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# NAVAL POSTGRADUATE SCHOOL Monterey , California



# THESIS

COSTS TO SHIP FRESH FRUITS AND VEGETABLES FROM DEFENSE SUBSISTENCE OFFICE, ALAMEDA VIA CONTROLLED ATMOSPHERE CONTAINERS

by

Gerard F. Brenner

March, 1994

Principal Advisor: Associate Advisor:

Dan C. Boger William Gates

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Costs to Ship Fresh Fruits and Vegetables From Defense Subsistence Office, Alameda Via Controlled Atmosphere Containers

by

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Submitted in partial fulfillment of the requirements for the degree of

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# ABSTRACT

This thesis involves determining the cost of shipping Fresh Fruits and Vegetables (FFV) from the Defense Subsistence Office (DSO), Alameda, to various customers on the Pacific Rim via controlled atmosphere refrigerated containers. The data was developed via interviews with personnel at various commands, particularly DSO Alameda, Defense Subsistence Region, Pacific (DSRPAC), Military Traffic Management Command, Western Area (MTMCWA), Military Sealift Command, Pacific (MSCPAC), and Military Sealift Command, Headquarters (MSCHQ). The thesis shows the processes involved in booking the shipment of FFV, manifesting them, and final billing of the customers. The entire process has never been documented. Understanding the process may suggest improvements. Additionally, showing actual costs will provide the data necessary for DSO Alameda's customers to plan their budgets, a critical factor in this time of shrinking defense budgets.



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## INTRODUCTION

A revolutionary method of shipping fresh fruits and vegetables (FFV) to overseas customers was developed at the Defense Subsistence Office (DSO) Alameda. This method involves shipping FFV in controlled atmosphere vans. The method was spearheaded by Lieutenant Commander James Kerber, Supply Corps, U.S. Navy, the Chief of DSO Alameda. It was the result of coordinating the efforts of both the civilian and military communities involved in the business of shipping FFV.

The method works well, providing a high quality product. It has introduced numerous efficiencies to FFV shipments between Oakland, California, and various locations on the Pacific Rim. It has reduced DSO Alameda's dependence on air shipments for overseas movement of FFV. The difficulty has been in assessing the method's relative cost, and Whether it has provided savings over air shipment. In order to discuss the problem, and why the controlled atmosphere method was developed in the first place, DSO Alameda's organizational relationships must be examined.

# A. DSO ALAMEDA'S ORGANIZATIONAL RELATIONSHIPS

The Defense Logistics Agency (DLA) is the branch of the Department of Defense (DoD) providing coordinated logistics support to DoD components, Federal agencies, and other organizations as assigned. Coordinated logistics includes procuring designated commodities. [Ref 1] DLA has six supply centers. Each specializes in managing certain assigned categories of material. [Ref 2:p. 5] The supply center with which this thesis is specifically concerned is the Defense Personnel Supply Center (DPSC).

DPSC is located in Philadelphia, Pennsylvania. DPSC buys and manages food, clothing and medical supplies. [Ref 2:p. 15] DPSC is divided into four directories: Medical, Clothing, Textiles, and Subsistence. All food items fall under Subsistence. The Subsistence Directorate is further subdivided into Semi-Perishable, which handles dry and canned goods, and Perishable, which is all freeze and chill items. FFV is a Perishable. [Ref 3]

Perishable items are handled by the Defense Subsistence Regions, each of which is assigned several Defense Subsistence Offices (DSOs). Defense Subsistence Region Atlantic (DSRLANT) is assigned seventeen DSOs, Defense Subsistence Region Europe (DSRE) has five DSOs, and Defense Subsistence Region Facific (DSRPAC) also has five DSOs. These organizational relationships are summarized in Figure 1. Of the twenty-seven DSOs, DSO Alameda is the largest. [Ref 3]

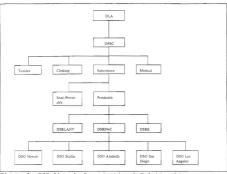


Figure 1 DSO Alameda Organizational Relationships

# B. PROBLEM BACKGROUND

Any Federal agency can purchase from a DSO. DSO customers tend to be the Defense Commissary Agency (DeCA) and DoD components, although current customers include Veteran's Administration hospitals, Indian reservations and Federal prisons. Only one of DSRPAC's DSOs, DSO Alameda, exports perishables. DSO Alameda's service area includes Nevada, Oregon, part of California, and the entire Pacific Rim. DeCA currently accounts for approximately 70% of DSO Alameda's sales in terms

of both dollars<sup>1</sup> and volume<sup>2</sup>. The DoD components which DSO Alameda services are generally troop customers - ships, camps and bases. [Ref 3]

One problem that arises because of the diversity of customers is a similar diversity of requirements. This situation has been exacerbated by DeCA's creation. Previously, commissaries were under the control of individual base commanders. Under DeCA, all commissaries speak with one voice. For DeCA, the key word for their products is marketability. Thus, DeCA may require brand names. For example, a ship ordering frozen turkeys would receive a generic product, while DeCA might specifically order a brand name such as Butterball. [Ref 3]

The need for marketability poses a problem for DPSC. DeCA does not have to buy from DPSC and in fact is now buying from major distributors. DeCA turned away from DPSC because of inconsistencies and late deliveries. Customers (the individual commissaries) didn't know what they would get, or when, or the product's quality. [Ref 3]

Subsistence also suffered from long Order and Shipping Times (OST). This was due in part to consolidation problems.

Last year DeCA purchased approximately \$110,000,000 worth of food from various DPSC activities. [Ref 3]

 $<sup>^{2}\</sup>text{Volume}$  is measured in terms of Measurement Tons (MTON). [Ref 3] A MTON is defined as 40 cubic feet. [Ref 4:p. 8] This is considered the maximum cube of a fully loaded standard pallet. A standard pallet is 40° x 48° x 7°. [Ref 5]

For example, Naval Supply Depot (NSD) Yokosuka would consolidate their customers' orders and send the consolidated order to DPSC. DPSC would then consolidate all orders for customers located in Japan. DPSC would arrange for shipping and then would order DSO Alameda to release the material. [Ref 3]

Another example of the OST problem was FFV for the commissaries in Guam. The commissaries would place their order with NSD Guam, who then gave a consolidated order to DSO Alameda. DSO Alameda had a time limit to get the FFV to NSD Guam, who then had a certain amount of time to get it to the secondary (final) customer. The end result was an OST of 90 to 120 days for the commissaries. DeCA found this unsatisfactory, and told DPSC they wanted OST lowered to 45 days. [Ref 3]

The DSOs do not control most of the items in their warehouses. The DSO Chief is not the accountable officer. The item managers and accountable officers are located at DPSC in Philadelphia. They decide inventory balance. DPSC sends issue documents to the DSOs and books seavans. DPSC control extends to the point that they tell the DSOs to issue specific lot numbers of a particular item. The only item which Lieutenant Commander Kerber had exclusive control over as Chief of DSO Alameda was FFV. [Ref 3]

## C. SERVICE IMPROVEMENT

As stated above, Lieutenant Commander Kerber had exclusive control over FFV. The FFV buyers worked for him, and he arranged to ship the FFV. Buyers purchased FFV on a daily basis, and the FFV was shipped either directly to the customer or to the DSO Alameda warehouse to await further transshipment. Lieutenant Commander Kerber wanted to improve customer service and satisfaction. Since it was the only item he had complete control over, Lieutenant Commander Kerber decided to attack the OST problem for FFV. [Ref 3]

One immediately identified problem was the delays caused by consolidating orders. Everywhere feasible, unnecessary distribution points were removed. DSO Alameda started dealing directly with the final customer. Instead of sending orders to a consolidation/distribution point, the customers faxed their orders directly to DSO Alameda. This reduced both OST and the amount of handling required. [Ref 3]

Lieutenant Commander Kerber contacted the Air Mobility Command (AMC), Military Sealift Command (MSC), and Military Transportation Management Command (MTMC) to find out about shipping options and the possibilities of improving the shipping process. He felt they had no real desire to change the status quo, nor was there sufficient technical expertise to come up with new techniques. [Ref 3]

Lieutenant Commander Kerber decided to forge ahead on his own. He decided to use air shipment, since it was considerably faster than surface shipment. He discovered that it was cheaper to use freight forwarders and commercial air carriers than to use AMC. This included all ancillary services, such as triwalls for the FFV and ice to preserve it. [Ref 3]

Lieutenant Commander Kerber let contracts directly with the freight forwarders. He later discovered that this was inappropriate. Such contracts were under AMC's cognizance. However, when AMC found out, there was sufficient empirical data to show that it was cheaper and faster to use commercial vice AMC assets. As a result, the commercial contracts remained in place. AMC merely took over contract administration for DSO Alameda. [Ref 3]

With commercial air shipment, OST dropped to 30 days. In some cases it dropped to between seven and ten days. FFV quality went up. Customers started requesting <u>all</u> their FFV be air shipped. As a result, FFV weight levels being air shipped tripled. Since the commissaries were still under the base commanders' control, the base commanders covered the air shipment costs using their operating funds. The high quality of the FFV promoted high troop morale, justifying the additional expense. [Ref 3]

In October 1991, DeCA officially took over the commissaries. DeCA did not know that so much FFV was being air shipped. Air shipment was extremely expensive.<sup>3</sup> The new organization did not have sufficient funding to airlift all FFV. As a result, DeCA imposed limits on the amount of FFV that could be airlifted to each country. [Ref 3]

# D. A NEW SOLUTION

Lieutenant Commander Kerber started looking for cheaper alternatives to air shipment. He looked for expertise outside of DoD, in academia and business. One source was the University of California, Davis (UC Davis). Specifically, UC Davis has Post Harvest Bio-Technology, an agricultural graduate discipline focused on improving FFV transportation and shelf life. [Ref 1]

From private industry, Lieutenant Commander Kerber learned of controlled atmosphere vans. All FFV breathes. In effect, FFV behaves like living organisms. The idea of controlled atmosphere is to put the FFV 'to sleep,' to put it in suspende animation. If you slow the respiration of the FFV, you slow the maturing process. Industry had developed three types of controlled atmosphere vans. The least precise was the Fresh Air Exchange Method, which basically used air ports in a refrigerated van. Next was the Modified Atmosphere Van. In this method, the van is sealed. Hoses draw off the atmosphere

 $<sup>^3</sup>$ For example, at that time it cost \$1.15 per pound gross weight to air ship to Guam. The cost of the ice alone was high. [Ref 3]

and replace it with a new atmosphere. The most precise is the Controlled Atmosphere Van, in which a computer monitors and adjusts the atmosphere as necessary. In all cases, the vans are refrigeration vans, since temperature is the driving force for FFW. [Ref 3]

Lieutenant Commander Kerber decided to put together a Process Action Team (PAT) to find a way to successfully ship FFV via surface modes. The PAT was composed of Army veterinarians, a representative from American President Lines (APL), scientists from UC Davis, and representatives of the Transfresh Company, which specializes in controlled atmosphere vans. (Ref 3)

The PAT brought together controlled atmosphere vans and the knowledge that certain fruits and vegetables were compatible with one another, while others were incompatible. All FFV breathes, but not the same gases. For example, some breathe out ethylene gas, which is a natural ripening hormone. Some breathe in ethylene gas. They also give off different gases during decay and require different temperatures for ideal preservation. By putting the right FFV combinations together, the PAT improved shelf life control. The PAT developed eight categories of temperature/gas compatibility. These 'correct' combinations are then put in the controlled atmosphere vans, whose computer controls temperature and gas mixtures. Even gas flow patterns were discovered to make a difference, with

bottom air flow being superior to top air flow. In addition, the PAT learned that pre-cooling improved the product. This involves cooling the core of the FFV before loading it in the vans. If the process is done correctly, FFV shelf life can be roughly doubled. For example, the shelf life of lettuce was extended from 11 - 15 days to 28 - 30 days. [Ref 3]

FFV was first shipped using the controlled atmosphere/temperature system in December 1992. The pilot program to Guam was "hugely successful." The system is considered to be out of the test stage. Over three million pounds of FFV have been shipped to Guam. [Ref 3]

# E. MEASURES OF SUCCESS

The goal was to migrate as much product as possible from air to surface shipment. For the new method to be a success, Lieutenant Commander Kerber felt five criteria had to be met:

- 1. The condition of the product upon delivery to the customer relative to prior surface shipment had to go up.
- 2. OST relative to prior surface shipment had to go down.
- 3. Required Delivery Dates (RDDs) had to be met.
- 4. Predictability of shipment arrival had to improve.
- Cost had to go down.

