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NAVAL POSTGRADUATE SCHOOL MONTEREY, CALIFORNIA



THESIS

A COMPARISON OF EQUITABLE PER DIEM POLICIES FOR UNITS DEPLOYED TO U.S. BASES

by

Daniel B. Limberg

December, 1995

Principal Advisor: Associate Advisor: Katchan Terasawa Jerry McCaffery

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Findings include that savings can be achieved by adopting the Rations In Kind policy, while still maintaining a high quality of life for the travelers. With the reduction in the DoN budget, some action is required to bridge the predicted shortfall between available funding and the budget needed to fully support the travel requirements. This study recommends that AIRPAC's Smart TAD test be modified and expanded to ensure that travel funds are available to support future operational commitments and readiness.

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A COMPARISON OF EQUITABLE PER DIEM POLICIES FOR UNITS DEPLOYED TO U.S. BASES

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Lieutenant, United States Navy
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Submitted in partial fulfillment of the requirements for the degree of

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TABLE OF CONTENTS

I. INTROD	UCTIO	N	
A.	PUR	POSE,	LIMITATIONS AND ASSUMPTIONS
B.	ME1	THOD (OF RESEARCH
C.	THE	SIS OR	GANIZATION
II. BACKG	ROUNI	D	5
A.	OPE	RATIO	NAL COMMITMENTS VS. QUALITY OF LIFE 5
	1.	Need	s of the Type Commanders
	2.	Need	s of the Individual Travelers
B.	SQU	ADRON	DEPLOYMENTS TO OVERSEAS BASES
C.	PRO	GRAM!	S FOR RATION PROVISIONS 8
	I.	Lodg	ings Plus Per Diem
	2.	AJRP	AC's Smart TAD Program
		a.	Galley Facilities
		b.	Missed Meals
	3.	Trave	Reengineering Recommendations
		a.	Deployment Travel
		b.	Training Travel
		c.	Business Travel

ш.	RESEAR	CH NII	THOD	JLUGI .			
	A.	ANAI	YSIS C	F THE LO	ODGINGS	PLUS PER DIE	M
	B.	ANAI	YSIS C	F AIRPA	C'S SMAR	T TAD PROGR	AM 13
	C.	ANAI	YSIS	OF	THE	TRAVEL	REENGINEERING
		RECO	MMEN	DATIONS	S		14
	D.	FINA	NCIAL	MPLICA	TIONS OF	AIRPAC'S SM	ART TAD PROGRAM
		1.	Effects	on the Ty	pe Comma	nders	15
		2.	Effects	on the De	eployed Per	sonnel	16
		3.	Effects	on Galley	Operation	s	16
		4.	Effects	on Moral	e, Welfare	and Recreation	Activities 16
IV.	TRAVEI	L FUNI	DING A	NALYSIS			19
	A.	PER I	DIEM F	UNDING	FORECAS	TING (PDFF) N	MODEL 19
	B.	DIRE	CT PER	DIEM EF	FFECTS		
		1.	Per Di	em Payme	nts		23
		2.	Galley	Operation	ıs		24
			a.	NAS Fall	on		25
			b.	NAVSUI	PPFAC Die	go Garcia	26
			C.	Misawa A	AFB		27
		3.	Missed	Meals .			
			a.	NAS Fall	lon		28

			b.	NAVSUPPFAC Diego Garcia
			C.	Misawa AFB
		4.	PDFF	Model Utilization
			a.	Galley Preference Effect on Alternative Policies 31
			b.	Galley Cost Effect on Alternative Policies
			C.	Missed Meal Effect on Alternative Policies
		5.	"What	If" Simulations
	C.	INDI	RECT P	ER DIEM EFFECTS
		l.	Morai	e, Welfare, and Recreation Activities
			a.	NAS Fallon
			b.	NAVSUPPFAC Diego Garcia
			c.	Misawa AFB
		2.	Base (Operating Expenses
		3.	Milita	ry Construction Requirements
		4.	Other	Expenses
	D.	NET S	SAVIN	GS44
V. C	ONCLU	SIONS		47
	A.	THE (CURRE	NT TRAVEL FUNDING PROCESS
		1.	AIRP	AC's Smart TAD Program
			a.	MWR Activities
			b.	Missed Meals

	B.	THE FUTURE TRAVEL PROCESS	49
	C.	ADAPTATIONS FOR REGULAR UNIT DEPLOYMENTS	50
	D.	RECOMMENDATIONS	51
	E.	FUTURE THESIS TOPICS	52
LIST	OF REF	ERENCES	53
BIBLI	OGRA	PHY	55
APPE	NDIX /	A. POM FUNDING FOR PER DIEM	57
APPE	NDIX I	3. PDFF MODEL	59
APPE	NDIX (PER DIEM FORECASTS	67
APPE	NDIX I	D. GALLEY OPERATIONS	69
APPE	NDIX I	E. MISSED MEAL ESTIMATES	73
APPE	NDIX	F. MWR OPERATIONS	75
APPE	NDIY	S NET SAVINGS	77

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I. INTRODUCTION

Travel funding is a necessity for the military if it is to maintain its readiness and forward presence. As overall defense spending levels have decreased, travel funding levels have been reduced accordingly. However, the operational demands placed upon the military have not decreased accordingly. With regional conflicts erupting from the instability following the Cold War, the necessity for forward deployed units has increased. Senator William Cohen, R-Maine, stated that "we are faced with a choice of reducing our commitment or reducing capability. ...We're over committed and under funded" [Ref. 1]. Type Commanders are faced with difficult choices between mission accomplishment and operational readiness. Mission accomplishment is often given a higher priority than individual training opportunities. Therefore, the deployment of forces to U.S. overseas bases requires an ever increasing share of the decreasing travel budget, and training opportunities are lost.

Forward presence is a requirement for the Navy. With Army and Air Force units returning to the continental United States, the Navy is required to support a larger portion of the forward presence and deterrence roles. However, the Navy's appropriated per diem funding will decrease by over \$40 million (20%) between FY94 and FY97 [Ref. 2]. With declining funds to support the growing number of forward deployed units, the Navy must reexamine its travel policy options to ensure that the mission is accomplished and the quality of life for service members is not compromised. The military must evaluate alternatives to providing these personnel adequate food and lodging.

While the national interest may be affected by a smaller forward presence, operational readiness is affected when travel funds are not available for advanced schooling. Travel funds are used to send military personnel away from their permanent duty station for schooling. For enlisted personnel, this includes advanced training within their rating, enhancing their ability to perform their duties and their potential for advancement. For officers, training will enhance their professional knowledge and enable them to hold billets in more departments during their squadron tours.

A. PURPOSE, LIMITATIONS AND ASSUMPTIONS

The travel funding program must consider both the needs of the travel member and ability of the unit to accomplish its mission. The two requirements must be balanced to achieve an optimal funding program. Furthermore, the funding program must be easily understandable, simple to implement, and compatible with the recommendations of the Department of Defense (DoD) Task Force to Reengineer Travel.

This thesis will examine alternative per diem methods for providing the traveler of deployed units with the meals portion of per diem. While it cannot focus on all of the effects of changing the amount of per diem paid to the traveler, the thesis will address the effects on the Type Commander, government messing facilities, morale, welfare and recreation (MWR) activities and the individual traveler.

The scope will be limited further to a comparison of the current Lodgings Plus per diem method, AIRPAC's Smart TAD program, and the recommendations of the DoD Task Force to Reengineer Travel. The intent is to help develop a cost-effective and equitable travel reimbursement program for routine overseas deployments.

The validity of the analysis is limited by the accuracy of the available government messing accounting information. The general cost information is provided by the contractor of the government messing facilities, but is not independently verifiable. A further limitation is the uncertainty concerning the actual number of meals missed because of operational requirements. Best estimates will be made based on interviews with senior squadron personnel at each of the bases.

B. METHOD OF RESEARCH

To help develop a cost efficient and equitable travel reimbursement program, the most promising alternatives must be examined. The best features of each program may then lead to formulation of the optimal program. Information will be gathered from available reports, interviews with personnel currently working on this issue, interviews with the travel members, a questionnaire concerning the travelers' opinions about Smart TAD, and an analysis of financial reports on galley and MWR operations at key installations.

C. THESIS ORGANIZATION

The first chapter outlines the need to examine the travel funding programs. The second chapter will define the needs of the Type Commander and individual traveler. The most promising travel programs (current and future) used by the DoD will be described, including AIRPAC's Smart TAD and the recommendations of the DoD Task Force to Reengineer Travel. The method of research and important analysis elements will be identified in Chapter III. The analysis of the major programs will then be completed in Chapter IV. The fifth chapter describes a program which will satisfy the travelers' needs, meet the Type Commanders' commitments, preserve the quality of life programs at supporting bases, and be compatible with the travel reengineering objectives. Preliminary implementation recommendations will also be made.

II. BACKGROUND

To enable the Department of Defense (DoD) to provide for the common defense of the United States, military personnel are forward deployed to protect the country's vital interests. The DoD spends \$3.5 billion annually on travel costs in support of this mission. The Navy spent almost \$200 million in per diem during FY94 to fund its forward deployment and training requirements [Ref. 3]

To manage this travel program, the Joint Federal Travel Regulations (JFTR) specifies the travel-related policies. The individual services then supplement these policies with service-specific policies. This has resulted in a travel system that is complex and often frustrating for the user [Ref. 4]. The myriad of regulations was intended to prevent abuses of the system which might waste public funds. The DoD Task Force to Reengineer Travel has recommended changes to the system to simplify the regulations and give Type Commanders greater flexibility in the allocation of resources. It is under this concept of greater flexibility that changes to improve the travel funding system are considered.

A. OPERATIONAL COMMITMENTS VS. QUALITY OF LIFE

The optimal travel program must ensure that the needs of the Type Commander and individual travelers are satisfied. Ignoring needs of either stakeholder will result in the mission not being accomplished or result in low morale and high turnover. If the mission cannot be accomplished, the ability of the U.S. to promote its national interests abroad will be adversely affected. However, low morale and high turnover will result in higher personnel costs. Neither alternative is acceptable.

1. Needs of the Type Commanders

Personnel are deployed to overseas bases to accomplish missions related to national security and the promotion of U.S. interests abroad, and these missions must be accomplished in the most cost-effective manner. The American public and Congress expect the military to protect the interests of the United States, while being frugal budgetary managers. This results in Type Commanders being under pressure to accomplish their missions with less travel funding. Between FY94 and FY97, per diem funding for the Navy will decrease by over \$40 million (20%) and funding for the Pacific Fleet will decrease by \$6 million (15%). [Ref. 2]

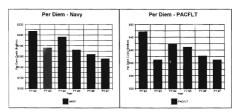


Figure 1. Appropriated Funding Trends for Per Diem (Actual values are in Appendix A.)

The Type Commander expects to have an adequately trained force in place where and when needed. When there is insufficient funding and/or inadequately trained units, the interests of the U.S. cannot be adequately promoted. The Type Commanders must have the flexibility to allocate the resources under their control to provide for the deployment of units in the most efficient and economical means possible.

2. Needs of the Individual Travelers

Government travelers are entitled to reasonable food, lodging, and incidental reimbursement during their trips. This reimbursement rate is set at a level where the travelers can travel comfortably while keeping the costs low for the American taxpayer [Ref. 5]. The objective is to be able to carry out their assigned duties without adversely affecting their financial situation.

B. SOUADRON DEPLOYMENTS TO OVERSEAS BASES

Squadron deployments involve the temporary relocation of the entire unit in order to support the aircraft. When the squadrons deploy on aircraft carriers, their travel needs are provided by the ship. However, when they are deployed to another base, the Type Commander must provide adequate funding to provide for their lodging, meals, and incidental expenses. During this time, they will utilize government lodging as much as possible and attempt to utilize government messing facilities.

