# What Do AOEs Do When They Are Deployed?

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# What Do AOEs Do When They Are Deployed?

The Navy has twelve aircraft carriers and eight fast combat support ships (AOEs) that were built to act as carrier battle group (CVBG) station ships. The multi-product AOE serves as a "warehouse" for fuel, ammunition, spare parts, provisions, and stores to other CVBG ships, especially the carrier. Currently, an AOE deploys with about four out of every five CVBGs on peacetime forward deployments. Prior to 1996, when there were only four AOEs, only two of every five CVBGs deployed with an AOE. That frequency could resume in the latter part of this decade when AOE-1 class ships are retired at the end of their 35-year service life.

The combat logistics force (CLF) that supports forward deployed combatant ships consists of CVBG station ships and shuttle ships (oilers, ammunition ships, and combat stores ships) that resupply the station ships and the combatants as well. Ammunition ships are not routinely forward deployed, except as CVBG station ships, because of the low demand for ordnance during peacetime.

To better understand the utility of AOEs in peacetime, we wanted to learn how much business they do as CVBG station ships and who their customers are during forward deployment. To that end, in 1996 we asked the Navy to have deploying AOEs record their underway replenishment (UNREP) data and send them to the Center for Naval Analyses (CNA). We supplemented those data with similar AOE and substitute CVBG station ship data we had received from the fleet for 1994. This report documents the UNREP activity of the AOEs (and substitute CVBG station ships) when they are deployed. It does NOT reflect the total logistics support Navy combatants receive from all sources during their forward deployments.

# AOE UNREPs During an Average Deployment:

- FAS (fueling at sea)
  - DFM:  $101 \pm 35$  FASs,  $13 \pm 6$  million gallons
  - JP-5: 71  $\pm$  21 FASs, 8  $\pm$  2 million gallons
- RAS (replenishment at sea)
  - $-56 \pm 32$  RASs and  $1485 \pm 954$  pallets of dry goods
  - $-24 \pm 7$  RASs and 914  $\pm 587$  pallets of ammunition

Note: Numbers listed as average ± one standard deviation

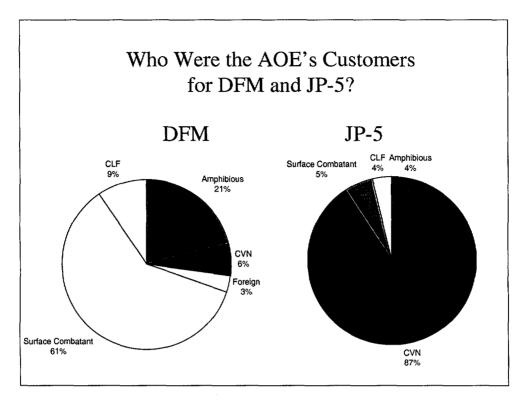
Before we present the analysis of individual AOEs and how they delivered fuel and goods to customers, we show aggregated data that give a "feel" for how much business AOEs did with their customers.

We decided to aggregate AOE UNREP data from nuclear aircraft carrier (CVN) battle groups. Most aircraft carriers are nuclear powered, thus these data (pages 2 – 4) give a good estimation for who the AOEs' customers currently are. The Navy's four fossil fuel powered aircraft carriers (CVs) will be decommissioned in the foreseeable future, thus we felt that the data from these battle groups have less significance. Nevertheless, we included data from AOEs deployed with CV battle groups in this study for completeness (pages 39 and 40).

On average, AOEs delivered about 13 million gallons of diesel fuel marine (DFM) and 8 million gallons of aviation fuel (JP-5) to their customers during a typical 6-month deployment. They refueled about 116 ships, with the majority of the refuelings for DFM.

During peacetime, AOEs replenish their customers with dry goods (frozen food, vegetables, consumables, aircraft engines, etc.) and limited amounts of ammunition. The average AOE delivered 1,485 pallets of dry cargo and 914 pallets of ammunition during its deployment.

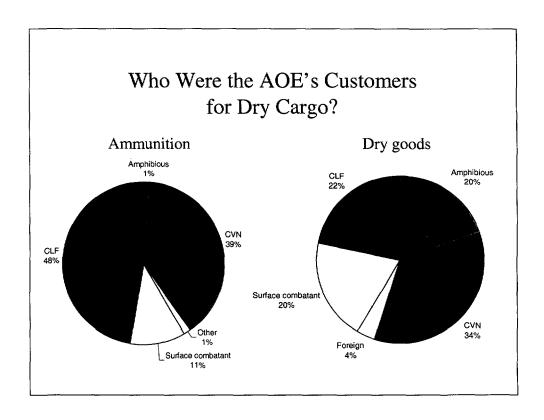
It's important to note the significant range of the average values. In most cases, the range represents 25 to 75 percent of the average value. These large deviations are due to the variability of the AOEs' business. For example, AOE 7 transferred 30 million gallons of DFM fuel while AOE 2 delivered only 16 million gallons. When numbers of these magnitudes are averaged, large variances are generated. The average quantities should be interpreted as "order of magnitude" numbers, not exact numbers.



In this and the next graph, we show what percentage of fuel, dry goods, and ammunition AOEs deployed with CVN battle groups delivered to each category of their customers. We calculated percentages by adding all items (either fuel, dry goods, or ammunition) within a ship type and dividing this number by the total number of items transferred by the AOEs.

AOEs transferred over 60 percent of their DFM to surface combatants and CVNs.

The majority of the AOEs' JP-5 deliveries were to aircraft carriers.



We used the same procedure described on page 3 for calculating the percentage of dry cargo, which is composed of dry goods and ammunition, that was transferred to the AOE's customers.

The AOE delivered the bulk of its ammunition transfers to CVNs and to other CLF ships. In calculating the percentage of ammunition transferred to customers, we removed the effect of ammunition offloaded by AOEs to CLF ships at the end of their deployment. These ammunition offloads are discussed later in this paper.

AOEs transferred over 50 percent of their dry goods to surface combatants and CVNs. Amphibious and other CLF ships received roughly the same number of dry goods pallets.

### Summary of Results

### Deployed AOEs:

- UNREP mostly surface combatants
- Carriers are next most frequent customers
- Conduct many FASs, some RASs
- Use VERTREPs for most cargo transfers
- Seldom conduct night UNREPS

Question: Is peacetime practice consistent with wartime intentions?

This slide summarizes what we learned from our analysis of AOE data.

Most forward deployed USN ships are surface combatants. Hence, we weren't surprised that most of the ships that AOEs refueled and replenished underway were surface combatants. The next most frequent customer was aircraft carriers, followed by CLF shuttle ships and amphibious ships.

Fueling at sea (FAS) was the most common AOE UNREP event. The dominant customer in frequency and quantity for JP-5 was the carrier, whereas the surface combatant was the principal customer for DFM, with amphibious ships close behind.

FAS events are connected replenishments (CONREPs). Although AOEs conducted replenishment at sea (RAS) to deliver some dry cargo (e.g., dry goods and ammunition) by CONREP, that mostly happened in conjunction with a FAS. Otherwise, dry cargo was usually transferred to the customer by helicopters in vertical replenishment (VERTREP).

Forward deployed ships conduct very few UNREPs at night during peacetime. In fact, of the UNREP events for which the time of day was reported, less than 12 percent of them were at night (which we defined between 2000 and 0400).

Because the Navy espouses training as it intends to fight, we recommend that the fleet affirm to its own satisfaction that it plans to conduct UNREPs during wartime as it is presently practicing in peacetime: during daylight and using VERTREP almost exclusively for deliveries of dry cargo.

### Outline

- Introduction
- Fuel analysis
- Dry cargo analysis
- Conclusions
- Recommendations

The first few pages of this report provide an introduction on carrier battle group composition, the battle group station ships whose data we used, and how ships are refueled and resupplied at sea.

That is followed by highlights of the fuel and dry cargo transfers they performed.

Then, we present the conclusions and recommendations that we derived from our analysis.

In an appendix, we include some additional details on the analyses. We've also included a couple of pages commenting on the UNREP data we had to work with, which limited the extent of our analysis to a degree.

## Deployed CVBGs Consist of:

- One CV or CVN
- Four to seven surface combatants (CG, DDG, DD, FFG)
- One AOE (or substitute station ships)
- Two direct support SSNs

This slide shows the composition of the typical carrier battle group that forward deployed from the continental U.S. (CONUS) in 1994 and 1996–1997, the periods for which UNREP data were provided to us by the fleet.

Atlantic Fleet ("LANT") CVBGs deployed with six surface combatants (and once with seven surface combatants), while Pacific Fleet ("PAC") battle groups included only four surface combatants.

All four AOE-1 class and the first three AOE-6 class fast combat support ships deployed as CVBG station ships during the periods for which we have data. Three LANT CVBGs conducted forward deployment with substitute station ships, as did one PAC CVBG. The CVBG station ships for which we have data are shown on the next slide.

Each deploying CVBG included two direct support nuclear submarines. However, they didn't receive resupply from the station ship underway and are not included as customers during the rest of this document.

The traditional overseas areas where carrier battle groups continually deploy are the Western Pacific (WestPac), SouthWest Asia (the Central Command (CentCom) area of responsibility), and the Mediterranean. CentCom is the only common area for both LANT and PAC CVBGs, but LANT CVBGs spend much less of their 6-month deployments there than do their PAC counterparts.

### The UNREP Database

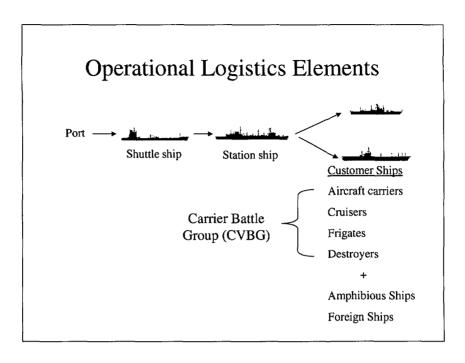
- 1994 deployed CVBG station ship data
  - LANT: AO 178/AE 34; AOR 6/AE 28; AOE 4
  - PAC: AOE 2; AOR 7/AE 32
- 1996-97 deployed CVBG station ship data
  - LANT: AO 179/AE 34; AOE 3; AOE 4;AOE 6; AOE 8
  - PAC: AOE 1; AOE 2; AOE 7

In 1994 CNA acquired UNREP data from a number of CLF ships (including a number of CVBG station ships) in connection with another project. In 1996 we asked the AOEs' unit commanders, Commander Combat Logistics Group Two (COMLOGGRU TWO) and Commander, Naval Surface Group Pacific Northwest (COMNAVSURFGRU PAC NW), to have their ships record UNREP data during their forward deployments and to send that data to CNA.

This slide shows the CVBG station ships for which UNREP data was sent to CNA. However, the 1994 data, while quite complete for refueling events, was incomplete in that dry cargo delivered was not identified by type (ammunition, provisions, stores). Consequently, we included the 1994 data in our analysis of fuel deliveries but could not use it in analyzing dry cargo deliveries.

The Navy's principal CVBG station ship is the fast combat support ship (AOE), but an oiler and an ammunition ship can provide a logistics capacity that is roughly equivalent to an AOE. Periodically, such a pair deploys as a substitute station ship. For simplicity, throughout the remainder of the report, we apply the term "AOE" also to substitute CVBG station ships, when they are operating as CVBG station ships.

The composition of the 1994, 1996 and 1997 CVBGs with which AOEs deployed is shown in the appendix on page 34.



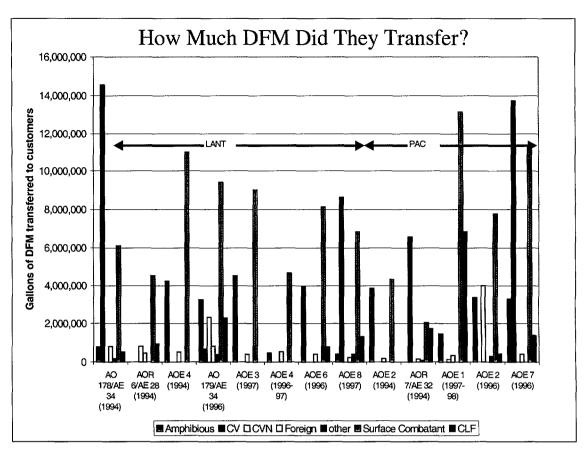
This chart shows elements of the Navy's operational logistics system.

Initially, commercial merchant ships transport supplies from CONUS ports to forward bases in the overseas theaters where the Navy operates. Within the theater, the above picture shows the traditional operational logistics concept of operations (CONOPS), by which fuel and provisions reach the customers.

Though the picture depicts the CLF shuttle ship delivering its products only to the AOE, in actuality it also makes deliveries directly to combatants. When the CLF shuttle ship depletes its resupply material, it returns to a forward base where the cycle is repeated.

In this study, we focused on the role of the AOE during forward deployment in peacetime.

The UNREP data that follow show that the amount of product the AOE delivered to its customer varied from deployment to deployment. There are a number of possible reasons for this fluctuation in demand on the AOEs. As noted above, CLF shuttle ships deliver resupply products directly to combatant ships as well as to the CVBG station ships; extensive use of shuttle ships to refuel and replenish combatants will reduce their dependence on the station ships. Combatants' demand for fuel and provisions depends in part on the operational tempo; if the combatants are not required to conduct strenuous operations at sea while deployed, or have frequent or extended port visits, they may not require as many refuelings and replenishments.



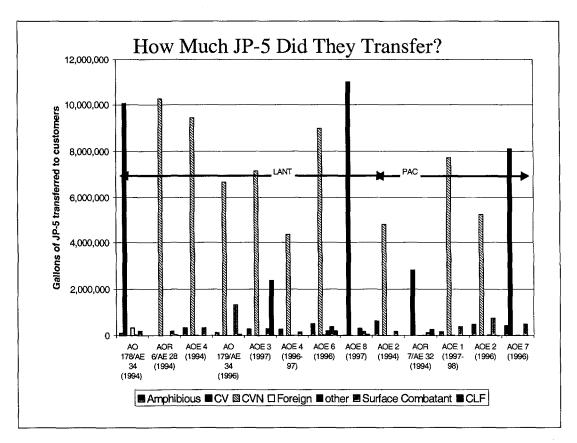
In the next several pages, we show the analysis of the AOEs distribution of DFM and JP-5 fuel to its customers. One of the most important commodities of non-nuclear naval vessels is DFM. This type of fuel is burned in ships' propulsion plants and generators to provide propulsion and electrical power. Likewise, the equivalent fuel for aircraft is JP-5.

This chart shows how much DFM each deployed CVBG AOE transferred to other ships, by type. AOEs were grouped into either Atlantic (LANT) or Pacific (PAC) depending on their parent fleet.

AOEs in non-nuclear CVBGs transferred more DFM to carriers than to surface combatants. In nuclear carrier battle groups, the AOE's main customers for DFM were surface combatants (in six such deployments no DFM was transferred to the CVN). However, you will see DFM transfers by AO 179/AE 34 and by AOE 2 to CVNs. This is unusual because CVNs' nuclear reactors provide their electrical power and propulsion. One possible reason for these DFM transfers is that the CVNs depleted their DFM cargo fuel by refueling their CVBG's surface combatants.

Another CLF customer that requires DFM is the amphibious ship. Several AOEs transferred up to 4 million gallons of DFM to amphibious ships (mainly LPDs and LSDs) during their deployments.

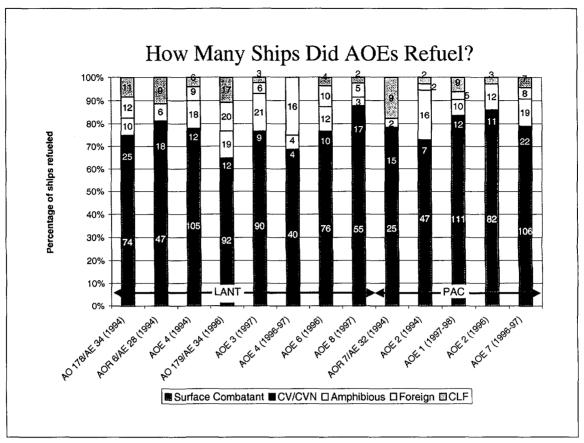
<u>Note:</u> In data sets that had less than 6 months' worth of data, we multiplied the amount of fuel or dry goods by a correction factor to produce an amount "equivalent" to a 6-month deployment. These correction factors are listed in the appendix on page 38.



Aircraft carriers are the principal capital ships the United States uses to project its military power throughout the world. Carriers carry as many as 80 aircraft. They enable the U.S. to conduct air operations overseas without the need for shore bases. To maintain this freedom of action and to conduct a high tempo of operations during peacetime and combat operations, they must be able to refuel their aircraft whenever required.

The CVBG AOE resupplies the carrier with aviation fuel, JP-5. Deployed AOEs transferred several million gallons of JP-5 fuel to CVs and CVNs mainly, but not exclusively, to their parent carrier. Secondary customers for JP-5 were surface combatants and amphibious ships, which operate and refuel helicopters and vertical takeoff aircraft.

The above chart depicts the amount of JP-5 each AOE delivered to its customers during the course of its deployment. (We have used the same correction factor approach, as described on the previous page, to account for incomplete data.)



This graph depicts the number of FAS events each AOE conducted while deployed and the percentages of the total FASs for each ship type or category.

Each AOE refueled different types of customer ships during its 6-month deployment. Its primary customer for fuel was the surface combatant. This isn't surprising because each carrier battle group contains from four to six surface combatants, and other surface combatants are deployed to forward theaters; therefore, there are more surface combatants as potential customer ships than any other type of ship.

One interesting feature in the above graph is the number of foreign ships (shown in light blue) that AOEs refueled at sea. It's not commonly known that the U.S. Navy has international agreements with other navies to enable NATO and other friendly ships to refuel from oilers of another allied nation. The least number of foreign ships that an AOE refueled was 0 (AOE 2 in 1996) and the most was 20 (AO 179/AE 34). They were almost exclusively surface combatants.

### When Did AOEs Refuel Their Customers?

	Number of FAS events	Total time	Percentage of
Station Ship	between 2000 and 0400 hours	events	events at night
AO 179/AE 34 (1996)	6	153	3.9
AOE 1 (1997-98)	N/A	N/A	N/A
AOE 2 (1996)	N/A	N/A	N/A
AOE 3 (1997)	4	42	9.5
AOE 4 (1996-97)	0	32	0.0
AOE 6 (1996)	7	117	6.0
AOE 7 (1996-97)	15	162	9.3
AOE 8 (1997)	7	86	8.1

Notes: N/A = no time data provided for analysis

No time data was reported by 1994 station ships

How many ships did the AOEs refuel at night, which we defined as between the hours of 2000 and 0400? This table shows the results.

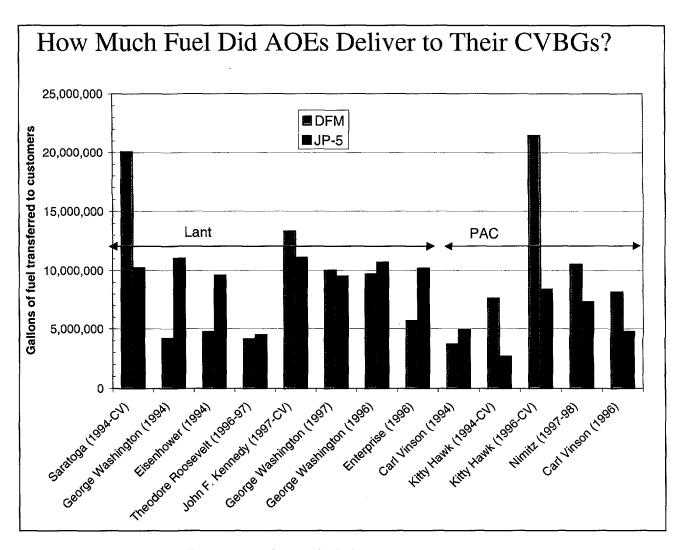
Several AOEs that provided UNREP data reported the time they started and the time they completed each UNREP, which we used in constructing the above table of refuelings. All of the ships that reported start-stop times conducted less than 10 percent of their FASs at night.