The first measure of success of the system is based on the amount of spoilage. Airlifting FFV results in loss of over five percent of the FFV. The controlled atmosphere/temper-

ature system is consistently showing losses of under five percent. Even in a case where the customer checked spoilage one week after receipt, losses were under five percent. [Ref 3]

Measures two through four are intertwined. As previously stated, DPSC and the distribution points were eliminated from the loop. Directly dealing with the customer streamlined the process and speeded data flow. In addition, it allowed DSO Alameda to develop its own data base for each of the customers. Weekly demand was determined, and a baseline computed for each customer. This was necessary to determine the approximate number of controlled atmosphere vans needed, and to prevent rollover (overbooking). Customers initially feared this. They were afraid items would be pushed to them, where they wanted to pull material.4 The fear was overcome by showing the customers that the baseline was a template. allowing them to consistently obtain the amounts and types of FFV which they required. Only changes to the template needed to be sent to DSO Alameda, vice sending a complete new order every time. This cut back on paperwork and errors. [Ref 3]

The process changes reduced OST for surface shipment to Guam from 90 - 120 days to 19 - 21 days. After six months of the new process. OST dropped to 17 - 21 days. RDD was

<sup>\*</sup>pushing material means the wholesale level determines how much material the retail level needs and sends that amount to them. Pulling material means the retail level determines its needs and orders the appropriate amounts from the wholesale level. [Ref 6]

achieved every week in that six months except for four weeks.<sup>5</sup> [Ref 3]

The predictability of shipments allows DSO Alameda to expand their range and depth of customers. Those with small refrigerated storage areas, who previously had to depend on a larger organization, could now order direct because FFV could be treated as Just-In-Time (JIT) material. [Ref 3]

#### F. DETERMINING COSTS

The last measure of success was the cost of the new process. Common sense would imply that using surface shipment vice air shipment should save shipping costs. Unfortunately, DSO Alameda was unable to calculate the savings because they could not determine the cost of shipping FFV by surface container. Without knowing the cost, DSO Alameda was unable to determine the savings. [Ref 3]

After twenty-four shipments had been made using the controlled atmosphere/temperature system, DSO Alameda attempted to calculate how much was being saved by using surface shipment. The case DSO Alameda examined was the amount of savings for FFV shipped to Guam. Using fully cubed out vans (thus minimizing the number of vans you need to ship), and using the most conservative estimates, DSO Alameda calculated annual

<sup>5</sup>One of those four weeks occurred when a typhoon hit Guam. Despite the typhoon, delivery was only three days after RDD. [Ref 3]

savings of \$650,000 over air shipment. This estimate was considered very conservative and <u>very</u> "squishy." [Ref 3]

DSO Alameda's difficulty was in determining what the rates were. Through inquiries, Lieutenant Commander Kerber determined American President Lines' (APL's) rate for shipping a 40' container to Guam was \$7,000.6 Unfortunately, as in the case of air shipment, DSO Alameda does not contract directly with a carrier. MSC and MTMC act as the Contracting Officer Technical Representatives (COTRs) for shipping material by surface modes. MSC lets the contracts with commercial ocean carriers. MTMC does the booking, while MSC does the billing. Both organizations add their surcharges to the cost of shipping material. It proved impossible to determine rates by comparing final invoices, because each command identifies material differently. [Ref 3]

DSO Alameda deals directly with area commands, including MTMC Western Area (MTMCWA) and MSC Pacific (MSCPAC). The rates Lieutenant Commander Kerber obtained from MTMCWA and MSCPAC seemed to indicate a charge of \$14,000 per container, twice APL's published rate for vans shipped on APL ships. Is the extra \$7,000 all surcharges? If so, why are the surcharges so high? DSO Alameda and DSRPAC wondered what value MSCPAC and MTMCWA added to the process. Additionally, there were

<sup>&</sup>lt;sup>6</sup>APL did not specify if this was for all containers, or for controlled atmosphere containers only. [Ref 3]

indications MSCPAC seemed to be paying APL only \$3,500 per controlled atmosphere container. Could the surcharges in fact be even higher? DSO Alameda expressed frustration, and Lieutenant Commander Kerber admitted no one at his organization could make heads or tails of the costs for shipping vans. [Ref 3]

DSO Alameda and DSRPAC proposed this thesis topic in order to discover the answers to their questions. This thesis' primary research question is: What is the cost to DSO Alameda's customers to ship FFV by controlled atmosphere container overseas? Subsidiary questions are:

- How does MSC and MTMC determine rates for shipping material by container?
- 2. How much are MSC's and MTMC's surcharges and how are they computed?
- 3. How is billing handled?
- 4. Who actually foots the bill? Lieutenant Commander Kerber believed that in multi-customer shipments, billing might not be allocated to the appropriate customer, with the result that MSC and MTMC were either overbilling or underbilling customers. [Ref 3]

The research into these questions and the results of that research are presented in the following chapters.

## II. INFORMATION FLOWS IN THE SHIPPING PROCESS

The process of shipping FFV from DSO Alameda to various customers on the Pacific Rim involves a number of computer systems and documents. None of the computer systems currently interface. The physical movement of the FFV is probably the simplest part of the entire process.

The process starts with DSO Alameda. DSO Alameda requests a booking from MTMCWA via DSRPAC. [Ref 7] DSRPAC requests the booking of the FFV through the Mechanized Export Traffic System (METS) computer system. MTMCWA receives the data and arranges the booking. [Ref 8]

The booking is done by the Ocean Cargo Clearance Authority (OCCA) Branch of MTMCWA. [Ref 9] The OCCA bookers try to arrange the cheapest possible rates for their customers. (This is the "Transportation Management" in MTMC's name.) [Ref 8]

There are three distinct phases of the shipping process handled by MTMCWA, and each has its own computer system. Traffic management is the first phase and is handled by MTMCWA. It is concerned with arranging bookings. It uses the METS computer system and its subsystem the Automatic Carrier

<sup>&</sup>lt;sup>7</sup>h booking is the act of making an arrangement for the movement of goods or persons. It can be the reservation of space aboard a vessel, an airplane reservation, or the calling for a motor movement. [Ref 6:p. 33]

Interface (ACI). Terminal operations for the Oakland Army Terminal, the second phase of the process, are handled by one of MTMCWA's subordinate commands, the 1302nd Major Port Command. Terminal operations is concerned with physically moving cargo. It uses TERMS (Terminal Management System) and the TERMS On Line System (TOLS). The third phase of the process is the Financial Management System (FMS). This is handled by MTMCWA. [Ref 10] For FFV, FMS sets rates; it does not involve billing.

ACI ties MTMCWA in with the carrier. MTMC makes an offer for a booking with a carrier via ACI. The booking is confirmed via ACI, which is the ACI Release. The ACI Release contains the commercial voyage number and commercial booking number. (Ref 8)

The document which METS generates contains all the data and is known as the Release Unit Data Input (RUDI). The RUDI contains the shipping arrangements, Transportation Control Number (TCN), 8 and Port Call Number9. [Ref 8]

An observer can watch the entire booking process unfold on the RUDI. The RUDI is gradually filled in as each step of the

<sup>&</sup>lt;sup>8</sup>The TCN is a 17 position alphanumeric data element assigned to control a shipment unit throughout the transportation pipeline. The TCN for each shipment is unique and not duplicated. [Ref 11:p. C-1]

 $<sup>^{9} \</sup>rm{The}$  Port Call Number is a letter followed by four digits. The letter shows the shipment's area of origin. For example, P signifies a shipment from the Pacific Coast. [Ref 8]

booking process occurs. [Ref 8] A sample RUDI is provided as Appendix A. The RUDI is essentially the record of the data flow through METS. This data flow is shown in Figure 2.

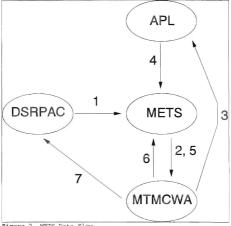


Figure 2 METS Data Flow

The three key numbers that appear on the RUDI are the Port Call Number, the commercial voyage number, and the TCN. The Port Call Number is what MTMC uses to track the shipment. Only MTMC uses this number. The voyage number is assigned by the carrier to a particular ship for a specific voyage. The TCN should be how the shipment is tracked throughout the Defense Transportation System (DTS), but is not used in every phase of this process. This point will be explained later.

A seavan TCN assigned by OCCA differs from most TCNs used in the DTS because it uses the voyage number vice a Julian date, and uses a suffix that identifies container service payment responsibility and container type. This unique format for seavan TCNs is required by DoD Directive 4500-32R, Military Standard Transportation And Movement Procedures (MILSTAMP). (Ref 11:0. C-1)

MTMC picks a carrier and makes the booking based on availability and cost. MTMC obtains the cheapest rates possible under the tariffs. On the West Coast, there is little price difference between APL and SeaLand. Availability of assets is often the deciding factor on who is booked. (Exceptions would be a case like Guam, where APL has all controlled atmosphere bookings. 10) The East Coast usually gets offers and counter-offers from different carriers due to the volume of traffic

<sup>&</sup>lt;sup>10</sup>It is very expensive to purchase controlled atmosphere vans. In order to implement the new FFV process to Guam, the carrier would have to purchase new controlled atmosphere vans specifically for shipments to Guam. APL was made the exclusive carrier to Guam for controlled atmosphere shipments because of the high initial investment involved. [Ref 8]

and availability of competition. The West Coast usually accepts the initial booking offered.

In the case of APL, an APL Personal Computer (PC) at MTMCWA provides an advanced Transportation Control and Movement Document (TCMD) based on what APL believes will be shipped. MTMCWA matches this with the RUDI. OCCA personnel match the data to insure the correct cargo is booked for the voyage. [Ref 8]

The carrier picks up the FFV directly from DSO Alameda's warehouse. 11 DSO Alameda personnel load the FFV directly into the container. DSO Alameda personnel a local document, called a Warehouse Loading Worksheet. An example of a Warehouse Loading Worksheet is provided as Appendix B. The Warehouse Loading Worksheet shows what was actually loaded into the container. [Ref 7]

More than one customer's FFV may be loaded in a van. This is because the FFV must be loaded by compatibility, not by customer. 12 For example, a van destined for Guam will usually have three customers -- NSD Guam, DeCA Guam Naval Station and DeCA Andersen Air Force Base. DSO Alameda sends the data

<sup>11</sup>If an entire van is going to be filled with a single product, it may be picked up directly from the vendor vice DSO Alameda's warehouse. [Ref 7]

<sup>12</sup>In order to avoid confusion, only one customer's FFV will be loaded on a particular pallet. Thus a particular pallet may not be a full MTON. In fact, they usually are not. [Ref 7]

on the order to DPSC in Philadelphia via a computer system called PISCES. DPSC receives the data in order to relay it to the 1302nd Major Port Command and to the ultimate consignees.

[Ref 7]

PISCES will automatically calculate the cube of the FFV being sent. Unfortunately, PISCES does not take into account the cube of the pallets, meaning the space occupied by the pallets is never accounted for. [Ref 3] This is a considerable oversight, since a standard wooden pallet used by Dool state of the sent accounted for the sent of the

After receiving the data, DPSC forwards it via TOLS to the 1302nd Major Port Command. [Ref 8] DPSC also sends the data to DSO Alameda and the customer via message, and to DSO Alameda by computer link. [Ref 7]

The 1302nd Major Fort Command must have the cube data 72 hours prior to ship's sailing in order to prepare the manifest. Unfortunately, the data does not always reach the 1302nd Major Port Command from DPSC in time for them to prepare the manifest. [Ref 7] If the 1302nd Major Port Command fails to receive the shipping data in time from DPSC, they obtain the data from DSO Alameda either by fax or by hard

copy via messenger. The 1302nd Major Port Command manually loads the data into TOLS. [Ref 7:Ref 12]

The hand-written spreadsheet, with DSO's estimates of the cube that will be shipped in each van, is in fact the normal means for the 1302nd Major Port Command to receive this data.

DPSC is considered a "black hole" for information by the West Coast participants of this process. [Ref 7;Ref 12]

The manifest serves as the TCMD. [Ref 8] The TCMD is required for each shipment unit entering the DTS.<sup>13</sup> [Ref 11:p. P-1] The TCMD lists all data about a shipment. It is the master document for material in the DTS. TCMDs can be in any of several formats. The most common are the DD Form 1384 (TCMD) and DD Form 1384-1 (DDD single line item release/receipt document). The TCMD may be used as a dock receipt, tally sheet, highway waybill, or for other transportation control purposes. The purpose of the TCMD is to provide clearance authorities, ports, receivers, and other interested transportation personnel with advance notice of shipments and the information necessary to process the shipments through the DTS. [Ref 11:p. 2-8-18] The manifest prepared by the 1302nd Major Port Command is distributed to

<sup>&</sup>lt;sup>11</sup>A shipment unit is one or more items assembled into one unit which becomes the basic entity for control throughout the transportation cycle. [Ref 11:p. A-15] For FFV, a shipment unit would be everything for a particular customer in a particular container.

the carrier, the Port of Debarkation (POD), <sup>14</sup> MTMCWA, MSCPAC and Military Sealift Command Headquarters (MSCHQ). [Ref 8;Ref 12;Ref 13] Figure 3 shows the TCMD flow.

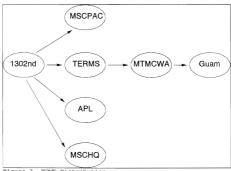


Figure 3 TCMD Distribution

The information on the TCMD is the basis for preparing air and surface manifests. [Ref 11:p. 2-B-18] Normally the shipper prepares the TCMD, and the manifest is prepared using the various TCMDs that make up the entire shipment being placed

<sup>&</sup>lt;sup>14</sup>The POD is an authorized point of entry into a foreign country or the United States. [Ref 11:p. A-11]

onboard a particular ship. The way this particular system is set up, DPSC provides the data to the 1302nd Major Port Command via TOLS (or DSO Alameda provides it via alternate means). The manifest is generated using TOLS. The TOLS output is sent to the government printing office to be printed for distribution. Since the manifest is already generated, and contains all the data required on a TCMD, the manifest is used as the TCMD. Since the TCMD is the key for movement through the DTS, the 1302nd Major Port Command's requirement for shipment data at least 72 hours prior to ship's sailing is very reasonable.

The information on the TCMD is described either as prime data or trailer data. Prime data is required for every shipment. Trailer data is supplementary, but is required for some specific types of shipments. Shipments consolidated into a seavan, MILVAN, CONEX, or other consolidated container require a prime data entry for the consolidation container in addition to the prime and trailer data for each shipment unit. [Ref 11:p. 2-B-18] Because of this, the TCMD for DSO Alameda's shipments has both a TCN for the container itself and a TCN for each customer's consignment.

The actual contents of the vans are identified for tracking purposes by the requisition number of the leading product loaded in the van. 15 Requisition numbers are made up of the customer's Unit Identification Code (UIC) or Department of Defense Activity Address Code (DoDAAC). 16 Julian date of the order, and serial number assigned by the customer. The contents are not identified by TCN or by van number. 17 Only DSO Alameda knows the sequence in which the FFV was loaded. Therefore only DSO Alameda knows what other FFV was loaded along with the leading requisition number item. The customers cannot track their orders. [Ref 3]

The TCMD lists the van number, the TCN assigned to the van itself since it is a consolidated shipment, and the TCNs assigned to each customer's portion of the van's contents in terms of weight and cube. There is no description assigned to these TCNs except "Food, Chilled". Nowhere are the actual contents listed. [Ref 14] There is no in-transit visibility.

A new system of direct booking is currently being tested between DSRPAC and MTMCWA. Under this system, DSRPAC arranges the booking directly with the carrier. All MTMCWA does is observe. [Ref 8] The new data flow is shown in Figure 4. One

<sup>15</sup>The leading product is the first requisition listed on the FFV order, and is the first item loaded into the container.

 $<sup>^{16}</sup>$ The DoDAAC is a six position alphanumeric code that identifies a specific activity who is authorized to ship or receive material and to prepare documentation or billings. [Ref 11:p. A-5]

 $<sup>^{17}\</sup>mbox{{\tt All}}$  containers are assigned permanent identification numbers by their owners.

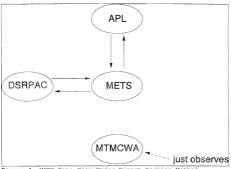


Figure 4 METS Data Flow Under Direct Booking Method

difference with direct booking is that only the lead line item is listed, vice all line items. This is not a function of the direct booking system, but a conscious decision on the part of DSO Alameda. The lead item is "ballooned out" -- the weight and cube given for it are in fact the weight and cube for the entire shipment. DSO Alameda does this in order to cut down input time. In other words, it takes less time to load one line item into the system than multiple line items. The quicker the data is loaded, the sooner a confirmed booking can be arranged. The data must be loaded into METS within sufficient time that a carrier will accept the booking. [Ref 15] A sample direct booking RUDI is provided as Appendix C.

