-.047
66	2009	-.328	.142	.148	-.222
66	2015	-.617	.192	.206	-.562
66	2074	-.480	.175	.021	-.860
88	906	-.168	.177	.400	-.069
88	1007	-.023	.086	.331	-.318
88	1008	-.149	.100	.226	-.556
88	2007	-.272	.126	.179	-.722
88	2008	-.287	.143	.165	-.380
88	2009	-.300	.131	.072	-.943
88	2015	-.725	.253	.167	-.090
88	2074	-.526	.207	.033	-.088
10	906	-.157	.168	.507	-.761
10	1007	-.024	.084	.371	-.300
10	1008	-.145	.099	.222	-.576
10	2007	-.239	.111	.043	-.899
10	2008	-.260	.127	.232	-.319
10	2009	-.277	.124	.058	-.173
10	2015	-.818	.260	.158	-.044
10	2074	-.551	.218	.137	-.147
12	906	-.146	.168	.394	-.749
12	1007	-.023	.085	.388	-.441

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
12	1008	-.148	.097	.324	-.792
12	2007	-.216	.108	.267	-.1478
12	2008	-.236	.110	.131	-.1239
12	2009	-.273	.112	.046	-.852
12	2015	-.888	.285	-.033	-.2587
12	2074	-.586	.255	.125	-.2485
14	906	-.147	.174	.407	-.912
14	1007	-.026	.087	.367	-.484
14	1008	-.157	.098	.247	-.645
14	2007	-.205	.091	.033	-.1080
14	2008	-.223	.099	-.033	-.808
14	2009	-.315	.144	.014	-.1068
14	2015	-.971	.342	.200	-.2999
14	2074	-.605	.267	.270	-.2229
16	906	-.130	.162	.486	-.813
16	1007	-.023	.094	.429	-.320
16	1008	-.147	.099	.320	-.658
16	2007	-.190	.082	.048	-.910
16	2008	-.216	.092	.022	-.859
16	2009	-.342	.157	-.017	-.1195
16	2015	-.917	.345	.303	-.3851
16	2074	-.577	.287	.204	-.1939
18	906	-.118	.150	.366	-.833
18	1007	-.026	.098	.421	-.363
18	1008	-.145	.103	.233	-.643
18	2007	-.181	.073	.017	-.729
18	2008	-.203	.081	-.056	-.672
18	2009	-.409	.181	-.033	-.1263
18	2015	-.835	.328	.264	-.2319
18	2074	-.503	.298	.466	-.1802
20	906	-.110	.144	.433	-.692
20	1007	-.021	.107	.394	-.495
20	1008	-.151	.112	.390	-.951
20	2007	-.177	.070	.098	-.606
20	2008	-.210	.089	-.004	-.696
20	2009	-.468	.207	-.097	-.1318
20	2015	-.734	.330	.460	-.2790
20	2074	-.439	.298	.348	-.698
22	906	-.099	.133	.374	-.648
22	1007	-.000	.109	.501	-.739
22	1008	-.174	.116	.414	-.889
22	2007	-.177	.069	.029	-.546
22	2008	-.225	.110	-.052	-.857
22	2009	-.488	.221	-.063	-.1494
22	2015	-.632	.341	.394	-.2358
22	2074	-.353	.305	.420	-.1772
24	906	-.093	.125	.400	-.530
24	1007	-.013	.100	.402	-.416
24	1008	-.179	.109	.229	-.687
24	2007	-.173	.066	.017	-.825