Each of these bases has resources which may be used by the transient commands to accomplish its mission. If the base resources can be used effectively to support the transient command, the transient command will be able to accomplish its mission at a lower cost. The food service resources are critical to the personnel assigned to these transient commands with the primary concern being the adequacy of the government messing facility to fully support the transient command. Without being able to meet the transient command's requirements, personnel will be forced to utilize other food service sources. The primary considerations in determining the adequacy of the messing facility are accessability, availability, rank deference, and dietary/palatability concerns.

Accessability encompasses the ability of personnel to travel to the galley for meals and return to their work place without interfering with the mission. The hours of operation must be adequate to provide food services to a transient command's personnel before, during, and after normal working hours. Rank deference refers to the availability of separate eating areas for junior enlisted, senior enlisted, and officers. The final consideration, dietary/palatability considerations, acknowledges that the food must be nutritional and considered to be enjoyable. Otherwise, personnel will not maintain their fitness levels, or they will be forced to utilize their own financial resources to find adequate meal sources.

C. PROGRAMS FOR RATION PROVISIONS

The government has a responsibility to house and feed personnel traveling on government business, whether for training, representation, or mission accomplishment. While there are several different programs, the three most promising ones will be discussed.

Lodgings Plus Per Diem

As the current method of travel reimbursement, travelers are compensated for their lodging expense (up to a predetermined amount) and receive a flat amount for food and incidentals. The rates are set by the Government Services Administration, State Department, or DoD, depending on the location of the installation and normal costs. Because it is often infeasible to determine reimbursement levels for individual installations, the expected costs within a geographic area are used.

However, when government messing is available for enlisted personnel, their meals portion of per diem is the full cost (food and operating costs) of eating in the galley. The food cost is called the Basic Meal Rate (BMR), which is currently \$4.65, and covers the actual food cost. The operating cost is called the surcharge, which is currently 300% of the BMR, and covers the overhead costs of the galley. The surcharge is set on an annual basis for all government messing facilities. The BMR and surcharge result in the full cost of eating in the galley being approximately \$19.

2. AIRPAC's Smart TAD Program

Faced with a \$4 million travel funding shortfall in FY92, Naval Air Forces Pacific (AIRPAC) searched for options to meet their mission requirements. The most promising alternative was to revitalize the underutilized government messing facilities (galleys). After receiving a waiver of the surcharge for naval personnel at 5 AIRPAC bases in March 1993, all naval personnel, including officers, were directed to utilize government messing facilities. By avoiding the meal surcharge (300% of the BMR), AIRPAC is able to achieve substantial savings when units are deployed on missions or participate on training detachments. The savings are then available to fund traditional training during an era of decreasing travel budgets.

a. Galley Facilities

Most galleys were designed to serve the enlisted personnel. While many have separate dining areas for chiefs and other senior enlisted personnel, few have appropriate dining areas for officers. If a facility is to be used by officers, it will need some additional construction

h. Missed Meals

AIRPAC's position is that requests for missed meals can be submitted by personnel who are unable to eat in government facilities due to operational requirements. However, the approval authority rests with AIRPAC due to some perceived abuses by the Squadron Commanders. Furthermore, most of the few requests are rejected by AIRPAC. While not explicit, the message received by the Squadron Commanders is that missed meal requests are not encouraged. Personnel have been missing meals at their own expense, leading to significant dissatisfaction on the part of the travelers.

3. Travel Reengineering Recommendations

The DoD Task Force to Reengineer Travel was chartered to "develop a fair and equitable temporary duty travel system for all DoD organizations" [Ref. 6]. The task force examined all areas of the travel process, from the travel authorization to payment and accountability. The objective is to streamline and simplify the travel process to ensure that the future missions can be accomplished economically. Reimbursement under these travel categories would be structured on the Lodgings Plus method. In simplifying the travel process, three broad categories of expected travel were identified: deployment, training, and business [Ref. 4: p. 1-5-3]

a. Deployment Travel

Travel consisting of traditional military operations, disaster relief, low intensity conflicts, some field and maneuvering training, and the like would be included in this category. This category also includes sea duty when the personnel are not permanently assigned to a ship. The lodging and messing services would then be provided in kind, rather than travelers obtaining these services on their own and then seeking reimbursement later. This concept of providing rations in kind for entire units is a major departure from the Lodgings Plus travel policy. Rations in kind would allow travelers to utilize government messing without any cost to the travelers. The galley would then be reimbursed by the Type Commander.

b. Training Travel

Training is further divided into two conditions: when the training objectives require that attendees live and eat together, and when effective training can be achieved without attendees living and eating together. In the former case, government messing and lodging will be required and the reimbursement will be based on the actual costs to the traveler for these services. In the latter case, travelers will be reimbursed according to the following "business travel" process.

c. Business Travel

Travel by individuals and small groups away from their permanent duty station will be included in this category. Government lodging will be directed when appropriate, but government messing will not be required. Reimbursement will follow the Lodgings Plus reimbursement process.

The recommendations call for a paradigm switch which would empower the Type Commander to determine what the most appropriate accommodations would be for units under their command. The current system, which is full of exceptions and requirements, would be simplified and treat the traveler as a customer. Furthermore, the new process would be more mission oriented and the process would be viewed in a more supporting role.

Two other key concepts pertain to the 'deployment travel' category and how travelers would be reimbursed for missed meals. Travelers who are categorized under 'deployment travel' would receive services in kind, including rations. If they chose to eat at any place other than the government messing facility, they would not be reimbursed for it. Secondly, the accounting for missed meals would be simplified by reimbursing the traveler a flat rate of 50% of the daily per diem rate. Both of these concepts are important changes from the current Lodgings Plus per diem program.

This chapter provided a brief overview of the travel reimbursement system. New policies concerning the per diem system are being explored, and are currently achieving promising results. However, the analysis of these new policies must include the impacts on the individuals, galleys, quality of life activities, bases, and Type Commanders. The following chapter identifies the key areas to be evaluated in completing the analysis.

III. RESEARCH METHODOLOGY

To compare the three major travel funding alternatives, information must be gathered on their costs, benefits, and weaknesses.

A ANALYSIS OF THE LODGINGS PLUS PER DIEM

The strengths and weaknesses of the current system have been debated by personnel at the unit level as well as within Congress. While everyone seems to dislike portions of the current lodging-plus per diem system, few have been able to develop a better system which will serve the individual traveler and provide for the ability to detect fraudulent claims against the taxpayers [Ref. 4]. As trustees of the taxpayers' money, Type Commanders must be able to accomplish the missions with a minimal amount of funding. In accomplishing this mission, the morale of the travelers is always a concern.

There is much more information about travel problems within the civilian government section. Although both military and civilian government employees must abide by similar travel regulations, the civilian voice has been represented more in the media. Regulations will be the major source of information on how the travel system is supposed to operate.

B ANALYSIS OF AIRPAC'S SMART TAD PROGRAM

AIRPAC has implemented a travel cost reduction program in March 1993. Although it is still in the experimental phase, it is yielding substantial savings for the Type Commander. AIRPAC has collected information on the traveler's acceptance of such a program and on the food service costs of operating under such a system.

Each year, AIRPAC has submitted a proposal to extend the experiment. Currently, it affects 5 bases in the Western Hemisphere (Diego Garcia, Barbers Point, Whidbey Island, North Island, and Fallon) and AIRLANT has just received approval to experiment with 5 bases under its command. The proposals depict a distinct need for such measures and illustrate the acceptance by travel personnel.

AIRPAC has conducted annual surveys of the program participants and has broken down all of the responses into positive and negative comments. Although the responses are not broken down by particular bases, some of the negative responses do indicate what base the comments are referring to

Interviews with both implementers and users of the Smart TAD program are critical in gaining a better understanding of the benefits and problems plaguing this innovative method of providing food services to personnel deployed to U.S. bases. Personal interviews are also important to better understand how the program is currently operating and what the basis for some of the complaints are.

C. ANALYSIS OF THE TRAVEL REENGINEERING RECOMMENDATIONS

The DoD Task Force to Reengineer Travel was established because of the high cost of processing travel requests and the high frustration level on the part of the traveler. The report submitted by the DoD Task Force to Reengineer Travel addressed several classes of travelers. For this thesis, the traveler in a deployed status is the only class of traveler considered. Implementation plans will also be reviewed.

D. FINANCIAL IMPLICATIONS OF AIRPAC'S SMART TAD PROGRAM

Because the recommendations of the DoD Task Force to Reengineer Travel have not been fully implemented, the only financial information on the implications of reducing the per diem levels is available from sites under AIRPAC's Smart TAD program. Naval Support Facility (NAVSUPPFAC) Diego Garcia and Naval Air Station (NAS) Fallon were chosen as appropriate sites for analyzing the effects of the Smart TAD program on galley operations and on morale, welfare and recreation revenue generating activities.

1. Effects on the Type Commanders

While the Type Commanders may be concerned with their personnel's quality of life, their main objective is to accomplish the mission. Per diem issues arise when decisions are made about sending personnel away from their permanent duty station for training and when units are deployed to overseas U.S. bases. While units are also detached to CONUS bases for relatively short periods of time, the analysis will model the deployment of a P-3 squadron to Misawa Air Force Base (AFB), Japan

AIRPAC's food portion of the per diem rates over the last three years will be analyzed to determine what the expected savings for the Type Commander could be. The food portion is analyzed because the incidental and lodging portions of the per diem rate are fixed.

2. Effects on the Deployed Personnel

Deployed personnel experience unique hardships. One such concern is the financial situation of their family. Per diem is designed to adequately compensate travelers for their appropriate expenses. To the extent that per diem covers their food, lodging, and incidental costs, travelers are no worse off financially than remaining at their permanent duty station. The appropriate measure for travelers is their ability to receive three nutritious meals within their per diem budget.

3. Effects on Galley Operations

If transient personnel are directed to utilize government messing, the galley must be able to adequately support the mission requirements of the transient command. For transient commands in a 24 hour status, that may necessitate longer meal hours and possible additional meals (ie. midrats). This change in operations may require additional support personnel and result in higher utility expenses. Even if no change in operations is required, there will be a change in the direct food costs. In situations where the traveler pays the food portion of the per diem rate, the difference between the variable cost of that meal and the BMR paid is a relevant cost.

4. Effects on Morale, Welfare and Recreation Activities

MWR activities directly affect the quality of life for personnel assigned to an installation. While most of the mission essential activities (fitness center, swimming pool, and library) are supported with appropriated funds, other revenue generating activities (bowling alley, club system, and golf course) depend upon the installation personnel spending their disposable income. In particular, the club system revenue would be adversely affected by an increase in galley utilization. MWR still has fixed costs to cover, and will do so by increasing costs for some activities and appropriate reductions in other services. This combination results in a decrease in the quality of life for all personnel on the base.

The key areas of evaluation have been identified. The challenge is how to predict the financial requirements and compare the effects on the stakeholders for each travel policy. In the following chapter, a model will be presented to evaluate the total cost of each policy for the Type Commander. Furthermore, two bases under AIRPAC's Smart TAD program will be analyzed to predict the effects on a third base, currently under the Lodgings Plus policy.

IV. TRAVEL FUNDING ANALYSIS

To adequately assess the potential impact on Misawa AFB, Japan, the effects of AIRPAC's Smart TAD program on NAS Fallon, Nevada and NAVSUPPFAC Diego Garcia must be understood. By evaluating the dining choices made by personnel faced with a reduction in their per diem reimbursement, the results can be predicted for another similar base considering such a program. Any change in per diem levels will have some effect on galley operations, MWR activities, base operating expenses, missed meal reimbursement, and other unrecorded costs. These costs must be contrasted against the per diem savings. Any difference between the costs and savings must be examined.

The behavioral pattern of the travelers must be modeled for planners to correctly predict the effects of proposed changes in the per diem program. After the model is completed, the probable values for the model attributes must be determined and the direct effects can be calculated. The direct effect includes per diem, galley, and missed meal payments. After the direct effects of a per diem change are determined, the indirect effects on the MWR activities and base operations must be determined. The net effect of a per diem change will be a valuable input in the decision making process.