Direct booking is only the latest change to the process.
METS is still evolving. Originally METS was internal to MTMC.
The shipper called MTMC by phone, and MTMC arranged the
booking with the carrier by phone. The system was expanded,
and the shippers (DSRPAC, in this case) were given a PC with
modem and appropriate software so that bookings could be requested via METS instead of via phone. [Ref 8]

The problem with METS is that it is not versatile, i.e., it is very hard to fix mistakes. An even bigger problem is that it is not integrated with TERMS or TOLS. This causes tracking and auditing problems. The Worldwide Port System (WPS) will start the process of integrating TERMS and METS, and is supposed to solve the in-transit visibility problem. WPS should be fielded in the summer of 1994. MTMCWA will be the test site. [Ref 8] Integration will be completed by the Integrated Booking System (IBS) and the Integrated Cargo Database (ICDB). How the systems will interface is shown in Figure 5.18

Having discussed data flows, it is time to return to the actual FFV movement. The carrier trucks the container to the

<sup>18</sup> There are more computer systems involved under current automation than the ones shown in Figure 5. Only the systems pertinent to this thesis are shown.

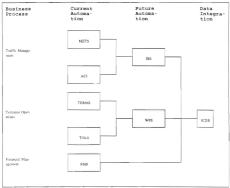


Figure 5 Future Integration of MTMC Automated Systems

port, where it is loaded on the carrier's vessel. After the ship sails, the carrier sends a load list to MTMCWA and the 1302nd Major Port Command. The 1302nd Major Port Command matches the TCMD and the load list. MTMCWA matches the load list with the manifest and METS data. One of the problems with this process is a complete lack of interfaces among the various systems. METS is used in the booking process. Data

 $<sup>^{19}{</sup>m The}$  load list is what was actually loaded onto the vessel.

is loaded into TERMS when the container is loaded. The data from METS, TERMS and the load list is compared by 1302nd Major Port Command personnel and OCCA personnel independently. Data comparison is by hand, i.e., by personnel physically comparing various documents. [Ref 8:Ref 16]

The FFV transits to Guam on the carrier's vessel, where it is offloaded at the commercial port. It is then delivered by the carrier's truck to the appropriate customers. [Ref 8]

### III. COSTS AND BILLING

DSO Alameda's customers ultimately pay two amounts: MTMC's surcharge and MSC's fee for shipping the container. The 1302nd Major Port Command attaches the MTMC surcharge [Ref 9]. Since the FFV is passing through the commercial port, not the military port, only an administrative fee is charged [Ref 18].<sup>20</sup> The actual billing of the surcharge is done by the Defense Finance and Accounting Service (DFAS) Bayonne, New Jersey. DFAS receives the data via TOLS. [Ref 19]

MSCHQ actually bills for shipping the container. MTMCWA prepares the Government Bill of Lading (GBL) based on the manifest, leaving the dollar value blank. The dollar value is left blank because the carrier's actual expenses are not yet known. The original GBL goes to the carrier, and a copy goes to MSCPAC. The carrier fills in the GBL with the actual expenses incurred and the corresponding payment owed. The carrier verifies expenses by attaching invoices to the GBL. The carrier sends the GBL with attached invoices to MSCPAC, who verifies it and sends the carrier payment. [Ref 17]

<sup>20</sup>The administrative fee is called the berth term shipment rate and is the charge for services performed by MTMC in connection with releasing, booking, documenting, and expediting all offshore, intercoastal and coastal export and import shipments moving under commercial tariffs. [Ref 4:p. 8]

There are no Transportation Account Codes (TAC codes<sup>21</sup>) on the GBL, proving that it is not used to bill customers is [Ref 20]. In accordance with MILSTAMP, TAC codes are how both MITMC and MSC identify who to bill for using the DTS [Ref 14; Ref 21; Ref 22:p. 1-1]. The GBL cites the MSC accounting line vice TAC codes.<sup>22</sup> Using this accounting line is per MILSTAMP Volume 2. It is used because MSCPAC makes the payment to the carrier with MSC funds.

Though the customer only makes two payments, there are three groups who must receive payment: the carrier, MTMC and MSC. Each of these will be examined in turn.

### A. THE CARRIER

Tariffs are the rate books which provide the dollar charge on a given class of transportation movement [Ref 7:p. 220]. Ocean carriers' tariffs (rates) are negotiated by MSC and are published, just as they would be published for commercial shippers. In the case of the tariffs negotiated by MSC, there are certain charges the shipper always has:<sup>23</sup>

 $<sup>^{21} \</sup>rm TAC$  codes are four character alphanumeric codes which identify the appropriate Service, Agency, or contractor account to be charged for transportation. [Ref 12:p. A-17]

 $<sup>^{22}\</sup>mathrm{The}$  appropriation and subhead used are 17X4912.3302. [Ref 22:p. 7-11]

<sup>33</sup>Tariffs are charged either on a per container basis, or per revenue ton, whichever is higher per container. A revenue ton is either a short ton (WTON) (2000 lbs) or MTON, whichever is higher per container.

- drayage at point of origin; 24
- 2. wharfage charge at point of origin;

Other possible commercial charges are:

- ocean carriage;
- 4. wharfage at destination:
- 5. drayage at destination; and
- fuel surcharge (a result of the 1973 oil crisis, based on cost of bunker charges at the time).

When shipping FFV in controlled atmosphere vans, there is an additional mandatory charge for using these vans.<sup>25</sup> [Ref 9]

- stop off charges: 26
- 2. detention: 27 and

7:p. 70]

maintenance.<sup>28</sup> [Ref 9]

The carrier is a commercial firm, so it seeks to make a profit. When an ocean carrier puts in a bid for a particular tariff with MSC, both costs and profit are included.

MTMCWA uses the tariffs to estimate the cost of shipment.

<sup>&</sup>lt;sup>24</sup>Drayage is the rate for transporting freight in trucks or carts to alongside a vessel. [Ref 7:p. 76]
<sup>25</sup>Controlled atmosphere vans are maintained by the Transfresh

Company. This fee is the payment to Transfresh. [Ref 23]

<sup>26</sup>Drayage involves pick up or drop off to a single point; stop

off charges are for intermediate delivery points. [Ref 9;Ref 24]\*

27Detention is the charge assessed on the container when it is
held beyond the free time allowed for loading or unloading. [Ref

 $<sup>^{28}\</sup>mathrm{The}$  costs to run a refrigerated van while it's sitting awaiting offload. [Ref 9]

If a potential shipper asks for the cost to ship something, they would receive an estimate from MTMCWA. The actual cost could be higher based on expenses incurred by the carrier. Shippers could do their own estimates if they had a copy of the tariffs and knew which applied. [Ref 9] It is similar to bringing your car to a mechanic--he will give you an estimate of the cost prior to doing any work, but the actual cost could be higher based on what work is performed on the car. The invoice the carrier presents to the government is based on all actual costs incurred.

The MIMCWA estimate serves two purposes: first, it gives the customer some idea of the shipping charges, although in the case of seavans it is essentially meaningless data for the shipper. It is important to realize that for containers this is not an estimate of the shipper's cost; it is the government's approximate cost of the shipment. The second purpose of the estimate is to give MSCPAC an idea of what the cost should be. If MSCPAC finds there is too large a discrepancy between the estimate and bill presented, MSCPAC will refuse to pay the bill until the charges have been successfully validated, i.e., proven to MSCPAC's satisfaction they are legitimate.

[Ref 9]

### B. MTMC

MIMC originally operated under the Army Stock Fund (ASF). Now they operate under the Defense Business Operating Fund (DBOF), the revolving fund that replaced (and absorbed) all the services' stock funds and industrial funds. The rates MIMCWA (or any other area command of MIMC) charges depends on the services provided. These services are shown in Department of the Army Circular 55-92-1, Military Traffic Management Command Port Handling Billing Rates FY 1993, a copy of which is included as Appendix D.

As previously stated, in the case of DSO Alameda's FFV, only the berth term shipment rate is charged [Ref 18]. But how are these rates calculated? Before that question can be answered, a quick look at DBOF is necessary.

### 1. DBOF

DBOF was established on October 1, 1991, by DoD to expand the use of businesslike financial management practices throughout DoD. DBOF is based on the revolving fund principles formerly used by industrial and commercial-type activities. [Ref 25:p. N-3] DBOF absorbed all of the services' stock fund and industrial fund assets. [Ref 25:p. N-10]

DBOF's primary objective is to provide incentives to managers and employees of DoD organizations so that they will provide products and services at the lowest cost. DBOF is supposed to increase cost visibility, enabling managers to make better informed decisions. DBOF emphasizes providing quality service while realizing significant monetary savings through better business practices. Reduced costs mean DDD will be able to accomplish its mission more effectively within available resource constraints. [Ref 25:p. N-3]

Under DBOF, each DoD business component has an operating budget and a capital budget. This breakout of capital investments and capital costs provides management with increased visibility and identifies operating costs at all management levels. [Ref 25:D. N-4]

The products and services required by customers will determine the resources used. Each manager is expected to hold costs within the product of approved unit cost goals multiplied by the number of units of customer-determined workload. Total costs of each business area will be available, and if possible, unit cost resourcing goals will be supplied for the primary outputs of the business area. As a result, managers should be able to make trade-off decisions that provide the best operating results for their area. [Ref 25: pp. N-4-N-5]

DBOF includes military and civilian personnel costs. DBOF activities included depreciation of all capital investments as a cost of operations beginning in FY93. [Ref 25:p. N-9]

DBOF's policy is that <u>activities will budget on a break-</u>
<u>even basis</u>. The objective is full recovery of costs by the

end of the budget year. The prices and rates established at the beginning of the year are fixed for the entire year. Establishing rates based upon costs is expected to give managers and customers the guidance they require to make cost-effective decisions. [Ref 25:p. N-10] DBOF activities must recover all their costs, including overhead costs. These factors will affect the MTMC and MSC processes for determining rates.

Since DBOF requires its activities to recover all costs, customers using DTS to move cargo must not only pay for the direct shipping costs, but must also pay all overhead costs and some military personnel costs. [Ref 26]

## 2. Computation of MTMCWA Port Handling Billing Rates

MTMC has three functional areas for operating costs and billing purposes. These functional areas are Traffic Management, Special Missions, and Port Operations. Each of these areas is billed in a different fashion, though all are processed through DBOF. [Sef 27]

Traffic Management covers managing and storing personal property, inland cargo routing, and the discrepancy reporting of the Assistant Chief of Staff for Operations (ACS-OPS).<sup>29</sup>

 $<sup>^{29} \</sup>rm ACS\text{-}OPS$  combines the functions of three formerly separate branches: International Traffic, Inland Traffic, and Personal Property. [Ref 27]

Traffic Management is billed by a stabilized billing rate for each productive hour worked. 30 [Ref 27]

Special Missions include base operations, Morale, Welfare & Recreation (MMR), and Auxiliary Cargo Services and Special Port Actions.<sup>31</sup> These expenses are recouped on a dollar for dollar basis. [Ref 27]

All other expenses make up Port Operations. This is the area that DSO Alameda's FFV operation is handled under. Port Operations are billed per MTON of throughput at predetermined rates. [Ref 27] The distribution and recovery of costs by functional areas are shown in Table 1.

Port Handling Billing Rates are composite rates for each commodity by geographic area for the Continental United States (CONUS) and areas outside the Continental United States (OCONUS).<sup>32</sup> The MTMC Billing Rates, which are approved and stabilized by the Office of the Secretary of Defense (OSD),

 $<sup>^{30}\</sup>text{A}$  stabilized billing rate is a fixed amount charged per hour. It is normally set one year in advance. The principal objective of a stabilized billing rate is to shelter DoD customers from wide variances due to inflation, making budget planning for DoD customers easier. [Ref 25:p. H-17]

<sup>11</sup>Auxiliary Cargo Services and Special Port Actions include: (1) fumigations and removal of soil contaminating retrograde cargo; (2) segregating, repacking, remarking, or recouping cargo prior to onward movement when requested by the shipper; and (3) customs inspection of retroorade personal property. [Ref 27]

 $<sup>^{32}</sup>$ The five geographic billing areas are Western Area, Eastern Area, Caribbean, Europe, and Far East. Thus each commodity has its own rate within each of these areas. [Ref 4:p. 2]

Table I MTMC DISTRIBUTION AND RECOVERY OF COSTS BY FUNCTIONAL AREA

	Port Operations	Other Special Missions	Traffic Management
	Port Handling Billing Rates	Dollar For Dollar	Stabilized Billing Rates
Labor (Civil & Military)			
Stevedores	Direct Cests	Direct Costs	Direct Costs
Contractual	Indirect Costs	Indiruct Costs	Indirect Costs
Materials/ Supplies	G&A Activities	G&A Artivities	G&A Activities
Other Services Travel			

are prepared and submitted approximately <u>two years</u> prior to the execution year. [Ref 26]

The rates are reviewed as part of the Operating Expense Budget (OEB) the year prior to execution. The rates are published after the review. For example, the FY93 rates were prepared and submitted in June 1991, reviewed June 1992, and promulgated in July 1992 by message, followed by publication in September 1992 as Department of the Army Circular 55-92-1. [Ref 27]

Headquarters Military Traffic Management Command (HQ MTMC) issues the budget guidance which the geographic areas use to develop their billing rate proposal. This guidance is:

- anticipated cargo workload for CONUS and OCONUS;
- anticipated manpower levels;
- anticipated pay increases;

- 4. estimated inflation factor; and
- MIMC's gain/loss position. Did MTMC make money, lose money, or break even the year prior to the guidance being issued? The goal is to break even. [Ref 27]

Guidance from HQ MTMC is based on historical trends. Still, in the author's opinion, calculating such factors as pay raises and inflation for two years into the future is at best scientific quesswork, and at worse crystal-ball gazing.