We also looked at UNREP events that either:

- began before 2000 and ended after 2000
- began before 0400 and ended after 0400.

When we added all these events, we found the percentage of night time FAS events increased by no more than 5 percent. In the case of AOE 7, the percentage of night time FASs increased from 9 percent to 17 percent.

AOEs 1 and 2 didn't report start and stop times of their UNREPs, so we weren't able to determine what proportion of their FASs were conducted at night.



We wanted to learn how much of the AOE's business was to the ships of its own battle group, since its primary mission is to refuel and replenish ships within a carrier battle group.

To calculate the amount of fuel the AOEs transferred to their battle group ships, we added all the fuel each AOE delivered to ships of its own battle group. The sum of all DFM and JP-5 fuel transferred to the CVBG's ships was used to produce the above bar graph.

The 1996 Kitty Hawk and Saratoga CVBGs received more DFM than any other battle group. The amount of JP-5 that battle group ships received ranged from 5 to 10 million gallons. A few battle groups, such as the 1996 Carl Vinson, 1994 Kitty Hawk, and the Theodore Roosevelt CVBGs, received less than the average amount of JP-5 per deployment.

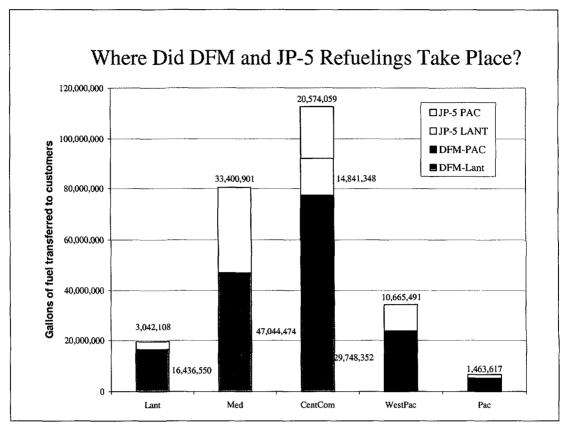
**Note:** Fossil-fuel powered carrier battle groups in the above chart are denoted with a "CV" extension of the battle group name. All other battle groups contain CVNs.

	Station	Number of CV/CVN	Percentage of CV/CVN
	Ships	FAS within own CVBG	FAS within own CVBG
<b>♠</b>	AO 178/AE 34 (1994)	20	100
	AOR 6/AE 28 (1994)	12	100
	AOE 4 (1994)	3	100
LANT	AO 179/AE 34 (1996)	11	92
LANI	AOE 3 (1997)	3	100
ŀ	AOE 4 (1996-97)	2	100
	AOE 6 (1996)	9	90
*	AOE 8 (1997)	17	100
<b>♦</b>	AOR 7/AE 32 (1994)	15	100
	AOE 2 (1994)	6	100
PAC	AOE 1 (1997-98)	12	83
	AOE 2 (1996)	9	82
★	AOE 7 (1996-97)	22	96
	Station	Number of Surface Combatants	Percent of Surface Combatant
	Ships	FAS within own CVBG	FAS within own CVBG
<b>A</b>	AO 178/AE 34 (1994)	45	90
	AOR 6/AE 28 (1994)	19	70
	AOE 4 (1994)	22	65
LANT	AO 179/AE 34 (1996)	70	76
LANI	AOE 3 (1997)	28	93
ĺ	AOE 4 (1996-97)	17	85
	AOE 6 (1996)	52	68
. ↓	AOE 8 (1997)	47	85
X	AOR 7/AE 32 (1994)	10	42
T	AOE 2 (1994)	32	91
PAC	AOE 1 (1997-98)	87	78
IAC	AOE 2 (1996)	42	51
			69

How many of each AOE's FAS events were for ships of its own battle group? This table displays the number of such events and the percentage of all FASs the AOE conducted during the deployment.

Over 90 percent of the aircraft carriers that an AOE refueled were from its own CVBG. AOE 2 was the one exception, having refueled two carriers from another CVBG during its deployment.

There was a much wider variation in refueling surface combatants. As few as 42 percent and as high as 93 percent of the surface combatants the AOE refueled were from its own battle group.

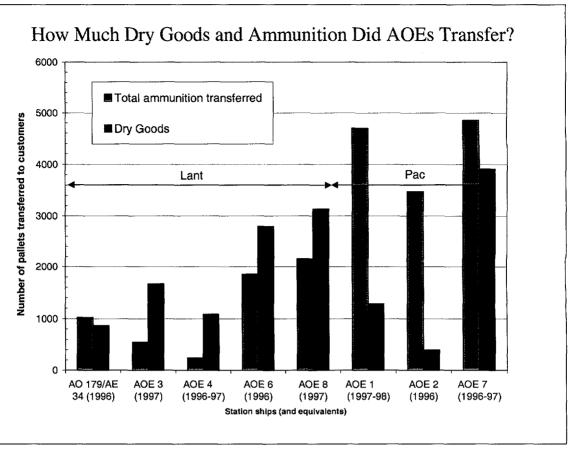


During the course of an AOE's deployment, it distributes fuel and materials to customers en route to, from, and in its forward deployed region. This graph shows where the AOEs transferred fuel, ammunition, and dry cargo. We aggregated all the data from the AOEs, similar to the way described earlier in this paper.

We omitted data from AOE 4 (1994), AOE 3 (1996), AOE 4 (1996-97) because of the limited amount of UNREP data we have from these ships. For AOEs with 4 to 5 months of data (AOR6/AE 28, AO 178/AE34 and AOE 2), we multiplied the regional total by a correction factor (see page 36 in the appendix) to generate a sum of an "equivalent" 6-month deployment.

The above graph shows the quantity of DFM and JP-5 LANT and PAC AOEs transferred in each region. They distributed most of their DFM and JP-5 in their respective forward deployed regions: the Med (for LANT) and CentCom (for PAC).

Secondary distribution of DFM and JP-5 fuel for PAC AOEs took place in WestPac, while LANT AOEs distributed fuel in CentCom. Even though LANT AOEs don't deploy to CentCom for extended periods, they transferred large quantities of both DFM and JP-5 to customers in that region.



We have now shown how AOEs distribute DFM and JP-5 to their customers. We have shown who their customers were and where the fuel was distributed. In the next part of the analysis, we describe how AOEs distribute dry cargo.

AOEs transfer a variety of dry goods and ammunition to customers. For example, AOEs have the capability of transporting soda pallets, frozen foods, and ammunition because of their multi-product transport capability. For the sake of simplicity, we aggregated all non-ammunition-based cargo into a single category called dry goods. Ammunition is kept as a separate category.

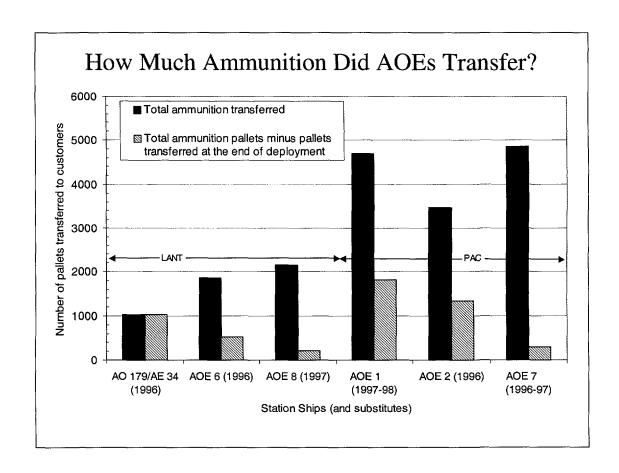
How much dry cargo did the AOE transfer to its customers? This graph shows the number of dry goods and ammunition pallets each AOE transferred to its customers.

An interesting feature of this graph is the amount of ammunition PAC AOEs transferred during their deployments. They transferred almost three times as (continued)

## How Much Dry Goods and Ammunition Did AOEs Transfer? (continued)

much ammunition as their LANT counterparts. Why so much during peacetime? Closer examination showed that some AOEs sent most of their ammunition transfers to other ammunition ships, not to combatants, and did so towards the end of their deployment. We think that this was cross-decking ammunition to an incoming CVBG AOE and/or offloading ordnance before returning to homeport. The table below lists the number of ammunition pallets AOEs transferred to ammunition ships, along with the transfer dates and the date the CVBG returned to CONUS.

AOE	Total pallets transferred	Pallets transferred to ammo ships	Ammunition ship	Transfer dates	CONUS return date
(P) AOE 2	3474	2137	TAE 26	10/24/96,10/25/96 11/4/96	11/14/96
(L) AOE 6	1851	1320	AE 28	12/15/96-12/16/96	12/23/96
(P) AOE 7	4854	4560	AE 32/AE33	4/3/97-4/7/97	4/11/97
(L) AOE 8	2155	1939	AE 28, AOE 6	10/20/97-10/24/97	11/28/97
(P) AOE 1	4690	2884	AE 32	2/22/98	3/1/98

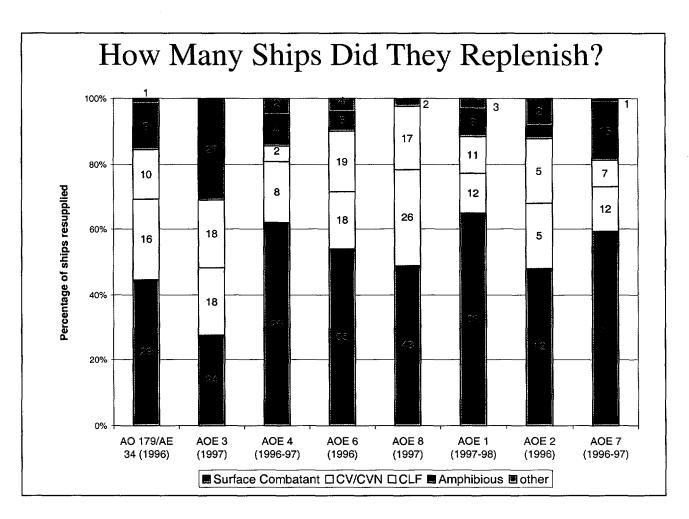


As shown on the previous page, most of the ammunition delivered by AOEs went to other CLF ships towards the end of their deployments.

In this graph, we compare the total number of ammunition pallets transferred by AOEs to the number of pallets transferred by AOEs *minus* the number of pallets offloaded at the end of their deployments.

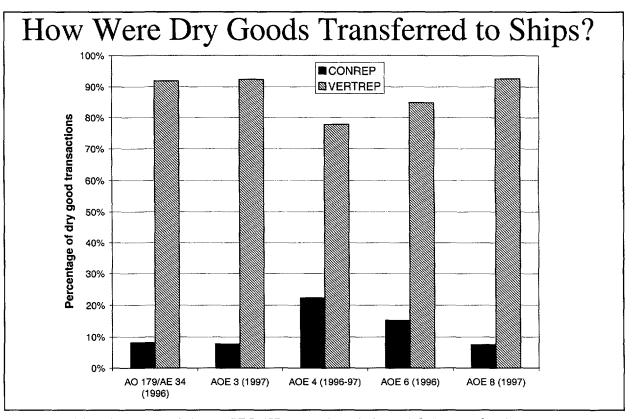
We noticed that several PAC AOEs delivered ordnance to TAE 26 while they were deployed. We surmise that this was redistributing PAC ammunition within the Pacific area of responsibility because TAE 26 is used periodically for that task.

<u>Note:</u> We did not include AOE 3 and AOE 4 in this part of the analysis because we had data only from the middle of their deployments.



We analyzed the number of RAS events each AOE performed with its combatant customers and with other CLF ships. AOEs replenish surface combatants more often than any other type of ship. We expected this because surface combatants are the most common type of ship found in forward theaters.

In most cases, aircraft carriers are the next most frequently replenished ships. Interestingly, AOEs analyzed in this study did not replenish many foreign ships during their 6-month deployments. Only two events were recorded in which AOEs gave supplies for foreign ships. Even though the U.S. Navy has international agreements with other countries to refuel foreign ships, the AOEs analyzed in this study transferred very few pallets of dry cargo to foreign ships.



One critical issue pertaining to UNREP operations is how AOEs transfer dry cargo (provisions/stores and ammunition) to customers. There are two methods for transferring material between ships:

- Connected replenishment (CONREP): Cargo rigs strung between two ships moving at slow and equal speeds. Used to transfer heavy loads. This method is always used to transfer fuel.
- Vertical replenishment (VERTREP): Uses helicopters to transfer light, bulky loads between two ships.

We analyzed CONREP and VERTREP data from AO 179/AE 34, AOE 3, AOE 4, AOE 6, and AOE 8 because they listed which mode they used for both cargo and fuel transactions. Other AOEs didn't report how they transferred dry cargo to their customers, so they were excluded from this portion of the analysis.

In this graph, we show the percentage of CONREP and VERTREP used to transfer cargo. When AOEs transfer only cargo, VERTREP is the preferred method. When fuel and cargo are both transferred at about the same time, we got the opposite answer; in <u>all</u> cases (100 percent), if ships were already connected for refueling, the AOE used CONREP to transfer cargo to the customer.

# When Did They Replenish Their Customers?

	Number of RAS events	Total	Percentage of
AOE	at night	RAS	night RAS
AO 179/AE 34 (1996)	2	51	4
AOE 1 (1997-98)	N/A	N/A	N/A_
AOE 2 (1996)	N/A	N/A	N/A
AOE 3 (1997)	0	29	0
AOE 4 (1996-97)	0	21	00
AOE 6 (1996)	2	102	2
AOE 7 (1996-97)	10	82	12
AOE 8 (1997)	7	88	8

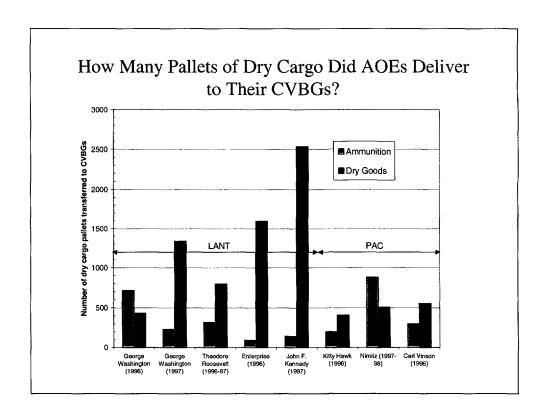
We looked at each RAS event to determine what time of the day it took place. This table shows the results.

Most RASs occurred during daylight hours (between 0400 and 2000). Two AOEs (AOEs 1 and 2) did not record the times of the RASs they conducted. Of the remainder, five of them conducted less than 10 percent of their RASs at night. One, AOE 7, performed 12 percent of its RASs at night. These results are similar to the FAS results shown earlier in the paper.

As described in the FAS results, we also looked at RAS events that either:

- began in daytime and ended at night
- began at night and ended in daytime.

When we add these events to the number of night time RAS events, we found the percentage of night time RAS events increased by no more than 6 percent. In the case of AOE 7, the percentage of night time RASs increased from 12 percent to 28 percent.



In general, most AOEs transferred less than 1,000 pallets of provisions and stores to their battle group ships. Exceptions were the 1997 *George Washington*, the *Enterprise*, and the *John F. Kennedy* CVBGs that received more than 1,000 pallets from their AOEs.

Most of the battle groups received small numbers of ammunition pallets, except for the 1996 *George Washington* and *Nimitz* battle groups that received 700 to 900 pallets.

## Percentage of AOE RASs to Own CVBG Combatants

	Number of	Percent of	Number of	Percent of all	RASs of own	RAS Percent of all
AOEs	own CV RASs	all CV RASs	own CVN RASs	CVN RASs	Surface Combatants	Surface Combatants
AO 179/AE 34 (1996)			16	100	19	66
AOE 1 (1997-98)		-	10	83	44	70
AOE 2 (1996)	-	•	5	100	5	42
AOE 3 (1997)	-		6	100	8	88
AOE 4 (1996-97)		-	4	100	10	77
AOE 6 (1996)	-	-	15	83	35	64
AOE 7 (1996-97)	12	100	-	<u>.</u>	28	53
AOE 8 (1997)	26	100			34	79

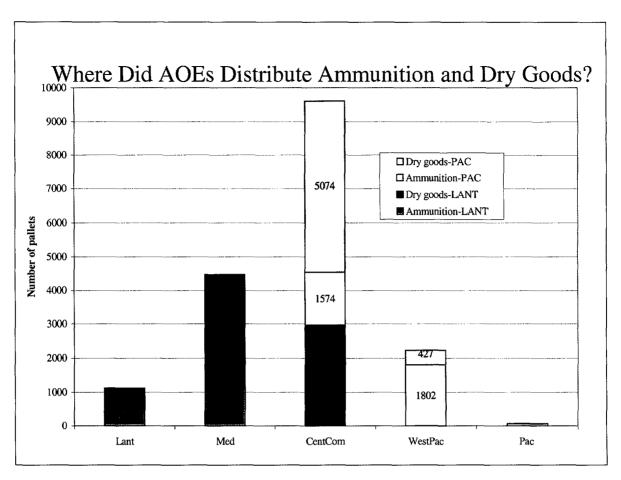
#### Parent Fleet

Atlantic Fleet = AO 179/AE 34, and AOEs 3, 4, 6, and 8

Pacific Fleet = AOEs 1, 2, and 7

In this table, we calculated the number and percentage of RASs that AOEs performed to their battle group's carrier and surface combatants. When the AOE replenished aircraft carriers, over 80 percent of these RASs were to its own carrier.

In the case of surface combatants, 40 to 90 pecent of all the AOEs' RASs were to ships of their CVBGs. This range is very different when compared to the aircraft carrier. The lower percentages were due to the AOE having replenished surface combatants assigned either to a surface action group operating in the region or to another CVBG.



Where did the AOEs distribute dry cargo? This chart shows the number of dry cargo pallets distributed by AOEs, as a function of region, for both LANT and PAC AOEs.

LANT AOEs distributed most of their dry goods and ammunition in the Med. PAC AOEs distributed the majority of their dry cargo in CentCom. One major difference between LANT and PAC fleet AOEs is in ammunition distribution. PAC AOEs distributed more ammunition in WestPac than in the CentCom.

<u>Note:</u> In generating the ammunition data for this plot, we removed the ammunition offloaded to CLF ships from the regional data. This gives a true sense of where the customers receive their ammunition during peacetime deployments. The data from three PAC (AOE 1, AOE 2, and AOE 7) and three LANT AOEs (AE 34/AO 179, AOE 6, AOE 7) were used to generate this graph.

# Who Did the AOEs UNREP From Their Own Battle Group?

		% own CVs	% own CVNs	
Lant	AOEs	UNREPed	UNREPed	Combnt. UNREPed
<b>A</b>	AO 179/AE 34 (1996)	N/A	100	73
	AOE 3 (1997)	N/A	100	90
	AOE 4 (1996-97)	N/A	100	82
	AOE 6 (1996)	N/A	84	62
	AOE 8 (1997)	100	N/A	82
Ă	AOE 1 (1997-98)	N/A	76	72
	AOE 2 (1996)	N/A	81	58
	AOE 7 (1996-97)	100	N/A	69
Pac				

This slide is a composite of data shown on pages 15 and 24, showing what percentage of the AOE's UNREPs was to ships of its own battle group.