A. PER DIEM FUNDING FORECASTING (PDFF) MODEL

The PDFF model will assist the planner in determining the number of personnel expected to eat in the galley, miss meals, and eat elsewhere. The reimbursement paid to the galley and individual are the important expenses. The model evaluates three alternatives: Lodgings Plus per diem, AIRPAC's Smart TAD with accurate missed meal payments, and Rations In Kind with accurate missed meal payments. The model is described in Figures 2 -7, and supporting calculations are found in Appendix B.

\$P Per Diem Rate \$R Cost Per Ration - Determined by the galley variable costs BMR Basic Meal Rate Surcharge - Set annually for all government messing facilities Sch N # of Transient Personnel M Probability of being entitled to a missed meal reimbursement G %, Preference to eat in the galley at the current per diem rate C %. Preference to not eat in the galley MPE %, Marginal Propensity to Eat in the Galley (with a per diem change)

Figure 2. Model Attributes

Per Diem	Galley Use %	Ng	Nm	Nc	
i					
Total Per Diem	Missed Meal	Recon. Payment	Total AIRPAC	Total Traveler	Direct Galley
Reimb.	Reimb.	to Galley	Payment	Reimb.	Revenue
i					
	Diem Total Per Diem Reimb	Diem Use % Total Missed Per Diem Meal Reimb Reimb	Diem Use % Ng Total Missed Recon. Per Diem Meal Payment Reimb Reimb to Galley	Diem Use % Ng Nm Total Missed Recon. Total Per Diem Meal Payment AIRPAC Reimb. Reimb. to Galley Payment	Diem Use % Ng Nm Nc Total Missed Recon. Total Total Per Diem Meal Payment AIRPAC Traveler Reimb Reimb to Galley Payment Reimb.

Figure 3. Model Output

Ng # of Rations Provided by the Galley Nm # of Personnel Entitled to Missed Meal Reimbursement

No # of Rations Not Provided by the Galley (excludes meals included in Nm)

Total Per Diem Reimbursement

Includes the food portion of the per diem payment provided to the traveler Missed Meal Reimbursement

Includes the payments to the travelers for claimed missed meals Reconciliation Payment to Galley

Includes payments to the galley for the net increase in food stores and labor

Total AIRPAC Payments
Includes all payments associated with messing made by AIRPAC

Total Traveler Reimbursement

Includes all payments made to the traveler.

Direct Galley Revenue

Nm

Includes the BMR and surcharge collected by the galley

Figure 4. Total Value Descriptions

Ng = G*(N-0.5Nm) Nc = (1-G)(N-0.5Nm) Total Per Diem = N*\$P Lodgings Plus \$P = Locality

N * M

Lodgings Plus SP = Locality Rate
Smart TAD SP = Basic Meal Rate
Rations In Kind (no per diem is paid)
Missed Meal Reimb = N * M * 0.5SP bestier are

Recon Payment = (Ng * \$R) - Direct Galley Revenue

AIRPAC Payment = Total Per Diem + Missed Meal Reimb + Recon. Payment
Traveler Reimb = Total Per Diem + Missed Meal Reimbursement

Direct Galley Rev = Ng (BMR + Sch)

Figure 5. Formulas

Nm There is an 'M' probability that a traveler would miss 1-2 meals in any given day due to operational requirements. The remaining meals would be eaten as usual.

Ng If the traveler has a choice, there is 'G' probability that the traveler would choose to eat in the galley.

No If the traveler has a choice, and does not eat in the galley, that meal would be counted towards the total number of rations eaten elsewhere.

 $Ng + Nc \neq N$ Ng and Ne only equal the number of rations which the traveler was making a dining choice. The number of meals missed by travelers in the Nm category are removed from consideration

0.5Nm On average, when travelers are entitled to file missed meal claims, they will have missed one half of their entitled meals (some days, they will miss one meal, and other days, they will miss two meals). The remaining meals will be eaten as usual, with a 'G' probability of deciding to eat in the galley.

MPE Choices are made by comparisons. When Smart TAD began, the number of travelers eating in the galley increased. If per diem were eliminated completely and meals were provided in the galley for free, it is expected that travelers on the margin would decide to eat in the galley.

Figure 6. Descriptions

Lodgings Plus

Few travelers decide to utilize government messing facilities. This is also the most expensive travel funding program examined. Changes in missed meals, galley preferences, or ration costs do not affect the funding requirements.

Smart TAD

Galley utilization increased when the per diem was significantly reduced and the price of a meal in the galley was correspondingly reduced. Eventually, AIRPAC will need to address the missed meal problem, so missed meal reimbursement was included. AIRPAC currently considers the changes in galley operating costs in their evaluation of their Smart TAD test.

Increases in missed meals and ration costs increase the funding requirements. Changes in galley preferences alone do not significantly affect the funding requirements.

Rations In Kind

Increases in galley preferences, missed meals, and ration costs increase the funding requirements. However, the total AIRPAC payment is usually less than the Smart TAD funding requirement.

Figure 7. Model Observations

B. DIRECT PER DIEM EFFECTS

The direct effects of a per diem change include the new per diem payments, change in galley expenses, and missed meal reimbursements. Each of these effects must be considered to adequately evaluate the effects of a change on the Type Commander, galley, and traveler. The Type Commander is responsible covering the direct expenses. The galley will incur changing costs as the number of rations served changes. And, the traveler is entitled to reasonable reimbursement for expenses, including expenses arising from missed meals.

1. Per Diem Payments

The military provides its members with rations in the form of cash payments or actual meals. This concept does not change when the military member is in a travel or deployed status. When naval personnel are on a ship, they are provided their meals: enlisted personnel receive rations in kind and officers pay for their rations from their subsistence pay. The food portion of per diem is intended to enable the travelers to eat nutritious meals at reasonable establishments without using their own financial resources. When naval personnel are on land, they are either provided rations in kind, subsistence, or per diem. The per diem is intended for travelers to be able to eat nutritious meals at reasonable establishments without incurring a personal financial loss.

The concept of providing meals to military personnel assigned to a unit in a deployed or detached status is similar to naval personnel being assigned to a ship. If the service members were provided "in kind" meals for all of their meals, they would be provided nutritious meals without any financial hardship. Under the Lodgings Plus per diem program, the traveler receives the full locality per diem rate. If government messing is available, the locality rate equals the BMR and surcharge rate. Under AIRPAC's Smart TAD program, the traveler receives the BMR rate only. Under the Rations In Kind program, the traveler would not receive any per diem. The amount of direct per diem for travelers at each of the sites for FY94 is listed in Table 1 and Appendix C.

FY94 Direct Per Diem Costs								
Per Diem Policy	NAS Fallon Officers	NAS Fallon Enlisted	NAVSUPPFAC Diego Garcia	Misawa AFB				
Lodgings Plus	\$1,514,880	\$3,260,736	\$2,096,232	\$2,352,960				
Smart TAD	\$293,508	\$819,590	\$513,025	\$575,856				
Rations In Kind	\$0	\$0	\$0	\$0				

Table 1. Direct Per Diem Funding (FY94) Under Each Per Diem Policy

2. Galley Operations

There are five cost categories associated with galley operations: labor, stores consumed, supplies, utilities, and depreciation/upkeep. Of these costs, some of the costs will vary with the expected ration production. Labor is a variable cost with discrete changes due to hirring when the rations production exceeds current capabilities. Stores consumed is the primary direct variable cost, with supplies and utilities varying slightly with the number of rations provided. The depreciation/upkeep costs will not be significantly affected by a change in ration production. It is only appropriate to consider the costs which experience relevant changes due to changes in ration production. Galley operating expenses are in Appendix D.

a. NAS Fallon

Galley operations are sub-contracted under a Base Operating Support (BOS) contract. The contract is a fixed price contract with allowances for an increase in the number of rations served. The fixed price for up to 4200 rations (3 meals) per month is \$396,144 with a ration fixed price of \$7.86 for each ration over 4200. Between FY92-FY94, the galley experienced a constantly increasing utilization rate.

Because of the significant increase in galley utilization, the seating capacity was examined as a possible constraint. Based on other galleys' capacities and a seating capacity of 300, there is seating for at least 200,000 rations annually.

Labor costs in 1994 dollars remained constant from FY92 until FY93. Then labor costs jumped \$216,000 during FY94 as the number of rations increased by 11,000 to 103,005 annually. The civilians employed for \$38,000 to assist the contractor in 1993 are also a relevant cost. Stores consumed, the remaining significant cost is the only variable cost and increased at a constant rate of \$5 per ration from FY92-FY94.



Figure 8. NAS Fallon Galley Expenses in Real Dollars (FY94)

b. NAVSUPPFAC Diego Garcia

The galley is currently operated jointly by military and BOS contract personnel, and the utilization rate is stable, ranging between 220,000-240,000 rations annually. FY94 had the fewest number of rations served, followed by FY92.

The labor cost was unaffected by the implementation of Smart TAD, partly because there was not the predicted increase in galley patronage. However, the stores consumed cost has been increasing at a real cost of \$3 per ration.

The stable utilization rate is in contrast to the results at NAS Fallon. While the number of rations increased significantly at NAS Fallon, there are several reasons why the same did not occur at NAVSUPPFAC Diego Garcia. The primary reason for the stability is that Diego Garcia is an isolated base, an island, with limited eating alternatives. Furthermore, the alternatives were not significantly more expensive than the galley. Disposable income available for dining purposes is also greater at Diego Garcia because there are fewer living expenses for the individuals.

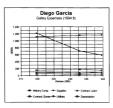


Figure 9. NAVSUPPFAC Diego Garcia Galley Expenses in Real Dollars (FY94)

c. Misawa AFB

The government dining facility at Misawa AFB is government run. While detailed information about Misawa AFB Dining Facility's operating expenses was not available, the Food Service Officer was able to provide approximate information concerning the variable food and labor costs. The only true variable cost is for food, which would be \$3.50 per ration. Additionally, an increase of 151-200 rations each day would require additional personnel. The five military personnel, at the E-4 level, would increase the Military Compensation Expense by \$146,490. The Food Service Officer said that utilities and supplies would not be affected.

3. Missed Meals

One of the primary concerns for transient personnel is how not to lose money on detachments and deployments. Of the personnel surveyed by AIRPAC concerning the Smart TAD program, two of the most common complaints pertained to the lost opportunity to choose where they can eat, and the financial burden associated with missing meals. The DoD Task Force to Reengineer Travel report provides for a simple solution to the latter complaint. By providing the travelers with 50% of the local per diem rate if the mission requirements prevent them from eating all of their meals in the government messing facility, the travelers are able to select a suitable alternative for the 1 or 2 missed meals [Ref. 4]. The next major hurdle is to be able to forecast what the missed meal expense would have been at AIRPAC's Smart TAD sites and what could be expected at Misawa AFB.

Information is available on the number of transient personnel at the BOQ and BEQ, and the units deployed to NAS Fallon and NAVSUPPFAC Diego Garcia were able to provide some information on the probability of missing meals due to operational requirements. AIRPAC knows how many missed meal requests are submitted for reimbursement, however, a survey of senior squadron personnel in detached/deployed squadrons indicated that they were either not aware that there was a method of reimbursement for missed meals or they indicated that they were not supposed to submit the requests.

a. NAS Fallon

During a recent detachment, an air wing was asked to estimate the number of meals its personnel were not able to eat at the galley due to operational requirements. While very few missed meal requests are submitted to AIRPAC for reimbursement, the nature of flight operations would indicate that personnel are not able to eat all of their meals at the government messing facilities.