Based on HQ MTMC's quidance, the ACS-OPS reviews the prior year's cargo workload and determines workload distribution by commodity and subordinate command. 33 This information is normally included in MTMCWA's budget call to the staff and subordinate commands. The budget call and budget guidance is provided by the Budget Division and include cargo workload distribution. The staff and subordinate commands then develop expense budgets which the Budget Division reviews. The Budget Division makes corrections, adjusts data, inputs the data into

Name

<sup>33</sup> Subordinate commands are geographic areas within the area commands. The ACS-OPS determines the level of workload for each geographic area under his jurisdiction. The subordinate commands for MTMCWA are:

<sup>1302</sup>nd Major Port Command

<sup>1312</sup>th Medium Port Command 1313th Medium Port Command 1315th Medium Port Command

<sup>1316</sup>th Medium Port Command

<sup>1317</sup>th Medium Port Command Military Traffic Command Pacific

Location Oakland, CA Compton, CA

Seattle, WA Okinawa, Japan Yokohama, Japan Pusan, Korea

Waaf, HI [Ref 26]

the Financial Management Systems (FMS) Budget Module, and finalizes the expense budget for MIMCWA. [Ref 27]

All costs must be recovered under DBOF. Table 2 shows the factors used by staff and subordinate commands to develop costs. The left side of the table shows the business functions within the staff and subordinate commands. The right side of the table shows the categories of expenses into which each of the business functions is broken down. [Ref 27]

Table II COSTS TO BE RECOVERED UNDER DBOF

Business Functions	Categories of Expenses (Apply to each business function)
	General & Administrative (G&A) Activities
	Traffic Management
abor (Civilian & Military)	Engineer (Space)
tzvzdores	ADP Services
faterials/Supplies	Telephones/Communications
Contractual	Equipment Expense
ther Services/Travel	Indirect Cargo
	Direct Cargo
	Special Mission

The Budget Division then loads the prior year's distribution and billing rates, and produces the initial cargo cost and revenue reports. These reports are produced on a Lotus spreadsheet. [Ref 27] Once the cargo cost and revenue reports are produced in the budget module, costs have been distributed to each commodity, and the total revenue generated. Costs and revenues are compared. The gain/loss position provided by HQ MTMC is applied to the total cost to establish the recovery baseline to build the Port Handling Billing Rate. The Billing Rates are modified based on historical patterns. The rates are then included in MTMCWA's budget submissions to HQ MTMC. [Ref 27]

HO MTMC reviews and consolidates the budgets from all the area commands and develops one composite MTMC rate increase, i.e., percentage of revenue increase. There is only one composite rate increase because it applies to MTMC as a whole. Two components are submitted -- Port Operations and Traffic Management. A composite MTMC rate increase is not needed for Special Missions since they are recouped on a dollar for dollar basis. HQ MTMC submits the budget and revenue rate increases (percentage) to the U.S Transportation Command (TRANSCOM), who in turn sends it on to OSD. OSD reviews the budget and proposed rates, and modifies the rates based on known budget changes. OSD then provides MTMC with an approved rate. For example, OSD approved a maximum increase for FY93 of 3.1% over FY92. HQ MTMC adjusts the area commands' proposed rates to meet MTMC's needs, and publishes the rates by billing area. In FY93, all of the area commands' rates as a

whole were set so that MTMC's total charges for FY93 were within 3.1% of MTMC's total charges for FY92. [Ref 27]

The key to the process is that the area commands develop proposed rates which are finalized by HQ MTMC. The process must ultimately recoup all of MTMC's costs taken as a whole. [Ref 26]

To return to the example, OSD approved a 3.1% increase for FY93 billing rates in the Fall of 1991. Based on the "winners and losers" as far as operating gains or losses, the HQ MTMC distribution resulted in the rate changes shown in Table 3. [Ref 27]

Table III MTMC RATE CHANGES

Billing Area	FY92	FY93
Caribbe an	+10.6%	-2.4%
Far East	+41.3%	-8.0%
EA/Gulf Coast	+12.2%	+1.0%
Western Area	+ 5.4%	+7.9%
Europe	+12.1%	+6.6%

The rate changes in Table 3 are over <u>all</u> rates; actual rates for a specific service for a specific commodity for a particular area may be higher or lower than the rate changes above.

Fort handling constitutes the majority of costs, so the majority of overhead is allocated to the Port Handling Billing Rates. Indirect costs for Port Operations include such expenses as the terminal staff, so a MTMC customer is paying for them even if the military terminal is not used. G&A for all three categories would include such expenses as the MTMCWA Judge Advocate General (JAG). [Ref 27]

The main problem MTMCWA (and the other area commands as well) has with billings is invalid TAC codes. Shippers are responsible for ensuring the correct TAC code is used. In F993 MTMCWA had over 8000 shipment units that had not been paid for because invalid TAC codes were assigned to those shipments. [Ref 21]

### C. MSC

MSC handles two steps in the process. First, MSC negotiates the tariffs for all ocean carriers by competitive bid. 34 Second, MSC always pays ocean carriers. Thus ocean carriers deal first with MSC, then with MTMC, then with MSC again. [Ref 9;Ref 28] Theoretically, either organization is capable of handling the entire process. Having one organiza-

<sup>34</sup>Bids to MSC are always for between two specific points, for example, shipping from Norfolk, Virginia to Bremerhaven, Germany. [Ref 28]

tion handle the process would conceivably introduce effi-

### 1. MSC Rate Development

MSC was originally under the Navy Industrial Fund
(NIF), but has been under DBOF since FY92. Like MTMC, MSC
needs to break even. Also like MTMC, MSC as a whole must
break even<sup>35</sup>. [Ref 28]

Also like MTMC, MSC's rates are established two years in advance, and are approved by OSD. The rates are stabilized so that DoD customers can request the needed appropriations for their estimated needs based on the stabilized rates.<sup>36</sup> [Ref 28]

The MSC rate is composed of:

- direct labor;
- overhead:
- previous gain/loss; and
- 4. depreciation. [Ref 28]

MSC rate development is similar to MTMC's rate development, which has already been described in detail. Briefly, there is a commercial bid for ocean transportation rates per MTON for

<sup>&</sup>lt;sup>35</sup>Thus the possibility exists that one part of the system will be used to subsidize another part.

<sup>&</sup>lt;sup>16</sup>Like MTMC rates, the author feels rates are established using a lot of guesswork. MSC customers are estimating services required also, and could estimate incorrectly.

each direction between each pair of ports. Ancillary charges such as drayage are added in. Cost of operations, including overhead, are based on statistical data of previous shipments, and have an inflation factor added. The recommended rates are forwarded to TRANSCOM, who reviews them and forwards them to OSD. OSD makes a revenue adjustment, and can arbitrarily set rates at a certain amount in order to subsidize certain areas or some DoD customers. The approved rates are then published two years in advance as the MSC Rate Guide. [Ref 28] A page from the MSC Rate Guide is provided as Appendix E.

MSC does not bill individual organizations because of the huge amount of traffic they handle and the huge number of billings associated with this traffic.<sup>37</sup> DoD billings are sent to the services, who are expected to sort out the charges and bill the appropriate commands. For example, all Navy bills for a given month would be sent to NAVCOMPT, who would then bill an individual command such as NSD Guam. Billing is by TAC code. In the case of FFV, MSCHQ would bill DPSC, who in turn would bill DeCA. [Ref 14;Ref 28;Ref 29]

# 2. Computation of MSC Container Billing Rates

After MSCPAC has received the GBL from the carrier, they validate it and pay the carrier. They do not bill the

 $<sup>^{37}\</sup>text{MSC}$  paid over \$400 million to ocean carriers in FY93. [Ref 28]

shipper. Billing is handled by MSCHQ. Besides making payments to the carrier, MSCPAC matches the billings (called the Unit Level Billing (ULB)) to the manifest in order to avoid double billings. MSCPAC is also responsible for ensuring the proper payment is made to the carrier and for validating the invoices to avoid excess charges to the government. [Ref 14]

Until now, the process of shipping FFV has involved keeping accurate track of what was being charged by the carrier. Once MSCHQ receives the manifest, this information is no longer important for that particular billing. MSC will use the data for historical purposes to calculate their container rates, but does not use it for billing the customer. The billing is not on a dollar for dollar basis. Instead, MSCHQ bills for 100% utilization of the container at their published rates. This accounts for dunnage, which previously was not accounted for. However, it means the customers always pay the same rate for a shipment. In the case of FFV, it costs the customer the same to ship one pea, or a container filled to the maximum. 38 Each customer's share of the shipment has a TCN and TAC code assigned on the manifest. Using these, MSC prorates empty space among the customers in the van. [Ref 29]

<sup>38</sup>One hundred percent utilization of a container for FFV is impossible, since space must be allowed for gas circulation. [Ref 16]

It is easier to illustrate the MSC billing process than to describe it. The following example will illustrate the process. The van contains cargo for three different customers, who will be referred to as customer A, customer B, and customer C. First, assume the container has a 100% capacity of 2360 ft<sup>3</sup>, or approximately 59 MTON. The actual contents of the container are referred to as the K-Record, which in this case are listed as 2000 ft<sup>3</sup>, or 40 MTON. The actual breakdown on the manifest is:

750 ft3 for customer A;

600 ft3 for customer B; and

650 ft3 for customer C.

This actual breakdown from the manifest is the M-Record. Since  $750 \text{ ft}^3 + 600 \text{ ft}^3 + 650 \text{ ft}^3 = 2000 \text{ ft}^3$ , the M-Record matches the K-Record. Since the records match, a utilization factor is calculated.

The utilization factor is calculated by div...ing the actual utilization by 100% utilization. In this exam.le, 2000/2360 = 84.8% utilization factor. The published MSC billing rate for this example is \$50 per MTON for 100% utilization. The cost for the shipment is 59 MTON x \$50/MTON = \$2950. The charge for the non-utilized (i.e., empty) space is billed using the deficit factor.

The deficit factor is calculated by dividing 100% utilization by the actual utilization. In this example, 2360/2000 = 1.18 deficit factor. The revised billing rate is \$50 per MTON x 1.18 = \$59 per MTON.

Thus the actual billing to each customer is:

Customer A: (750 ft<sup>3</sup>/40 MTON) x \$59/MTON = \$1,106.25

Customer B: (600 ft<sup>3</sup>/40 MTON) x \$59/MTON = \$ 885.00

Customer C: (650 ft<sup>3</sup>/40 MTON) x \$59/MTON = \$ 958.75

Total = \$2,950.00

The 100% utilization rate = \$2,950.00 = total billing to all three customers. [Ref 29] The total space in the van has been prorated among the three customers.

#### D. PROPOSED ALGORITHM

It should be possible to calculate the costs throughout the entire process of shipping FFV. The requirements are to know the commercial tariffs, MTMC's rates and MSC's rates. Because the purpose behind the new system of shipping FFV is to effectively ensure JIT delivery, the algorithm presented here will assume only mandatory charges will apply.

## 1. Payment to the Ocean Carrier

The first equation is the payment to the ocean carrier.

The payment to the ocean carrier equals drayage plus U.S. wharfage charges plus ocean carriage plus POD wharfage charges plus controlled atmosphere charge plus fuel surcharge.

### 2. MTMC Surcharge

MTMC's surcharge is billed to the recipients of the FFV based on TAC code. The MTMC surcharge equals the MTON of the shipment multiplied by the MTMC berth term shipment rate.

### 3. MSC Billing

MSC's charge for shipping FFV in controlled atmosphere containers, like MTMC's surcharge, is billed to the recipients of the FFV based on TAC code. The first step is to determine the following factors:

- 1. the container billing rate;
- the cube of each customer's portion of the shipment;
- 3. the maximum cube of the container.

The next step is to calculate the utilization factor and the deficit factor. Using this data the revised billing rate is calculated. The final step is to multiply each customer's cube times the revised billing rate.

An actual test case was followed to see if the this algorithm can successfully predict actual payments. The results of this test case are presented in the next chapter.

### IV. TEST CASE

### A. FIRST ATTEMPT

To test the validity of the sequence of events listed in the preceding chapter, an actual case was followed. The FFV was destined for Guam, with three consignees: NSD Guam, DeCA NAVSTA and DeCA Andersen AFB. The case involved tracking van APLU 510186. The van was loaded 29 December 1993, and the Warehouse Loading Worksheet [Appendix F] was prepared that day. This information was transmitted via PISCES the same day. [Ref 16;Ref 30]

DSC relayed the data via message [Appendix G] with a date/time group (DTG) of 212309Z JAN 94. A transmission [Appendix H] was also sent via PISCES from DFSC to DSO Alameda acknowledging the information previously sent from DSO Alameda to DFSC via PISCES. There is no record of transmission time or receipt time. [Ref 16]

This shipment was booked via the new direct booking method, so MTMCWA was not directly involved at this stage. The 1302nd Major Port Command did not receive any information of the shipment from DPSC. The information was passed from DSO Alameda to the 1302nd Major Port Command either by fax, phone message, or courier. The 1302nd Major Port Command manually loaded the data (Appendix I) into TOLS. [Ref 13]

Using the data in TOLS, the 1302nd Major Port Command generated the Cargo Manifest [Appendix J]. MTMCWA received a copy of the manifest and also received the data from APL via an APL/MTMCWA computer link. [Ref 17]

At this point the shipment could not be traced further. Insufficient time had occurred for the paperwork to be completed, even though the customers had already received the FFV. MIMCWA has a rule that GBLs are to be completed and sent to the carrier within 21 days of the manifest being received. The GBL had not yet been generated in this case. MIMCWA's status in January 1994 for completing GBLs is given in Appendix K. Appendix K shows the number of GBLs not yet generated and the amount of time in days they have been awaiting completion. GBLs that have not been generated in less than 43 days have some major discrepancy, such as a missing manifest [Ref 17].

### B. SECOND ATTEMPT

The second attempt to test the validity of the algorithm concerned a shipment that had occurred in June and July of 1993. The particular van tracked in this case was APLU 599150. According to DSO Alameda, this van had 553 cases of FFV, with a weight of 23,446 lbs (or 11.723 WTON) and a cube of 1,511 ft<sup>3</sup> (or 37.775 MTON). [Ref 31] The Warehouse Loading Worksheet is shown as Appendix L. The DFSC message acknowl-

edging DSO Alameda's PISCES input and notifying the customers of the shipment is shown as Appendix M.

Table 4 shows the theoretical cost per the thesis algorithm, MTMCWA's calculation of the cost, [Ref 32] and the amount actually received by APL from MSCPAC [Ref 24]. The algorithm is supposed to duplicate the MTMC model to allow realistic cost estimates; the thesis algorithm and the MTMC calculations match. These estimates were \$88.88 different from actual payment to APL. The difference was in the U.S. wharf charge [Ref 24]. The reason for the difference cannot be determined. APL confirmed that the amount billed and paid was \$100.00, and that the rate for MTON (\$5.00 per MTON) was used [Ref 24]. At these rates, APL must have billed for 20 MTON vice 37.775 MTON, but why this should be cannot be identified. This was the only discrepancy between the thesis prediction and actual payment.

Table 5 shows the algorithm's prediction of what berth term shipment rate should have been used for this shipment and the billing resulting from multiplying this rate by the cube (in MTON) of the shipment. It also shows the rate actually used by the 1302nd Major Port Command and the resultant billing (Ref 33). Who was actually billed the \$458.21, or some prorated portion of it, was not determined. Based on the TAC code, DPSC should have paid it.