More than three quarters of carrier UNREPs were to its own carrier.

There is a much wider variation in the UNREP percentage for surface combatants. Sixty to ninety percent of the surface combatants an AOE replenished were ships of its own CVBG.

### **UNREP Totals**

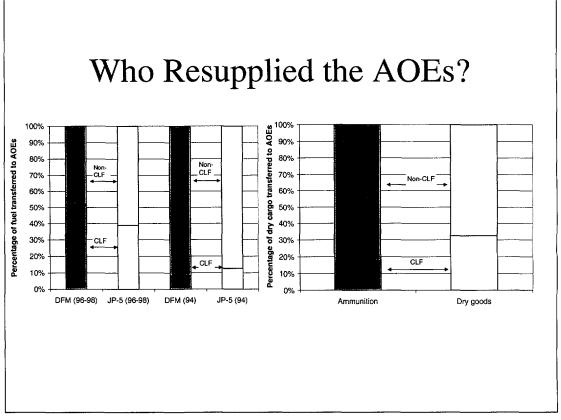
		Number of	Number of	Total number
	AOEs	FAS_	RAS	of UNREPS
<b>A</b>	AO 178/AE 34 (1994)	132	N/A	132
	AOR 6/AE 28 (1994)	80	N/A	80
	AOE 4 (1994)	150	N/A	150
Tant	AO 179/AE 34 (1996)	160	65	225
Lant	AOE 3 (1997)	129_	87	216
	AOE 4 (1996-97)	64	42	106
	AOE 6 (1996)	109	102	211
•	AOE 8 (1997)	84	88	172
<b>▲</b>	AOR 7/AE 32 (1994)	51	N/A	51
	AOE 2 (1994)	74	N/A	74
Pac [	AOE 1 (1997-98)	142	98	240
1	AOE 2 (1996)	113	25	138
•	AOE 7 (1996-97)	117	87	204

N/A = No RAS data available for ships deployed in 1994.

This table gives the total number of UNREPs conducted by AOEs deployed in 1994 and in 1996 to 1998. The FASs and RASs are added to get the total number of UNREPS.

The total number of UNREPs ranges from 106 (AOE 4) to 240 (AOE 1). AOE 1 performed 240 UNREPS, the most of any AOE analyzed in this study.

We did not have any 1994 RAS data, so these totals were not included in the UNREP totals.



All the foregoing discussion has been about the resupply support AOEs provided their customers. But the "rest of the story" is about how AOEs replenished their resupply products, so that they could continue to carry out their mission. In the bar graphs above, we show where AOEs obtained cargo fuel and dry cargo. We grouped the sources of resupply products into two categories:

- CLF These were oilers (AO and TAO), combat stores ships (TAFS), and ammunition ships (AE and TAE) that resupplied the AOEs at sea.
- Non-CLF These were overseas ports such as Jebel Ali, Bahrain, Fujairah, and Yokosuka, where the AOEs reloaded in port.<sup>1</sup>

The AOEs that were deployed in 1994 received most of their DFM and JP-5 from non-CLF sources. Those deployed in 1996-98 received approximately the same amount of DFM from both sources and 60 percent of JP-5 from non-CLF sources. Similarly, AOEs received the majority of their dry cargo in 1996-98 from non-CLF sources. (We didn't have dry cargo data on the 1994 AOE deployments.)

<sup>&</sup>lt;sup>1</sup>We also included in this category aircraft carriers, which transferred some ammunition (ordnance) to the AOEs early in their deployments, and several surface combatants that transferred single pallets of ammunition to AOEs. These transfers from carriers and other combatants were not really resupply events in the true sense.

### Receipts Aren't Equal to Deliveries

	DFM			JP-5		
	Deliveries	Receipts	Percent	Deliveries	Receipts	Percent
AOEs	(gallons)	(gallons)	Difference	(gallons)	(gallons)	Difference
AE 34/AO 179	19,191,826	340,000	-98	8,204,202	0	-100
AOE 1	21,979,257	14,610,589	-34	8,300,552	6,408,939	-23
AOE 2	15,915,375	8,040,724	-49	6,534,057	5,526,551	-15
AOE 3	13,973,703	0	-100	3,376,728	0	-100
AOE 4	5,708,000	8,102,000	42	2,403,000	4,670,000	94
AOE 6	13,299,100	1,295,100	-90	10,302,700	1,208,000	-88
AOE 7	30,171,657	13,453,969	-55	9,044,778	3,331,338	-63
AOE 8	17,863,000	13,953,000	-22	11,566,400	9,478,000	-18

Another issue we explored was the flow of commodities to and from the AOE. In an ideal world, the AOE receives as much product as it distributes. When we examined the data closely, we found that the amount of product the AOE distributed did not at all equal the amount it received from all sources during its deployment. This is shown for fuel in the above chart. The disparity between receipts and deliveries of dry cargo was even greater. We are confident that our data concerning deliveries the AOEs made during their deployments are complete, except where previously noted. Hence, we believe the discrepancy between receipts and transfers is due to the AOEs having failed to include, in the data we received, one or more receipts during its deployment.<sup>1</sup>

While we didn't know how much product the AOE had when it began and ended its deployment, the disparity between total deliveries and total receipts was far greater than could be explained by having the start and ending inventory.

<sup>&</sup>lt;sup>1</sup>We experienced a similar lack of receipts data in the operations of combat stores ships that is documented in CNA Annotated Briefing D0000670.A1 that will be published shortly.

### Conclusions

#### AOEs mainly:

- Refuel and replenish surface combatants
- Conduct FAS as compared to RAS
- Use VERTREP for dry goods and ammunition
- Perform UNREP during the daytime (0400-2000)

We learned several things about AOEs from this analysis.

Most of the AOEs' customers are surface combatants. This is really not surprising because most of the ships in a battle group are surface combatants. Other frequent AOE customers are the aircraft carrier, CLF shuttle ships, and amphibious ships.

AOEs refuel customers more often than they replenish them. The dominant customer for DFM and JP-5 are the surface combatant and aircraft carrier, respectively.

When AOEs replenish their customers with dry cargo (dry goods and ammunition), they deliver it by CONREP or VERTREP, depending on the circumstances. When no fuel is being transferred, AOEs use VERTREP to deliver the dry cargo. On the contrary, when AOEs conduct FAS they usually use the CONREP method.

Most UNREPs take place in the daytime. Less than 12 percent of the UNREPs occur between the hours of 2000 to 0400. Even if we define nighttime more broadly as 1800 to 0600, less than 21 percent of the UNREPs are at night.

### Recommendations

- That the Fleet answer two questions:
  - During wartime in a combat theater, does the Navy intend to conduct UNREPs mostly during daylight hours?
  - Is it going to use VERTREP almost exclusively to transfer ammunition and stores in wartime?

#### and

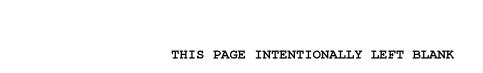
- Standardize the format for reporting UNREP transactions
- Standardize units (i.e., pallets, lifts, etc.) for reporting dry cargo products transferred
- Develop method(s) for station ships to report UNREP data, on a regular basis, to appropriate agencies for analysis (e.g., CNA).

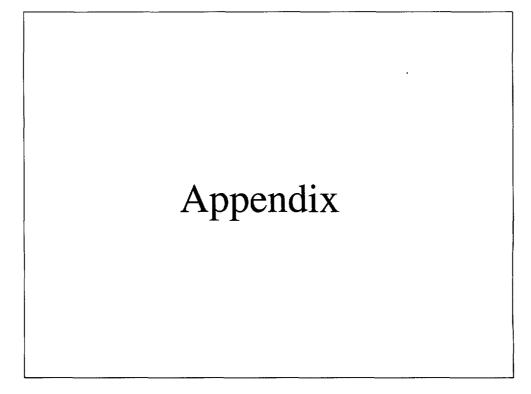
We were surprised that almost all UNREPs are conducted during daylight hours and that dry cargo deliveries are conducted almost exclusively by use of VERTREP. In view that the Navy espouses training as it intends to fight, we recommend that the fleet affirm to its own satisfaction that it plans to conduct UNREPs during wartime as it is presently practicing in peacetime.

In conducting this study into the operations of Navy-manned AOEs, we encountered some difficulties because of the quality and quantity of UNREP data. We anticipate that there will be times in the future when the Navy will want to analyze its CLF operations. If so, we have some suggestions, which we list here as recommendations, on measures that would improve the completeness of UNREP data, and thus, the accuracy of analyses.

Currently, there is <u>no central agency</u> that collects CLF UNREP data. For example, Navy CLF ships record some of their UNREP data in Quartermasters' log, ship Deck Logs, UNREP station logs, and other local records. The data are maintained for the duration of the deployment, aggregated for inclusion in the end of the deployment report, and then <u>discarded</u>.

Also, there is no single Navy entity charged with compiling, managing, and analyzing an operational logistics database. Assuming the Navy wants to be able to conduct analyses similar to what we have done in this document, it should formalize the continuing responsibility for doing so. Assigning this to a Navy activity or to CNA would preserve the capability to provide such analyses in the future.





In this appendix, we have provided information on the following:

- Composition of the carrier battle groups with whom the AOEs deployed
- Questions we sought to answer in this study
- Description of how AOEs reported cargo and fuel data, and the variability of those data
- Correction factors used for adjusting AOE data sets
- Tables with aggregated fuel and dry cargo data
- Tables showing the periodicity of FASs and RASs that the AOE conducted.

## Deploying CVBGs

	LANTF	LT CVBGs	-	1994
Saratoga	1/12/94	1-6/24/94	٦	
CV 60	DD 968	FFG 50		
CG 58	DD 974	FFG 52	SSN 703	
CG 69	AE 34	AO 178	SSN 693	
				_ [c
George Washington	5/20/94	-11/17/94	<b>1</b>	_
	5/20/94 CG 56	-11/17/94 DDG 52	SSN 709	 ]
George Washington CVN 73 CG 25			SSN 709 SSN 750	_ } ]

Carl Vinson	2/17/94	1-8/17/94	
CVN 70	CGN 41	CG 54	FFG 57
		AOE 2	

PACFLT CVBGs

Kitty Hawk	6/24/9	4-12/22/94	
CV 63	CG 63	CG 49	CGN 36
FFG 37		AOR 7	AE 32

Dwight D. Eisenhower	10/20/9	4-4/19/95	
CVN 69	DD 969	FFG 49	SSN 761
CG 68	DD 993		SSN 764
CG 71	FFG 42	AOE 4	

	LANTFLT CVBGs		1996-1997	
George Washington	1/28/96	5-7/25/96	<b>1</b>	
CVN 73	DDG 55	FFG 58	SSN 756	1
CG 56	DD 968		SSN 704	

DD 979

AO 179

**AE 34** 

DDG 52

Enterprise	6/28/96	1	
CVN 65	DDG 57	FFG 42	SSN 720
CG 58 CG 64	DD 977		SSN 714
CG 64	FFG 49	AOE 6	

Carl Vinson	5/16/96	S-11/14/96	
CVN 70	CGN 36	CG 67	CGN 41
FFG 37		AOE 2	

PACFLT CVBGs

Theodore Roosevelt	11/26/9	6-5/25/97	1
CVN 71	DDG 61	FFG 52	SSN 765
CG 55	DD 997		SSN 712
CG 72	FFG 53	AOE 4	

Kitty Hawk	10/11/	96-4/11/97	<b></b>
CV 63	CG 63	CG 54	DD 985
FFG 30		AOE 7	SSN 716

John F. Kennedy	4/29/97	7-10/28/97	
CV 67	CG 69	FFG 50	SSN
CG 51	DD 963		SSN
CG 66	DD 981	AOE 8	

Nimitz	9/1/97	9/1/97-3/1/98		
CVN 68	CG 73	CG 57	DD 965	
FFG 54		AOE 1		

George Washington	10/3/97-4/3/98		
CVN 73	DD 983	FFG 36	SSN 760
CGN 37	DDG 64		SSN 769
CG 60	FFG 28	AOE 3	

#### Analysis Methodology

- Build AOE UNREP database from Fleet data
- Analyze refueling and replenishment data
  - How many and who were the AOEs' customers?
  - How much product did they deliver to them?
  - How often did they conduct UNREPs?
  - What percentage of the UNREPs were at night?
  - What portion of the dry cargo UNREPs were VERTREP?

In this study, we consolidated the data sent to us by COMLOGGRU TWO and COMNAVSURFGRU PAC NW into a single Excel database for analysis. We sought to answer the following questions about CVBG station ship operations during recent forward deployments:

#### Refueling at Sea (FAS)

- How many ships did they refuel, and how much DFM and JP-5 did they deliver?
- How many of their FASs were to ships of their own CVBG?
- How many other ships were refueled?
- How many FASs did they average per week? (See page 40)
- How many FASs were done during nighttime hours between 2000 and 0400?

#### Replenishment at Sea (RAS)

- How many ships did they replenish, and how many pallets did they transfer to them?
- How many RASs did they conduct to ships of their CVBG?
- How many other ships did they replenish?
- What was their average number of RASs per week? (See page 41)
- How many of their RASs were at night?
- What percentage of dry goods was transferred by VERTREP and by CONREP?

# Typical UNREP Entries From Two AOEs

ertrep	Conrep	Date	Ship	DFM	JP-5	Vertrep (Lifts)	Ammo/Cargo
(pall	ets)						
2		14June	CAL			26	
	16	15Jun	CVIN		661,254		37/0
3	17	15Jun	SHI	203,059	5,026	9	
tation s	hip AOE I	3					
ate Re	egion Cus	tomer	Mode	Start	Stop	Item	Quantity
708 C	lant CV	N 65	Conrep	0803N	1142N	DFM/JP-5	0K/907.7K
						FF	4 Plts
	FF	G 49	Conrep	0915N	1033N	DFM/JP-5	56K/0K
						Potwater	4K
			Vertrep	0730N	0920N	Deck	1 Plt
						Dry	3 Plts
						Soda	3 Plts
						FF	2 Plts
						FRZ	2 Plts

One problem we had is that the quality and quantity of the data reported to us was uneven and often incomplete, from ship to ship and between LANT and PAC. The above table shows actual UNREP entries we received.

The data AOE A provided make it difficult to analyze how it distributed provisions and stores. Does cargo include soda pallets? How about fresh frozen vegetables? Without start and stop times, we couldn't tell how long each evolution took.

AOE B used a more complete format. The UNREP data was precisely categorized into discrete item classes. Also, the ship clearly identified the transfer mode (CONREP or VERTREP) for each item.

On the next page, we assess the quality of UNREP data each AOE provided. The descriptions of the categories are:

Ship - AOE by hull number

Time data - Did the AOE provide start and stop times of each UNREP?

Fuel data - How much fuel did it transfer (or receive)?

Provisions data -Were provisions data reported in a format similar to AOE B?

CONREP or VERTREP - Was mode of transfer given for UNREP transaction?

We've included the actual data we used in this analysis [at the back of the report]. The data was compiled from the data sheets sent from COMLOGGRU TWO and COMNAVSURFGRU PAC NW.

### Quality of AOEs Provisions Data

Ship	Time Data	Fuel Data	Provisions Data	Conrep or Vertrep (Provisions only)
AOE 1	No	Yes	Yes	No
AOE 2	No	Yes	Yes/No [1]	Yes
AOE 3	Yes	Yes	Yes	Yes
AOE 4	Yes	Yes	Yes	Yes
AOE 6	Yes	Yes	Yes	Yes
AOE 7	Yes	Yes	Yes/No [2]	Yes
AOE 8	Yes	Yes	Yes	Yes
AE 34	No	Yes	Yes/No [3]	Yes
AO 179	Yes	Yes	Yes/No [4]	Yes

- 1. Very limited provisions data. Non-fuel data divided into cargo and ammo.
- 2. Listed dry goods as stores, food, mail and ammunition. Transfer mode of each transaction not listed for AOE 7.
- 3. Provisions data similar to AOE 2 format
- 4. Grouped some provisions data into broad groups. Instead of separate entries for FFV and Dry, entries listed as FFV/DRY.

AOEs reported similar items differently from one another. For example, AOE 3 grouped HULL and Deck products into a single HULL/Deck category. AOE 6 separated these items into two individual categories. AOE 3 also grouped fleet freight, Q Cog, and FILL into a single category while AOE 6 listed these items separately.

In part because of the unevenness of data we received, we grouped the data into three major categories for purposes of this analysis:

- Fuel includes DFM and JP-5
- Dry goods
- Ammunition

"Dry goods" is the combination of all dry cargo such as FILL, HULL, fresh frozen vegetables, Q Cog, aircraft engines, chill, soda, dry, dairy, deck, and fleet freight. Items not included in this category are mail, personnel (pax), retrograde, and potable water (potwater). AOEs listed ammunition as one category, but did not list what specific kind of ammunition was delivered or received.

In most cases, the AOEs used the pallet as the unit of measure for dry goods and ammunition, but some AOEs used "loads" and "lifts." We converted loads and lifts to pallets with the following assumed conversion:

$$1 \text{ lift (or load)} = 2 \text{ pallets}$$

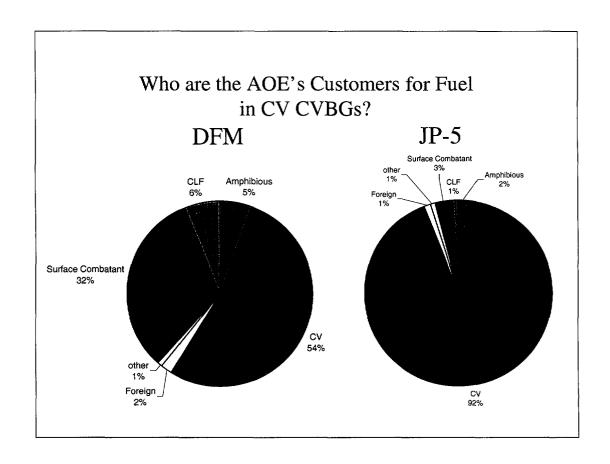
That conversion allowed us to compare items transferred from all AOEs (except 1994 deployers) with each other on an equal basis.

## Correction Factors for AOEs with Less Than Six Months Deployment Data

AOE	Year	Correction
AOE	1 <del>C</del> ai	Factor
AO 178/AE 34	1994	6/5
AOR 6/AE 28	1994	6/4
AOE 2	1994	6/5
AOE 4	1994	6/2
AOE 3	1996	6/2
AOE 4	1996	6/3

As described previously, some of the data we have from the AOEs do not contain complete 6-month deployment data. Rather than exclude these data, we decided to normalize the data over a full six months' period. The above chart shows the correction factors we used to adjust the data to generate a quantity of an "equivalent" 6-month deployment.

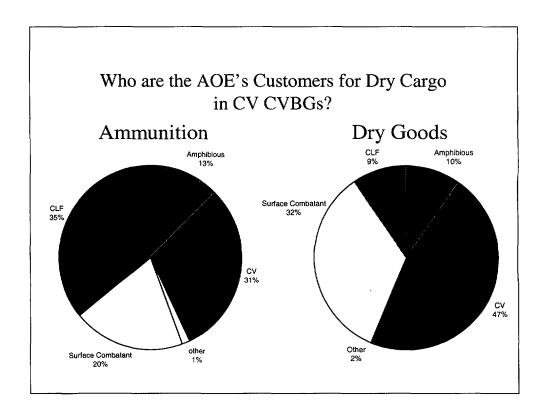
While we recognize that normalizing data as we have done ignores the unevenness of actual UNREP operations experienced during a full deployment, we believe the use of these correction factors generates data that approximates a full 6-month deployment.