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
24	2008	-.259	.129	-.004	-.1078
24	2009	-.353	.226	-.076	-.1624
24	2015	-.596	.343	.453	-.1923
24	2074	-.293	.289	.348	-.1745
26	906	-.089	.123	.370	-.700
26	1007	-.026	.100	.352	-.444
26	1008	-.202	.112	.309	-.1084
26	2007	-.199	.082	.033	-.737
26	2008	-.370	.218	.001	-.1454
26	2009	-.734	.308	-.147	-.2175
26	2015	-.557	.372	.458	-.1762
26	2074	-.243	.304	.428	-.1548
28	906	-.080	.120	.415	-.591
28	1007	-.038	.094	.322	-.401
28	1008	-.212	.109	.211	-.737
28	2007	-.238	.123	.031	-.1049
28	2008	-.484	.275	.026	-.1733
28	2009	-.793	.299	-.219	-.2129
28	2015	-.468	.367	.458	-.1582
28	2074	-.166	.268	.512	-.1528
30	906	-.068	.122	.401	-.601
30	1007	-.056	.086	.310	-.445
30	1008	-.244	.103	.085	-.788
30	2007	-.376	.205	.005	-.1434
30	2008	-.795	.366	.045	-.2218
30	2009	-.949	.339	-.287	-.2387
30	2015	-.348	.354	.529	-.1625
30	2074	-.149	.263	.408	-.1531
32	906	-.065	.117	.438	-.605
32	1007	-.071	.075	.257	-.417
32	1008	-.257	.095	.085	-.775
32	2007	-.555	.292	.071	-.2032
32	2008	-.142	.451	-.148	-.2764
32	2009	-.986	.356	-.301	-.2517
32	2015	-.275	.332	.524	-.1363
32	2074	-.097	.248	.583	-.1600
34	906	-.061	.104	.355	-.454
34	1007	-.091	.067	.182	-.398
34	1008	-.267	.089	.060	-.744
34	2007	-.790	.320	-.031	-.1866
34	2008	-.1458	.443	.317	-.2863
34	2009	-.013	.315	.361	-.2611
34	2015	-.187	.310	.585	-.1621
34	2074	-.092	.257	.500	-.1251
36	906	-.063	.096	.435	-.383
36	1007	-.103	.061	.202	-.512
36	1008	-.283	.082	.103	-.687
36	2007	-.943	.360	-.115	-.2136
36	2008	-.1436	.483	-.260	-.3051
36	2009	-.922	.275	-.386	-.2518

APPENDIX A -- PRESSURE DATA:

CONFIGURATION C: SUN GAS BUILDING, DALLAS

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
36	2015	-.096	.274	.491	-1.358	50	906	-.076	.076	.307	-.224	216	1008	-.696	.282	-.061	-1.837
36	2074	-.020	.229	.603	-1.205	50	1007	-.187	.043	.011	-.415	216	2007	-.100	.075	-.238	-.363
38	906	-.063	.087	.301	-.411	50	1008	-.331	.080	-.136	-.739	216	2008	-.304	.080	-.004	-.597
38	1007	-.125	.055	.143	-.379	50	2007	-1.108	.355	-.289	-2.458	216	2009	-.429	.093	-.173	-.771
38	1008	-.292	.076	.036	-.667	50	2008	-.868	.278	-.270	-2.262	216	2015	-.249	.110	.056	-.973
38	2007	-1.124	.339	.131	-2.428	50	2009	-.694	.157	-.335	-1.502	216	2074	-.183	.069	.029	-.678
38	2008	-1.301	.428	.315	-2.900	50	2015	.162	.149	.653	-.473	216	906	-1.327	.294	-.393	-2.472
38	2009	-.812	.214	.377	-2.175	50	2074	.244	.136	.763	-.327	218	1007	-.366	.188	-.059	-1.289
38	2015	-.034	.243	.555	-1.188	52	906	-.086	.074	.320	-.199	218	1008	-.790	.296	-.103	-2.189
38	2074	-.003	.213	.537	-1.116	52	1007	-.188	.043	.001	-.343	218	2007	-.108	.071	-.175	-.415
40	906	-.050	.084	.308	-.411	52	1008	-.315	.055	-.151	-.543	218	2008	-.300	.077	-.013	-.553
40	1007	-.128	.054	.074	-.333	52	2007	-1.001	.364	-.201	-2.430	218	2009	-.405	.084	-.195	-.730
40	1008	-.286	.073	.091	-.607	52	2008	-.740	.241	-.249	-2.117	218	2015	-.224	.099	.058	-.920
40	2007	-1.145	.347	.314	-2.333	52	2009	-.654	.156	-.284	-1.462	218	2074	-.158	.064	.059	-.526
40	2008	-1.237	.430	.306	-3.046	52	2015	.190	.148	.643	-.316	220	906	-1.347	.312	-.344	-2.371
40	2009	-.758	.190	.335	-2.048	52	2074	.264	.141	.902	-.258	220	1007	-.323	.255	-.073	-1.582
40	2015	-.030	.199	.539	-1.179	54	906	-.091	.067	.312	-.145	220	1008	-.920	.351	-.031	-2.510
40	2074	-.039	.185	.536	-.891	54	1007	-.201	.042	-.037	-.355	220	2007	-.116	.070	.154	-.367
42	906	-.028	.083	.308	-.375	54	1008	-.319	.057	-.135	-.568	220	2008	-.293	.072	.010	-.673
42	1007	-.145	.051	.106	-.376	54	2007	-.881	.333	-.195	-2.023	220	2009	-.388	.083	-.138	-.723
42	1008	-.290	.071	.032	-.598	54	2008	-.668	.198	-.246	-1.990	220	2015	-.266	.092	.063	-.810
42	2007	-1.179	.393	.152	-2.436	54	2009	-.621	.148	-.286	-1.350	220	2074	-.162	.055	.031	-.519
42	2008	-1.185	.422	.229	-3.042	54	2015	.194	.144	.636	-.247	222	906	-1.357	.292	-.435	-2.536
42	2009	-.739	.163	.562	-1.884	54	2074	.291	.130	.729	-.172	222	1007	-.695	.283	-.115	-1.730
42	2015	.064	.187	.565	-1.394	56	906	-.090	.062	.326	-.134	222	1008	-1.005	.353	-.224	-2.456
42	2074	-.081	.178	.597	-.719	56	1007	-.209	.039	-.022	-.348	222	2007	-.124	.084	-.199	-.326
44	906	-.010	.084	.326	-.411	56	1008	-.321	.052	-.171	-.499	222	2008	-.312	.073	-.036	-.637
44	1007	-.147	.048	.072	-.327	56	2007	-.785	.286	-.139	-2.141	222	2009	-.402	.082	-.203	-.759
44	1008	-.294	.067	.068	-.611	56	2008	-.649	.190	-.179	-1.633	222	2015	-.196	.092	.082	-.689
44	2007	-1.220	.373	.345	-2.657	56	2009	-.620	.150	-.268	-1.378	222	2074	-.165	.060	.041	-.534
44	2008	-1.115	.397	.358	-2.851	56	2015	.220	.145	.694	-.220	224	906	-1.318	.337	-.096	-2.450
44	2009	-.718	.150	.344	-2.016	56	2074	.312	.145	.865	-.094	224	1007	-.788	.355	-.123	-1.972
44	2015	.112	.164	.581	-.822	212	906	-1.219	.276	.487	-2.329	224	1008	-.975	.397	-.176	-2.380
44	2074	-.138	.163	.690	-.834	212	1007	-.185	.059	-.029	-.601	224	2007	-.131	.061	-.115	-.363
46	906	-.022	.084	.332	-.411	212	1008	-.426	.202	-.032	-1.263	224	2008	-.311	.072	-.064	-.573
46	1007	-.152	.043	.111	-.293	212	2007	-.077	.077	-.032	-.322	224	2009	-.390	.083	-.179	-.735
46	1008	-.278	.062	.049	-.541	212	2008	-.265	.082	-.092	-.644	224	2015	-.177	.082	.109	-.841
46	2007	-1.154	.362	.294	-2.740	212	2009	-.399	.089	-.183	-.792	224	2074	-.159	.059	.015	-.589
46	2008	-1.010	.379	.284	-2.721	212	2015	-.263	.107	.018	-.812	226	906	-1.399	.333	-.222	-2.504
46	2009	-.694	.143	.355	-1.438	212	2074	-.180	.069	.022	-.698	226	1007	-1.010	.342	-.226	-.300
46	2015	.154	.143	.681	-.584	214	906	-1.291	.299	-.520	-2.613	226	1008	-1.083	.366	-.141	-2.603
46	2074	-.181	.146	.629	-.560	214	1007	-.238	.102	-.036	-.956	226	2007	-.144	.057	-.133	-.350
48	906	-.050	.080	.358	-.256	214	1008	-.604	.275	-.030	-1.753	226	2008	-.310	.063	-.105	-.556
48	1007	-.154	.041	.048	-.326	214	2007	-.095	.077	-.256	-.347	226	2009	-.377	.076	-.182	-.839
48	1008	-.271	.055	.105	-.550	214	2008	-.282	.079	-.038	-.577	226	2015	-.163	.080	.073	-.806
48	2007	-1.091	.352	.148	-2.571	214	2009	-.412	.085	-.142	-.787	226	2074	-.150	.058	.110	-.540
48	2008	-.845	.303	.292	-2.371	214	2015	-.262	.169	.030	-.814	228	906	-1.274	.325	-.031	-2.461
48	2009	-.637	.138	.326	-1.467	214	2074	-.182	.066	.000	-.598	228	1007	-1.062	.363	-.255	-2.214
48	2015	.157	.147	.711	-.717	216	906	-1.315	.288	-.293	-2.481	228	1008	-.917	.373	-.246	-2.436
48	2074	.206	.142	.699	-.549	216	1007	-.284	.133	-.029	-1.052	228	2007	-.148	.055	.060	-.325