Table 6 shows what the algorithm predicted as the MSC billing and MSC's actual billing of DPSC [Ref 34]. Only the billing for the two commissaries was confirmed. These two billings were within three dollars of the algorithm predictions. The NSD billing was calculated by subtracting the two known billings from the total billing. MSC billed DPSC 83,581.55 + \$2,020.69 = \$5,602.24. DPSC should then have billed this amount to DeCA. It was undetermined if the remainder of the billing was billed to the Navy or to DPSC. Based on the TAC code (see manifest, Appendix N), it was probably billed to DPSC, who would then have to bill the Navy.

The documentation showing the quantities and dollar amounts used in this case are included as appendices. Appendix 0 is the GBL generated by MIMCWA. Appendix P is the GBL received by MSCPAC from the carrier. Appendix Q is a printout of the microfiche record showing what MSC charged DPSC for the two commissary portions of the shipment.

Table IV PAYMENT TO CARRIER (APL)

Cost Area	Thesis Algorithm	MTMC Calculation	MSCPAC Pay- ment to APL
drayage: pick-up and delivery between DSO Alameda and APL's port in Oakland	\$170.00	\$170.00	\$170.00
U.S. wharfage charge	\$4 x 11.723 = \$46.89 \$5 x 37.775 = \$188.88 \$188.88 > \$46.89 => charge = \$188.88	\$188.88	\$100.00
ocean carriage	\$4,401.00	\$4,401.00	\$4,401.00
Guam terminal charge (includes Guam wharfage, handling and stevedore charges)	\$437.50	\$437.50	\$437.50
drayage: stop off charge	3 stops @ \$225 per stop = \$675.00	\$675.00	\$675.00
controlled atmosphere charge	\$400.00	\$400.00	\$400.00
fuel surcharge	N/A for Guam	N/A	50
additional charges: assume no delays in delivery or off-louding	50	\$0	\$0
Payment to APL	\$6,272.38	\$6,272.38	\$6,183.50

Table V MTMC SURCHARGE

	Thesis Algorithm	MTMC Billing
MTON	37.775	37.775
Berth Term Shipment through GBL export ship- ment rate	\$12.13	\$12.13
Billing	37.775 x 12.13 = \$458.21	\$458.21

Table VI CALCULATION OF MSC CONTAINER RATES

	Thesis Algorithm	MSC Billing
Container Rate	\$177.25 per MTON	\$177.25 per MTON
100% Cube of 40° Controlled Atmosphere Container	45 MTON = 1800 ft <sup>3</sup>	45 MTON = 1800 ft <sup>3</sup>
Actual Contents (K Record)	1,511	1,511
Manifest (M Record)	679 + 383 + 449 = 1,511	679 + 383 + 449 = 1,511
Masch?	Yes	Yes
Utilization Factor	1,511/1,800 = 0.84	
Cost of Shipment	45 x 177.25 = \$7,976.25	45 x 177.25 = \$7,976.25
Deficit Factor	1,800/1,511 = 1.19	
Revised Billing Rate	177.25 x 1.19 = \$211.15	
DcCA Andersen AFB Billing	(679/40) x 211.15 = \$3,584.30	\$3,581.55
DeCA NAVSTA Billing	(383/40) x 211.15 = \$2,021.76	\$2,020.69
NSD Billing	(449/40) x 211.15 = \$2,370.16	\$2,374.01
Total Silling	\$7,976.22	\$7,976.25

<sup>&#</sup>x27;This amount is not documented. The cost of shipmont = \$7,976.25.

The total billing must equal this amount. Since two of the three billings are known.

the third can be calculated: \$7,976.25 - \$3,581.55 - \$2,020.69 = \$2,374.01.

<sup>&</sup>lt;sup>1</sup>This amount is not documented, but the total billing must equal the cost of shipment.

### V. CONCLUSIONS AND RECOMMENDATIONS

### A. CONCLUSIONS

The key question proposed by DSO Alameda were: What does it cost to ship a case of FFV? No matter how much FFV was actually shipped, the MSC billing for one controlled atmosphere container of FFV to Guam in FY93 was \$7,976.25. The MTMC billing would be from \$12.13 (a minimum of one MTON) up to \$545.85 (45 MTON x \$12.13). So in FY93 the cost to ship a controlled atmosphere container of FFV to Guam would be between \$7,988.38 and \$8,522.10. If the proper TAC codes are assigned, this amount will be prorated among the customers in the container.

The second question was whether using controlled atmosphere vans provided a savings over air shipment. In this test case, air shipment would cost \$1.26 per pound x 23,446 pounds = \$29,541.96, as opposed to the actual cost of \$8,434.46, a difference of \$21,107.50. In order for air shipment to be cheaper than surface shipment in the controlled atmosphere vans in FY93, the amount of FFV shipped would have to be less than \$7,988.38/\$1.26 or 6,400 pounds.

The next question was how MSC and MTMC determine rates.

They are DBOF organizations, so they must recoup all costs.

Rates are based on historical trends and future forecasts. In

addition, the rates are adjusted by OSD as they see fit to meet OSD's special requirements.

MTMCWA's surcharge is \$12.13 per MTON. MSC does not have a surcharge. MSC charges a container rate that includes all costs and overhead.

Billing is handled by TAC code. It is essential the correct TAC code be assigned to assure proper billing.

The reason for DSO Alameda's confusion as to what rate was being charged was because the rate the government is charged by the carrier is different than the rate MSC charges DSO Alameda's customers.

PISCES does not work. If the normal means of transmitting data from DSO Alameda to the 1302nd Major Port Command is by direct communication between DSO Alameda and the 1302nd Major Port Command, there is a problem with getting data out of DPSC. The current primary use for PISCES is to provide DPSC with data so that they can notify the customers by message.

Direct booking has eliminated MTMC from the process of arranging bookings. During peacetime, this can provide enormous efficiencies. Unfortunately, traffic management is like surge capacity—it is needed mostly in wartime. There is no problem in arranging bookings currently because there are sufficient assets to meet all customer needs. In wartime, as shown by Operations Desert Shield/Desert Storm, there is a shortage of ocean carrier assets. That is when traffic

management is needed. TRANSCOM would be able to tell MTMC whi ... assets had first priority for movement. MTMC would then prioritize bookings. Otherwise, the first command to arrange the bookings would get them.

### B. RECOMMENDATIONS

PISCES should be overhauled. Until the causes for its failure can be determined, DSO Alameda should automatically send cube data to the 1302nd Major Port Command and only use PISCES for informing DPSC of shipping data. DSO Alameda should include the appropriate TAC codes with the cube data to ensure proper billing. It is the shipper's responsibility (in this case DSO Alameda) to provide proper TAC codes.

The commercial container shipping process should be consolidated under one command, either MTMC or MSC. The current system promotes inefficiency and reduces the possibility of obtaining in-transit visibility. MSC handles ocean carriage and MTMC handles booking because of history and tradition. There are currently too many people reviewing and handling the same data

All commands should agree on what identification numbers to use to track shipments.

The area commands should be allowed to set their own rates.

If DBOF's goal is to achieve business efficiencies, then the
area commands must be treated as separate profit and loss

centers. For example, it defeats the whole purpose of DBOF to have OSD arbitrarily set rates, and for MTMC and MSC to be treated as single units. MTMCWA and MSCPAC should set their own rates, and sink or swim on their own merits. In addition, this would reduce the number of manhours needed to develop the budget, and would eliminate the need to establish the rates so far into the future. DBOF requires stabilized rates to be set only one year prior to execution.

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APPENDIX A:

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#### APPENDIX B

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Department of the Army Circular 55–92–1

Transportation and Travel

Military Traffic Management Command Port Handling Billing Rates FY 1993 Headquarters Department of the Army Washington, DC 30 September 1992

\*Department of the Army Circular 55-92-1

Expires 30 September 1993

Transportation and Travel

Military Traffic Management Command Port Handling Billing Rates FY 1993

By Order of the Secretary of the Army: GCROON R. SULLIVAN

General, United States Army Chief of South Official:

MILTON H, HAMILTON Administrative Assistant to the Secretary of the Army

History. This UPDATE printing publishes a new Department of the Army circular. Summary. This circular provides guidance on FY 1993 billing rates for services provided to DOD shippers by the Military Traffic Management Command.

Active Army, the Army National Guard, the

U.S. Army Reserve, and other Department of Defense customers. Others desiring Military Traffic Management Command port handline services should obtain rates from Commander, MTMC, ATTN: MTRM-B. 5611 Columbia Pike, Falls Church, VA 22041-5050.

Interim changes. Interim changes to this circular are not official unless they are autheoricated by the Administrative Assistant to the Secretary of the Army. Users will destroy interim changes on their expiration dates unless sooner junersaded or rescanded.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, Military Traffic Management Command, ATTN: Applicability. This circular applies to the MTRM-B, 5611 Columbia Pike, Falls Church, VA 22041-5050.

Proponents and Exceptions. The pr nent of this circular is the Assistant Secret of the Army (Financial Management). ASA(FM) has the authority to approve ceptions to this regulation. Only except that are consistent with controlling law regulation may be approved. The ASA(F may delegate this authority in writing to a vision chief within QSA(FM) who holds grade of at least colonel or the civil equivalent. The approval authority will co dinate all questions regarding the scop-

authority to grant exceptions with HOD OTJAG, ATTN: DAJA-AL, Washingto Distribution, Distribution of this circu has been made in accordance with spec mealing lists.

DC 20310-2200.

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DA CIR 55-92-1 • 30 September 1992 LINC! ASSIEIED

#### 1. Purpose

This circular provides the FY 1993 Army Industrial Fund billing rates for cargo port handling services provided to DOD shippers by the Military Traffic Management Command (MTMC).

#### 2. Reference

Required and related publications and prescribed and referenced forms are listed in appendix A.

## 3. Explanation of abbreviations and terms

Abbreviations and special terms used in this circular are explained in the clossary. The terms are defined as they normally would be in a container context or environment.

#### 4. Geographic rate structure

Rates are established for five billing areas: 4. MTMC Eastern Area, Atlantic coast, Gulf ports, and the

Great Lakes b. MTMC Western Area. Pacific coast ports. c. Caribbean, Panama, Central America, and the Caribbean Is-

d. MTMC Europe. Belgium, Federal Republic of Germany, It-

aly, and the Netherlands. s. MTMC For East, Japan and Korea.

#### S. Application of rates

Table 1 describer the basic cargo commodity groups. Tables 2 through 7 list rates applicable to commodities moving under the control of MTMC through military and commercial ocean terminal facilities; rates are per measurement ton (MTON). In addition to the basic transshipment rates in tables 2 and 3, other charges for special handling may be applicable as specified in tables 6 and 7. When class A explosives have been or are being worked in the immediate area. all cargo loaded will be billed at the explosive rate. a. Table 2 rates apply to port handling services for export ship-

ments moving through continental United States (CONUS) and overseas ocean terminal facilities. b. Table 3 rates apply to port handling for services for import

shipments moving through CONUS and overseas ocean terminal fa-Table 4 and 5 rates will be applied for services performed by

MTMC in connection with releasing, booking, documenting, and expediting all offshore, intercoastal and coastal export and import berth term shipments d. Table 6 and 7 rates for special handling will be assessed in adion to charges applicable under the provisions of tables 2 and 3. Billing charges will be based on cube of cargo actually packed.

6. Special cargo rates

When a rate is required for a commodity or a special movement for which no rate has been established, the MTMC area commander, receiving the requirement, will submit a recommended rate to the Commander, MTMC, ATTN: MTRM-B, for approval.

#### Basic cargo commodity billing groups

201

40

41

47

50

en.

Parrent.

Arcraft, unboxed. Whose arcraft or complete fuselages whether or not engines are installed. Does not include spare parts, engines,

airrest recey supplies, or bound aggrest. Explorers. Explosers and chemicals, come, face, THT Sects, case, hard greaters, profer, granter, or any open commody, and the section of the

Military-owned demountable continuers (MILVANs) packed with explosives. Explosives placed in containers are classified as containers. MTCNs recorded and billed to the scoreor for MILVANs will be applied to the gross cube (1.290 cube feet or 32 MTCNs). 25

Bulk, Unpacked dry or liquid cargo that is shipped in large quantities such as coal, grain, ore, sulphur, fertilizer, and edible oils.

General cargo (cargo, not otherwise specified). All classes of cargo for which specific commodity classifications are not established.

This will include but will not be limited to small arms and small arms amountion and metal barries (drums, 10–14 cubic feet, loaded). Also includes unitized rango, happed and secked products, canned goods, beverages, and wing and beily tanks. Includes all mail and parcel post transshipped in secta

Wood products, unboxed, All lumber, plywood, logs, poles, and piling as identified in but not limited to the standard stevedore contract. Metal products, unboxed. Angles, bars, beams, billets, blooms, channels, ingots, pigs, piates, rais, rods, sheets, sheet

piling—labricated and nonfabricated. Cargo transporters. All cargo transporters including container express (CONEX), loaded or empty. Household goods placed in containers are classified as containers. Retrograde empty containers will be billed to the sponsor according to AR 55–170. Actual containers will be designated as necessary to comply with funding and reporting requirements.

MIL VANs (other than explosives). At MIL VANs packed with other than explosives and empty MIL VANs. General carpo, mail, or other commodities placed in containers are classified as containers. MTCNs recorded and billed to the sportsor for MILVANs will be applied to the gross cube (1,280 cube feet or 32 MTCNs) of the container. Household goods (HHG), HHG packed in boxes, barries, crates, tootookers, and trunks. Does not include HHG packed in CONEX.