To whom did AOEs deployed with fossil fuel carriers in their CVBGs distribute fuel? The percentages of DFM and JP-5 that AOEs distributed to customers were calculated using the same method described on page 8.

The AOEs transferred 54 percent of their DFM to CVs, and 32 percent to surface combatants. On the other hand, AOEs deployed with nuclear CVBGs (CVNBGs) transferred 61 percent of their DFM to surface combatants and only 6 percent to CVNs (see page 3).

When we compare the amount of JP-5 transferred to customers, in both nuclear and non-nuclear carrier battle groups, AOEs transferred the majority of their JP-5 to CVs or CVNs (92 and 87 percent, respectively). This is reasonable because JP-5 is primarily used to fuel aircraft, and aircraft carriers contain large numbers of tactical aircraft.



How did AOEs deployed with conventionally-powered carrier CVBGs distribute dry cargo? We computed the percentage of ammunition and dry goods distributed by AOE 7 and AOE 8, which belonged to CVBGs with fossil fuel CVs.

These two AOEs distributed over 60 percent of their ammunition to CVs and to other CLF ships. When these data are compared to the CVNBGs' data shown on page 4, we see that the trend is basically the same. One difference we observed was the amount of ammunition distributed by AOEs to surface combatants. AOEs belonging to CVNBGs distributed 11 percent of their ammunition to surface combatants, while AOEs belonging to CVBGs distributed 20 percent of their ammunition to surface combatants.

When we look at the dry goods data, the AOEs distributed close to 80 percent of their dry goods to their own CVs and to surface combatants. In contrast, AOEs belonging to CVNBGs distributed the majority of their dry goods to their CVNs and the rest to surface combatants, CLF, and amphibious ships in near equal percentages (see page 4).

#### Fuel Delivered

DFM (Gal)								_
AOEs	Amphibious	CV	CVN	Foreign	other	Surface Combnt.	CLF	SUM
AO 178/AE 34 (1994)	780,449	14,560,784		808,070	183,960	6,118,139	532,848	22,984,250
AOR 6/AE 28 (1994)			816,000	468,300		4,552,050	937,350	6,773,700
AOE 4 (1994)	4,247,856			520,077		11,017,275		15,785,208
AE 34/AO 179 (1996)	3,268,409	684,142	2,315,462	826,701	398,355	9,414,607	2,284,150	19,191,826
AOE 3 (1997)	4,549,200			413,370		9,011,133		13,973,703
AOE 4 (1996-97)	477,400			540,000		4,690,600		5,708,000
AOE 6 (1996)	3,961,000			413,000	6,100	8,135,700	783,300	13,299,100
AOE 8 (1997)	412,000	8,625,000		246,000	415,000	6,849,000	1,316,000	17,863,000
AE 32/AOR 7 (1994)		6,580,000		165,000	100,000	2,050,000	1,740,000	10,635,000
AOE 2 (1994)	3,871,214			192,362		4,344,196		8,407,772
AOE 1 (1997-98)	1,460,698		147,000	358,976		13,157,271	6,855,312	21,979,257
AOE 2 (1996)	3,384,864		4,004,211		315,540	7,775,311	435,449	15,915,375
AOE 7 (1996-97)	3,298,394	13,731,214		412,270		11,349,326	1,380,453	30,171,657
SUM	29,711,484	44,181,140	7,282,673	5,364,127	1,418,955	98,464,607	16,264,862	202,687,849
JP-5 (Gal)	Amphibious	CV	CVN	Foreign	other	Surface Combnt.	CLF	SUM
AO 178/AE 34 (1994)	90,827	8,384,758		280,014	25,410	165,620		8,946,629
AOR 6/AE 28 (1994)			6,838,000			121,300	24,100	6,983,400
AOE 4 (1994)	114,468		3,144,161	4,822		111,795		3,375,246
AE 34/AO 179 (1996)	123,470	11,861	6,669,970	2,245		1,338,148	58,508	8,204,202
AOE 3 (1997)	93,140		2,385,179	4,623		100,586	793,200	3,376,728
AOE 4 (1996-97)	137,700		2,179,300	2,600		83,400		2,403,000
AOE 6 (1996)	514,700		8,979,000	28,900	201,800	378,300	200,000	10,302,700
AOE 8 (1997)	7,000	11,017,000			319,000	175,400	48,000	11,566,400
AE 32/AOR 7 (1994)		2,810,000			10,000	125,000	265,000	3,210,000
AOE 2 (1994)	523,307		4,004,639	1,850		148,354		4,678,150
AOE 1 (1997-98)	166,911		7,730,047	5,669		392,965	4,960	8,300,552
AOE 2 (1996)	491,907		5,247,202		27,622	755,457	11,869	6,534,057
AOE 7 (1996-97)	428,223	8,109,272		12,609		494,674		9,044,778
SUM	2,691,653	30,332,891	47,177,498	343,332	583,832	4,390,999	1,405,637	86,925,842

How much fuel did AOEs give to their customers? In this table, we tabulated the amount of DFM and JP-5 transferred to customers. The amount of DFM and JP-5 are summed across fuel types, DFM and JP-5, and across AOEs. In AOEs for which we have incomplete data sets, we adjusted the data using the correction factors on page 38.

## Dry Goods and Ammunition Delivered

AOE 1 (1997-98)	Ammo	Dry Goods	AOE 2 (1996)	Ammo	Dry Goods
Amphibious	14	198	Amphibious	2	·
CVN	822	380	CVN	214	314
Foreign		2			
Other	4	13	Other	64	
Surface Combt	98	435	Surface Combt	113	
CLF	<u>3752</u>	<u>258</u>	CLF	<u>3081</u>	<u>62</u>
SUM	4690	1286	SUM	3474	376
AOE 7 (1996-97)	Ammo	Dry Goods	AOE 3 (1997)	Ammo	Dry Goods
Amphibious	128	832	Amphibious	9	1152
cv	152	924	CVN	225	612
Surface Combt	78	1748	Surface Combt	9	147
CLF	<u>4560</u>	<u>144</u>	CLF	<u>303</u>	<u>588</u>
SUM	4918	3648	SUM	<del>546</del>	2499
AOE 4 (1996-97)	Ammo	Dry Goods	AOE 6 (1996)	Ammo	Dry Goods
Amphibious	8	128	Amphibious	3	105
CVN	82	582	CVN	251	1187
Other		10	Other	1	19
Surface Combt	<u>152</u>	276	Surface Combt	45	660
CLF		88	CLF	1551_	823
SUM	242	1084	SUM	1851	2794
AO 170/AE 34 (1996)	Ammo	Dry Goods	AOE 8 (1997)	Ammo	Dry Goods
Amphibious	34	162	Other	6	3
CVN	546	373	CV	123	2005
Surface Combt	194	230	Surface Combt	23	717
CLF	<u>248</u>	<u>104</u>	CLF	<u>2003</u>	<u>410</u>
SUM	1022	869	SUM	2155	3135

This table summarizes the RAS activity of deployed AOEs during the 1996–1997 period, showing the number of pallets of ammunition and dry goods each AOE delivered. Not surprisingly, they distributed the bulk of their dry goods to surface combatants and aircraft carriers, the carrier battle group ships.

Some AOEs also transferred large quantities of dry goods to amphibious ships. In fact, AOE 3 distributed more pallets of dry goods to amphibious ships than to carriers.

AOEs also distributed dry goods to other CLF ships such as TAFSs, TAOs, and other AOEs. For example, AOE 3 transferred dry goods to TAO 199, TAFS 5, TAFS 8, TAFS 9 and AOE 8 during the course of its deployment.

There is one big difference between AOEs' transfers of dry goods and ammunition during their deployments. While they transferred dry goods throughout their deployments, we saw no evidence that they offloaded large amounts of dry goods to other ships at the end of their deployments, as we observed for ammunition.

7	TT (	\C	$\mathbf{D}^{1}$ 1 $\lambda$ $\boldsymbol{C}$		CO	
	HOW U	itten .	Did AC	JES E <i>F</i>	15!	
_						
AOEs	Amphiblous	Deviation	cv	Deviation	CVN	Deviation
AO 178/AE 34 (1994)	3	2	1	1		
AOR 6/AE 28 (1994)			<u> </u>		1	0
AOE 4 (1994)	3	0	<del> </del>	CCD		0
AO 179/AE 34	3	3	1 1	SDP	1	0
AOE 3 (1997)		2	<del> </del>			0
AOE 4 (1996-97)	2	SDP	<del>                                     </del>			0
AOE 6 (1996)	2		H		1	0
AOE 8 (1997)	2	1	<del>                                     </del>	0		+
AOR 7/AE 32 (1994)			1 1	1		+
AOE 1 (1997-98)	3		<del>                                     </del>			0
AOE 2 (1994)	3	2	<del> </del>		1	0
AOE 2 (1996)	2		<del> </del>	0	1	- 0
AOE 7 (1996-97)	3	1	1 1			<del> </del>
Total average	3		1 1		1 0	
n-column deviation	1		0		0	
AOEs	Other	Deviation	Surface combt.	Deviation	CLF	Deviatio
AO 178/AE 34 (1994)	2	1	3	2	2	1 1
AOR 6/AE 28 (1994)			2	1	1	0
AOE 4 (1994)			4	3	2	SDP
AO 179/AE 34 (1996)	1	SDP	4	3	1	0
AOE 3 (1997)			5	5	1	SDP
AOE 4 (1996-97)			3	4		
AOE 6 (1996)	1	0	3	2	1	0
AOE 8 (1997)	1	0	3	2	2	SDP
AOR 7/AE 32 (1994)	1	SDP	2	1	11	0
AOE 2 (1994)	1	SDP	3	1	1	0
AOE 1 (1997-98)			5	2	1	0
AOE 2 (1996)	1	1	4	2	1	0
AOE 7 (1996-97)			5	2	1	1
Total average	1		3		1	
n-column deviation	0		1		0	7

We thought an important question to ask is "How often did the AOE refuel another ship?" Several columns in this table show the number of times per week each AOE refueled various types of customer ships.

The columns labeled "deviation" show the standard deviation of the AOE's FASs/week data for each type of customer ship. We also calculated a total average of FASs per week for the different AOEs within a ship type. For example, AOE's (in this study) refueled  $3 \pm 1$  surface combatants per week and AOE 2 in 1996 refueled  $4 \pm 2$  surface combatants per week.

AOEs, on average, refueled surface combatants 3 times per week, more often than any other type of ship. This number is a rough average since there is a significant amount of scatter in the data shown by the high standard deviation.

Amphibious ships were AOEs' second most frequent customer. They refueled amphibious ships 2.6 times per week, on average.

AOE's refueled other types of ships once or twice a week.

<u>Notes</u>: Ranges are specified as average ± one standard deviation.

"SDP" in the above table is an abbreviation for "single datum point."

#### How Often Did AOEs RAS?

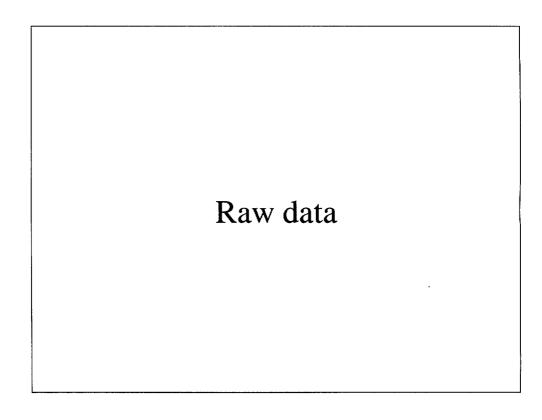
		Amphibious		CV		CVN	
	AOEs	Average	Deviation	Average	Deviation	Average	Deviation
4	AO 179/AE 34 (1996)	2	1			11	0
1	AOE 3 (1997)	2	3			2	1
LANT	AOE 4 (1996-97)	1	0			2	0
- 1	AOE 6 (1996)	2	1			2	1
	AOE 8 (1997)			2	0		
	AOE 1 (1997-98)	2	1			1	1
PAC	AOE 2 (1996)	1	0			1	0
	AOE 7 (1996-97)	3	0	1	0		
		Other		Surface Combatant		CLF	
		i Othici		Canada Combalant			
	AOEs	Average	Deviation		Deviation	Average	Deviation
•	AOEs AO 179/AE 34 (1996)	1 .	Deviation 0		Deviation 1		Deviation 0
<b>†</b>		1 .		Average	Deviation 1		
LANT	AO 179/AE 34 (1996)	1 .		Average 2	Deviation 1 1 1	Average 1	
LANT	AO 179/AE 34 (1996) AOE 3 (1997)	1 .	0	Average 2 2	Deviation 1 1 1 2	Average 1	0 1
LANT	AO 179/AE 34 (1996) AOE 3 (1997) AOE 4 (1996-97)	1 .	0	Average 2 2 2	1 1	Average 1 2 1	0 1
	AO 179/AE 34 (1996) AOE 3 (1997) AOE 4 (1996-97) AOE 6 (1996)	1 .	0 SDP 1	Average 2 2 2 3	1 1 1 2	Average 1 2 1 2	0 1 0
LANT	AO 179/AE 34 (1996) AOE 3 (1997) AOE 4 (1996-97) AOE 6 (1996) AOE 8 (1997)	Average 1 1 1 1	0 SDP 1 0 1	Average 2 2 2 3 3 3	1 1 1 2 2	Average 1 2 1 2	0 1 0
	AO 179/AE 34 (1996) AOE 3 (1997) AOE 4 (1996-97) AOE 6 (1996) AOE 8 (1997) AOE 1 (1997-98)	Average 1 1 1 1	0 SDP 1 0	Average 2 2 2 3 3 3 4	1 1 1 2 2	Average 1 2 1 2	0 1 0 1 2

In general, AOEs replenished surface combatants 2 to 4 times per week. The high standard deviation in the adjacent column indicates the AOE did not RAS surface combatants the same number of times every week throughout its deployment. For example, 1 week a AOE replenished 5 surface combatants, and 3 weeks later the same AOE replenished 8 surface combatants.

They replenished amphibious ships 1.5 to 2.5 times per week. The low standard deviation in this case shows AOE replenished almost the same number of amphibious ships each week.

The AOE replenished a CV or a CVN once to twice per week. It also replenished other CLF ships once or twice a week.

<u>Note</u>: Ranges are specified as average  $\pm$  one standard deviation.



The following pages contains the database we constructed from UNREP data obtained from COMLOGGRU TWO and COMNAVSURFGRU PAC NW. We divided the data into two groups: deliveries and receipts. Deliveries consist of ammunition, dry goods, and fuel the AOE transferred to its customers. Receipts indicate fuel and dry cargo delivered to the AOE (e.g., from other CLF ships).

As discussed previously, some AOEs used different units of measure to describe identical items. In the following table, the units each AOE used is shown. All the ships reported DFM and JP-5 in gallons.

Ship	Ammunition	<b>Dry Cargo</b>
AE 34	Lifts	
AO 179	-	Pallets
AOE 1	Lifts	Pallets
AOE 2	Pallets	Pallets
AOE 3	Pallets	Pallets
AOE 4	Pallets	Pallets
AOE 6	Pallets	Pallets
AOE 7	Loads	Loads
AOE 8	Pallets	Pallets

In the pages that follow, shaded cells indicate ships belonging to the AOE's own CVBG.