The results of this quick survey were that over 39,000 actual meals were missed by almost 2000 personnel during the 21 day detachment. The primary reason for the missed meals was that flight operations began at 0800 and personnel were not able to eat and arrive at their work center by 0800. Lunch was also frequently missed by flight personnel because they landed at 1230 and immediately went into their debrief. Although most personnel had the opportunity to eat dinner in the galley, some personnel opted to exercise before eating dinner, thereby causing them to be done after the galley's dinner hours.

The figure of 39,000 missed meals indicated two things: if left to the squadrons for missed meal approval, with no strong guidance, there would be substantial

abuse of the reimbursement program as the senior personnel tried to "take care of" their personnel; and there is a missed meal problem for transient personnel. The best way to address the problem of missed meals is to examine the reasons for missing meals. Personnel have 2.5 hours to eat breakfast in the galley before the 0800 workday begins. While there may be a waiting line at 0730, personnel should plan ahead. The 10 minute walk to the hangar is close enough for personnel to walk to and from the workplace for their meals. Missing lunch is a reality for a few maintainers and other critical personnel if there are flight operations during the lunch period. The conservative number of personnel missing a meal due to operational requirements is 20%. While efforts could be made to find ways to reduce this figure, it is a good baseline. The aviator dilemma is more complex. Their day starts before 0800 and extends to almost 1630 including pre-flight planning, flights, debriefs, and mission planning for the next day. Aviators will usually miss at least one meal during a flying day due to their operational requirements. Using the more accurate estimations that 20% of the enlisted personnel and 75% of the officers would be entitled to claim for missed meals each day, the predicted number of missed meals for that same 2000 member detachment would be under 12,000, not over 39,000.

b. NAVSUPPFAC Diego Garcia

The Operations Officer of a recently deployed squadron did not see any purpose in determining the number of missed meals because, as he stated, everyone has an opportunity to go to the galley and that operational requirements did not interfere with meal times. Furthermore, he said that the flight schedule did not force aviators to miss a hot meal in the galley. One reason for this phenomenal success could be that Diego Garcia is a logistical hub with very few inflexible operational requirements

However, a rough polling of squadron personnel indicated a far different situation. Personnel stated that they were told that they could not submit missed meal requests and that the restriction had since been reduced to just the officers. Regardless of the regulations, they were asked if they had ever been prevented from eating in the galley due to operational requirements. A few maintainers and supervisors mentioned that they were occasionally unable to go to the galley due to the necessity for them to be at the hangar to supervise the quality of critical maintenance activities. Some aviators also stated that they often purchased their own meals from the coffee mess or base store before flights because they disliked the box lunches or did not have enough notice to order a box lunch. A liberal approximation of the number of missed meals is 20%, or 22,000 missed meals annually.

c. Misawa AFB

The deployed P-3 squadron does not have the flexibility to schedule missions around the government dining facility hours. Furthermore, the duration of the flights could require that more than one meal is missed during a single flight. Fortunately, around-theclock operations is not the norm, and the dining facility is within 5 minutes of the hangar and berthing. For these reasons, a rough approximation of 20% of the personnel missing 1-2 meals is appropriate, or around 25,000 meals annually.

4. PDFF Model Utilization

The following tables will illustrate the effects of variation in galley preference, ration costs, and missed meal rates. Tables 2 - 4 illustrate the funding requirements when each of

the above attributes vary individually, while Tables 5 - 7 illustrate the funding requirements for the expected and worst case scenarios for each base. All of the tables compare the predicted costs of each of the policies, savings over the current Lodgings Plus policy and the projected savings of the Rations In Kind policy over the AIRPAC Smart TAD policy. It is important to realize that only one attribute is being changed in the first three tables, with the other two main attributes remaining fixed at the most likely value.

a. Galley Preference Effect on Alternative Policies

Galley Preference									
	Cost of Per Diem Policy Options			Savings over	Savings over Smart TAD				
	Lodgings Plus	Smart TAD	Rations In Kind	Smart TAD	Rations In Kind	Rations In Kind			
Missed Meal %: 0.75		NAS Fallon: Officers							
Galley Pref: 40%	1,514,880	751,523	659,801	763,358	855,079	91,72			
Galley Pref: 50%	1,514,880	751,523	678,146	763,358	836,735	73,37			
Galley Pref: 60%	1,514,880	751,523	696,490	763,358	818,390	55,03			
Missed Meal %: 0.20			NAS Fallo	n: Enlisted					
Galley Pref: 40%	3,260,736	1,279,705	910,889	1,981,031	2,349,847	409,79			
Galley Pref: 50%	3,260,736	1,279.705	984,652	1,984,031	2,276,084	344,22			
Galley Pref: 60%	3,260,736	1,279,705	1,058,416	1,981,031	2,202,320	278,66			
Missed Meal %: 0.20			NAVSUPPFA	C Diego Gar	cia				
Galley Pref: 40%	2,096,232	671,346	440,485	1,424,886	1,655,747	230,86			
Galley Pref: 50%	2,096,232	671,346	486,657	1,424,886	1,609,575	184,68			
Galley Pref: 60%	2,096,232	671,346	532,829	1,424,886	1,563,403	138,51			
Missed Meal %: 0.20	Misawa AFB								
Galley Pref: 40%	2,352,960	870,758	640,921	1,482,202	1,712,039	229,83			
Galley Pref: 50%	2,352,960	900,056	692,748	1,452,904	1,660,212	207,30			
Galley Pref: 60%	2,352,960	900,056	744,575	1.452,904	1,608,385	155,48			

Table 2. Per Diem Funding Requirements with Varying Galley Preferences. The missed meal probability remains constant at the expected level and the ration cost is held constant at the Basic Meal Rate (BMR). The galley preference has no effect on the Lodgings Plus program and only a minimal effect on AIRPAC's Smart TAD program. AIRPAC would only be responsible for the increased semi-fixed labor costs. Any preference increase under the Rations In Kind program would result in additional costs because the Type Commander pays for each additional ration provided by the galley. Under the Smart TAD program, the traveler pays the galley for the ration.

b. Gallev Cost Effect on Alternative Policies

Ration Cost										
	Cost of Per Diem Policy Options			Savings ove	Savings over Smart TAD					
	Lodgings Plus	Smart TAD	Rations In Kind	Smart TAD	Rations In Kind	Rations In Kind				
Missed Meal %: 0.75			NAS Fall	on: Officers						
Ration Cost: \$ 5	1,514,880	758,426	686,430	756,454	828,450	71,996				
Ration Cost: \$8	1,514,880	817,601	757,440	697,279	757,440	60,161				
Ration Cost: \$11	1,514,880	876,776	828,450	638,104	686,430	48,326				
Missed Meal %: 0.20		NAS Fallon: Enlisted								
Ration Cost: \$ 5	3,260,736	1,307,465	1,017,965	1,953,271	2,242,771	289,500				
Ration Cost: \$8	3,260,736	1,545,411	1,303,500	1,715,325	1,957,236	241,911				
Ration Cost: \$ 11	3,260,736	1,783,356	1,589,034	1,477,380	1,671,702	194,322				
Missed Meal %: 0.20			NAVSUPPF/	AC Diego Ga	rcia					
Ration Cost: \$ 4	2,096,232	639,075	447,932	1,457,157	1,648.300	191,143				
Ration Cost: \$ 6	2,096,232	738,370	567,086	1,357,862	1,529,146	171.284				
Ration Cost: \$ 8	2,096,232	837,665	686,240	1,258,567	1,409,992	151,425				
Missed Meal %: 0.20	Misawa AFB									
Ration Cost: \$ 3	2,352,960	808,105	582,407	1,544,855	1,770,553	225,698				
Ration Cost: \$ 5	2,352,960	919,561	716,154	1,433,399	1,636,806	203,407				
Ration Cost: \$ 7	2,352,960	1,031,017	849,901	1.321,943	1,503,059	181,116				

Table 3 Per Diem Funding Requirements with Varying Ration Costs. The missed meal probability and galley preference values are held constant at the expected levels. The ration cost varies between the low and high estimate. Again, varying galley costs have no effect on the Lodgings Plus per diem program. The ration cost is reported by the galley and the sensitivity analysis compares the low, expected, and high estimates. Changes in ration costs will have an effect on the total galley reimbursement in the same direction for the Smart TAD and Rations In Kind programs. The varying costs will have a greater effect on the Rations In Kind program because of the increased propensity to eat in the galley.

c. Missed Meal Effect on Alternative Policies

The missed meal rate has no effect on the Lodgings Plus per diem program.

The Smart TAD and Rations In Kind programs incur additional costs as the missed meal rate increases. The officers and enlisted personnel at NAS Fallon were computed individually in the following table because the officers are expected to have a significantly higher missed meal rate due to the flight operations.

An increase in the missed meal rate will have a lesser affect on the Smart TAD policy because AIRPAC has already paid the travelers the BMR. If the travelers are eligible for a missed meal claim, 50% of the BMR would be deducted from the missed meal payment. In this case, AIRPAC's net cost of that missed meal claim under Smart TAD would be less than the net cost under the Rations In Kind program. Missed meal data can be found in Appendix E.

		M	issed Meals						
	Cost of Per Diem Policy Options			Savings over	Savings over Lodgings Plus				
	Lodgings Plus	Smart TAD	Rations In Kind	Smart TAD	Rations In Kind	Rations In Kind			
		NAS Fallon: Officers							
Missed Meal %: 0.2	1,514,880	415,645	309,982	1,099,235	1,204,898	105.66			
Missed Meal %: 0.5	1,514,880	598,851	510,799	916.029	1,004.081	88,05			
Missed Meal %: 0.75	1,514,880	751,523	678,146	763,358	836,735	73,37			
Missed Meal %: 1.0	1.514,880	904,194	845,492	610,686	669,388	58,70			
	NAS Fallon: Enlisted								
Missed Nicel % 0.1	3,260,736	1,157,648	846,203	2,103,088	2,414,533	311,44			
Missed Meal % 0.2	3,260,736	1,279,705	984,652	1,981,031	2,276,084	295,05			
Missed Meal % 0.3	3,260,736	1,401,762	1,123,102	1,858,974	2,137,634	278,66			
Missed Meal % 0.4	3,260,736	1,523,820	1,261,551	1.736.916	1,999,185	262,26			
			NAVSUPPFA	C Diego Gar	cia				
Missed Meal %: 0.1	2,096,232	592,186	397,236	1,504,046	1,698,996	194,95			
Missed Meal %: 0.2	2,096,232	671,346	486,657	1,424,886	1,609,575	184,68			
Missed Meal %: 0.3	2,096,232	750,506	576,078	1,345,726	1,520,154	174,42			
Missed Meal % 0.4	2,096,232	829,667	665,498	1,266,565	1,430,734	164,16			
	Misawa AFB								
Missed Meal %: 0.1	2,352,960	811,201	592,376	1,541,759	1,760,584	218.82			
Missed Meal %: 0.2	2,352,960	870,758	692,748	1,482,202	1,660,212	207,30			
Missed Meal %: 0.3	2,352,960	959,614	793,121	1,393,346	1,559,839	166,49			
Missed Meal %: 0.4	2,352,960	1,048,469	893,493	1,304,491	1,459,467	154,97			

Table 4. Per Diem Funding Requirements with Varying Missed Meal Rates. The Galley Preference is held constant at 50% and the Ration Cost is held constant at the BMR.

"What If" Simulations

The PDFF model is very useful in conducting "what if" simulations. The previous tables have illustrated the expected costs and savings associated with a wide range of possibilities. However, only one attribute was measured, with the other two attributes reflecting the probable values. By being able to vary all three attributes, cost analysts are able to determine the expected performance for the Smart TAD and Rations In Kind programs.

One such simulation could be determining the minimum expected performance under the
worst case scenario.

For example, the Type Commander could know what the minimum expected savings would be if the travelers at Misawa AFB were included under the Smart TAD program. By combining the worst case for each attribute (G=0.6, SR=5.7, and M=0.4), the cost analyst could estimate that \$1.1 million could be saved annually. The Type Commander would also know that an additional \$115,000 could be saved if those travelers were included under the Rations In Kind program instead. Table 5 lists the best, expected, and worst cases for each attribute. Tables 6 and 7 illustrate the expected and worst case scenarios, and their associated costs and savings.