Retrigerated cargo. All chill and treeze penshable toods and other cargo requiring retrigeration, includes both chill and freeze for Navy feet and bulk storage and commercial berth term shipments. Heavy Government vehicles and equipment, unboxed, over 10,000 pounds. All unboxed Government equipment and vehicles

weighing over 10,000 pounds. Includes wheeled road construction equipment and boats. (Excludes track vehicles.) Government vehicles and equipment unboxed, up to and including 10,000 pounds, All unboxed Government vehicles up to 10,000 pounds. Includes wheeled unboxed road construction equipment and boats

66	Tracked vehicles and eculpment, All unboxed tracked and semi-tracked Government vehicles and construction equipment regardless of weight.
70	Commercial water highway III—Alisata (other has POVIs), Includes cargo programmed separately to and from Assata shrough ATIAC Terminal Lind Papers (softeness, Elipsor cargo in offered on the port call fifth the tempers in described by MTAMOS and commercial inter-haut states aboned to the summar. Cargo to destribed will be billed to the socious or a social rate. Include been the set and offer of costs.
70	Pack into or unpack cargo from CONEX. Represents basic commodities that were packed into or unpacked from CONEX contain
72	Commercial water highway lift—Alaska (POVs), Similar to code 70 but applicable to POVs only.
73	Commercial- or Government-owned (or lessed) stripping containers (SEAVANs). Represents cargo vans for at van companies that are packed by vendors, depots, van companies or MTMC terminals by use of in-house or military terminal contractors.
75	Unifization of cargo-general. Represents all types of basic commodities that were unifized, paletzed, or placed in tri-walls.
76	Unitization of cargo—explosives. Represents explosives that were unitized, palletzed, or placed in tri-walls.
77	Pack cargo into or unpack cargo from SEAWANs, Represents all types of basic commodities (except codes 50, 60, 81), and 62) to were packed into or unpacked from SEAWANs.
79	Pack into or unpack vehicles from SEAVANs, Represents basic codes 60, 61, and 62 that were packed into or unpacked from SEAVANs.
80	Privately owned vehicles (POV) processing. Receipt, documentation, and processing and loading and unloading of POVs to and car carriers.
83	Frustraind cargo. Represents all types of export basic commodifies reshaped to the source or delayed in port due to entitlargoes overseas destinations, improper maning or lack of valid transportation account codes (TAC) on occumentation. Special charges assessed in handling frustrated cargo.
84	Pack into or unpack from MILVANs—privately owned vehicles. Represents POVs (code 62) that were packed into or unpacked to MILVANs.
35	Pack into or undeck from MILVANs—general dargo, Represents all general type commodities that are packed into or undecked fi MILVANs, Excludes POVs (code 62) and explosives (code 20).
16	Pack into or unpack from MILVANs—explosive cargo. Represents explosives (code 20) that were packed into or unpacked from MILVANs.
87	Pack retrigerated cargo (code 50) into or unpack from SEAVANs, Represents basic code 50 only.
38	Pack or unpack Army and Air Force Exchange Service (AAFES) cargo. Represents AAFES warehouse cargo handled at MTMC Western Area.

Physiaty owned vehicles (POVs), unboxed. Physiaty owned automobiles of military personnel, dependents, DOD civilians, and o authorized persons.

Table 2

					Per Messurer			
Code	Commodity Description	Enstern	,	Western	EUR	Car		PE
10	Aircraft (unboxed)	\$ 5.2	1	\$ 19.72	\$ 5.3			\$ 4.75
20	Explosives	124.2	5	103,98	72.0		-	33.50
25	MIL VANs-Explosives 1	31.1	9	40.99	15.5	0 -	-	19,95
30	Buk	10.6	4	6.41	5.3			21.42
40	General Carps	- 74.9	4	1114.80	64.8	7 \$140	146 -	31-97
41	Wood products (unboxed)	77.2	6	98.60	63.5		-	30.12
47	Metal products (unbosed)	29.1	1	112.75	73.2	0 -	_	41.63
44	Carso transporters/CONEX (loaded						4.00	
	or empty) 1	32.2	0	49.25	15.7	1 16	143	15.85
45	MILVANs-aucept explosives 1	19.5	D	39.27	11.0		-	16.03
47	HHG (includes baccace)	45.6	2	128.51	38.6	9 -	_	31.42
50	Retrigerated cargo	28.5	0	62.42	23.1	3 -	-	-
50	Heavy Government vehicles over 10,000	-						
	pounds	26.1		35.82	12.4	0 4	.89	13.08
61	Government vehicles 10,000 pounds or			-	-		-	
	Dedec 30 2	~ 34.3		1. 45.70	· > 23.0	7 % 13	SF -	127
52	Privately owned vehicles	24.6	в	78.94	17.9	6 32	17	28.30
56	Tracked vehicles	24.8	2	37.95	21.8	3 6	.89	20.53
73	SEAVANs (Consists of documentation and							
	G&A overnead only)	9.3		9.75	5.1	0 7	.89	11.10

1 Stefrig Dassed on Guide produced by outside dimensions of the MILVAN or CONDX

Table 3

				For Measurement Tor	,	
Code	Commodity Description	Esstern	Western	EUR	Cent- been	PE
10	Aircraft (unboxed)	\$ 3.90	\$ 8.85	\$ 3.01		\$ 23
20	Explosives	106.50	103.85	83.02	-	27.3
25	MILVANs-Explosives	24.93	35.61	13.04	_	11.3
30	Buk	27.79	18,07	5.31	_	18.8
40	General caroo	62.31	77.20	34.20	16.42	20.2
41	Wood products (unboxed)	44.85	62.31	39.21	14.06	14.1
43	Metal products (unbased)	77.90	108.12	66.09	5.01	16.5
44	Carno transporters/CONEX (loaded or					
	erricity) 1	21.27	26.06	30.18	8.68	7.5
45	MILVANS-except explosives (including					
	empty) 1	12.50	18.46	16.23	21.42	17.9
47	HHG (includes baggage)	72.32	103.23	58.32	_	22.6
50	Reingersted cargo	68.63	44,10	36.47	_	9.9
50	Heavy Government vehicles over 10,000					
	pounds	17,40	27.62	9.75	9.05	9.3
61	Government vehicles 10,000 pounds and					
	under	18.65	30.71	13.96	10,76	5.6
52	Privately owned vehicles	25.12	23.76	15.79	-	14.2
66	Tracked vehicles	18.35	27.59	15.73	9.05	19.5
73	SEAVANs (Consists of documentation and					
	G&A overneed only.)	9.12	10,71	4.25	9,01	10.0

Table 4

Berth Term Shipments and through Government bill of lading shipment

1	_	Eastern	Western	EUR	Cantosan	FE	
L. Export							_
Aircraft (Berth)		\$10.75	_	-	_	_	
Vehicles 1		7.84	10.41	6.75	7.48	2,07	
All other cargo	.50	10.39	12.13	6.21	8.24	2.07	
MILWANIS		7.02	5.99	6.52	2.35	2.07	
Import	. 5						
Arroratt (Berth)	-2	10.75	-	-	-	-	
Vehicles !	3.1	10.34	8.21	6.75	6.69	2.07	
All other cargo		19.51	12,87	7.25	6.75	2.07	
MILVANS		2.92	8.06	1.82	2.43	2.07	

Linear day comments and an All and All

Table 6 Special Handling Charges—Export

	Coope	Export		Cases and	> Western and -	COM	- Caretouge	4.75
1	71	Packing CONEX		52.14	128.93	39.63		2.50
V	75	Unitizing for Export (Tn-wall & Palletze)		27.85	35.48	-	-	_
	78	Explosives	71	48.75	10.01		_	_

Table 6 Special H	andling Charges—Export—Continued				
			P <sub>4</sub>	Measurement T	on .
Code	Export	Esstem area	Western area	EUR	Carebook
77	Packing SEAVANs				
	(All other cargo)	40.55	27.64	19.09	\$ 6.56
79	Packing SEAVANs				
	(Venicles)	19.99	18.74	14.53	6.01
to:	PCV Processing	3.76	-	_	_
33	Frustrated Cargo 1	18.27	7.66	_	21.57
14	Packing MILVANs (POVs)	19.93	8.75	18.97	_
85	Packing MILVANs				
	(All other cargo)	89.64	28.15	39.38	_
86	Packing MIL VANs (Explo)	65.55	54.97	-	_
47	Packing SEAVANs				
	(Refrig Cargo)	27.75	32.67	26.29	_
20	Dack / Jonack AACCC Cares	-	12 27		

Table 7			
Special	Handling	Charges-	-import

			Pe	Measurement T	on.	
Code	Exect	Eastern area	Western area	BUR	Canttoasn	
71	Unpacking CONEX	32,10	21.58	20.75		
75	Unitizing for Export					
	(Tri-wal & Pallette)	15.70	8.78	_		
76	Explosives					
	(To-wat & Patienze)	47.55	10.81	-	-	
77	Unpacking SEAVANs					
	(All other carpo)	31.35	17.66	41,19	28.15	9
79	Unpacking SEAWANs					
	(Vehicles)	34.64	13.46	21.42	19.03	7
30	POV Processing	4.25	7.67	_	-	
82	Frustrated Cargo 1	18.75	-	-	-	
84	Unpacking MILVANs (POVs)	11.12	10.65	13.13	_	
15	Unpacking MILVANs					
	(All other carpo)	19.13	4.74	36.63	4.23	10
36	Unpacking MILVANs					
	(Explosives)	160.67	_	_	-	
17	Packing SEAVANs					
	(Refing Carpo)	11.95	6.34	5.40	7.51	
15	Pack/Ungack AAFES Cargo	_	5.16			

# - Lander Company

## Appendix A References

Section I Required Publications

AR 55-170

AR 35-170
Apportionment, Manifesting, and Billing for Ocean
Transportation and Port Handling of Empty CONEX Containers (Cited is table 1.)

Section II Related Publications

A related publication is merely a source of additional information. The user does not have to read it to understand the publication.

There are no entries in this section.

Section III Prescribed Forms

There are no entries in this section.

Section (V Referenced Forms

There are no entries in this section.

#### Glossary

#### Section I

Abbreviations

AAFES Army and Air Force Exchange Service

container express

CONUS

continental United States DOD

Department of Defense HHG household goods

GAA general and administrative

MILVAN military-owned demountable container

MTMC Military Traffic Management Command

MTON

DOV privately owned vehicle

commercial- or Government-owned (or leased) shinning container

transportation account code Section II Terms

я

All other cargo All cargo for which the Army accepts shipping responsibility except that classified as support or foreign assistance: cargo con signed to the resident engineer for Corps of Engineers construction projects; and cargo of the Navy, other U.S. Government agencies. Red Cross, privately owned commercial

shipments, and so on. Berth term A contract for ocean carriage (coastal, intercoastal and offshore) of cargo on commercial vessels operating on regularly scheduled berth or lines service based on a published trade route (including loading and discharging costs). Rates are in accordance with the published conference or company tariff and with specific commodities for which an ocean

bill of lading isthe contracts

Berth term shipment rate

Charges for services performed by MTMC in connection with releasing, booking, documenting, and expediting all offshore, intercoastal and coastal export and import shipments moving under commercial berth term

Commercial- or Government-owned (or leased) shipping container Commercial- or Government-owned (or eased) shipping container that is moved via ocean transportation without bogey wheels attached; that is, lifted on and of the ship

This term as used in this publication is synonymous with container. A container is an article of transport equipment designed to be transported by various modes of transportation, having an interior volume of 400 cubic feet or more, and designed to facilitate and optimize the carriage of goods by one or more modes of transportation without intermediate handling and transfer from one mode to another. Containers may be fully enclosed with one or more doors, open top, tank, refrigerated, open rack, gondola, and other designs. Also referred to as van.

a. Code name that identifies the operation of cargo transporters in a worldwide service under the control of the Joint CONEX Control Agency. b. A reusable, serially-controlled, metal

container for shipment of troop support cargo, quasi-military cargo, household goods, or personal baggage. Dangerous cargo and label cargo Hazardous cargoes which must be clearly labeled in accordance with current Coast

Guard regulations includinga Dangerous cargo. Ammunition and expiosives will be handled only through amm mition and explosives loading areas specified by higher authority b. Labeled cargo

(1) Red Label-dammable liquids and (2) Yellow Label—flammable solids and

oxidizing materiels. (3) White Labelecids, corrosive, or alkaline caustic liquids. (4) Green Labei-nonflammable gases.

(5) Radioactive materiel label. -Measurement ton Measurement of cubic volume of cargo, expressed in units of 40 cubic feet. It is also used to indicate the cubic capacity of a ship available for cargo. Also known as ship ton.

Military-owned demoutable container Military-owned container conforming to United States and international standard and... experated in a centrally someolled fleet for movement of military cargo.

A shipment is a quantity of supplies, ma iels or equipment covered by an indivishipping document, originating from shipper agency at one origin point and de nated to one consignee at final destinati

One or more line items shipped to one mate consignee under one key transportacontrol number

Shipping contract (space charter) A negotiated contract of rates covering tri routes or ocean carriage of cargo (load and unloading cost excluded) on commer vessels operating on a regular scheduled is vice to or from specific world trade areas of

Terminal cargo transshipment rates The commodity rate to be assessed on any dividual shipment moved through the do and vessel area at a terminal facility loaded onto a vessel and all shipments charged from a vessel.

Through Government bill of lading A bill of lading that is issued by a DOD act ity to document overseas, intermed through movement of cargo from init point of origin to final destination.

portation unit One or more shipment units moving a sing conveyance under one key transportation control number

Section III Special Abbreviations and Terms This section contains no entries.

#### Military Sealift Command

Central Technical Activity Washington Navy Yard Washington, D.C. 20398-5541

RG-38 (Cancels RG-36) Second Cycle, RFP-2400



MSC Container Agreement
& Rate Guide

Effective 1 October 1992

(Except as otherwise provided herein)

OVER 20	-					OM # 10			
US MEST COAST .	AGOLE INDEX OT	204E A1	ZONE AT KWAJALETH	ž			· coess outboard		
010 UR CARCO	129.37 MISH				010 GEN CARGO	124.83 N158	2.17		
953 VEHIÇLES	260.47 HISH				023 VERICLES	75.005 N15M			
000	224.14 334 i MISH				070	NO SERVICE	100		
NOVIE INDEX OF	ADDIE 140EK 01 US 14ES COASI - FAR EASI AREA	20ME A2	ZOME AZ KONTA O.L. 5				CONUS, QUIROUND		
010 GEN CARGO	59.17 APLS				010 648 CARGO	30.88	33.03		
623 VERICLES	90.50				023 VEHICLES	25.50	102.73 SUND		
070	NO SERVICE				REF 9.0	103.90 SIND			
ROUTE INDEX 01 US MEST CORST	NO. MEST COAST - FAR EAST AREA	ZONE A.	ZONE AS OCCINAMA 'C.F.	15		1			
010 6EM CARGO	56.95 AP15				010	STREET	57dV		
UZ3 VEHICLES	165.00 APLS				WHICLES	137,50	157.72 SUND 5.11.17		
910	ND SERVICE				040	114.50 SLND	114.52		

#### APPENDIX F

	SHIPMENT			T FOR FISC G	VAN NO.	9
CUT OFF 01/19/94	SD0 01/20/94	ETA 01/31/94	RDD 01/31/94	ATMOSPHERE CONTROLLED	VAN TEMP 33 F	HUHIDITY 90 TO 95 %
CAR. APL 800	RIER 51738	SH PRES MONR		TCN SCGA084020		N NO. SEAL NC. 0/36 +48735
DSOA WA	REHOUSE VI	N LOADING	SEQUENCE	CUSTOME	R DELIVERY	SEQUENCE
	LOAD 2	ST: HQCWH ND: HQCWH RD: N6111	2	DELIVER	1'ST: N611 2'ND: BQCWI 3'RD: BQCWI	HZ

COMMODITY	CODE	CASE	CUBE	AVG WT/CS	NET WT	CASES NC1119
APPLE, RED, FANCY, 12.5 LB B	04042	1.90	57	40	1,200 LB	36
PEAR, 100-150 C	04670	1.75	14	36	298 LB	8