Date	Location	Source/ CLF	Customer	Start Finis	h CONREP	VERTREP	INREP	DFM ·	JP-5	Ammo	Pax Freez	e Food	Chill	Dry Chi	II/ Dairy	FFFV/	chill c	hill/ ffv Ot	ner Sod	a   Fit Frt	Fit Frt/Qcog/F	AO fltfrt	Hull Hu	V Fill	Pot-	ETE	Retro	Q-Cug N	Vitro Lube	A/C	Mail N	NRFI/
		ship					ļ	Gal	Gal	Pal	Pal	Lorde	Pal	Pai Pa		Dairy	Dairy	stores sto		Pal	ILL	DKLD dkid	Pal Pa		Water Gal	Dal	Pal	Dal	Oil Pal Pal	Engines	Pounds E	DLRs
4		'						- Gai	L Cal		l rai	1.oaus	i rai	rat   ra	a j rai	1 tai	I rai		Do		rat .	rar j rai	j rai j ra	l rai	I Cal I	rai	rai j	rat j t	ai rai		rounds	
1/14/94	Med	AO 178	DD 968			1	1	64,000	3,400	I	1 1			Т	T	Ι	Г Т		<del></del>	1	I I		ТТ		тт			<del></del>	<del></del>		<del></del>	
1/14/94	Med	AO 178	FFG 52					17,202	0.000	ļ																						
1/14/94	Med Med	AO 178 AO 178	FFG 50 CG 69	-		<del> </del>		24,989 107,000	2,386 4,411			+	<del> </del>	<del> </del>	<del> </del>		<del>  -</del>		-	┪		-	+ + -	<u> </u>	+			-+				
1/18/94	Med	AO 178						118,000	4,000																							
1/18/94	Med Med	AO 178 AO 178	CV 60 FFG 50		•	1		1,027,120 71,417	440,017 3,630			+	<u> </u>	<del>                                     </del>						+			+		<del>                                     </del>				+-	<del>  </del>	-+	
1/18/94	Med	AO 178	CG 69					135,000	3,000																							
1/19/94	Med Med	AO 178 AO 178	FFG 52 CG 58			<u> </u>		59,254 284,987	3,000 5,733	<del> </del>	<del>  </del>		<del> </del>	<del> </del>	-		$\vdash$	_					<del>                                     </del>		+					<del> </del>		
1/20/94	Med	AO 178	FFG 50					33,861	0,700																							
1/19/94	Med Med	AO 178 AO 178	CV 60 DD 968			24		596,169 125,328	5,250			<del></del>	<del> </del>	<del>                                     </del>		ļ							╂┼		<del>  </del>					$\vdash$		
1/22/94	Med	AO 178	FFG 52			<del></del>		55,272	0,200					<del> </del>											<del> </del>	_			+			
1/22/94	Med Med	AO 178 AO 178	CG 58 CG 69			<del>                                     </del>		128,478 130,368	1,974														$\vdash$									
1/25/94	Med	AO 178	Fgn SC				<del>  </del>	11,592	1,974	-		+	<b>-</b>		-	<b> </b>	<del>                                     </del>		+	+		<u> </u>	+			_			-			
1/25/94	Med Med	AO 178	Fgn SC					10,542																								
1/25/94	Med	AO 178 AO 178	DD 968 CG 58			-		91,896 105,168	7,686		<del>  </del>	+	ļ .					-	+	1					1 +				+	$\vdash$	<del></del>	
1/25/94	Med	AO 178	CV 60			7		706,442	418,103											- I												
1/25/94 2/4/94	Med Med	AO 178 AE 34	CG 69 CG 26					109,410	1,512	13 lifts/14 tons		+	<del> </del>	<del> </del>	+				_	_			<del>                                     </del>	<del></del>	$\vdash$			-		$\vdash$		
2/6/94	Med	AE 34	DD 997				<u> </u>	40,788																1								
2/12/94	Med	AO 178						106,428	6,762			I																				
2/13/94 2/13/94	Med Med	AO 178 AE 34	CV 60 DD 968		1 lift/.3 tons	+		876,330	654,943			<u> </u>		+	+		<b> </b> T			-					+			$\perp$	$\bot$	$\vdash$		
2/14/94	Med	AO 178	CG 58		1 110.5 10115			63,027	3,102											1			<del>                                     </del>					-	+			
•		•	•	•	•	,							•	•			-										·					
2/19/94 2/20/94	Med Med	AO 178 AO 178			17			86,938	1,813 591,077											4									$\Box$	$\Box$		$\equiv$
2/23/94	Med	AO 178	AE 34		17	44	<del>                                     </del>	798,055 366,400	391,077				<del> </del>	<del>                                     </del>		··· · · · · · · · · · · · · · · · · ·	<del></del>		_	<del> </del>				+	<del>  -</del>			-+	+	-	-+	$\dashv$
2/24/94 2/25/94	Med Med	AE 34 AO 178	CG 69 DD 974			5 lifts		181,900	0.001	4 lifts/1.1 tons									5										$\Box$			
2/26/94	Med	AO 178	CG 58		12	1 - 3		120,800 113,318	9,821 12,178	<b>†</b>	<del></del>		<del> </del>		+				+					+		$\dashv$				-+		-
3/2/94 3/2/94	Med Med	AO 178 AO 178	CG 58 CV 60		1	28		73,071 853,358	3,500 653,679																				$\Box$			=
3/1/94	Med	AO 178	CG 58		13	20		86,440	3,557			+		<del> </del>					+	+			<del>                                     </del>		<del>  -</del>			-+				
3/7/94 3/7/94	Med Med	AO 178 AO 178	CV 60 TAFS 5			52 62		632,654	658,000																			=		$\Box$		
3/10/94	Med	AC 178	AS 33			02				4 lifts/.5 tons	<del></del>		<del></del>	<del>                                     </del>	1				+-	+			<del>                                     </del>	-				-+	+	-+		
3/10/94	Med		DD 968					77.040		6 lifts/7.8tons	2																					
3/11/94 3/12/94	Med Med	AO 178 AE 34	AE 34 CG 58					77,640 85,488			2	-	<b></b>	<del>  </del>	1								<u> </u>		<del>  -</del>				-			
3/12/94	Med	AE 34	AD 41			04.00						ļ																				
3/12/94 3/14/94	Med Med	AE 34 AO 178	TAFS 5 CV 60		52	21 lifts 88		773,267	566,695		<del></del>	-	<del> </del>	<del>                                     </del>	<del></del>								<del>                                     </del>	+	<del>  -</del>	-		-+	+	$\overline{}$	-+	$\dashv$
3/15/94	Med	AO 178	FFG 50		13			70,854	10,794																							=
3/18/94 3/20/94	Med Med	AO 178 AE 34	CV 60		16	9 tons		537,264	460,278	50 lifts/9 tons	2	+							+	+			-	<del>-  </del>	<del>                                     </del>					+		
3/20/94	Med	AE 34	DD 974		1	1.9 tons				1			T										<del></del>		1							
3/21/94	Med	AE 34	CG 69			1.9 (01)5		70,812		2 lifts/1.9 tons	5				+								<u> </u>									=
3/24/94	Med	AE 34	CG 69	<del></del>		9 lifts					1	<del></del>			1			1				-	1		<u> </u>	1	· · · · · · · · · · · · · · · · · · ·					
3/26/94	Med	AO 178	AD 41		4	U mta		153,300	25,410																							
3/27/94 3/28/94	Med Med	AO 178 AO 178	CV 60 DD 974	<u> </u>	7	6		805,308	371,490					$\vdash$						-								$\rightarrow$	$\perp$	$\overline{}$		
3/28/94	Med	AO 178	CG 69		4	<u> </u>		170,016	10,500																							
3/29/94 4/1/94	Med Med	AO 178 AO 178	CG 26		2	61		128,856				+		<del>                                     </del>					-						-				-			
				1	Ŧ	,	1		<u> </u>	<u> </u>	·	.J	·			L	·						<del></del>		ــــــــــــــــــــــــــــــــــــــ		<u>_</u>					
4/6/94	Med	AO 178	CG 19		32			101,640		<del>                                     </del>		· -		<u> </u>	<del>                                     </del>				<u> </u>	1			<del>                                     </del>	т	1	1	Т	—		т т		
4/1/94	Med	AO 178	CV 60			110		763,308	88,678																							
4/8/94	Med Med	AO 178 AO 178	DD 974 CG 69		15	5		140,280	5,200	<del> </del>					+					-			$\vdash$	<del></del>	-				-			$\dashv$
4/10/94	Med	AO 178	CG 69					15,000	3,200	t		1																士		二士		
Г			Т			1				T		<del></del>		T T									<del></del>				1					
4/15/94	Med	AO 178	CG 69			4		95,000	2,500			1			$\perp$								$oxed{oxed}$									
4/17/94 4/17/94	Med Med	AO 178 AE 34	LPH 12			<del> </del>		585,353	296,263	1 lift/.1345 tons		+			+ -			_	-	-		-+		-	-					<del></del>		
4/17/94	Med	AE 34	LPD 14							8 lifts/6.688 tons																						
4/17/94	Med Med	AE 34 AE 34	LSD 37 LST 1172	<del></del>	<del></del>	<del> </del>	<del>  </del>		<u> </u>	1 lift/.731 tons 1 lift/.1345 tons		+-			+				_	+	·		<del>                                     </del>		<del>                                     </del>	_	-	-	+			
4/19/94	Med	AO 178	CV 60		5			220,374	351,162	, 10.10 10113																		士		t		
4/19/94 4/21/94	Med Med	AO 178 AE 34						70,812	4,116	4 lifts/2.76 tons		+			1								<del>                                     </del>					<del></del>				
4/22/94	Med	AO 178	DD 968		22			151,947	5,948																			土				
4/22/94 4/22/94	Med Med	AO 178 AE 34	AE 34			8  2 lifts/11.86 tor	18				7	ļ			$+\Box$		$ \mp$	-	+	1		-			$\vdash \exists$		<b></b> ∓	$\neg \Box$		<u>_</u>		
4122174	Med	AL: 34	100 1/0			a. mar i 1.00 101	10			L	<i>i</i> j	1			<u> </u>					<u>i i</u>		<u> </u>	l		<u> </u>							

Date	Location	Source/ CLF	Customer	Start	Pinish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt l <sup>2</sup> rt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV	Chill	Freeze	Fill	Î	Hazmat	Retro	JETE	Misc	Q-cog	Mail
	1.	ship	1			l. i		1	1			1		Retro	etc	etc.	Qcog/Fill				Dairy	1		Dry	. 1	- 1		Dkld				cargo	1	- 1
										Gal	Pal		Pal	Pal	Pai	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	PaJ	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pounds
						-														П.	ceipts													

2/8/94	Med	Souda Bay	AE 34	ļ			1	38 lifts/56.5	5											
2/10/94	Med	TAFS 10	AE 34								士	<u> </u>							42 lifts	
2/15/94		Augusta Bay	AE 34					42 lifts/19.7	7											

						 						 	 	,,			 	 	 	 	 			
3/2	20/94	Med	TAO 195	AE 34		 	228,0	90	5 tons															
3/	20/94	Med	AE 34	DD 974		ì			/6.2 tons						1	1								
					•		•	•	•									 			 			
3/.	23/94	Med	Sigonella	AE 34					12 lifts	T	7					1						] 1	0 lifts	

	T:	1	F	T				T		1	57 lifts/73.17	71		1 1	 1	 T 1			- 1	- 1	1	1	1 1	 	<del></del>	<del></del>
4/5/94	Med	NavStaRota	AE 34	}					198,074		tons			] [					- 1						11 lifts	
43174	, meu	. Tarbiaroa	762.54		L	L	L		100,074		Itoria	J	·		 	 <u></u>	 L	1		I		<u> </u>	1	 	Tituis	

4/14/94	Med	Augusta Bay	AE 34			112,024	49 lifts											87	7 lifts	
							/70,32 tons							T						
4/15/94	Med	AO 178	CG 69					l					 		1	L i		 	1 1	

Date	Location	Source/ CLF	Customer	Start Finish	CONREP	VERTREP	INREP	DFM	JP-5	Ammo	Pax	Freeze	Food C	Chill [	Dry Chill	1/ Dairy	FFV/		II/ ffv O	Other Sod	a Flt Frt		AO fit	frt/ [Hull	[]uii/	Fill	Pot- JE	TE Re	tro Q-0	Cog Nitro	Lube A	C Mail	NRFI/
		ship													FFV		Dairy	FFV/ Dairy st	tores st	tores		Frt/Qcog/F	DKLD di	ld	DKLD		Water				Oil Eng	nes	DLRs
	L	<u> </u>	l					Gal	Gal	Pal		Pal	oads	Pai I	Pal Pai	Pal		Pal Le					Pal P	al Pai	Pal	Pal	Gal F	al P	al P	al Pai	Pal	Pounds	s Pal
				T-70																Do	liveries-												<b>-</b>
4/23/94	Med	AO 178	Fgn SC				Г		280,014	1						Т			<del></del>	T	<del></del>	1			—Т		· · · · · · · · · · · · · · · · · · ·	<del></del>					Т
4/25/94 5/1/94	Med Med	AO 178 AO 178	CV 60 CV 60		126 52	80		497,658 217,014	690,018 233,982													ļ											
5/3/94	Med	AE 34	CG 58		52	80		69,900	233,962					-						_	+	-		+			+	+				+	+
5/5/94	Med	AO 178	CG 69					206,850	1,134	<u> </u>												1											
3/6/94	Med	AO 178					L	107,982	1,806																								<b>-</b>
5/6/94 5/6/94	Med Med	AO 178 AO 178	CG 26 FFG 52		+	8	ļ	106,596 32,382	11,424		<del></del>	-+	_																				
5/6/94	Med	AO 178	LSD 37		8			215,489	,													İ											
5/6/94 5/9/94	Med Med	AO 178 AO 178	2 Fgn SCs DD 974		<del> </del> -	<del> </del>		97,848 40,366		ļ	-	-									-	<del> </del>	<del>  </del>	-									
																-l							L			L					LL		
5/9/94 5/9/94	Med Med	AO 178 AO 178	CG 58		12	-		125,038 52,965	8,053	<del> </del>	<del>                                     </del>				+	+	<u> </u>		-		-	-	-										+
5/10/96	Med	AO 178	6 Fgn SCs			0.50		165,033																									
5/12/94 5/12/94	Med Med	AE 34 AE 34	CG 58 CGN 25			9 lifts 2 lifts		·			╁╌┼				+-	++						<del> </del>	<del>  </del>	-		-	-	-	<del></del>			+	+
5/14/94 5/14/94	Med Med	AO 178 AO 178	DD 968			2		104,286	3,990												<b>_</b>												
5/14/94	Med	AO 178	CG 26 CV 60		14		<del>                                     </del>	129,318 93,993	5,880							+-+					+	<u> </u>										+	+-+
5/14/94 5/15/94	Med Med	AO 178 AO 178	2 Fgn SCs CV 60		95			102,186 508,200	768,054		$\Box$																						
3/13/94	Med	AO 178	2 Fgn SCs		30			46,494																							<del> </del>	-	-
5/16/94 5/16/94	Med Med	AO 178 AO 178	LPH 12 LST 1192			16		152,177 101,580	90,827		$\vdash$										4			-									<b>_</b>
5/16/94	Med	AO 178	LPD 14			29		181,128																									
5/17/96 5/18/94	Med Med	AO 178 AO 178	3 Fgn SCs DD 968	-	<del> </del>	-		150,780 128,982	2,688		-				_					_	-												+
5/18/94 5/18/94	Med Med	AO 178 AO 178	FFG 52					53,718	6,426																								
5/19/94	Med	AO 178	CG 69 CV 60		+	1 1		143,430 422,104	4,326 361,791							+				-+-	+	<del> </del>								+ +		+	+
5/19/94	Med	AE 34	TAFS 8			95 lifts																											
5/25/94	Med		NSA Naples			16 lifts																L											Т
5/29/94	Med	AE 34	CG 69			7 lifts	·	214,556		<u> </u>						II				<u> </u>	1					I	1						
6/2/94	Med	AO 178			60			775,362	211,302																								
6/5/94	Med Med	AO 178 AE 34	DD 979			12				6 lifts/3,9 tons	1				-	+			_	-	+	ļ		$\dashv$									
6/6/94 6/6/94	Med Med	AO 178 AO 178	CV 60		4			444,654 35,952	563,346																								
								35,932		1												1	L	1				L	l		I		
6/19/94	Med Med	AOR 6						30,000	9,100 644,000					-food -food										5									1
6/21/94	Med	AOR 6	CG 51					147,000	3,300				- 1 33	1000							1												
6/24/96	Med Med	AOR 6 AOR 6	7 Fgn SCs CG 56			1		131,700 150,000	10,900				22-	-food	-	1						<del> </del>		6									<del> </del>
6/25/94	Med	AOR 6	Span. SC			<b></b>		68,500	,																								
6/26/94 6/26/94	Med Med	AOR 6 AE 28	CVN 73 CG 56		<del>  x</del>			544,000							<del></del>	+-+			-+		+			17		-	-					+	-
6/26/94 6/27/94	Med Med	AE 28 AOR 6	FFG 39 AE 28		X			101,900	4,500											-													
6/27/94	Med	AOR 6	DD 989					237,000	7,500				28-	-food					-	-	+			4								+	+
7/6/94 7/8/94	Med Med	AOR 6	CG 51 DD 989					86,000 70,800	4,200 1,600		$\vdash$				-	1					<del></del>			+									
7/8/94	Med	AOR 6	CVN 73						461,000																								
7/22/94	Med Med	AOR 6 AOR 6	AE 28 CVN 73	-				43,000	9,100 440,000		$\vdash$		-		-					-				+				+					
8/4/94	Med	AOR 6	FFG 32					66,900		6				food			-				-		2	10								1	
8/4/94 8/5/94	Med Med	AOR 6 AOR 6	CG 55 CVN 73					169,000	6,400 676,000					-food -food	$\pm$						+	<del></del>	4	+ +		+		+	-	+ +		+	+
8/8/94 8/9/94	Med Med	AOR 6 AOR 6	AE 28 CVN 73					193,000	5,800 541,000						1						T												
9/7/74	Med	AOR 6	CG 56					119,000	341,000										=			<u> </u>											
8/16/94	Med Med	AOR 6	DDG 52 TAFS 6		+	<u> </u>		55,000 55,000			H				-	$+ \top$			-		+		1	4								$\mp$	+
8/17/94	Med	AOR 6	CVN 73		1				182,000												_												
8/18/94 8/24/94	Med Med	AOR 6 AOR 6	FFG 39		ļ		-	72,000 37,000	8,900 2,400			-	11-	-food		┼──┼					+	-	2	3									+
8/25/94	Med	AOR 6	CVN 73						472,000																								
8/25/94 · 9/2/94	Med CentCom	AOR 6 AOR 6	CG 51 TAFS 1					147,000 129,000				-+	-		+-	+		-	$\dashv$		+			+ +								+	+
9/2/94 9/3/94	CentCom	AE 28	PFG 39						970.000												1_			1									
9/3/94	CentCom CentCom	AOR 6 AOR 6	CVN 73 CG 51					228,000	870,000 4,900							1					_		3	1			_	+	_	+	+	+	+
9/3/94 9/4/94	CentCom CentCom	AE 28 AOR 6	DDG 52 DD 964					221,000																$\Box$						1			
9/9/94	CentCom	AOR 6	CG 51					163,000	9,000 9,600																					+		<del></del>	<del> </del>
9/9/94 9/10/94	CentCom CentCom	AOR 6 AOR 6	CVN 73 DD 966					106,000	1,100,000 7,100		<b>. T</b>													1						1			
9/15/94	CentCom	AOR 6	DD 966					110,000	4,700				12-	food									3										
9/15/94 9/16/94	CentCom CentCom	AOR 6	CG 51 FFG 30					107,000 63,000	500		$\vdash T$	$-\mathbb{F}$	$ \Gamma$			$\vdash$					+			4			-			$+\Box$			
9/18/94	CentCom	AOR 6	CVN 73						628,000					food							1												
9/18/94	CentCom	AOR 6	CG 51			1		87,000	3,200		$\Box T$		22-	food							]			6								T	

Date Le	ocation Source/	CLF Customer	Start	Finish	CONRE	P VERTR	EP INRE	P DFM (gallon	s) JP-5	Ammo	Pax	Carg	o Plastic	Flt Frt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy D	ry FPV	/ Chill	Freeze	Fill	AO	Hazmat	Retro	JETE M	sc Q-co	og Mail
	ship		ļ	<u> </u>				-	- C-1			<u> </u>	Retro			Qcog/Fil		L.,		Dairy		Dry				Dkld			car	go	
4			1	J					Gal	Pal		Pal	Pal	Pai	Pal	Pai	Pal	Pal	Pal Ber	Pal   eipts —		al Pal	Pal	Pai	Pal	Pal	Pal	Pal	Pal P	at Pal	Pounds
4/22/94	Med Sigonel	la AE 34	<u></u>		<u> </u>			T		I					I	Ι		I				T	1	Γ	T-	1	T	r 1	3 (i	fts	
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5/5/94	V-2   1	D 1 1 2 2 4		т		···		T 004 000		1000																					
	Med Augusta Med AO 17	Bay AE 34 8 DD 968						391,800		335 lifts /89.3 tons		+	+		<del>                                     </del>		-				-	-	-						20 1	ifts	-
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	Med Souda B Med AO 17		1	-	-	<del> </del>	+			493 lifts /398.5 ton	s	-		-			ļ					$\Box$			Ţ				171	fts	1
									-1	100000				-1	•	<del></del>	-l	I	LL	!	- 1			<u></u>		<b>.</b>	<u> </u>	L1			
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5/20/94	Med Augusta I	Bay AE 34		Γ		1	1	215,500	7	183 lifts	<del>-</del>	Т	1	т			1						7		<del></del>				Look	ea l	
5/25/94	Med AE 34	NSA Naples		l					<u> </u>	/89.3 tons				<u> </u>	<u> </u>	İ						上							20 li	its	
6/1/94	Med Augusta F	Bay AE 34			T	1		325,516	8,126	I		T		I								Ι				T		-	27 li	ts	$\overline{}$
	Med CV 60						I		I	225 lifts		T	T	T	T		1 1					<b>T</b>	1 1		T 1						
6/5/94	Med AO 178	TAFS 8			<u> </u>				1	/89 tons		T																		1	
6/1/94	Med NavStaRe	ota AE 34						98,709	I	20 lifts			<u> </u>	1	Ι		T						T		Г Т			- 1	23 lit	ts	Т
6/20/94	Med AOR 6	CVN 73			1	1	<b>-</b>	T	1	1	Т	1	T	T	1		1 1						1						1 2 2	<u> </u>	<del></del>
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6/25/94	Med AOR 6	CG 56			<u> </u>	<u> </u>		]	1	1		I								1			ПТ			Т		3		-T	
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8/5/94	AOR 6	CVN 73			Τ	Т	1	1	T	Т		1	T	T			<del>                                     </del>		J				1 1					44 1"			
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8/16/94	Med AOR 6	TAFS 6			1	1	T	Τ	T	т —	1	1	T			<del></del>		1	1	<del></del>	1	т	1						7		
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222					·	<del></del>	_		·																						
9/3/94 Cen	tCom AOR 6	CG 51	L		1	l		1	L			L		L										I				6			
													*																		
9/18/94 Cen	tCom AOR 6	CVN 73	1				I			Ι		<u> </u>	L					T				T 1		I			<del></del>	6		T	
																														4	