Summary of the Attributes									
	Situation	Galley Preference	Cost Per Ration	Missed Meals					
NAS Fallon: Officers	Best	0.4	\$ 5	0.2					
	Expected	0.5	S 8	0.75					
	Worst	0.6	\$11	1.0					
NAS Fallon: Enlisted	Best	0.4	\$ 5	0.1					
	Expected	0.5	8 2	0.2					
	Worst	0.6	\$11	0.4					
NAVSUPPFAC Diego Garcia	Best	0.4	5 4	0.1					
	Expected	0.5	\$ 6	0.2					
	Worst	0.6	\$ 8	0.4					
Misawa AFB	Best	0.4	\$3	0.1					
	Expected	0.5	\$.5	0.2					
	Worst	0.6	\$7	0.4					

Table 5. Summary of the Attributes

Expected Case Scenario									
	Cost of	Per Diem Policy	y Options	Savings over	r Lodgings Plus	Savings over Smart TAD			
	Lodgings Plus	Smart TAD	Rations In Kind	Smart TAD	Rations In Kind	Rations In Kind			
NAS Fallon: Officers	1,514,880	751,523	678,146	763,358	836,735	73,377			
NAS Fallon: Enlisted	3,260,736	1.279,705	984,652	1.981,031	2,276,084	295,053			
Diego Garcia	2,096.232	671,346	486,657	1,424,886	1,609,575	184,689			
Misawa AFB	2,352,960	900,051	692,748	1.452,904	1,660,212	207,308			

Table 6. Per Diem Funding Requirements Under the Expected Scenarios

Worst Case Scenario									
	Cost of	Per Diem i olic	y Options	Savings ove	r Lodgings Plus	Savings over Smart TAD			
	Lodgings Plus	Smart TAD	Rations In Kind	Smart TAD	Rations In Kind	Rations In Kind			
NAS Fallon: Officers	1,514,880	1,024,438	1,000,452	490,442	514,428	23,986			
NAS Fallon: Enlisted	3,260,736	2,061,048	1,953,884	1,199,688	1,306,852	107,164			
Diego Garcia	2,096,232	1,007,074	913,516	1.089.158	1,182,716	93,558			
Misawa AFB	2,352,960	1,217,458	1,102,535	1,135,502	1,250,425	114 924			

Table 7. Per Diem Funding Requirements Under the Worst Case Scenarios

C. INDIRECT PER DIEM EFFECTS

The fiscal effects involved with per diem checks, galley operations, and to a lesser extent, missed meals, are all easily visible. However, changes in the per diem program affects other aspects of the base too. The change in disposable income, price of economic substitutes, and policies will alter the behavior of military personnel. The MWR Department relies on the disposable income of, and is in direct competition with the galley for, customers. The base might also incur additional expenses due to policy changes. Without addressing

these issues, the services provided to the transient personnel could be adversely affected, decreasing the quality of life for all base personnel.

1. Morale, Welfare, and Recreation Activities

MWR activities are essential to the quality of life on each installation. They include eating establishments, fitness centers, recreational activities, and family services. While appropriated funds support several of the service activities, their programs often have to be augmented by the profits from the revenue generating activities. These activities include eating establishments and some recreational activities (bowling and golf). The effect of a per diem change will depend on the proportion of transient personnel to permanent base personnel and the size of the monetary change. Compared to the monthly disposable income on that base, a small per diem change might not be noticeable to the revenue generating activities. MWR operating summaries for the three bases are in Appendix F.

a. NAS Fallon

NAS Fallon (Fallon) is utilized by VFA-125 (Replacement Air Group) for advanced instruction and by carrier air wings for pre-deployment workups. Fallon is located in northern Nevada, near the several operational ranges. While VFA-125 has a permanent detachment, the carrier air wings have the biggest impact with over 2000 personnel detached there for over three weeks each time.

Before Smart TAD, personnel had the choice of eating at any of the three clubs, the galley, flight-line galley, or buying food supplies at the commissary. While officers were not permitted to eat at the galley, the Officers' Club (Silver State Club) provided three nutritious meals each day. Today, the same meal sources are available, with the exception of the Silver State Club. The Silver State Club is currently only able to provide food service during the weekday lunch hours. The bar is still open in the evenings, but does not offer food service.

MWR activities are essential to the morale of personnel at NAS Fallon, Nevada. Being an isolated site, on-base recreational activities are the main source of entertainment for most transient personnel. The revenue generated by the club system is used to sponsor activities which enhance the quality of life for all base personnel. The main clubs are the Enlisted Sports Line Bar & Grill, Silver State O'Club, and Chief's Club. While the Sports Bar is operating at a profit, the Silver State O'Club and Chief's Club are both operating at a loss.

The Silver State Club is currently operating at a loss, being barely able to support weekday lunches and a nighttime bar. As more officers began utilizing government messing, its patronage has dropped by over 85%. The management is forced to operate during a time of uncertainty, unable to predict the number of lunches going to be served and not able to maintain a sufficiently trained staff to accommodate special requests. The 13 fulltime employees have been cut to 5 part-time employees.

The reduction in patronage and profitability can be compared on the following graphs. The increase in officer rations in the galley matches the decrease in O'Club revenue.

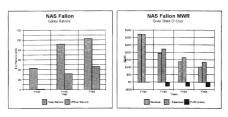


Figure 10. Galley Rations and O'Club Operations Comparison

The Chief's Club is not profitable and is only open for bar operations. The MWR Director will not close the club because it would be a further erosion of the services provided to the chiefs. While they are currently exploring options for improving the financial outlook for the club, the reduced per diem paid to the chiefs eliminates the option of providing any form of food service.

The Sports Line Bar & Grill is the only surviving club. A few years ago, MWR began to explore ideas for providing more services to the enlisted members, encouraging them to remain on base for their recreation. The sports bar concept has been a significant success. By renovating the old Enlisted Club, adding televisions and other recreational activities, they have been able to provide the enlisted members a viable alternative to going off base for their relaxation. Furthermore, a recreational coordinator was hired to plan special events.

The reduction to per diem rates has adversely affected the MWR operations. While the Sports Line Bar & Grill was able to recover from the change by providing better services which attracted more customers, the Silver State Club was not able to make the transition. The resulting reduction in services is unacceptable if the quality of life for officers and chiefs is to be maintained. A subsidy should be paid to the clubs to ensure that the clubs are open for the basic services and nightly camaraderie. \$90,000 each year would enable the club manager to maintain a staff which would be available for daily operations and special events. While the \$90,000 will not solve the problem of decreased patronage, it will enable the clubs to offer the same services which were available before Smart TAD began. The remaining shortfall would be made up in increased revenue due to the restoration of services.

b. NAVSUPPFAC Diego Garcia

Diego Garcia is a remote site, located in the middle of the Indian Ocean, and personnel do not have many alternative dining choices. Furthermore, all military personnel have been able to utilize the government dining facility. Although the surcharge may have deterred some personnel from utilizing the galley on a regular basis, the lack of choices encouraged occasional patronage. Coupled with the fact that the other dining alternatives had very reasonable prices, AIRPAC's Smart TAD program did not have a significant impact on club revenues. On an isolated site, personnel had the disposable food income to eat where they desired without significant financial strain.

While the Officer's Club posted a loss for FY93 and FY95, this is due primarily to depreciation on the new building. As with NAS Fallon, the MWR Department has increased customer enjoyment by introducing slot machines to the club system. While this only increases profits by \$40,000 each year, the presence of additional patrons increased their overall revenue. Because transient personnel make up a significant portion of the island's military population, the decrease in disposable income seems to have affected the revenue at the Peacekeeper Inn and Officer's Club. A liberal subsidy of \$30,000 would help maintain the quality of service at these establishments and make up for lost profits to the MWR.

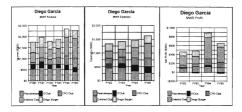


Figure 11. Diego Garcia MWR Operations

Misawa AFB

The main revenue generators for the Services Squadron (Air Force's MWR) are the clubs, bowling alley, golf course, and concessionaires. Again, the enlisted clubs do not seem to be adversely affected by a reduction in per diem payments. For the Officer's Club, the small number of transient naval officers might have a minor impact. The food services at the bowling alley would also be affected. While the bowlers would continue to utilize the eating facilities, the number of transient personnel just eating there would be reduced. Coupled with their low operating margin, a small subsistence might be necessary to ensure that their services are not reduced. The major losers would be the concessionaires. While the navy is under no obligation to ensure the survivability of concessionaires, the decreased funds provided to the Support Squadron is of some concern.

The Services Squadron uses the profits from the revenue generating activities to support the fitness center, child care facility, youth activities Transient personnel only utilize the fitness center and any subsidy of the Support Squadron should be limited to those activities which are utilized by transient personnel. In Misawa's case, a \$20,000 total subsidy is recommended because the future profits derived from transient personnel might not be sufficient to cover the services provided to the transient personnel.

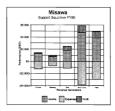


Figure 12. Misawa AFB Support Squadron Operations

2. Base Operating Expenses

In a few instances, an installation will incur additional operating expenses in order to support the availability of the government dining facility for transient personnel. These expenses should be reimbursed by the Type Commander. Of the three installations evaluated, NAVSUPPFAC Diego Garcia incurred additional expenses when they provided the "VP Express" to transport squadron personnel between the hangar and dining facility every 15 minutes during meal hours. The estimated annual expense for this service is \$3,000 for fuel and \$10,000 for labor and general administrative expenses.

3. Military Construction Requirements

Most military dining facilities are not designed for both officers and enlisted personnel. At a time when fraternization is being strictly discouraged, it is not appropriate to have officers, senior enlisted, and junior enlisted personnel eating together. The NAS Fallon Galley is slated for a MILCON Project which would provide suitable eating areas, along with other improvements, for a one-time cost of \$1.2 million. Other dining facilities may also require similar modifications.

4. Other Expenses

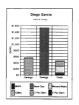
When the government provides a service, there are additional costs which are not readily apparent. The processing of travel claims is a significant cost and is being addressed by the DoD Task Force to Reengineer Travel. While the cost associated with reimbursing some personnel 50% of the daily per diem rate for missing 1-2 meals is less than processing travel claims for all personnel in the transient unit, it is significantly more than directing all personnel to eat in government messing facilities with no additional reimbursement.

A logistical cost of transporting additional food and supplies to the government messing facilities would increase the cost for each meal. This cost is not currently recognized as a cost of operating a dining facility. While the increased transportation costs for NAS Fallon would be minimal, the increased transportation costs for NAVSUPPFAC Diego Garcia could be significant. To the extent that personnel eat at either the galley or MWR activities, which both utilize defense supply channels, the transportation costs will remain fairly constant. If the personnel alter their eating preferences from concessionaires to the galley, the Defense Supply Center will experience additional transportation costs. In the private sector, these costs are reflected in the item price.

D. NET SAVINGS

The Type Commander must determine whether directing their personnel to utilize government messing will achieve the cost savings anticipated. The annual net savings range from \$1.7 million for NAVSUPPFAC Diego Garcia to \$3.2 million for NAS Fallon. Although the Type Commander will achieve the greatest cost savings at NAS Fallon, they will also need to complete a \$1.2 million construction project before the galley will be able to adequately accommodate officers with the senior and junior enlisted personnel. For Misawa AFB, the Type Commander will need to consider whether the costs of completing a construction project at an Air Force installation in a foreign country is worth the projected \$1.7 million annual savings. Actual values can be found in Appendix G.