SUBTOTALS FOR VAN AL

CASES 38 | LBS 1,488 | CUBE 71.00

	SHIPMENT			R ANDERSEN D	ECA CSY: HQC VAN NO.	STRY
Ct 9.7		ETA U1/31/94	RDD 01/31/94		VAN TEMP 33 F	SUMIDITY 90 TO 95 €
APL SOU	1.1ER 51/38	PRES MONE	IIP NOE V108	TCN SCGA084020		NO. SEAL NO 86 448735
DSUA HA	LOAD 1	AN LOADING		DELIVER	R DELIVERY S 1'ST: N61119 2'ND: HQCWHZ	

COMMODITY	CODE	CUBE/ CASE	TOTAL	AVG WT/CS	TOTAL WT	CASES
APPLE, GRANNY SMITE,	14024	1.90	23	40	480 LB	1
APPLE, GOLDEN DEL, WA, 80 COUNT	14057	1.90	36	36	684 LB	1
APPLES, RED/DEL 3# BA,	14085	1.90	42	36	792 LB	2
APPLE, RED DEL, 80 COUNT	14094	1.90	86	40	1,800 LB	4
PEAR APPLE (ASIAN PEA,	14145	1.50	30	10	200 LB	2
PEAR, D'ANJOU,	14880	1.70	20	36	432 LB	] 1

# SUBTOTALS FOR VAN A1 FOR EQCWEY

CASES	130	LBS	4,388	CUBE	236.60

OATE LEFGRT .HEPARED: 12/29/93 0 11:03:38

	WAREHOUS SHIPMENT		WORKSHEET VA	FOR GUAM DEC	VAN NO.	WHZ
		ETA 01/31/94	RDD 01/31/94	ATMOSPHERE CONTROLLED	VAN TEMP 33 F	HUMIDITY 90 TO 95 %
CARI APL 800	RIER 51738	PRES MONR		TCN S SCGA084020	VA V016MP5 5;	N NO. SEAL NO.
DSOA WAI	REHOUSE VA	N LOADING	SEQUENCE	CUSTOME	R DELIVERY	SEQUENCE
	LOAD 2'	ST: BQCWH ND: BQCWH RD: N6111	Z	DELIVER	1'ST: N611 2'ND: HQCW 3'RD: HQCW	HZ

COMMODITY	CODE	CUBE/		MT/CS	TOTAL NET WT	CASES HQCWHZ
APPLE, RED 5# CELLO,	14009	1.90	456	5	1,200 LB	240
APPLE, GRANNY SMITH,	14024	1.90	19	40	400 LB	10
APPLE, JONATHAN, 88 COUNT	14051	1.90	4	40	80 LB	2
APPLE, GOLDEN DEL, WA, 80 COUNT	14057	1.90	19	36	360 LB	10
APPLE, MACINTOSH,	14066	1.90	4	40	80 LB	2
APPLE, RED DEL, 80 COUNT	14094	1.90	38	40	800 LB	20
APPLES, BRAEBURN,	14115	1.90	4	40	80 LB	2
APPLES, GALA,	14120	1.90	4	40	80 LB	2
APPLES, FUGI,	14121	1.90	4	40	80 LB	2
PEAR, RED,	14867	1.75	9	36	180 LB	5
PEAR, D'ANJOU,	14880	1.70	17	36	360 LB	10
PEAR, BOSC,	14898	1.70	9	36	180 LB	5

SUBTOTALS FOR VAN A1
FOR EQCHE2

DATE REPORT PREPARED: 12/29/93 8 11:04:44

#### APPENDIX G

17.37/A F08395A4237 (883339 F745-/J.)----E18352. FROM DRSC FHILADELPHIA-FA: DRSC-475 FAUT DESCHALLASSEMENTAFRANDESCHITE:

10 REMERANDESE GEMER HOBERSUN AND 13 DESCHULAHAYAND /

11 MARGENBERA NORTHARET RADIESCH MED 17 LENIS MAKINE JAMMA
14 MARGENBERA NORTHARET RADIESCH BON FILLENIS MAKINE JAMMA
15 SERNANDER LIANSSON DESCHALL PAUT SECH-DOLLANDESCH MAKENEN /

15 SERNANDER LIANSSON DESCHALL PAUT SECH-DOLLANDESCH MAKENEN /

15 SERNANDER LIANSSON DESCHALL PAUT SECH-DOLLANDESCH MAKENEN /

15 SERNANDER MAKENEN MED PAUT PAUT MAKEN MAKEN MAKEN /

15 SERNANDER MAKEN MAKEN MED PAUT PAUT MAKEN MAK SECTION OOL OF COL. ADVANCES PERISHABLE CONSIST DATA SEQUENCE CA44 THE PROPERTY OF THE PROPERTY O TRANGER CAL' 4003 702408 \$9:50151:2754 TRM NUMBER ###> 14721 0000 TOTALS ACTION FOR THE FOR THE PRINCIPLE STATEMENT OF THE FOR T WGT CUBE FGS UT-PRC ROD ITEM DESCRIP REGULBITION STOCK NUMBER UPK 9TY U/1 35-PRC 03-PRC 4080 12s 70 .00 POT RED 5# P 4003 7075XX 3915018112754 50 # 14 03/2315 T3\* 53: #402 - 0 #67: 5935 F08: 97-480 R10 TIER DESCRIP RESULBITION STOCK WORSES UPS ar. 0.1 32-980 03-990 FEFFER ANAHE 4003 711464 8915009112332 20 3475 :87 128 .00 31 ITE 1 NUMBER ---> 15495 TTEN NUMBER ###9 15449T ETED 15 100