Date Location Source/CLF Customer Start Finish CONREP VERTREP	INREP DFM JP-	5 Ammo Pa	x Freeze Food C	Chill Dry Chill Dair	ry FFV/ chill	chill ffv Other S	oda Fit Frt - Fit	AO fittit/	Hull Hull	Fifl Pot-	ETE Retro	Q-Cog Nit	ro Lube A/C	Mail NRFI/
ship				FFV	FFV	y stores stores	Frt/Qc		DKLD		and keyo	Q-Cog   .vii	Oil Engin	
	Gal Ga	Pal	Pal Loads	Pal Pal Pal Pal	Pal Pal	Loads Loads I	al Pal Pal	Pai Pal	Pal Pal	Pal Gal	Pai Pai	Pai Pa		Pounds Pal
9/21/94   CentCom   AOR 6   CG 51	101 000   0 50						Deliveries							
9/22/94 CentCom AOR 6 TAFS 1	101,000 2,50 103,000 4,70						<del></del>							
9/27/94	27,000 46,000 1,40	0												
10/6/94 Med AOR 6 CVN 73	48,000 1,40 824,0		49	-food	+				7					I
10/6/94 Med AOR 6 CG 56	102,000 9,20	0												
10/13/94   CentCom   AOR 6   CG 56   3   3														
10/13/94	55,000 4,40 85,000	0	14	-food			×							
10/27/94   CentCom   AOR 6   Fgn SC     10/29/94   CentCom   AOR 6   CG 56	27,000												+	
	232,000 10,50	00												
10/22/94 Med AOE-4 CG 68 1 10/23/94 Med AOE-4 DDG 993	80,959 98,897												T	
10/23/94 Med AOE-4 FFG 42	32,281 4,04	0	<del> </del>				1							
10/23/94 Med AOE-4 DD 969 1 10/23/94 Med AOE-4 FFG 49	96,696 2,29 30,118 2,96													
10/23/94 Med AOE-4 CG 71	112,405												<del>  </del>	
10/25/94 Med AOE-4 LSD 44 10/25/94 Med AOE-4 LIAA 4 11	106,012 2,74 349,230	7	<del>          </del>											
10/25/94 Med AOE-4 LPD 15 2 10/26/94 Med AOE-4 DDG 993	125,118												<del>                                     </del>	+ + -
10/26/94 Med AOE-4 FFG 42 1	122,514 60,262		+++		<del>                                     </del>	+			-					
10/26/94 Med AOE-4 DD 969 10/26/94 Med AOE-4 FFG 49	69,846 3,13												<u> </u>	+
10/26/94 Med AOE-4 CG 71 5 1	120,540	3			+ + -			+++	+					
10/30/94 Med AOE-4 DDG 993 3 10/30/94 Med AOE-4 FFG 42	104,126 62,783 6,80	0												
10/30/94 Med AOE-4 DD 969	106,663 2,92	Ö						<del>-  -</del>	+	<del></del>			+	+
10/30/94 Med AOE-4 FFG 49 10/30/94 Med AOE-4 CG 71	67,451 3,91 117,777 5,86				-									
		×												
11/2/94 Med AOE-4 LHA-4	110,263 512,250 111,7	21	<del>  </del>			1							J	
11/2/94 Med AOE-4 FFG 49 11/2/94 Med AOE-4 DD 969	36,130 4,18	0											+	+
11/2/94 Med AOE-4 FFG-42	75,047 4,300 31,184		+	<del></del>	-	<del>                                     </del>								
11/2/94 Med AOE-4 LPD 15 11/2/94 Med AOE-4 CG 71	213,079 77,916													
11/2/94 Med AOE-4 DDG 993	84,278							<del>                                     </del>		· -				
11/6/94 Med AOE-4 CVN 73 33			T T	r r r	T		1 1		1					<u> </u>
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11/14/94	197,412 12,35	8			T	1 1 1 1							<del></del>	<del></del>
11/17/94   CentCom   AOE-4   Fgn SC	62,655	91												
11/30/94 CentCom AOE-4 CG 68 5				·		<del></del>								
11/30/94 CentCom AOB-4 FFG 60 2	211,449 15,70 61,532 4,550	)	+	<del>-     -   -  </del>		1 1	<del></del>							
11/30/94	1,291,6	79												
12/5/94 CentCom AOE-4 CG 68 3	143,855									T	<del></del>		T	1 1
12/5/94   CentCom   AOE-4   CVN 69   45	894,89	91	<del>                                     </del>		+									
12/6/94	254,574 8,990												+	1
	31,684 4,480	' <u> </u>				<u> </u>								
12/1/94   CentCom   AOE-4   DD 971   33	242,361 9,643 79,002 4,822			- $+$ $  +$ $  +$ $  +$ $  +$ $            -$										
12/8/94 CentCom AOE-4 Fgn SC	31,702								<del></del>		-		<del>                                     </del>	+
12/8/94         CentCom         AOE-4         FFG 33         20           12/8/94         CentCom         AOE-4         FFG 48         14	116,638 7,581	<u> </u>												
12/10/94 CentCom AOE-4 TAO 193 128													<del>                                     </del>	
12/12/94   CentCom   AOE-4   Djibouti   4 12/15/94   Med   AOE-4   FFG 32	76,733		<del>                                     </del>		<del> </del>									
12/13/94 Med AOE-4 CG 55 12/18/94 Med AOE-4 FFG 32	368,405 5,440	)												
12/19/94 Med AOE-4 CG 55	36,964 120,115				<del>                                     </del>	<del>                                     </del>		<del></del>						
12/30/94 Med AOE-4 DDG 993	169,368				11								.LL.	
02/22/94 WestPac AOE 2 CG 54 X	207,392 13,83										+		<del>    -   -   -   -   -   -   -   -   -  </del>	<del>                                     </del>
02/22/94         WestPac         AOE 2         CGN 41         X           02/25/94         WestPac         AOE 2         CG 54         X	4,284 130,689 5,754		<del>                                     </del>											
03/03/94   WestPac   AOE 2   CVN 70   X	640,69				T	<del></del>	<del></del>						<u> </u>	
03/05/94 WestPac AOE 2 CG 54 5	215,376 9,525						-	+	+	<del>-    </del>				
03/05/94 WestPac AOE 2 FFG 57 X	90,247													
03/09/94 WestPac AOE 2 FFG 57 X	74,379 8,774										·		<del>-</del>	
03/09/94 WestPac AOE 2 CG 54 X 03/11/94 WestPac AOE 2 FFG 57 X	148,496 2,744 34,290							T   -						
03/11/94 WestPac AOE 2 CG 54 X	93,123 2,239								<del>                                     </del>		+	+	<del>  </del>	<del>                                     </del>
03/17/94         WestPac         AOE 2         FFG 57         X           03/17/94         WestPac         AOE 2         CG 54         X	44,976 4,333 122,703 1,671		<del>  </del>											
03/17/94 WestPac AOE 2 CVN 70 X	956,28											<del></del> -		<del>                                     </del>

Date I	Location Sour	rcc/CLF Cus	tomer Start	Finish CO	NREP VE	RTREP INR	EP DFM (galle	ons) JP-5	Ammo	Pax C	argo Plast	ic Flt Frt	Plastic Fit	Frt Qcog	SODA HULI	L FFV/	Dairy Dry	FFV Chi	Il Freeze	Fill A	O Hazma	at Retro	JETE N	Misc Q-cog	Mail
		ship						Gal	Pai		Retr Pal Pal	o etc Pal	etc. Qco	g/Fill al Pal	Pal Pal	Dairy Pal	Pal Pal	Dry Pal Pal	Pal	Dk Pal Pa	al Pal	Pal	c Pal	argo Pal Pal	Pounds
4															f										<b>-</b>
		,																							•
10/6/94	Med A	OR 6 CV	N 73																			8			
10/8/94 10/8/94			OR 6				91,000 50,400																T		
10/13/94 C	CentCom A		G 56																1			1			
11/3/94	CentCom T	TAO AO	DR 6	,			1,500,00	<del>2 1 </del>						<del></del>		, ,									
11374   0	concom 1 1	IAO   AC	,		<u>-</u>		1 1,500,00	<u> </u>		<u> </u>	<u> </u>					<u> </u>			_l		_1				
11/1/94	Med A	E 24 AC	)E-4	1			L	T	1														· ·	40	
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			164 164				2,461,62	0 1,451,856															lF	11	
11/25/94 C	CentCom   Duba	ai, UAE AC	E-4			T	841,634	904,276	L			Т										1			
12/1/94 C	PentCom   Duba	ai,UAE   AC	6-4	<u>l</u> _			630,716	1,330,187	1	11										1.					
12/7/94 C	CentCom Duba	ai,UAE AO	E-4					1,841,421											<del>                                     </del>				Г	<del>- 1 - 1</del>	
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12/20/94	Mcd Auon	ıstaBav AO	E-4			<del></del> 1	1 442 30	7 34 734	Т	<del>                                     </del>		1 1	ı	1 1			<del>- , - ,</del>	1	,	<del></del>			1	40 1	
12/20/94	Med Augu	istaBay AO	E-4				1,442,397	34,734	I		T		1								1		1	10	
									<u> </u>				1						LI				1	10	
	Med Augu						1,442,397																1	10	
02/27/94 \ \\	WestPac P.H.	Iarbor AO	E 2				1,352,447																1	10	
02/27/94 \ \\		Iarbor AO	E 2				1,352,447																	10	
02/27/94 W	WestPac P.H.	Iarbor AO	E 2				1,352,447																1	10	
02/27/94 \ \\	WestPac P.H.	Iarbor AO	E 2				1,352,447																	10	

Date	Loca	ation So	wrce/ CLF	Customer	Start	l'inish	CONREP	VERTREP	INREP	DFM	JP-5	Ammo	Pax Fr	ceze Foo	d Chill	Dry Chil	// Dairy	FFV/	chill  chill/1	ifv Other	Soda	Flt Frt   Flt	AO	fltfrt/ H	ıll Hull/	Fill	Pot- JE	E Retro	O-Cor	Nitro I	ube A/C	Mail	NRI-I/
	<u> </u>		ship													FFV		Dairy	FFV/ Dairy store			Frt/Qcc	g/lF DKLD	dkld	DKLD		Water			l i	Oil Engines		DLRs
4				L				1	<u> </u>	Gal	Gal	Pal	<u></u>	Pal Loa	is Pai	Pal Pal	Pal	Pai	Pal Load	s Loads	Pal Delive		Pal	Pal P	al Pal	Pal	Gal Pa	l Pal	Pal	Pal	Pal	Pounds	Pal
03/25/94			AOE 2	CGN 41				1			<u> </u>				T					7	1 1	1					T T		1				<b>—</b>
03/26/94 03/26/94	Wes		AOE 2	FFG 57 CG 54			1 X	ļ		46,834 193,253	4,426 5,481																		<b>-</b>			1	
03/26/94 03/27/94	_		AOE 2	CVN 70 FFG 57			X			18,700	644,156	ļ																					
04/06/94	West	tPac	AOE 2	CG 54			Х			169,616	5,489										$\pm \pm \pm$				+	-	<del>  </del>		<del> </del>	$\vdash$		<del> </del>	
04/06/94	West	tPac	AOE 2	FFG 57	L		X	1 1		75,337	1		<u> </u>			I. I.																	
04/09/94	West		AOE 2 AOE 2	FFG 57 CG 54			X			36,247 53,363	8,412 2,165									Ŧ									Ţ				
04/12/94	West	tPac	AOE 2	CG 54						84,970	2,387																		+	$\vdash$			
04/12/94 04/16/94	West		AOE 2	FFG 57 CG 54			X	20		42,837 121,453	4,875		+	-			+			+	++							-					
04/16/94	West Cent(		AOE 2 AOE 2	FFG 57 CVN 70			X	12		60,436	7,778 532,644																						
04/17/94 04/19/94	Cent	Com	AOE 2 AOE 2	CGN 41 DD 992				8		074.005																			$\perp$				
04/19/94	Cent	Com	AOE 2	DD 972			X	2 4		274,835 147,532	11,475 7,932		$\vdash$			1	+			+	╁┼							-	<del> </del>	-			
04/19/94	Cent	Com	AOE 2	Fgn SC			X	L	L	61,559	1,850									1	LL			I									
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Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP I	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Fit Frt	Plastic	Flt Frt	Qcog	SODA	HULL	l'FV/	Dairy	Dry	IFV C	hill Fr	eeze F		O Hazmat	Retro	JETE	Misc	Q-cog	Mail
	<u> </u>	snip								Gal	Pal		Pal	Pal	etc Pal	etc. Pal	Qcog/Fill Pal	Pai	Pal	Pal	Pai	Pal	Pal	Dry Pal 1	Pal I	Pai P	Dk al Pa	id Pal	Pal	Pal	eargo Pal	Pal P	ounds
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04/20/94	CentCom Jet	xel Ali AOE 2		632,627	593,411						
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Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Fnt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV (	Chill	Freeze	Fill	AO	Hazmat	Retro	JETE	Misc	Q-cog	Mail
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Oct   Oct	3/27/96	CentCom	AO 179									+-+					-	+	-	-		+	+		+						+	$ \bot$	
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Section   Sect	4/2/96	CentCom	AO 179	AE 34	10:22 12:47	7 :	X															<u> </u>							$\overline{}$		+-+		
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A	4/11/96	CentCom	AO 179	FFG 60	07:15 08:51										+ +	_		++			+	<del>                                     </del>	+		<del> </del>		+			+	<del>                                     </del>		
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ADDRESS   CARCON   ADDRESS   ADDR	4/17/96	CentCom	AO 179	CG 56	09:30 10:20	) )				4,291 .		<del>                                     </del>			+-+		-	+ +			+	<del>†                                      </del>	12	-	-				-		++		
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All Sept			····				`	<del></del>	111,712	11,0//	L	1 1						JL	!			<u> </u>			LL		L_				<u>i                                     </u>		
1,000   1,00								-	87,585	3,954		$\vdash$	V	20	- <del>,</del>																		
1988   Confect   A0179   Feb   1185   1236   X									209,087	5,938				32	1							<b>†</b>	<del> </del>	-							-	-	<del></del>
1988   Confect   A0179   Feb   1185   1236   X																															·		t
10   10   10   10   10   10   10   10																			T								1	<del></del>			Г	т-	
1,299.0  Centicon   A0   179   CNN 72   041   10   271   X									46,342	7,418		-			- 12						4												
Agree   Carcom   A0 179   CC 56   Po 20   10:23   X   106:577   5:577	4/29/96	CentCom	AO 179	CVN 73	07:10 10:37	>	ζ		773,595						13						+	<del> </del>	<del>  -</del>						+		<del>                                     </del>		
49996   CarClom   A0179   Po 973   18-30   30-41   X   95-39   4-99									106 207	5 572		$\vdash \vdash$											9										
\$19.96   CestCom   AO   179   AE   14   15   10   10   10   10   10   10   10	4/29/96	CentCom	AO 179	DD 973	18:30 20:41	>															+	1	<del>                                     </del>								$\vdash$		
S1996   CentCom   A0 179   AE 34   88.00   10.20   X   213.21   15.99   X   7   X		· <del></del>							5,010				v	10	1,1						1												
Stiff-66   Med   A0179   A814   990   1135   X   990,365   133,062	5/3/96	CentCom		AE 34	08:00 10:20	>			212,321							-		<del> </del>			<del> </del>	<del> </del>			-								
St1596   Med   AO179   CVX73   Os09   Io241   X   X   S99.229   X   X   S1596   Med   AO179   CVX73   Os09   Io345   X   S1596   Med   AO179   CVX73   Os09   Io345   X   S1596   Med   AO179   CVX73   Os09   Io345   X   S1596   Med   AO179   AE34   Or09   Os155   X   S1596   Med   AO179   FO 39   Os150   AO179   AE34   Os150   AO179   AO														1																			
Sti-1596   Med   A0 179   CV 173   60,30   10/45   X   181,946   X   181,946   X   181,946   X   181,946   X   181,946   X   X   181,946   X   X   181,946   X   X   X   X   X   X   X   X   X	<del></del>	Med							204,363					+	++			+	+			-	<del>  </del> -								$\vdash \vdash$		
String   Med   A0179   FG 99   03.00   08.15   X   95.083   String   Stri				CVN 73	06:30 10:45		X	T	101.077						Х						1		17										
S72096   Med   A0 179   FFG 39   0.90   0.94.0   X   3.8.776   2.813   X   3.8.776   3.8								+		2,813		+-+		+	+	+					+		<del>                                     </del>										
S72996   Med   AE 34   DDG 58	5/20/96	Med	AO 179	FFG 39	08:30 09:40	Х				2,813																							
572396   Med   AC 179   TAPS 6   07:00   08:15   X   173.753   X   185.515   X   185					10:00   12:43			+	165,000			┝╌┼╴	X	24	-		_	<del>                                     </del>		<u> </u>													
\$72696   Med   \$\text{AO 179}   LPD 14   09:00   11:20   X   136,515	5/22/96	Med	AE 34	FFG 39		Х			60,000					1																			
S72696   Med   AO 179   LSD 46   13:00   14:30   X   135,797														1	+								<u> </u>										
S726/96   Med   AO 179   LPD 14   16:04   17:08   X   X   X   X   X   X   X   X   X	5/26/96	Med	AO 179	LSD-46	13:00 14:30	X															$\pm -$		<del>                                     </del>	+	-+	<del></del>			-	_			
5/26/96   Med   AO 179   LSD 46   16:04   17:08   X								+	ļ -			$\Box$	Х	25										Х									
5/28/96         Med         AE 34         DDG 52         X         Inches 100 (16/96)         X <td>5/26/96</td> <td>Med</td> <td>AO 179</td> <td>LSD 46</td> <td></td> <td>+</td> <td><del>                                     </del></td> <td></td> <td>- X</td> <td>+</td> <td>-</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td>	5/26/96	Med	AO 179	LSD 46													+	<del>                                     </del>		- X	+	-	10					+					
6/3/96 Med AE 34 CVN 73 X X 40 40 40 5 5 6/12/96 Med AO 179 CVN 73 07:00 11:41 X 5 5 10.82.523 5 39 5 5 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				DDG 52		Х			100.111		X			1	$\bot$						ļ												
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6/13/96 Med AO 179 CG 56 09:45 11:20 X 304,580 7,423			AO 179	CVN 73		X				1,082,523					39						1		х										
6/16/96 Med AO 179 Fgn SC 07:57 08:52 X 23.916 6/16/96 Med AO 179 Fgn SC 09:10 09:57 X 44.112 6/16/96 Med AO 179 Fgn SC 11:00 11:45 X 34.863								-		7,423		$\vdash$		+	++			<del>                                     </del>		_	-	ļ	$-\Gamma$										
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Date	Location	Source/ CLF	Customer	Start	Pinish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Fn	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV C	ı llin	Freeze	Fill	AO H	azmat	Retro	JETE	Misc	Q-cog	Maıl
		ship												Retro	etc	etc.	Qcog/Fill				Dairy			Dry		1	1	Okid				cargo		
	J						<u> </u>	<u> </u>	<u> </u>	Gal	Pal		Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal P	al	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pou
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4/96	Med	AO 179	CVN 73	111-11	13:32	x			тт		T				1		2			1 1		· · · · · · · · · · · · · · · · · · ·	т									·		1

3/23/96         CentCom         TAFS 8         AO 179         10:05         10:45         X           3/23/96         CentCom         TAFS 8         AO 179         14:16         15:30	x	38 42	
3/25/96   CentCom   AO 179   CVN 73   07:50   10:54   X		2	
3/29/96   CentCom   AO 179   CVN 73   09:56   11:38   X		1 18	
	<del></del>	 	
4/2/96         CentCom         AO 179         CVN 73         08:10         09:49         X           4/2/96         CentCom         AO 179         CG 56         08:27         09:51         X			8 3
4/2/96   CentCom   AO 179   AE 34   14:10   15:27   X			8
4/5/96   CentCom   TAFS 8   AO 179   12:47   13:52	X		16
4/9/96   CentCom   TAO 202   AO 179   X			24
4/17/96   CentCom   AO 179   CVN 73   09:00   12:25   X		9	
4/17/96   CentCom   AE 34   AO 179   20:00   21:07	X		9