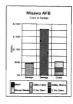
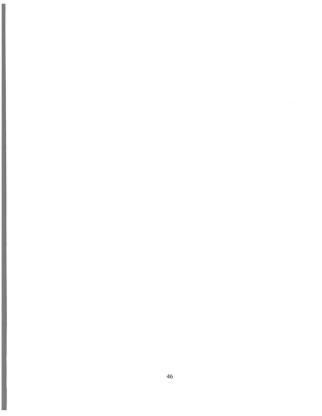


Figure 13. Costs / Savings Comparison for Each Base

To complete this analysis, it must be understood where these savings are coming from. While the government dining facilities are being better utilized, the galley efficiency cannot account for the complete savings figures. Personnel at their PCS installation decide to eat at different establishments at their own cost. When personnel are not on a travel status, they are not reimbursed for these expenses, aside from their subsistence. Travelers, just like at home, will eat some of their meals in their quarters, the coffee mess, fast food outlets, the club system, and sometimes decide to eat a snack instead of a meal. Even if everyone chose to eat in the galley for free instead of the O'Club, there would be substantial savings.

When personnel are on an extended detachment or deployment, they do not spend their full per diem payment. Per diem is based on eating in an average restaurant. When travelers do not eat all of their meals at an average restaurant, they save the difference. This personal savings is the portion of the per diem that will be eliminated and accounts for a significant portion of the net savings.



V. CONCLUSIONS

Naval personnel enter the Navy expecting to travel. They know that they will be away from their homes for extended periods of time, but expect the Navy to provide food and lodging while on these detachments and deployments. Furthermore, they expect their families to be safe and cared for. If the Navy provides support services for families and adequately reimburses travelers for their reasonable expenses, the travelers are able to carry out their assigned duties without distractions.

A THE CURRENT TRAVEL FUNDING PROCESS

Travel funds are appropriated by Congress through the O&M account. The budget is further allocated through the services to the Type Commanders. With the budgeted funds, the Type Commander is responsible to ensure that their personnel are adequately trained and that the assigned missions are accomplished. As funds are decreased and mission requirements remain the same, Type Commanders must make difficult budgetary decisions.

Per diem is a significant portion of the travel budget. Generally, Type Commanders do not have control over what per diem rate is to be paid to the personnel. However, there have been a few innovative programs developed to enable the military to fulfill their "contract" with the service members while having enough funding to accomplish the mission.

1. AIRPAC's Smart TAD Program

AIRPAC recognized that galleys were undenstilized and received a waiver of the surcharge for naval personnel at 5 AIRPAC bases. This resulted in the reduction of the food portion of per diem to the food portion of the galley costs (no surcharge). For FY94, it was estimated that AIRPAC saved over \$8 million through the Smart TAD program.

Although the savings are impressive for AIRPAC's efforts, the implementation of their program needs some revisions. While they do recognize the additional costs to the galley as being appropriate costs of the program, they do not recognize the adverse effects on the MWR activities. Some government messing facilities also need additional construction to adequately enable officers, chiefs, and junior enlisted personnel to utilize the same facilities. Furthermore, in AIRPAC's effort to reduce travel costs, the message has been received by the Squadron Commanders that there is no way to reimburse their personnel should they be unable to utilize government messing facilities. These issues must be addressed for this program to be successful.

a. MWR Activities

MWR activities at NAS Fallon have suffered due to AIRPAC's Smart TAD program. While the Sports Line Bar & Grill has been profitable, the Silver State Club has taken a big blow. Furthermore, it can be argued that all of the clubs would have been more profitable had the transient personnel received more disposable income. MWR activities directly enhance the quality of life for permanently stationed and transient personnel alike.

The effects on the whole base must be considered. While I do not suggest that the clubs be wholly subsidized by AIRPAC, the clubs should be compensated for maintaining a level of expected service which is unprofitable, but is critical for the maintenance of the personnel quality of life. For example, the personnel costs of the Silver State Club should be subsidized by AIRPAC so that the club could be open for all meals during the week. Furthermore, it should be recognized that some of the profits generated by the clubs are used to fund other activities which are important but not as self-sustaining.

h. Missed Meals

AIRPAC's position is that requests for missed meals can be submitted by personnel who are unable to eat in government facilities due to operational requirements. However, the approval authority rests with AIRPAC due to some perceived abuses by the Squadron Commanders. Furthermore, most of the few requests are rejected by AIRPAC. While not explicit, the message received by the Squadron Commanders is that missed meal requests are not encouraged. Personnel have been missing meals at their own expense, leading to significant dissatisfaction on the part of the travelers.

By recognizing the cost of missed meals, AIRPAC will be able to focus resources on why personnel are missing meals and how to reduce the overall missed meal expenditure. There are costs associated with the missed meals, whether it is in the form of payments to the travelers or payments to the galley for increased services, there is a tradeoff. While it may not be cost-effective to open the galley for ten personnel who eat their mid-shift meal at 0100, it might be worthwhile to adjust the galley or working hours of 75 personnel who do not have time to eat in the galley and arrive at work on time.

B. THE FUTURE TRAVEL PROCESS

As a whole, the travel process has drawn criticism. Aside from the costs to conduct actual travel, criticism has been made of the complex regulations and the high administrative costs. Both users and observers agree that the program is too complex and costs too much IREF 4]. Any change in the process must address these concerns.

The DoD Task Force to Reengineer Travel has released its recommendations for a better program. Its major thrust is to empower the Type Commander to make the appropriate travel decisions and to simplify the accounting process. Another significant recommendation for the creation of a 'deployment travel' category would allow deployed personnel to receive services in kind. Any proposal affecting the travel process should support the objectives of this team.

C. ADAPTATIONS FOR REGULAR UNIT DEPLOYMENTS.

This thesis addressed the unique situation of aviation squadrons in the Navy. They are routinely deployed to overseas U.S. bases and have an operational schedule which is not always supported by the government messing facilities. While personnel should utilize government messing to the fullest extent possible, there must be a process in place which would support the deployed unit and its personnel.

Each base is unique. If a base is deemed suitable for a Rations In Kind program, then further investigation should be made to ensure that the quality of life for the travels will not suffer when the per diem system is changed. This includes measuring the effects of the transient personnel on MWR activities and what additional costs would be borne by the galley and installation

D. RECOMMENDATIONS

AIRPAC's Smart TAD program and the recommendations of the DoD Task Force to Reengineer Travel are compatible and should be expanded. While there are minor differences, a more thorough study of the effects of reducing the per diem levels could be conducted at some bases while the services in kind concept is implemented at other installations immediately. The following actions should be undertaken as a prelude for changing the per diem level at a few select bases which currently have the resources to adequately support transient personnel.

- Eliminate the food portion of per diem and allow personnel to eat in the galley for free. A sticker affixed to the ID card would suffice for identification.
- Require the Type Commander to reimburse the galley directly for the meals eaten by their personnel (this is similar to a new program where the Type Commander reimburses the BOQ and BEQ directly for the number of rooms used by their personnel).
- Reimburse travelers for missed meals at the DoD Task Force to Reengineer Travel rate of 50% for one or two missed meals each day and 100% of the local per diem rate for three missed meals.
- 4. Approve missed meal requests at the Squadron Commander level with just enough documentation to identify common reasons for missing meals. If the requests must be audited, let this audit be limited to a sample of the requests. At the end of each month, the Administration Department would submit a squadron list to the Personnel Support Detachment with any travel claims for checks to be cut for the personnel.
- Provide travelers with a check each month for incidentals. If they missed meals during the previous month, their check amount would be higher.
- Negotiate an agreement covering all services, similar to an Inter-service Support Agreement, which would be the basis for reimbursement by the Type Commander to the galley and MWR Department for increased costs or lost revenue.

F FUTURE THESIS TOPICS

Areas for further study emerged as the thesis process progressed. Initially, the reporting requirements for galley contractors are not specific enough to conduct an analysis of their current operations. In some cases, financial analysts do not even trust the information provided by the contractor and rely solely on what was paid under the fixed price contract. The benefits of better information should be compared to the additional reporting costs.

The next area of interest concerns the elimination of per diem and what the effect would be on concessionaires and MWR activities. There was an effect when AIRPAC reduced per diem to the galley food rate, but no study has been completed on how that actually impacted the concessionaires and MWR activities. The effects of a complete elimination of per diem is needs further study.

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APPENDIX A. POM FUNDING FOR PER DIEM

(\$000)	FY 92	FY 93	FY 94	FY 95	FY 96	FY 97	Totals
	Actuals	Actuals	Actuals	Curr Est	Budgeted	Budgeted	
O&M,N							
Per Diem	207,022	175,849	196,285	172,047	163,758	155,669	1,070,628
Other Travel Costs	107,042	92,073	98,551	94,135	95,246	93,603	580,650
AMC Passage	19,403	20,036	14,271	14,564	14,459	14,541	97,274
Leased Vehicles	10	4	35	3	3	3	58
Leased Vehicles	17,863	16,597	22,795	20,656	20,698	21,346	119,955
Total O&M,N	351,340	304,559	331,937	301,405	294,162	285,162	1,868,585
PACFLT O&M,N							
Per Diem	47,128	36,170	42,390	41,167	37,708	36,184	240,747
Other Travel Costs	24 990	16 780	22 931	21 210	20 205	10 600	125 824

Per Diem	47,128	36,170	42,390	41,167	37,708	36,184	240,747
Other Travel Costs	24,990	16,780	22,931	21,219	20,295	19,609	125,824
AMC Passage	10,347	8,093	6,656	6,984	6,719	6,567	45,366
Leased Vehicles	1,399	955	3,999	2,257	2,128	2,140	12,878
Total PACFLT	83,864	61,998	75,976	71,627	66,850	64,500	424,815

APPENDIX B. PDFF MODEL

									Direct	Gatey	Revenue	73,377	91,721	0	
											Reimb	1,514,880			* \$216,000 y)
			A1	2				3	Total	Airpac	Payment	1,514,880	751,523	678,146	or simplicit
24	63120	0.5	0.1 A	0.75 A2	1-6	4.65	13.96	4.65 A3	Recon	Payment	to Galley	0	0	110,066	>60,000 Ratio e Enlisted Mod
\$Per Diem	7	ť.	MPE		0	BMR	Surcharge	SRation	Missed	Meal	Reimb	0	459,015	568,080	equirements: Included in the
									Total	Per Diem	Reimb	1,514,880	293,508	0	Galley Labor Requirements: >60,000 Rations (Included in the Enlisted Model I
										Š	Rations	35,505	19,725	15,780	
	-		te Galley							=	EZ	47,340	47,340	47,340	rovided MP
	Number of Transient Personnel		Marginal Propensity to Eat in the Galley	ntage	92					Š	Rations	3,945	19,725	23,670	3 Costs
n Rate	of Transie	Galley Percentage	Propensit	Missed Meal Percentage	Commercial Sources	Basic Meal Rate	Surcharge Rate	Cost Per Ration		Per G-Use	8	1.0	0.5	0.6	es Program es Program es Program
Per Diem Rate	Number	Galley P	Margina	Missed	Comme	Basic M	Surchan	Cost Pe		Per	Diem	54	S)	0	A1 increase A2 increase A3 increase
\$Per Diem	z	o	MPE	Σ	o	BMR	Surcharge	\$Ration			Program	Lodgings Plus	Smart TAD	Rations In Kind	An increased A1 increases Program 3 Costs An increased A2 increases Program 3 Costs 3 An increased A3 increases Program 3 Costs provided MPE>0
												-	c i	3	