APPENDIX A -- PRESSURE DATA

CONFIGURATION C) SUN GAS BUILDING, DALLAS

WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN
228	2008	-.308	.068	-.070	-.588
228	2009	-.371	.080	-.164	-.900
228	2015	-.149	.077	-.070	-.568
228	2074	-.142	.053	-.065	-.384
230	906	-1.148	.335	-.006	-2.274
230	1007	-1.034	.363	-.283	-2.510
230	1008	-.941	.361	-.211	-2.475
230	2007	-.147	.053	-.088	-.355
230	2008	-.310	.062	-.063	-.550
230	2009	-.365	.072	-.145	-.700
230	2015	-.138	.063	-.086	-.567
230	2074	-.138	.048	-.008	-.370
232	906	-1.135	.345	-.017	-2.309
232	1007	-1.143	.360	-.312	-2.517
232	1008	-.950	.339	-.241	-2.468
232	2007	-.164	.051	-.027	-.385
232	2008	-.305	.063	-.103	-.543
232	2009	-.356	.069	-.165	-.705
232	2015	-.125	.058	-.044	-.381
232	2074	-.127	.046	-.022	-.335
234	906	-1.002	.319	-.004	-2.083
234	1007	-1.063	.333	-.302	-2.333
234	1008	-.870	.301	-.257	-2.349

WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN
234	2007	-.169	.053	-.036	-.360
234	2008	-.307	.061	-.121	-.527
234	2009	-.352	.068	-.151	-.736
234	2015	-.122	.053	-.056	-.366
234	2074	-.121	.045	-.038	-.358
236	906	-.885	.316	-.015	-2.150
236	1007	-1.033	.356	-.278	-2.353
236	1008	-.837	.297	-.192	-2.231
236	2007	-.174	.050	-.062	-.337
236	2008	-.303	.065	-.120	-.548
236	2009	-.346	.073	-.159	-.713
236	2015	-.115	.046	-.037	-.331
236	2074	-.112	.044	-.012	-.342
238	906	-.855	.283	-.015	-1.994
238	1007	-1.027	.316	-.197	-2.380
238	1008	-.825	.270	-.185	-2.181
238	2007	-.184	.048	-.092	-.339
238	2008	-.305	.067	-.119	-.570
238	2009	-.345	.076	-.132	-.672
238	2015	-.110	.039	-.013	-.344
238	2074	-.105	.042	-.052	-.388
240	906	-.787	.258	-.028	-1.702
240	1007	-.958	.306	-.266	-2.691

WD	TAP	CPNEAN	CPRNS	CPMAX	CPMIN
240	1008	-.821	.238	-.203	-2.254
240	2007	-.186	.047	-.024	-.333
240	2008	-.306	.061	-.139	-.528
240	2009	-.365	.071	-.178	-.639
240	2015	-.143	.037	-.013	-.294
240	2074	-.094	.041	-.021	-.435
242	906	-.746	.227	-.004	-1.582
242	1007	-.821	.257	-.220	-1.932
242	1008	-.748	.241	-.166	-1.814
242	2007	-.189	.046	-.032	-.350
242	2008	-.307	.068	-.097	-.503
242	2009	-.365	.083	-.156	-.680
242	2015	-.147	.038	-.001	-.304
242	2074	-.095	.039	-.043	-.312
244	906	-.765	.218	-.086	-1.452
244	1007	-.750	.228	-.208	-1.955
244	1008	-.718	.242	-.173	-1.810
244	2007	-.199	.045	-.040	-.336
244	2008	-.321	.068	-.136	-.540
244	2009	-.385	.088	-.168	-.751
244	2015	-.154	.037	-.028	-.333
244	2074	-.097	.037	-.036	-.407