 4/21/96
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6/3/96	Med	AE 34	CVN 73			Х			60	Τ						 T	Τ	Γ.			Τ	$\overline{}$	
6/12/96	Med	AO 179	CVN 73	07:00	11:41	X			1						 $\neg$	 1			1	15	<del></del>		+

Date Location Source/CLF Customer Start Finish CONREP	VERTREP INREP DFM	JP-5 Ammo Pax	Freeze Fo	od Chill	Dry Chill	/ Dairy FFV/		ifv Other S	oda Flt Frt		AO flifi	1/ Hull Hull/	Fill	Pot- JET	E Retro	Q-Cog	Nitro Lube	A/C	Mail	NRFI/
ship					FFV		FFV/ Dairy stor				DKLD dkl			Water			Oil	Engines		DLRs
4-	Gal	Gal Pal	Pai   Loa	ds Pai	Pal   Pal	Pal Pal	Pai Loa		Pal   Pal Deliveries —	Pal	Pal Pa	Pal Pai	Pal	Gal Pal	Pal	Pal	Pal Pal	P	Pounds	Pal
6/16/96 Med AO 179 Fgn SC 15:30 16:23 X	39,931				I					L					T					
6/19/96 Med AO 179 FFG 58 07:52 08:17 X	34,993	3,145				T	I I			T		T-7			1					
6/19/96 Med AO 179 Fgn SC 08:40 09:26 X 6/19/96 Med AO 179 Fgn SC 08:51 09:39 X	11,957 38,640																			二
6/19/96 Med AO 179 Fgn SC 10:04 11:30 X 6/21/96 Med AO 179 LSD 46 06:45 10:42 X	78.97I 115,854	2,245																		
6/25/96 Med AO 179 CG 56 13:00 15:10 X	142,082	5,938													-	+			-+	
6/25/96 Med AO 179 CG 56 19:11 20:59 6/25/96 Med AE 34 DD 968 X	X 45,000		X	+							11								_	
6/25/96 Med AE 34 DDG 55 X 6/26/96 Med AO 179 DDG 52 07:55 08:53 X	130,000 124,320																			
6/26/96 Med AO 179 Fgn SC 13:15 14:59 X	62,030																		$\pm$	
6/26/96 Med AO 179 DDG 55 16:40 18:02 X	25,359 51,140				_			+-+	_		$\dashv$				<del> </del>					
6/26/96 Med AO 179 CVN 73 21:35 01:10 X 6/26/96 Med AO 179 AE 34 21:55 01:31 X	297,944	1,324,057 9,363							13											二
6/28/96 Med AO 179 LPD 14 17:15 21:42 X 6/29/96 Med AO 179 DDG 55 08:23 09:42 X	263,323 93,467		X	95					х											
6/29/96 Med AO 179 DD 968 10:03 11:15 X	116,839	10,392	Х	13							4		X		+		+			
6/29/96 Med AO 179 Fgn SC 12:00 12:57 X 6/29/96 Med AO 179 Fgn SC 13:26 14:16 X	37,792 26,581			1		<del></del>				<b>-</b> -		+				+			<del></del>	$\Box$
6/29/96 Mcd AO 179 TAK 3006 15:17 17:41 X 6/30/96 Med AO 179 CVN 73 08:45 11:33	398,355 X				x	73									1				二	
6/30/96 Med AO 179 DDG 52 08:45 11:33	Х					13			х				3						$\pm$	
6/30/96 Med AO 179 DDG 52 09:15 10:08 X	X 157,923												+			$\vdash$				
7/1/96 Med AO 179 DDG 55 12:21 13:32 X 7/1/96 Med AO 179 DD 968 14:53 15:41 X	59,652 70,469	1,485			4															
7/2/96 Med AO 179 DD 979 14:21 16:02 X 7/2/96 Med AO 179 DD 979 13:24 14:11	224,232 X				_										1			士		
7/2/96 Med AE 34 DDG 52 X	165,000												2				$\rightarrow$		$\overline{}$	-
7/10/96 Med AO 179 DD 979 10:35 13:10 X 7/10/96 Med AE 34 AOE 6	X 114,191	120		1				+ +												
7/11/96 Eastlant AO 179 AE 34 15:00 17:04 7/13/96 Eastlant AO 179 CVN 73 06:30 12:05	X X					113			x		8									
7/13/96 Eastlant AO 179 CG 56 06:29 07:33 X 7/13/96 Eastlant AO 179 FFG 58 06:45 07:36 X	52,832 54,835	7,239																		
7/13/96 Eastlant AO 179 DD 968 08:26 09:32 X	117,140	9,052						+							1	├	_		+	
7/13/96 Eastlant AO 179 DDG 52 09:14 09:58 X 7/13/96 Eastlant AO 179 DDG 55 09:45 10:48 X	70,826 115,767	6,591			3												$\Rightarrow$			
7/13/96 Eastlant AO 179 DD 979 10:20 11:27 X 7/13/96 Eastlant AO 179 AE 34 11:25 12:22 X	125,481														1					
7/16/96 Eastlant AO 179 CG 56 12:40 13:45 X	102,118																			
7/16/96 Eastlant AO 179 DDG 55 13:55 14:50 X	113,424 112,140		-									1	-		<del> </del>			-+		
7/16/96 Eastlant AO 179 DD 979 14:10 15:16 X 7/16/96 Eastlant AO 179 DD 968 14:55 16:10 X	111,206	5,196															$\dashv \dashv$			
7/16/96 Eastlant AO 179 FFG 58 15:30 16:14 X 7/16/96 Eastlant AE 34 FFG 58 X	51,387	2,970																		
7/16/96 Eastlant AO 179 AE 34 16:28 17:54 X	147,064																		+	-
7/17/96 CentLant AO 179 CVN 73 09:30 11:14  7/18/96 CentLant AO 179 LPD 14 05:48 07:30 X	X 225,736					29				-										
7/18/96	135.721 58,761																			
7/18/96 CentLant AO 179 LSD 46 08:00 10:30 7/18/96 CentLant AO 179 LSD 37 08:00 10:30	X							1			х		6							
7/18/96 CentLant AO 179 LPH 9 08:00 10:30	Х				х								34		<del> </del>	-	-+-+		_	-
7/18/96   CentLant   AO 179   DD 979   08:00   10:30	X 175,298			-	-+							2								
7/18/96 CentLant AO 179 LPH 9 09:13 10:42 X 7/19/96 WestLant AO 179 DDG 52 12:35 13:30 X	210,027 93,216				$\Box$										1				二	二
7/19/96 WestLant AO 179 DDG 55 12:41 13:46 X 7/19/96 WestLant AO 179 DD 979 13:55 14:55 X	126,730	86,107													<u> </u>		$\pm$	士	士	
7/19/96 WestLant AO 179 DD 968 15:00 16:20 X		95,757																		
7/19/96 WestLant AO 179 FFG 58 14:20 15:35 X 7/19/96 WestLant AO 179 CG 56 15:50 16:41 X	43,032	88,333		+					+	$ \mp$								_	_	$\Box$
7/20/96 WestLant AO 179 LSD 46 06:10 07:31 X 7/20/96 WestLant AO 179 LSD 37 06:15 07:11 X	60,728 89,643																#		二	
7/20/96 WestLant AO 179 LPH 9 07:15 08:45 X	93,027									•									士	
7/22/96 WestLant AO 179 CG 56 05:45 06:34 X	54,413	50,657						+												$\overline{}$
7/22/96 WestLant AO 179 DDG 52 05:49 06:40 X 7/22/96 WestLant AO 179 DD 968 06:47 07:50 X		110,730																		
7/22/96   WestLant   AO 179   DD 979   07:00   07:55   X		84,767															士士	二二		
6/30/96 WestLant AOE 6 DD 977 16:22 17:47 X	84,300	1,000													1					
6/30/96 WestLant AOE 6 FFG 42 16:31 17:32 X 6/30/96 WestLant AOE 6 FFG 42 17:25 20:50	37,200 X	1,000						-			1		-		<del>                                     </del>					
6/30/96 WestLant AOE 6 FFG 49 17:37 19:14 X 6/30/96 WestLant AOE 6 FFG 49 17:25 20:50	39,000 X							T				2								$\Box$
7/2/96 WestLant AOE 6 CG 58 18:55 20:16 X	190,000	3,000															++			
7/2/96 WestLant AOE 6 CG 64 20:46 22:22 X	X 218,800	8,300				4											+		<u>_</u>	$\overline{}$
7/3/96 WestLant AOE 6 DD 977 18:01 19:40 X 7/3/96 WestLant AOE 6 FPG 42 19:31 20:27 X	93,500 25,600	3,300 5,000		<del>                                     </del>	-												<del></del>		#	
7/3/96 WestLant AOE 6 FFG 49 20:10 22:15 X 7/5/96 WestLant AOE 6 CG 58 17:50 19:37 X	26,400 77,000	10,000															##		二	
10120   HOREAGE   MOE O   CO 36   17/30   19:37   X	1 1 //,000	1,000						1 1							L					

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Fit Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV C	hill F	reeze Fil	I AO	Hazmat	Retro	JETE	Misc	Q-cog	Mari
		ship												Retro	ctc	etc.	Qcog/Fill			l	Dairy			Dry			Dkle	,			cargo		
		<u> </u>			L	1				Gal	Pal		Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pai	Pal	Pal	Pal	Pal I	Pal Pal	Pal Pa	Pal	Pai	Pai	Pal	Pal	Pal	Pounds
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6/18/96	Mad	TAO 198	AF 34	· · · · · · · · · · · · · · · · · · ·		T V	<del></del>		200,000				·	· · · · ·			т	,														_	

7/16/96 Eastlant AE 34 FFG 58 X 3

Date	Location	Source/ Cl.	Customer	Start Finish	CONREP	VERTREP	INREP	DFM	JP-š	Ammo	Pax	Freeze	Food	Chill	Dry Ch	ill/ Dairy	[FV/		hill/ ffv Oth	er Soda	Flt Frt	Fit	AO fith	t/ Hull H	ıll/ Fill	Pot-	JETE	Retro	Q-Cog Ni	tro Lube	A/C	Mail N	IRFI/
		ship													FF		Dairy	FFV/ Dairy	stores stor	es		Frt/Qcog/F	DKLD dki	d DK	LD	Water			2 0 0 0 1 1 1	1 1	Engines		DLRs
4	<u></u>						<u> </u>	Gal	] Gal	Pal		Pal	Loads	Pal	Pal Pa	al Pal	Pal	Pal	Loads Loa			Pal	PaJ Pa	Pal P	al Pal	Gai	Pai	Pal	Pal P	al Pal	Baganes		Pal
7/5/96	WestLant	AOE 6	CG 58	12:55 14:55		X	1		1	т							<u> </u>	1 1		— Deli	veries—											<del></del>	•
7/5/96	WestLant	AOE 6	CG 64	19:14 20:11	X			83,500	1,000									<del>                                     </del>						2		+				-			
7/5/96 7/7/96	WestLant CentLant			12:55 14:55 17:50 18:37		X	+	45,500	<del> </del>	2							<b></b>	-															
7/7/96	CentLant		DD 977	17:55 19:14	X			107,000	6,100													<del>  </del>		<del> </del>	<del>-  </del>	+ +				+			
7/7/96	CentLant CentLant	AOE 6	DD 977 DDG 57			X	+	158,000	3,300	-	+						<u> </u>						1										
7/7/96 7/8/96	CentLant	AOE 6	DDG 57	19:32 20:38		Х		*														<del></del>	-	+-+	<del></del>	+-+		, .					
7/8/96	CentLant CentLant	AOE 6	CVN 65 FFG 49		X		-	56,000	907,700	<del> </del>	┼					-	4														$=\pm$		
7/8/96 7/9/96	CentLant CentLant	AOE 6	FFG 49			X						2			3		2			3			1	+		4.000							
7/9/96	CentLant	AOE 6	LHA 2	11:55 15:20 11:35 13:30		x	-	441,900	297.100	-						-	8	<u> </u>								1							
7/9/96 7/9/96	CentLant Centf_ant	AOE 6	LSD 44	12:18 13:58	X			212,000			<b>T</b>						- "							+ +-		+	+			++			_
7/10/96	EastLant	AOE 6	LPD 4 CG 58	14:26 15:16 04:57 05:32	X	-		325,300 131,400	2,900		+				-																		
7/10/96 7/10/96	EastLant	AOE 6	FFG 49		X			42,100																+	<del></del>	+-+				+	$\rightarrow$		
7/10/96	EastLant EastLant	AOE 6	DDG 57	06:37 07:46 05:49 06:45	X X		-	63,600 65,000	2,000	<del> </del>	+						ļ																
7/10/96 7/11/96	EastLant Med	AOE 6		08:30 09:31	X			30,700	2,000															1		++				+			$\dashv$
7/11/96	Med	AOE 6		08:00 08:46 14:20 19:00	<del>                                     </del>	X X				116	+					-	ļ	-			ļ								1				
7/11/96	Med Med	AOE 6		14:39 16:32	Х			178,000	2,000															-		+	-						$\dashv$
7/12/96	Med	AOE 6		11:35 12:05 12:30 17:00		X X	+	· · · · · ·	<del> </del>	118	+							├								1							
7/12/96 7/12/96	Med Med	AOE 6		15:45 16:34 16:05 16:25	Х			71,600																+		1					<del>-</del>		
7/17/96	Med	TAFS 10		16:05   16:25 08:45   10:00	X	X	+				+				54		<del> </del>	<del> </del>		-									1				二
7/18/96 7/18/96	Med Med	AOE 6	CVN 65 CG 64	07:53 09:51 08:01 10:29	X			246.000	925,000	1							10						2				2	28 bundles		+-+			$\dashv$
7/18/96	Med	AOE 6		17:47 18:46	X		+	246,800 52,100	4,700 4,500	<del> </del>	+	6		1	18	-				8				7		$\bot$							
7/20/96	Med Med	AOE 6		07:43 10:15 09:25 10:50	Х			380.700	33,600																					+-+	-		$\dashv$
7/20/96	Med	AOE 6	DD 977		х	X		143,900	2,900	<del> </del>	+-		+		-		<del> </del>	<del>  </del>		-			3	1		-	-						$\equiv$
7/21/96 7/21/96	Med Med	AOE 6	CG 58 CG 58	08:53 10:02 09:25 10:50	X	X		82,900	4,600			6		1	23		10							2						+-+		-	
7/23/96	Med	AOE 6	CVN 65	11:02   13:07	X	^			1,040,000	<del>                                     </del>			-+			-	10			8		—— <u>-</u>		+	3 (triwalls)	+	1	1 bundles					
7/23/96 7/23/96	Med	AOE 6	CG 64 CG 58		X			159,800 57,100	6,200																3 (u twaiis)			1 bundles			$\rightarrow$		-
7/28/96	Med	AOE 6	TAFS 10	09:46 12:17	X			285,500	1,000		<del>  </del>	4		3	36	+			-	1	18			<del>                                     </del>	3 pits			1 bundles					_
7/28/96 7/28/96	Med Med	AOE 6	DD 977 LSD 44		X		ļ [	97,000 146,900	8,000			6			4					5	2		2	7	3 pits			a bundles		1	2	pallets	$\dashv$
7/28/96	Med	AOE 6	LSD 44	12:58 14:19		X		140,900							<del></del>	+-				+			3	+		+							$\Box$
7/28/96	Med Med	AOE 6	LHA 2 Fgn SC		X			279,700 19,000	101,300 8,100		$\vdash$																						
7/30/96	Med	AOE 6	Fgn SC	13:26 14:40	Х			33,400	3.100		$\vdash$				-	+				+ - 1							-			1			
7/30/96 8/1/96	Med Med	AOE 6	Fgn SC FFG 49		X	<del>                                     </del>	-	41,900			-															7,800							
8/1/96	Med	AOE 6	FFG 49	08:30 10:15		x		11,700		3		6		3	8	<b></b>	-4			3	-		7	+		<del>   </del>				┼			
8/2/96 8/2/96	Med Med	AOE 6	CVN 65 CVN 65		X.	<del>  x</del>			500,000		-			53		ļ	10			57			3										
8/2/96 8/11/96	Med Med	AOE 6	CG 64	07:04 08:34 14:17 16:56				198,000	2,800											37				<del>                                     </del>		┼	-			+ +			
8/11/96	Med	AOE 6		14:17 16:56	X	x	<del>  </del>	403,300	50,000		┼┤					+				36			4										<b>=</b>
8/11/96 8/11/96	Med Med	AOE 6		14:29 15:55 14:15 17:30	X	v		141,700	4,500											130			-							+-+			_
8/11/96	Med	AOE 6	LPD4	16:23 18:22	х	X		327,800	27,700	3	╁─┤				$\dashv$	+				9	<del></del>			-									
8/11/96 8/11/96	Med Med			14:15 17:30 17:24 20:28	x	X		04.500	7.600			11		7	14		1			8										+ +		_	$\dashv$
8/11/96	Med	AOE 6	DDG 57	14:15 17:30		х		94,500	7,600	4	+-+		-+			+				+-+			1 -	<del>                                     </del>						+			$\exists$
8/14/96 8/15/96	Med Med			14:19 17:31 06:56 07:49	X		-	74,900 60,100	7,600			7		3	8					3	5		3	3				4		-			$\dashv$
8/15/96	Med	AOE 6	SBU Mk-5	08:30 09:22	Х			00,100		ı						1				+ +	-			-	<del> </del>	+	_	$ \overline{+}$					$\exists$
8/20/96 8/25/96	Med Med	TAFS 10 AOE 6		15:10 17:10 06:48 08:12	X			270,000	6,800	5		9		3	15						5			29 15					2				_
8/25/96	Med	AOE 6	DDG 57 (	06:55 10:26	х			107,000		3		1		2	-		7			1 4			1	+	<del></del>	4,000		8			-		
8/27/96 8/27/96	Med Med	AOE 6		05:45 10:00	X			66,400	9,800	22	$\vdash$	14		52	_								19	18			34	4 bundles					
8/27/96	Med	AOE 6	FFG 49 (	06:15 07:10		X											3							1	<del></del>	<del>                                     </del>	+		<del> -</del> -	-			_
8/28/96 9/6/96	Med Med	AOE 6	DD 977 (CVN 65 (		X	-		109,700	6,000 986,000	14		9		3	15		4 5			9 2	2 Qcog		3	5				8					
9/6/96	Med	AOE 6	DDG 57	0:15 12:00	Х			175,000	13,500	2					1									14		7800		-		+		<del></del>	
																				-												<del></del>	
9/8/96 9/9/96	Med Med			9:30 14:00 7:53 18:45		X		70.700	7 100	20										59											1	$\overline{}$	$\neg$
9/10/96	Med	AOE 6	CG 64 1	1:58 12:45	Х		<del></del>	70,300 39,500	7.400 2,300		<del>                                     </del>	$\dashv$			-					1				$\vdash$								#	コ
9/10/96 9/14/96	Med Med	AOE 6		3:30 15:44 2:15 13:17	X X							32		4	71									1			$\perp$		2		_+	_	$\dashv$
9/17/96	CentCom	AOE 6	CG 64 2	0:29 21:55	X			194,600 183,000	9,800 2,100				-+		-	+ -				13	<del> -</del>		2	<del>                                     </del>	-		-						コ
	CentCom CentCom	AOE 6		8:09 09:30 7:30 08:00	Х	X		142,300	4,100																		士				_		$\dashv$
9/23/96	CentCom	AOE 6	CG 50 0	9:36 11:17	Х			226,500	6,100			<del></del> +		2		+		-+		+-+				4	-	T	-	-T					7
	CentCom CentCom	AOE 6		8:30 11:30 0:07 11:21	Х	X		112,500	12,000																						11	Pallet	<u> </u>
9/23/96	CentCom	AOE 6	FFG 33 0	8:30 11:30		х														++			-			2500			_			Pallet	_
	CentCom CentCom			1:34 12:54 8:30 11:30	X	x .		170,000	11,600		$\vdash T$		$\Box$							Į.													$\exists$
	1	1	<u>~</u>	1 -1.00	<del></del>	<u></u>						L				1		L		1 1		1	- 1	!l.	.1	ı i	1	1		ı T	4 P	allets	- 1