59

NAS Fallon, NV Officers

Compared to Adopting Prop. Compared to Adopting Prop.						Compared to
Sensor 14.00 Sensor				Compared to L	odgings Plus	Smart TAD
\$41,004,429 \$10,004,002 \$10,004,001 \$10,00	Lodgings Plus	Smart TAD	Æ	Savings Smart TAD	Savings	Savings
8560, 55 10 00, 00 10 00,	1,514,880	\$415,645	\$309,982	\$1,099,235	\$1,204,698	\$105,663
815/15/2 810/16/40 810/15/80 810/15/	1,514,880	\$596,851	\$510,799	\$916,029	\$1,004,081	\$88,062
\$100,152 \$100,000 \$100,300	1,514,880	\$751,523	\$678,146	\$763,358	\$836,735	\$73,377
\$191,523 \$600,601 \$170,300 \$600,00 \$191,523 \$600,440 \$170,330 \$600,73 \$190,400 \$170,400 \$170,404 \$1,004,400 \$1,004,400 \$104,40 \$1,004,400 \$1,000,400 \$104,400	1,514,880	\$904,194	\$845,492	\$610,686	\$669,388	\$58,702
\$191,523 \$888,801 \$103,559 \$856,000 \$105,550 \$856,000 \$105,550 \$10						
9070,146 9703,350 858,755 900,400 7703,350 8510,300 900,400 9708,644 800,600 900,400 9008,104 900,400 91,000,400 9008,400	1,514,880	\$751,523	\$659,801	\$763,358	\$855,079	\$91,721
6006-400 F7153.56 8510.300 \$177,440 \$177,440 \$177,440 \$1091.75 \$177,440 \$1700,450 \$1004.40 \$1,000,450 \$104,48	1,514,880	\$751,523	\$678,146	\$763,358	\$636,735	\$73,377
15:04:00 (00:00:00:00:00:00:00:00:00:00:00:00:00:	1,514,880	\$751,523	\$696,490	\$763,358	\$818,390	\$55,033
\$19.401 \$808.400 \$178.644 \$809.400 \$807.500 \$178.640 \$809.200 \$178.40 \$809.200 \$178.40 \$809.400 \$1.004.68						
\$606.430 \$178,444 \$807.579 \$175,440 \$1707,440 \$100.000 \$1.000,420 \$1.000,420 \$1.000,422 \$1.000,422 \$1.000,422						
\$177.440 \$197.740 \$177.440 \$177.440 \$177.440 \$177.440 \$177.440 \$177.440 \$1.000,422 \$1.000,422 \$1.000,422	1,514,880	\$758,426	\$686,430	\$756,454	\$828,450	\$71,996
\$476,776 \$1920,450 \$509,104 \$989,430 \$1,024,438 \$1,000,452 \$460,442 \$514,428	1,514,880	\$817,601	\$757,440	\$697,279	\$757,440	\$60,161
\$1,000,452 \$490,442 \$514,428	1,514,880	\$876,776	\$928,450	\$636,104	\$696,430	\$48,326
\$1,000,452 \$490,442 \$514,428						
	1,514,880	\$1,024,438	\$1,000,452	\$490,442	\$514,428	\$23,986

4	NAS Fallon, NV											
	\$Per Diem	Per Die	Per Diem Rate					CDay Diam	9			
	z	Number	of Transie	Number of Transient Personnel	-				178258			
	o	Galley F	Salley Percentage					. 0	0.5			
	MPE	Margina	Propensi	farginal Propensity to Eat in the Galley	he Galley			MPE	0.1	Α1		
	>	Missed	Missed Meal Percentage	entage				2	0.5	A2		
	o	Comme	Commercial Sources	55				0	ō			
	BMR	Basic M	Basic Meal Rate					BMR	4.65			
	Surcharge	Surchan	Surcharge Rate					Surcharge	13.95			
	\$Ration	Cost Pe	Cost Per Ration					\$Ration	4.65 A3	A3		
							Total	Missed	Recon	Total	Total	Direct
		Per	Per G-Use				Per Diem	Meal	Payment	Airpac	Traveler	Gallev
- 1	Program	Diem	ŝ		RN	No		Reimb	to Galley	Payment	Reimb	Revenue
	Lodgings Plus	19	0.1	15,863	35251	142,767	3260736		°	3260736	3260736	295053
	Smart TAD	S	0.5	79,315	35251	79,315			216000	1279705	1063705	368816
	Rations In Kind	0	9.0	95,178	35251	63,452		326074	658579	984652	326074	0

Galley Labor Requirement >60,000 Rations An increased A1 increases Program 3 Costs
 An increased A2 increases Program 3 Costs
 An increased A3 increases Program 3 Costs, provided MPE>0.

326074 + \$216,000

0.00 61

⁽Included in the Enlisted Model for simplicity)

						Compared
NAS Fallon E			2061048	Compared to Lodgings Plus	odgings Plus	Smart TAD
			1953884			
				Savings	Savings	Savings
Assumptions	Lodgings Plus	Smart TAD	₹ ¥	Smart TAD	RIK	₹ ¥
M = 0.10	\$3,260,736	\$1,157,648	\$846,203	\$2,103,088		\$311,444
M = 0.20	\$3,260,736	\$1,279,705	\$964,652	\$1,981,031		\$295,053
M = 0.30	\$3,260,736	\$1,401,762	\$1,123,102	\$1,858,974	\$2,137,634	\$278,661
M = 0.40	\$3,260,736	\$1,523,820	\$1,261,551	\$1,736,916		\$262,269
M = 0.20						
G = 0.4	\$3,260,736	\$1,279,705	\$910,889	\$1,981,031	\$2,349,847	\$368,816
G = 0.5	\$3,260,736	\$1,279,705	\$984,652	\$1,981,031	\$2,276,084	\$295,053
G = 0.6	\$3,260,736	\$1,279,705	\$1,058,416	\$1,981,031	\$2,202,320	\$221,289
M = 0.20						
G = 0.5						
SRation = 5	\$3,260,736	\$1,307,465	\$1,017,965	\$1,953,271	\$2,242,771	\$289,500
SRation = 8	\$3,260,736	\$1,545,411	\$1,303,500	\$1,715,325	\$1,957,236	\$241,911
SRation = 11	\$3,260,736	\$1,783,356	\$1,589,034	\$1,477,380	\$1,671,702	\$194,322
M=0.4						
G = 0.6	\$3,260,736	\$2,061,048	\$1,953,864	\$1,199,688	\$1,306,852	\$107,164
\$Ration =11						

NAVSUPPFAC Diego Garcia

BMR Beauchwall Rate Surcharge Rate Surcharge Cost Per Ration Cost Per Ration Per Guise	Basic Meal Rate					3MR Surcharge	6	0.2 A2		
8 F						Surcharge	4.65			
E	arge Kate						13.96			
	Cost Per Ration					\$Ration	4.65 A3	A3		
					Total	Missed	Recon	Total	Total	Direct
	Per G-Use				Per Diem	Meal	Payment	Airpac	Traveler	Galley
	Diem %	N BN	4m	No	Reimb	Reimb	to Galley	Pament	Reimb	Revenue
1. Lodgings Plus 19	1.0		22066	99,366	2096232	0	0	2096232	2096232	184689
2 Smart TAD 5	9 0.9	49,648 22		49,648	513025	158321	0	671346	671346	23086
3. Rations in Kind 0				39,718	0	209623	277034		209623	
1. An increased A1 increases Program 3 Costs	ases Program 3	Costs								
An increased A2 increases Program 3 Costs An increased A3 increases Program 3 Costs, provided MPE>0	ases Program 3 ases Program 3	Costs, provic	ded MPE	0						

63

Smart TAD	Savings	\$194,950	\$184,689	\$174,429	\$164,168		\$230,861	\$184,689	\$138,517			\$191,143	\$171,284	\$151,425		\$93,558	
dgings Plus	Savings	\$1,696,996	\$1,609,575	\$1,520,154	\$1,430,734		\$1,655,747	\$1,609,575	\$1,563,403			\$1,648,300	\$1,529,146	\$1,409,992		\$1,182,716	
Compared to Lodgings Plus	Savings Smart TAD	\$1,504,046	\$1,424,886	\$1,345,726	\$1,266,565		\$1,424,886	\$1,424,886	\$1,424,886			\$1,457,157	\$1,357,862	\$1,258,567		\$1,069,158	
	¥	\$397,236	\$486,657	\$576,078	\$665,498		\$440,485	\$486,657	\$532,829			\$447,932	\$567,086	\$686,240		\$913,516	
	Smart TAD	\$592,186	\$671,346	\$750,506	\$829,667		\$671,346	\$671,346	\$671,346			\$639,075	\$738,370	\$637,665		\$1,007,074	
	Lodgings Plus	\$2,096,232	\$2,096,232	\$2,096,232	\$2,096,232		\$2,096,232	\$2,096,232	\$2,096,232			\$2,096,232	\$2,096,232	\$2,096,232		\$2,096,232	
NAVSUPPFAC Diego Garcia	Assumptions	M=0.10	M = 0.20	M = 0.30	M = 0.40	M = 0.20	G = 0.4	G = 0.5	G = 0.6	M = 0.20	G = 0.5	\$Ration = 4	\$Ration = 6	\$Ration = 8	M 0 = 0	90=0	\$Ration = 8

Misawa AFB, Japan

	Sher Diem	Yer Diem Rate	1 Kale					Sher Diem	19			
	z	Number	of Transier	Number of Transient Personnel				z	123840			
	o	Galley Pe	Galley Percentage					O	0.5			
	MPE	Marginal	Propensity	Marginal Propensity to Eat in the Galley	e Galley		-	MPE	0.1 A1	A1		
	×	Missed N	Missed Meal Percentage	ntage			_	5	0.2 A2	A2		
	0	Commerc	Commercial Sources	22				0	1.6			
	BMR	Basic Meal Rate	sal Rate				_	BMR	4.65			
	Surcharge	Surcharge Rate	pe Rate					Surcharge	13.95			
	S Ration	Cost Per Ration	Ration					\$Ration	4.65 A3	A3		
							Total	Missed	Recon	Total		Direct
		Per	Per G-Use				Per Diem	Meal	Payment		Traveler	Galley
	Program	Diem	ø	o N	E	S	Reimb	Reimb	to Galley		Reimb	Revenue
-	Lodgings Plus	19	1.0	11,146	24768	100,310	2352960	٥	٥	2352960	2352960	207308
3	Smart TAD	10	0.5	55,728	24768	55,728	575856	177710	146490	990006	753566	259135
6	Rations In Kind	0	9.0	66,874	24768	44,582	0	235296	457452	692748	235296	0
	1. An increased A1 increases Program 3 Costs	1 increase	ns Program	3 Costs			Galley Labor	Galley Labor Requirement <100 Rations/Day	<100 Ration	s/Day	3 E-4s	\$87,894
	2. An increased A2 increases Program 3 Costs	2 increase	s Program	3 Costs					101 - 150 Rations/Day	stions/Day	4 E-4s	\$117,192
	3. An increased A3 increases Program 3 Costs, provided MPE>0.	3 increase	is Program.	3 Costs, pr	ovided MP	E>0.			151 - 200 Rations/Day	stions/Day	5 E-4s	\$146,490

65

						Compared to
Misawa AFE				Compared to Lodgings Plus	odgings Plus	Smart TAD
				Savings		Savings
Assumptions	Lodgings Plus	Smart TAD	¥.¥	Smart TAD		ž
M = 0.10	\$2,352,960	\$811,201	\$592,376	\$1,541,759		\$218,825
M = 0.20	\$2,352,960	\$900,056	\$692,748	\$1,452,904		\$207,308
M = 0.30	\$2,352,960	\$959,614	\$793,121	\$1,393,346		\$166,493
M = 0.40	\$2,352,960	\$1,048,469	\$893,493	\$1,304,491	\$1,459,467	\$154,976
M = 0.20						
6=0.4	\$2,352,960	\$870,758	\$640,921	\$1,482,202	\$1,712,039	\$229,837
G=0.5	\$2,352,960	\$900,068	\$692,748	\$1,452,904	\$1,660,212	\$207,308
9.0 = 0	\$2,352,960	\$300,056	\$744,575	\$1,452,904	\$1,608,385	\$155,481
M = 0.20						
G = 0.5						
\$Ration = 3	\$2,352,960	\$909,105	\$592,407	\$1,544,855	\$1,770,553	\$225,698
\$Ration = 5	\$2,352,960	\$919,561	\$716,154	\$1,433,399	\$1,636,806	\$203,407
SRation # 7	\$2,352,960	\$1,031,017	\$649,901	\$1,321,943	\$1,503,059	\$181,116
M 4.0 = M						
90=0	\$2,352,960	\$1.217.458	\$1 102 535	\$1 135 502	\$1,135,502 \$1,250,425	\$114 924