TOTALS WETHOOGETS CUBES-DOIET PISH-DOOLS
CHIE KAMHAME SERVAMHTON PIZ PED VESSELHAMME ETA COMSUS TEM
LLS SPESEM ADSOUNDEMPE DES TAL PRINCHAME DIS HACKAM 11-40
TTE SESSIAL RESULTENCIAL STOCK VUMBER UPN 407 DUSE TOS UPN 1-490 KOD 979 2/1 33-990 03-P50 10.44- 4004 - 4003 708-XX 8915008:11:492 40 135 153 .00 1"E1 NUMBER ###> 16720 WGT-0003465 QUBER-000135 1 3-000123 CANE JAM-AR SEAVAN-TON POE POD VESSEL-NAME 374 CONSGE TEM 4219 810136 4020V015MP5 302 TAL 78 MONROS 231 HQCWHY C WGT CUBE PCS UT-PRC RDD . TEM DESCRIP REQUISITION STOCK NUMBER UPK STY U/I SB-PSC CS-PSC AFPLES RSD 0 4003 7004XX 3915009111327 4088 207 100 .00 31 4:30 LS .00 ITEM NUMBER ===> 14035 TOTALS WGT-0004388 CU259-000307 P03-000:00 INTE JAN-MR SEAVAN-TON FOR POD VESSEL-MAME STA CONSCRITE! 03: H8CW-/ APLS SPOIRT ACCOVOITMES 3DE TAI PR MONROS TE SESON PRESIDENT NOTES OF THE 497 GUZE = 13 UT-PRC RES 2": U/I 32-891 03-PRG SRAFES WHITE 4003 7017x4 8915005111045 83 34"L 251....355....00 7: 1784 NUMBER ===: 14513 52-5 13 TGTAGE WGT-0006470 CUSSS-00035: PIS-000255 4003 7034KA 8905003111467 40 7880 443 874 100 30 104 0905

```
#173276W RUECSH44293 1333309 MT*SHOUNGH-RUECSCO.
 INF GUUUS
 4 2:20092 JAN 94
 FICH DREC PHILADELPHIA-PAI/DRECANTS -
 TI PUNGMII/NED GUAM GG//CODE 304ae.
 SUMBRITUDEDA CORSY NO GOVEDEDA INVITE GUA.
 NEWCORK OF MEMOTY MECOBO GOVERNES TO DOSEN CARRIER//
 T.WAWLS DELA HORTHWEST PACIFIC FOR FT LEWIS WAS COLD NO.
 9.85363 890 ALAMEDA CA
PUSCSHA/SECA LIAISON DRSC PHIL PARTOSCA-DOLL-
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                 SECTION OC: OF OC:.
ADVANCED PERCEMABLE CONSIST DATA SERVENCE OFFE
 THOS SATCH CONTAINS VOYAGE NUMBERS # 4030
 SINA VAN-MA BEAVAN-70N FOR PCC VESSEL-MAME
                                           ETH CONSCENSE
ARLS SICIAR ACCOVADIMES 302 TAI PR MONROS
                                           03: HeckHt :
TEN DESCRIP RESULBITION STOCK NUMBER UPS
                                           WGT CUSS FOS UT-PAC FOS
                                          GTY U/1 33-9AC 03-980
 37-49GE CAL/A 4003 725e4X 89:50181:2753 35 5019 135 128 .00
         178M NUMBER ===: 14730
                                         5130 L3
                 WGT-0005019 CURES-000185 F18-000148
TANK MANHAR SEAMANHTON POE POD MESSEL-NAME ETA CONSCEITSM
-FLE 507725 4020V0C2HPS 352 TA: P9 MCNFCE 03: H0CWHS
THE DESCRIP REQUISITION STOCK NUMSES OF A
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         1754 NUMBER ===> 15217
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APLS 59854" 4010VCG4MPS 308 TAL PS MONROS
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WGT CUSE 703 WT-850 RD0
TTEM DESCRIP REQUISITION STOCK NUMBER UPK
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LEMONS 95 31 4003 7237XX 89:5005:::735
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         ITS4 NUMBER === 14571
                                         1575 L3
TOTALS
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DANR VAN-NR SEAVAN-TON POE POD VESSEL-NAME ETA CONSGE TEM
                                          DEL HOCHHE
APLS 5:0186 4020V015MP5 3D2 TAI PR MCNROE
ITEM DESCRIP REQUISITION STOCK NUMBER UPK
                                           WGT CUBE PCS UT-PRC ROD
                                          97Y U/I 38-P90 03-P90
APPLES MACIN 4003 7337% ( 8915003111945 40
                                          3995 58a 3:: .00
         oc041 . ... RESHUR PET1
                                        13440 L3
TOTALS #07-0003905 CUSSS-000535 PCS-000511
CAMP WAN-NE SEMMATCH FOR PCD NESSEL-NAME STA CONSCS TEM
                                           AFLS 599197 4030V0:7MP5 303 TA1 P9 MONROE
TTEM DESCRIP REQUISITION STOCK NUMBER OFF
                                         977 871 88-980 89-443
LETTUCE CELL AGGS TOLONE SPISOSSILIAAS 30 5235 286 ALL .30 31
                                        9220 L3
        [TEM NUMBER === : 16313
TOTALS
                 4GT-010E3D5 3UBES-00039a F3S-0002:1
CARS VANHAS SEAVARITEN FOR PCS JESSEL-NAME ETA CÓNSUS TEM
AALA 599577 ACADVOLAMES IDA TAL PR MONFOE
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   THIS SATCH CONTAINS VOYAGE NUMBERS F 4000
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  TANGERINES 4003 642-XX 8915005324361 25
                             [TEM NUMBER ###> 04790
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 CAMP VAN-Nº SEAVAN-TON POE POD VESSEL-NAME ETA CONSOS TEM
 ARLS SCITES 4180000MRS BOS TAI PR MONROE
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TOTALS
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CHAR VAN-AR SEAVAN-TON POE POD VESSEL-NAME ETA CONSCETEM
APLS 5:0136 4020V015MPS 3D2 TAL PR HONROE
:"SM DESCRIP REQUISITION STOCK NUMBER UPN
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FOTALS 407-0002506 00085-000181 P49-000095
DANS JANSHY BEAVANSTON FOR POD JESSELSHARE ETA JONSOE DEF
APLS 52957" 4030V012HPE 3DS TAL PE MONPOE | 031 H81.17 0
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#### APPENDIX H

4PEA - 1- GA SEAVAN CONSIST .4H NO DWNP SE TEMES FOR FOO - 1FSEAVAN "CN	FACE OC: 031 105 FR MONFIE DWSEE 0 985 15 57-59 1015 1241 113 3241 NO TEME
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	ent control of the co
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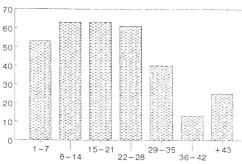
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EMIER ICH & E for Emport or I for Import(# = HEW QUERY) QUIT to end session	USHF ETA AFOT FRE FOD CHSE COMMEX DESC FCS UT DJ FKG FC 4020 4025 3U2 TAI HOCWHT 115HF 0011/9 001/9 00793 0089A ZC 08H FKJ TAK VICHV/HHARK/EKERS DEL RCUP LEHF LHED CE UDHER FEES.HOURGE 109 9219 0	M SCGAOBAOZOVOLENFS MANIFSTD W.Z
Import(% = MEW QUERY) QUIT	DEL ROUP LEHF LHED CS ONHI	TECH STOW ROD VS VSHE 1810
to end session	KG FORH LOCH MEED 2C 4021 ER HISTPIE 4026	HR CHSR FRI CCHO
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#### APPENDIX K





#### APPENDIX L

ſ	WAREHOUSE L SHIPMENT #		R ANDERSEN DECA CSY: HQCWHY Al VAN NO.
		ETA RDD 7/05/93 07/05/93	ATMOSPHERE VAN TEMP HUMIDITY CONTROLLED 33 F 90 TO 95 %
	CARRIER APL 80039323 P	SHIP RES MONROE V102	TCN VAN NO. SEAL NO. SC03084340V005LP5 599/70/
	DSOA WAREHOUSE VAN LOAD 1'S' LOAD 2'NI LOAD 3'RI	LOADING SEQUENCE T: HQCWHY D: HQCWHZ	CUSTOMER DELIVERY SEQUENCE  DELIVER 1'ST: N61119  DELIVER 2'ND: HQCWH2  DELIVER 3'RD: HQCWHY

CODE	CUBE/ CASE			TOTAL WT	CASES
14024	1.90	29	40	600 LB	1 (15
14037	1.90	19	4.0	400 LB	1 (19
14057	1.90	15	36	288 LB	1 (8
14085	1.90	38	36	720 LB	1 /20
14092	1.90	38	40	800 LB	1 (20
14094	1.90	57	40	1,200 LB	(30)
14145	1.50	24	10	160_LB	16
14146	1.90	228	5	600 LB	1 (120)
14880	1.70	26	36	540 LB	1 715
16310	2.30	184	30	2,400 LB	1(100
	14024   14037   14057   14085   14092   14094   14145   14146	CODE CASE 14024 1.90 14037 1.90 14057 1.90 14085 1.90 14094 1.90 14195 1.50 14146 1.90 14880 1.70	CODE   CASE   CUBE     14024   1.90   CUBE     14037   1.90   19     14037   1.90   15     14085   1.90   38     14092   1.90   38     14094   1.90   5     14194   1.90   5     14146   1.90   228     14880   1.70   26	CODE CASE CUBE WT/CS 14024 1.90 29 40 14037 1.90 119 40 14037 1.90 13 36 14085 1.90 38 36 14092 1.90 38 40 14094 1.90 37 40 14104 1.90 228 5 14880 1.70 26 36	CODE   CASE   CUBE   WIT/CS   WIT

that State

SUBTOTALS FOR VAN A1
FOR HQCWHY

338 9/48 679

The State 2340 (553)

DATE REPORT PREPARED: 06/14/93 @ 13:36:18

#### APPENDIX M

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INP DRUBBIS
        3 S12335Z JUL 93
POM OPSC PHILADELPHIA, PA//DPSC-NTS//
        TO RUNG * 11/NSO SUAM GQ//CODE 30466//
        "UHGHTI/DECA COMSY NS G7//DECA/NW/HA/GUA//
        THE DAW CH PINCTY MECORD GO//PASS TO OCEAN CARREST//
        PUWAWIS/DECA NORTHWEST PACIFIC RGM FT LEWIS WA//DECA/WA//
        HEDSOZ/DED ALAMEDA CA
        PUEDSKA/DECA LIAISON DASC PHIL PA//DECA-DOOL//
        . +
        PICLAS
                                                                      SECTION OC1 OF CO1.
        SVANCED PERISHABLE CONSIST DATA SEQUENCE 0415
        THES PATCH CONTAINS VOYAGE NUMBERS P 4340
       THE STANGARD AND VESSEL-NAME ETA CONSIGNE
        "LS 599150 4340VC05M35 302 TA1 PS MONROE
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    FEM DESCRIP REQUISITION STOCK NUMBER UPK
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                                                                       WET-U017452 CUBES-GRU393 PCS-000456
                                       ITEM NUMBER ===> 14u37
        ANR MAN-NR SEAMAN-TON POE POD MESSEL-MAME ETA CONSGE TEM
         "LS 599422 4340V006M35 302 TA1 PR MONROE
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         TEX DESCRIP REQUISITION STOCK NUMBER UPK
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			DATE NOTICE PREPARED
GOVERNMENT BI	LL OF LADING CORRECTI	ON NOTICE	
I. GBL NUMBER	2. DATE GBL WAS IS		30 JUL 93
			3, TOTAL WEIGHT SHOWN ON GAL
C-7799129	19 JUL 93		anown in "Destination" block on GSL.)
APLS TERMINAL (	DAKLAND, CA (3D2)	GUAM MARIA 7. ISSUING OFFICE MTWAOP-TO-	NAS ISLANDS (TA1) As about as 08L under "For Use of Immune Office.") C. OCCA DIVISION AND. CA 94626-5000
			AND, CA 94626-3000
	COMP TO WHICH SPECIES, INCIDENT EXPERIENCES.  CAN PRESIDENTEXNES: MARILYN SEMPRIMOZN	LINES	<ol> <li>Complete Items Se, b, and c only when co rection is made after transportation charge have been paid.</li> </ol>
1579	MIDDLE BARBOR ROAD	,	a. D.O. VOUCHER NUMBER
	SOX 23190 ND, CA 94607		b. D.O. VOUCHER DATE
			c. 0.0. SYMBOL
IO. FROM: (Full name and address of	the activity mulipling the natice, includ-	ng ZIP Code.)	<u>'</u>
OARB, OAKLAND,			
11. BILL OF LADING NOW READS IN	thou the information as it reads prior	12. CORRECT SILL C	F LADING TO READ (Show how the corrected infor
5 CONTIANERS AS	DESCRIBED ON THE	CONTAINERS A	MSISTIMO OF A TOTAL OF 56 AS DESCRIBED ON THE ATTACHE SHIPMENT DESCRIPTIONS.
13. AUTHORITY FOR CORRECTION	(Tunif and item numbers, classification	and item number; or old	er suingrity for making the change.)
51 ADDITIONAL V	ANS		
4. REMARKS (Perturent information of	ot otherwise provided on the form. If	more space a required, as	er reserve side of this form.)
PRESIDENT MONRO	E V-102 P-43	40	
		_	
S. INFORMATION COPY TO (Name a	nd address, including ZIP Code.)	16. SIGNATURE AND	THE OF INITIATING OFFICIAL

MSCO PT322 GUAM	The state of the s
APLS	PERMINAND GONRALEZ CHIEF OCCA DIVISION
OCCA	17. CARRIER REPRESENTATIVE'S SIGNATURE Require when motite is included by unipper and managerisation charges are offected.)

NSN 7540-01-140-5524 -U.S.GPQ 1989-0-40-226 1200-101

STANDARD FORM 1200 (6-82 Prescribed by GSA, PPMR (41 CFR) :01-41

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SCATATION COMPANY	OT CBEBONET Y	2.	SCAC	2 2ATE 3/L	CSEASSO	4. ROUTE OF	POER/RELE	ASE NUMBE	9
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Military Traffic Management Command - WA. Dakland CA 94626

Van V # V013 SZ Totals:	Description 40 TERMS LP5 FOOD, CHILLED 40 TERMS LP5	Item	Wgt 13,800	Cube 663	Cost/Basis S 4,401.00
APLU 598689 V # V010 SZ Totals:	FOOD, CHILLED 40 TERMS LP5	1047	25352 25,352	1.057	4401.00 PC S 4,401.00
Totals:	FOOD, CHILLED 40 TERMS LPS		12,491	714	5 4.401.00
APLU 599022 V # V006 SZ Totals:	FOOD, CHILLED 40 TERMS LPS	1047	18270	795 795	4401.00 PC S 4.401.00
APLU 599130 V # V005 SZ Totals:	FOOD, CHILLED 40 TERMS LPS	1047	23446	1511	4401.00 PC S 4,401.00
GSTU 650114 V # V014 SZ Totals:	AUTOMOBILES 40 TERMS L12 BEVERAGES & WATER 40 TERMS R12	730	5500 5.500	730 730	3000.00 VE
APLS 700292 V # V018 SZ Totals:	BEVERAGES & WATER 40 TERMS K12	105	35504 35,504	918  918	1700.00 MW  S 1,700.00
APLU 701832 APLU 701832	BLOCKS, SRICKS, SLAS DRY GOODS ALTCRAFT PARTS ALTCRAFT AL	108 255 340 375 465 506 550 693	351 330 9 200 115 302 12 149 524 440 736 1876 	18 560 2 8 4 7 3 4 21 23 55 240 1,045	4377.00 PC
	DRY GOODS FURNITURE, NOS				
		210	221		

#### SUMMARY FREIGHT CHARGES OCEAN CARRIAGE AND ACCESSORIAL CHARGES

VAN	WGT	CUBE	OCEAN CHARGES	sz	U. S. WHARF CHARGES	GUAM WHARF RE CHARGES CH	
· • VESSEL 4340							
APLS 113953	35504	914	1700.00 HW		114.25	437.50	0
APLU 118303	750	1500	4125.00 C	40	187.50	437.50	C
ICSU 126803	37554	976	2200.00 ₩	40	75.11	437.50	0
ICSU 136283	38234	831	2200.00 W		76.47	437.50	0
ICSU 145895	6150	1126	3000.00 VS		50.00	437.50	0
APLS 146431	35504	913	1700.00 MW		114.75	437.50	0
APLS 158694	39942	1033	1700.00 MW		129.12	437.50	0
ICSU 172133	38214	1193	2200.00 W	40	76.43	437.50	0
APLU 173533	44380	1143	1886.15 MW 2200.00 W		143.50	437.50	0
ICSU 174791 APLU 279029	5850	1100	2190.00 PC		79.12	437.50	0
TRIU 426371	5950	780	3000.00 VE		50.00	437.50	o o
TRIU 426614	38425	946	2200.00 %	40	75.85	437.50	0
APLS 430364	39942	1033	1700.00 MW		129.12	437.50	o
A95U 501070	60000	2400	4401.00 PC		300.00	437.50	0
AFLU 524071	14625	569	4401.00 PC		71.12	437.50	3
APLU 530168	25900	796	4401.00 PC		99.50	437.50	3
APLU 591117	32312	1010	4401.00 PC		126.25	437.50	0
APLU 593483	31234	1573	4401.00 PC		195.52	437.50 C/	3 3 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
AFLU 598600	15755	829	4401.00 PC	40	103.52	437.50 C/	A 3
	13800	663	4401.00 PC	40	82.88	437.50 C/	à 3
	25352	1057	4401.00 PC	40	132.12	437, 50 C/.	λ 3
APLU 598880	12491	72.4	4481.00 PC	40	89.25	437.50 C/	λ 3
	18270	795	4401.00 PC	40	99.38	437.50 0/	A 3
	23445	1511		40	133.88	437.50 C/	A 3
	5500	730	3000.00 VE		50.00	437.50	0
	35504	913	1700.00 HW		114.75	437.50	9
AFLU 701832	2313	737	2048.51 C	40	98.38	437.50	0
- APLU 701832	2227	258	229.25 W	40	4.45	0.00	0
		1959	4377.00 PC		244.88	437.50	0
AF5U 703980 AF5U 703980	13236	1195	3553.14 C 67.84 W	40	149.38	0.00	0
		1943	5495.00 PC		243.50	437.50	ő
APLS 705287		1474	4569.40 C	40	184.25	437.50	ŏ
	5575	500		40	50.00	417.50	ō
	35504	913	1700.00 NW		114.75	437.50	ō
		1033	1700.00 MW		129.12	437.50	0
	13403	832	2218.15 C	40	104.00	437.50	0
APLU 802426	1921	56	170.67 W	40	3.84	0.00	0
APLS 802799			1218.52 C	40	52.75	437.50	0
			1738.15 W	40	74.13	0.00	9
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APLU 803021	11925	714	1567.86 C	40	89.25	0.00	0

# 7. 2 SUMMARY FREIGHT CHARGES OCEAN CARRIAGE AND ACCESSORIAL CHARGES

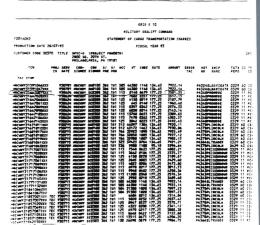
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3355	985331	39942	1033	2200.00 1700.00	MW	40	129.12	437.50		0
* Sub	cotal .									
		1535801	65549	168341.21			7372.46	24455.10		27
** To	tal									
		1535801	66649	168341.21			7372.46	24455.10		27

#### APPENDIX P

A AGENCY BUREAU OR SERVICE AND	LOCATION SHUMN OM	SUBVOUCHERS	BUR YOU. NO.
COMMUNDER :			
MILITARY SEALIFT COMMAND		-	SCHED. NO.
PACIFIC BLDG. 310-5. CODE	NR22 NSC		SCHEO. NO.
QAKLAND, CA. 94626-5000			
HE UNITED STATES, DR., TO: Perer ser end	midrem:	CARRIER'S BILL NUMBER	PAID BY
AMERICAN PRESIDENT LINES. I	ID.		
ATTN: GOVERNMENT BILLING DE	TT.	G4654T	
6162 SOUTH WILLOW DRIVE, ST	E#100	CARRIER'S SCAC NUMBER	
ENGLEWOOD, CO 80111		API S	
PAYABLE TO: 1111 BROADWAY		SERVICES FURNISHED Liberty and	
QAKLAND, CA 9	14607	T PREIGHT L PASSENGER	
De NOT bill GEL and GTE charges on th	s come form		services rendered
ALPHA PREFIX AND SERIAL NO. OF SUBVOUCHER	AMOUNT	as evidenced by att	ached subvouchers.
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MON/102		I certify that the account state	ERTIFICATE
		tached subvouchers, is correct	and wat that secures have to
QAK/GIJAM		rendered or tickets furnished as	and just, that services have to
440 0441		been received: and that the on	arges are not in excess of the
		applicable thereto under (1) tare	ng fawfully on life with any Fede
CONTROLLED ATMOSPHERE SERVICE		or State transportation regulator	
CONTROLLED PLEASURE SERVICE		charges established pursuant to	
		merce Act, as amended, or or ment, or exemption from regulate	
7 CONTAINERS @ \$950.00		ment, or exemplion from regulati	on.
7 CONTAINERS & \$400.00	9450.00		
7 CONTAINED & 2400.00	3430.00	217	AUGUST 11, 1993
		J. J	
		PAYER - AMERICAN PRESI	DENT LINES, LTD.
APT,U598483			1. 1. 01
APLU598600		era _LAURA_CARROLL '	THURE WHAT
APLU598658	-		Signature
APLU598689		GOVERNMENT BIT	TITNG DEPARTMENT
APLU598880			(Capenty)
APLU599022			
APLU599150		* When a voucher is signed in th	
		tion, the name of the person	enting the company or corpor
		name, as well as the capacity	in which the person signs, m
		appear. For example: "A.B.C. troller," or "Auditor," as the cas	Railway Co., per John Doe, C
		mone, or Additor, as the cas	
GBL# C-7,799,129		DIFFERENCES	AMOUNT
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TOTAL CLAIMED >	9450. 00	PAID BY CHECK NO. >	
	ACCOUNTING CL		
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MITED STATES, DR., TO: Papers were and	uldren)	CARRIER'S BILL NUMBER	PAID BY
AMERICAN PRESIDENT LINES, AITN: COVERNMENT BILLING D 6162 SOUTH WILLOW DRIVE, S ENGLESCOD, CO 80111 PAYABLE TO: 1111 BROADMAY GAKLAND, CA	EPT. TE#100 94607	C4634  CARRIER'S SCAC MUMBER  APLS  SERVICES FURNISHEDICUMS INFO  LI PRESENT LI PASSENGER	
De NOT bill GEL and GTR charges on H	AMOUNT	For payment of	services rendered ttached subvouchers.
MEN/102 CAS/GIAM B/L# 070027444 P.O.D. P.O.E.	200,557 94 11,431 00 4,000 00	PAYEE'S I LONG THAT THE METERS ARE ARE THE METERS ARE ARE THE METERS ARE	CERTIFICATE  If hereon, as evidenced by the and just: that services have be as indicated; that payment has in harger are not in access of this in payment has in harger are not in access of this in payment has in harger are not in access of this in payment has harger are not access  Augment 5, 1993  Augment 5, 1993
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MILITARY SEALIST COMMAND
STATEMENT OF CARGO TRAMEPORTATION CHARGES
#ISCAL TEAR 93

FORCETION CATE 28/07/93

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PATROCKT AL CARGO TRANSPORTATION CHARGES

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