APPENDIX C. PER DIEM FORECASTS

NAVSUPPFAC Diego Garcia

	Detachment Personnel	Per Diem Rate	Monthly Per Diem	Annual Per Diem
BOQ Month	2,462	\$19.00	\$46,778	\$561,336
BEQ Month	6,732	\$19.00	\$127,908	\$1,534,896
	9,194		\$174,686	\$2,096,232

NAS Fallon, NV

	Detachment Personnel	Per Diem Rate	Monthly Per Diem	Annual Per Diem
BOQ Month	5,260	\$24.00	\$126,240	\$1,514,880
BEQ Month	14,688	\$18.50	\$271,728	\$3,260,736
	19 948		\$397.968	\$4 775 616

Misawa AFB, Japan

	Detachment	Per Diem	Monthly	Annual
	Personnel	Rate	Per Diem	Per Diem
BOQ Month	2,130	\$19.00	\$40,470	\$485,640
BEQ Month	8,190	\$19.00	\$155,610	\$1,867,320
	10,320		\$196,080	\$2,352,960

NOTE: Detachment personnel are estimated at 85 - 90% of the BEQ/BOQ t

APPENDIX D. GALLEY OPERATIONS

	Military	CCE	Supplies	BOS	Stores	Utilities	Depr &	Total
	Compensation		& Material	Contract	Consumed		Upkeep	Expenses
FY92	201,218	0	93,153	799,347	1,131,980	0	0	2,225,698
FY93	181,743	0	2,000	687,500	1,161,487	6,136	50,000	2,088,866
FY94	151,445	0	2,000	1,224,359	1,111,532	6,504	50,000	2,545,840
	BMR	Surcharge	Total		Net	Rations	Cost/	
	Collected	Collected	Revenue		Cost	Fed	Ration	
FY92	271,936	30,127	302,063		1,923,635	232,893	8.260	
FY93	288,896	27,279	316,175		1,772,691	239,664	7.397	
FY94	310,334	20,094	330,428		2,215,412	219,681	10.085	
		Rations	Cost/		Stores	Rations	Cost/	
	Contract	Fed	Ration		Consumed	Fed	Ration	
FY92	2,024,480	232,893	8.693		1,131,980	232,893	4.861	
FY93	1,850,987	239,664	7.723		1,161,487	239,664	4.846	
FY94	2,337,891	219,681	10.642		1,111,532	219,681	5.060	
		Rations	Military	Supplies	BOS	Stores		
		Fed	Compensation	& Material	Contract	Consumed		
FY92		232,893	201,218	93,153	799,347	1,131,980		
FY93		239,664	181,743	2,000	687,500	1,161,487		
FY94		219,681	151,445	2,000	1,224,359	1,111,532		
Correlat	ion Analysis							
			Military					
		Rations	Compensation	Supplies	FSA	Stores		
Rations		1						
	Compensation	-0.515	1					
Supplier		0.828	-0.131	1				
FSA Co		-0.701	-0.169	-0.637	1			
Stores Consumed		0.998	-0.569	0.814	-0.652	1		

NAS Fall	

NAS Fa	lion, NV							
			Provi	ded by the cor	ntractor (fixed po	rice contract)		
Galley C	Operations			(AIRPAC)	(AIRPAC)			
	Military	CCE	Supplies	BOS	Stores	Utilities	Depr &	Total
	Compensation		& Material	Contract	Consumed		Upkeep	Expenses
FY92	0	0	0	1,024,622	186,867	31,767	7,654	1,250,910
FY93	0	48,811	0	1,033,497	490,466	38,357	9,810	1,620,941
FY94	0	37,981	0	1,109,853	551,076	43,106	36,324	1,778,340
	BMR	Surcharge	Total		Net	Rations	Cost/	
	Collected	Collected	Revenue		Cost	Fed	Ration	
FY92	75,677	40,051	115,728		1,135,182	43,057	26.365	
F/93	262,090	8,123	270,213		1,350,728	91,676	14.734	
FY94	334,814	2,674	337,488		1,440,852	103,005	13,988	
	Fixed	Rations	Cost/		Stores	Rations	Cost/	
	Contract	Fed	Ration		Consumed	Fed	Ration	
FY92	416,898	43,057	9.678		186,867	43,057	4.340	
FY93	746,441	91,676	8.142		490,466	91,676	5.350	
FY94	809,619	103,005	7.860		551,076	103,005	5.350	
			(Comptroller)	(AIRPAC)	Combined	(AIRPAC)		
		Rations	BOS	BOS	(Labor +	Stores	Utilities	Depr &
		Fed	Contract	Labor	Stores)	Consumed		Upkeep
	FY92	43,057	416,698	1,024,622	1,211,489	186,867	31,767	7,654
	FY93	91,676	746,441	1,033,497	1,523.963	490,466	38,357	9,810
	FY94	103,005	809,619	1,109,853	1,660,929	551,076	43,106	36,324
Correla	tion Analysis							
		Rations	Comptroller	Labor	Combined	Stores	Utilities	Depr
Rations		1.000						
Comptr		0.997	1,000					
Labor (AIRPAC)	-0.572	-0.511	1.000				
Combin		0.205	0.276	0.685				
Stores	Consumed	0.989	0.997	-0.448	0.344	1.000		
Utilities		0.892	0.853	-0.859	-0.238	0.815	1.000	
Depr &	Upkeep	0.741	0.733	-0.248	0.341	0.739	0.668	1.000

Galley Operating Costs (Fixed Price Contract)

FY	Rations	Fixed Price	IQ Cost	Total Cost	Cost/Ration (BOS)
 1992	40,970	396,144	20,554	416,698	10.171
1993	91,798	396,144	350,297	745,441	8.131
1994	103,005	396,144	413,475	809,619	7.860
1995	94,486	396,144	347,671	743,815	7.872

Misawa AFB, Japan

Galley Operations

Stores Consumed Current Rations	\$700,000 200,000	\$3.50 / ration		
		Expected		Annual Change
Change (rations / day)	(50 - 100)	(101 - 150)	(151 - 200)	
Labor Requirements	+ 3 E-4s	+ 4 E-4s	+ 5 E-4s	
Military Compensation	\$87,894	\$117,192	\$146,490	\$146,490
Stores Consumed			\$195,048	\$195,048
Utilities	Minimal	Minimal	Minimal	Minimal
				\$341,538

APPENDIX E. MISSED MEAL ESTIMATES

NAVSUPPFAC Diego Garcia

	Detachment	20%	Monthly 50%	
	Personnel	Missed	Per Diem	Annual
BOQ Month	2,462	492	\$4,678	\$56,134
BEQ Month	6,732	1,346	\$12,791	\$153,490
	9,194	1,839	\$17,469	\$209,623

NAS Fallon, Nevada

		O = 75%	Monthly	
	Detachment	E = 20%	50%	
	Personnel	Missed	Per Diem	Annual
BOQ Month	5,260	3,945	\$47,340	\$568,080
BEQ Month	14,688	2,938	\$27,173	\$326,074
	19 948	6 883	\$74.513	\$894 154

Misawa AFB, Japan

		Monthly	
Detachment	20%	50%	
Personnel	Missed	Per Diem	Annual
2,130	426	\$4,047	\$48,564
8,190	1,638	\$15,561	\$186,732
10,320	2,064	\$19,608	\$235,296
	Personnel 2,130 8,190	Personnel Missed 2,130 426 8,190 1,638	Detachment 20% 50% Personnel Missed Per Diem 2,130 426 \$4,047 8,190 1,638 \$15,561

NOTE: Detachment personnel are estimated at 85 - 90% of the BEQ/

APPENDIX F. MWR OPERATIONS

Peacekeeper Inn FY90 FY91 FY92 FY93 FY94 FY95

NAVSUPPFAC Diego Garcia

Revenue	535302	601346	558,302	602,494	494,300	409,666
- Expenses			457,422	467,281	361,628	290.908
Profit (Loss)			100,880	135,213	132,672	118,758
O'Club	FY90	FY91	FY92	FY93	FY94	FY95
Revenue	229083	266640	186,503	152,936	223,591	208,406
- Expenses			171,570	163,123	195,967	227.095
Profit (Loss)			14,933	(10,187)	27,624	(18,689)
CPO Club	FY90	FY91	FY92	FY93	FY94	FY95
Revenue	89668	192812	244,539	301,940	415,974	422,788
- Expenses			185,625	235,549	270,432	312,083
Profit (Loss)			58,914	66,391	145,542	110,705
Enlisted Club	FY90	FY91	FY92	FY93	FY94	FY95
Revenue	451328	477467	464,817	435,056	849,306	895,592
- Expenses			269,670	271,816	372,891	545,588
Profit (Loss)			195,147	163,240	476,415	350,004
Diego Burger	FY90	FY91	FY92	FY93	FY94	FY95
Revenue	453205	440105	339,954	394,038	357,654	333,342
- Expenses			251,840	278,206	255,523	252,906
Profit (Loss)			88,114	115,832	102,131	80,436
NAS FAllon, NV						
Silver Star Club			FY92	FY93	FY94	FY95
Revenue			322,202	194,160	137.412	102.311
- Expenses			321.038	222.648	164.938	132,990
Profit (Loss)			1,164	(28,488)	(27,526)	(30,679)
Sports Line Bar & Grill						
Patronage by Meals			Breakfast	Lunch	Dinner	Bar
		CY95	14,554	26,439	21,889	61,059
			95% civ	95% civ	90% mil	90% mil
Misawa AFB, Japan						

	O'Club	NCO Club	Bowling	Golf	Total
Gross Income	709,046	3,786,199	718,263	1,235,751	6,449,259
Operating Expense	(1,167,841)	(2,970,885)	(691,138)	(1,100,320)	(5,930,184)
Other Income	598,383	1,075,981	124,574	549,566	2,348,504
Other Expense	(38,554)	(874,962)	(21)	3,643	(909,894)
	101 024	1.016.222	151 678	688 640	\$1.057.695

APPENDIX G. NET SAVINGS

NAVSUPPFAC Diego Garcia

Savings	Costs	
\$0	\$30,000	MWR
\$0	\$13,000	Base Operations
\$0	\$209,633	Missed Meals
\$0	\$0	Galley - Labor
\$0	\$148,009	Galley - Stores Consumed
\$561,541	\$0	Officer Per Diem
\$1,534,794	\$0	Enlisted Per Diem
\$2,096,335	\$400,642	

Net Savings \$1,695,692

NAS Fallon, Nevada

Savings	Costs	
\$0	\$90,000	MWR
\$0	\$0	Base Operations
\$0	\$1,075,781	Missed Meals
\$0	\$216,000	Galley - Labor
\$0	\$205,230	Galley - Stores Consumed
\$1,514,806	\$0	Officer Per Diem
\$3,260,704	\$0	Enlisted Per Diem
\$4,775,510	\$1,587,011	-

Net Savings \$3,188,499

Misawa AFB, Japan

Savings	Costs	
\$0	\$20,000	MWR
\$0	\$0	Base Operations
\$0	\$227,246	Missed Meals
\$0	\$146,490	Galley - Labor
\$0	\$195,048	Galley - Stores Consumed
\$469,026	\$0	Officer Per Diem
\$1,803,438		Enlisted Per Diem
\$2,272,464	\$588,784	

Net Savings \$1,683,680

NOTE: Galley labor includes all variable labor costs Galley stores include all other variable costs

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