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV	Chill [	Freeze	Fill	AO E	lazmat	Retro	JETE	Misc	Q-cog	Mail
		ship												Retro	etc	etc.	Qcog/Fill				Dairy			Dry	1	l	l	Dkid				cargo		
	L	<u> </u>		İ	<u> </u>	L				Gal	Pai		Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pai	Pal	Pai	Pal	Pal	Pal   F	ounds
◀																				_ Re	ceipts													

8/20/96 | Med | TAFS 10 | AOE 6 | 15:10 | 17:10 | X | 29 | 5 | 15 | 3 | 9 | 7

9/7/96	Med	AO 186	AOE 6	14:30	18:10	X		1,100,000	301,500			1	1	1	- 55		T		1 2	2 2				- 1	 	 
9/7/96	Med	AO 186	AOE 6	16:55	19:35		Х			6		1	3			87	 	$\rightarrow$		-	┪	+	<del> </del>		 	 $\dashv$

Date Location Source/CLF Customer Start Finish CONREP VERTREF	INREP DFM JP-5	Ammo	Pax Freeze Food	d Chill Dry Chill Dairy	FFV/ chill chill/ffv		Flt AO tltfrt/ Hull Hull/	Fill Pot JETE Retro	o Q-Cog Nitro Lube A/C Mail NRFI/
ship	Gal Gal	Pal	Pal Load	s Pal Pal Pal Pal		stores [[	LL DKLD dkld DKLD Pal Pal Pal Pal	Water Pal Gal Pal Pal	Pal         Pal         Pal         Pal         Pal         Pounds         Pal
						Deliveries ———			1.05.05
9/23/96         CentCom         AOE 6         WHEC 722         12:08         13:15         X           9/26/96         CentCom         TAFS 3         AOE 6         22:53         23:40         X	84.40	10		<del>                                     </del>					
9/30/96	44,500 6,500 153,700 13,60								
10/1/96   CentCom   AOE 6   CVN 70   13:48   16:11   X     10/1/96   CentCom   AOE 6   CVN 70   14:57   15:50   X	1,100.0	000	18	1 26	27 40				
10/1/96	66,600 5,100								
10/5/96 CentCom AOE 6 FFG 33 14:18 15:33 X	71,900 13,500							2500	
10/5/96 CentCom AOE 6 FFG 33 17:30 17:55 X		3							4
10/6/96   CentCom   AOE 6   CG 64   08:39   09:50   X     10/6/96   CentCom   AOE 6   CG 50   16:03   17:19   X	112,100 8,200 139,900 4,100								
10/6/96	61,200	1							
10/6/96   CentCom   AOE 6   F <sub>S</sub> n SC   20:27   21:24   X	54.800 148.000								
10/7/96   CentCom   AOE 6   DD 975   13:00   13:15   X	148,000	1							
10/7/96	69,500 10,400							4000	
10/8/96 CentCom AOE 6 DD 978 13:10 13:30 X	207,200 10,400	2			8				
10/10/96         CentCom         AOE 6         Fgn SC         21:28         22:21         X           10/11/96         CentCom         AOE 6         DD 975         00:13         01:31         X	39.100 132,800 3,300	)							
10/11/96   CentCom   AOE 6   CG 50   08:21   10:20   X   10/11/96   CentCom   AOE 6   TAFS 3   13:01   13:57   X	142,800 6,800	7			2		12		
10/1.4/96   CentCom   AOE 6   DD 978   14:25   15:30   X	84,800 4,200 114,100 8,700								
10/15/96   CentCom   AOE 6   DD 975   14:21   14:50   X	48,300 7,100				3				
10/16/96	84,700 6,600 85,400 2,700							3000	
10/17/96 CentCom AOE 6 DD 978 14:25 14:50 X	85,400 2,700	'					1		
10/17/96								1700	
10/17/96         CentCom         AOE 6         WHEC 722         18:33         19:41         X           10/17/96         CentCom         AOE 6         WHEC 722         16:10         16:40         X	40,500	0	1	3			3 2		
10/20/96   CentCom   AOE 6   CG 64   16:07   18:03   X     10/21/96   CentCom   AOE 6   WHEC 722   07:05   07:45   X	15,700	6	9	8 13	1	10	2		
10/21/96   CentCom   AOE 6   WHEC 722   09:50   10:15   X     10/21/96   CentCom   AOE 6   TAFS 3   08:45   09:00   X				2	5				
10/21/96   CentCom   AOE 6   FFG 29   09:00   09:26   X	104,900 8,700				3				
10/21/96   CentCom   AOE 6   DD 978   11:00   11:40   X	54,800				1		1 4		
10/21/96         CentCom         AOE 6         FFG 33         11:00         11:10         X           10/27/96         CentCom         AOE 6         TAFS 3         14:15         16:45         X	34,000		2	52		24 80		3200	
10/28/96 CentCom AOE 6 TAO 197 08:22 09:53	307,000 200,000	0		11 57		36 72			4
10/30/96 CentCom AOE 6 Fgn SC 10:26 11:48 X	21,100 67,900								
10/31/96 CentCom AOE 6 CVN 65 07:59 11:07 X	6,100	0 1	56	95	l	1 22	3 16		28
10/31/96   CentCom   AOE 6   CVN 65   08:05   10:55   X   10/31/96   CentCom   AOE 6   CG 64   08:15   09:38   X	107.700 6,600		1	103 11 I	40	20	7		
11/6/96	125,800		25						
11/6/96         CentCom         AOE 6         TAFS 3         12:00         15:12         X           11/7/96         CentCom         AOE 6         DD 978         07:28         08:29         X	103,700 3,900			13 35		21 15	17		4
11/1/96   CentCom   AOE 6   DD 978   08:50   09:10   X	28,600 6,800		3	3	4	9	3	- 2	1 .
117/96   CentCom   AOE 6   Fgn SC   10:36   12:40   X     117/96   CentCom   AOE 6   CG 50   11:53   13:20   X	48,700 2,400 151,600 3,700								
1171/96   CentCom   AOE 6   CG 50   10:10   10:55   X     1171/96   CentCom   AOE 6   FFG 29   16:10   17:44   X	29,300 4,300		10	10 8 1 6	3 4	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		
11/7/96 CentCom AOE 6 DD 975 16:39 17:39 X	84,800 5,000			1 0		2	6		1
11/13/96			10	1 11	2	1 29	38		
11/13/96   CentCom   AOE 6   TAFS 8   13:00   16:15   X	1,200,00		73	19	27		38	14	38 38
11/14/96	128,500 12,300	1	9	1 11 29	3		2 2		
11/17/96   CentCom   AOE 6   CG 64   08:10   09:29   X   11/22/96   CentCom   AOE 6   CVN 65   07:01   08:37   X	97,500 5,500 309,000			IL		7	1	3	
11/22/96   CentCom   AOE 6   CG 64   07:22   08:33   X	100,000 12,900	·							
11/23/96   CentCom   AOE 6   Hurgada   13:00   22:07   X					57				
11/24/96 CentCom AOE 6 CVN 65 09:30 11:24 X	X		6		40				
12/1/96 Mcd AOE 6 CG 64 12:03 13:01 X 12/1/96 Mcd AOE 6 CG 64 09:00 14:03 X	120,200								
12/7/96 Med AOE 6 DDG 57 14:25 14:41 X	X		8	2 13 10 2	32 4		3		
12/7/96   Med   AOE 6   FFG 42   14:45   15:00   X     12/8/96   Med   AOE 6   Tafs 8   07:15   08:45   X	65,000	3	6	3 9		4			
									<del></del>
12/8/96         Med         AOE 6         TAFS 8         08:30         08:50         X           12/8/96         Med         AOE 6         CVN 71         08:00         08:50         X           12/8/96         Med         AOE 6         FFG 52         08:30         08:50         X           12/8/96         Med         AOE 6         FFG 52         08:30         08:50         X		70		7	11				+

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gailons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV	Chill	Freeze	Fill	AO	Hazmat	Retro	JETE	Misc	Q-cog Ma
		ship		$oxed{oxed}$	ļ									Retro	etc	etc.	Qcog/Fill				Dairy			Dry				Dkld				cargo	1
L				Щ	'	<u> </u>				Gal	Pal		Pal	Pal	Pal	Pal	Pai	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pai	Pai	Pal	Pal	Pal Pou
																				- Re	ceipts -												

10/7/96 CentCom	TARCE LACES I	2.20 1 12.55 1	V	1	1	 1		1 1									
1011110 Concom	TALSS   AOES	13.40   13.55	Α	3	1 1	 1 1	1 1	1 1	 8 1	f I	1 1	1 1 1	1	1	- 1	1 1	

11/6/96	CentCom	TAO 197	AOE 6	07:41	10:00	X			I	195,100	906,500		1		1	1		T							1		T	1		<del>- T</del>	
																		 											<u> </u>		<del></del>
11/7/96	CentCom	AOE 6	DD 978	08:50	09:10			Х		1		<u> </u>		L			]	1	- ["				1 7			1	7	2			T
11/7/96	CentCom	AOE 6	CG 50	10:10	10:55			X							I			T L								]	I	3			
11/14/96	CentCom	AOE 6			09:29	X						T		1		'		 TT		T		т-					·	3	T	<u>-</u>	
11/17/96	CentCom	AOE 6	CVN 65	08:00	09:36	X					1			L														64			
11/22/96	CentCom	AOE 6	CVN 65	07:01	08:37	X	<del></del>		1	1	1	T			T	1		 1 1			<del></del>	<del></del>	т т			-					
			1 2 111 33	4.07.01	1 33.57	<u> </u>	1			1				<del></del>	1	<del></del>	L	 					<b></b> i				٠ـــــــــــــــــــــــــــــــــــــ			1	
11/24/96	CentCom	AOE 6	CVN 65	09:30	11:24	I		X						Т	T	T 1		 1 1	- 1		$\neg$	Т	П	T	.		T	12		1	T
12/3/96	Med	Souda Bay	AOE 6	00.20	11:00	1			X	1		27				1 -	$\overline{}$														

Date	Location	n Source/CL	F Customer	Start	Finish	CONREP	VERTREP	INREP	DFM	JP-5	Ammo	Pax	Freeze	Food	Chill	I Dry I	hill/ Dair	y FFV/	chitt	chilV ff	v Other	Soda	Ch Ge 1	Plt	T 40	fltfrt/	Hull	Hull/	Cut	1 .	1 marina I		100	F			
•						\				1	1	1	********		Cum	15.7		' '''	FFV		Jounn	Joua		Frt/Qcog/l		Hillo	1 7 1111	riui/	Fill	Pot-	JETE	Retro	Q-Cog	Nitro	Lube	A/C	Mail   NRFI/
		ship					L										FFV	Dairy			stores	Ì	1 1	II.I.	DKLD	dkld		DKLD		Water	] ;		1		Oil E	ngines	DLRs
					<u> </u>				Gal	Gal	Pal		Pal	Loads	Pal	Pal	Pal Pai	Pai	Pal	Loads	Loads	Pal	Pal	Pai	Pal	Pal		Pal	Pai	Gal		Pal	Pal	Pai	Pal		ounds Pal
4																						- Delix	cries-										1 2.21				Julius 1 at
12/8/96	Med	AOE 6	CG 58	15:24	16:54		Т	<del>,</del>	141 800	1 11000	г												701103														
12/8/96	Med	AOE 6	CG 58		16:34		<del> </del>	1	141,800	14,900	<u> </u>					+		<b>_</b>				<del></del>			1								1				
12/8/96	Med	AOE 6	DDG 57			· · · · · · · · · · · · · · · · · · ·	<del>  ^</del>	ऻ	67,500	<del> </del>			. 2		3	1 - 1		7								↓				İ							
12/9/96	EastLan						<del></del>	<del> </del>	67,300				10			<del>                                     </del>						1			4												
12/9/96	EastLan		CVN 65			^	<del>                                     </del>	+		ļ	-	+	47			125		1 7				52				ļ				<u> </u>							
	Data	1 1000	1 0111 05	07.50		·	1^		l	L			نـــــــا	LL		25									1 1					l		40 bundles	<u> </u>				
12/10/96	EastLan	t AOE 6	AOE 4	10:00	12:05	l	Y	Т		T	92	<del></del>							<del></del>			_				·				,							
12/14/96	CentLan		DD 977	13:17	14:19	x	<del>                                     </del>	×	102,900	<del> </del>	72					1			-	+	+	+			<del> </del>	+	1-4						ļ				
12/14/96	CentLan		FFG 49		15:00	X		<u> </u>	40,500	7,600		+		- 1		+				<del> </del>		+			—	+	<del>  </del>			6500			ļ				
12/15/96	CentLan	ıı AOE 6	AE 28	08:59	15:35	X		<del> </del>	10,500	7,000	120		-			+	+	<del> </del>	+	+	+				+	+	<del>├</del> ──┤			-							
12/15/96	CentLan	t AOE 6	AE 28	08:25	18:00		х	<b></b>			340	-				1 1	<del></del>	+		-		+	-		<del> </del>	+											
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7/17/96	CentCom	AOE 2	DDG 58		X			84,975	5.080	5														<del>-   -   -</del>					+	
7/18/96	CentCom		MEL		X			22,848	7,854																				+	
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7/20/96	CentCom	AOE 2	FFG 37	<del></del>	X			30,618	5,700				<del> </del>	<del></del>	+			+		-		+					<u> </u>			
7/20/96	CentCom	AOE 2	FFG 48		X	<del>                                     </del>		71,857	8,655		-+-	+			+			++		1										
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6/5/96 WestPac TAO 197 AOE 2	X 1,309,372 765.610		

6/23/96 WestPac TAO 202 AOE 2 X	1.411.872 668,304	

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9/6/96	CentCom	AOE 2	DDG 58		L1	Х	l	L	103,789	330									l										1	二				
9/6/96		AOE 2				Х			101,907	5,608							<u> </u>														1	II		
9/7/96 9/7/96	CentCom CentCom	AOE 2				X	34		41,452 145,168	4,574 2,542		├				-	-		<u> </u>	<del> </del>														
9/7/96	CentCom	AOE 2	FFG 39			Х	4		68,531	4,213																								
	CentCom CentCom						X					╁	<del></del>					<u> </u>		<u> </u>				+	_					$\bot$				
	CentCom						X																							士	-			
	CentCom CentCom					X	X 3		146,258	6,099		<del> </del>					+		<del> </del>					+ +		-			-	-				
	ContCom					X X	1		173,966	4,820																				士			- f	
	CentCom CentCom					X			30,483 1,304,725	4,065				+		$\dashv$	_							+										
9/20/96	CentCom	AOE 2	FFG 48			X			27,214	3,451																				土				
9/21/96	CentCom	AOE 2	CVN 65			Х				1.403,988				J	1		<del></del>		T		Т		1	1 1						<del></del>				
	CentCom CentCom					X	х		48,651																									
9/23/96	CentCom	AOE 2	EDI			Х			46,347								+		<u> </u>				<del></del>	+ +-		1				+		-		
	CentCom CentCom					X	17		54,357 74,032	7 755																								
9/25/96	CentCom	AOE 2	TAFS 3			^	Х		14,032	7,755										<u> </u>	+			+	-			_	+					
		AOE 2					X 106							$\Box$		22														二				
9/27/96	CentCom	AOE 2	CVN 65			Х	97			680,117						22					= $+$								+		-		-	<del></del>
		AOE 2				X			46,424 134,757	4,536 3,856		$\vdash \exists$				$-\Gamma$																		
		AOE 2				X			138,311	5,522				士		$\pm$									_				+	+		-		
10/2/96	CentCom	AOE 2	CGN 36		···		40						<del></del>									1	1	1				1	T					<u>_</u>
10/3/96	CentCom	AOE 2	CVN 70				13									$\perp$										-+			<del></del>	+-		+		
<del></del>	CentCom CentCom	AOE 2				X	8		87,430 33,264	61,412 21,221						$-\Gamma$				$-\Gamma$	<b>-</b>			+ $ T$						1				
10/5/96	CentCom	AOE 2	Masirah						22,201		8																		1	+-		-+		
			CVN 70 CGN 41			X X	92			498,865 41,320	150				F	165					$-\Gamma$	- $+$ $            -$	+ ===	$+$ $\mp$						1				
10/7/96	CentCom	AOE 2	FFG 37			X			97,571	71,688											二									$\pm$				_
10/7/96	CentCom	AOE 2	CG 67			X	L		162,522	5,339		L																						

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gailons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV C	hill	Freeze	Fill	AO I	lazmat	Retro	JETE	Misc	Q-cog	Mail
		ship	<u> </u>					<u> </u>						Retro	etc	etc.	Qcog/Fill				Dairy			Dry			] ,	Dkld				cargo		
<del></del>				L		L	L	J		Gal	Pal	L	Pal	Pal	Pal	Pai	Pal	Pal	Pal	Pal	Pal	Pal	Pat	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pai P	ounds
-	Receipts —																																	

9/6/96 CentCom TAO 199 AOE 2			
9/6/96   CentCom   TAO 199   AOE 2	X 174.691 1.344.897		

6 CentCom TAO 199 AOE 2	1 121 457 459 179		

9/28/96 CentCom TAO 199 AOE 2	X	1,013,895 781,507	7

Date Location Source/CLF Cust	tomer Start Finish	CONREP	VERTREP IN	VREP DFM	ЛР-5	Ammo	Pax Freeze	Food	Chill	Dry Chill/	Dairy F	FV/ ch	ill chill/ (fv	Other   S	oda   Flt Fr	rt Fft	AO filtí	rt/   Hull   Hu	II/ Fill	Pot-	JETE Retr	2 10-Ca	Nitro Lu	ha l VC	T Mair L Marri
ship										FFV		FF	iry stores			Frt/Qcog/F	DKLD dk		1	Water	JE12 Ken	J Q-C01	1 1	be A/C	Mail NRFV
				Gal	Gal	Pal	Pal	Loads	Pal	Pal Pal	Pal	Pai P	al Loads	Loads F	Pal Pal Deliveries	Pal	Pal Pa	l Pal Pa			Pal Pal	Pal			Pounds Pal
	N 36		11			1		Т			1		1		Denveries-	1	T T	1 - 1	1						<b>—</b>
	G 67	X	9	115,654 182,585	21,004 2,066																				
10/21/96 WestPac AOE 2 CC	G 67		17	102,505	2,000															<del></del>			+		
10/24/96 WestPac AOE 2 TAI	E 26		12 369			1381		+				-	·····				<del>  </del>		-	+					
10/25/96 WestPac AOE 2 TA	E 26	X	294	228,959	11,869	695										1									
10/28/96 WestPac AOE 2 LH 10/28/96 WestPac AOE 2 LP	D 2	X X	104 75	548.883 257.567	49.088													4-1-					T		
10/28/96 WestPac AOE 2 LSI	D 49	X	65	215,923																1	_	<del></del>			
11/7/96 MidPac AOE 2 CO	G 67	Х	14	215.564		61		++				-								+				1	
11/8/96 MidPac AOE 2 CVI	N 70	X																							
	DE 7 12:40 14:04 G 30 16:00 16:45	X	X X	53.499	A 220		25	1															ТТ		
10/16/96 MidPac AOE 7 CG	63 16:18 17:20	Х	X	53,488 108,273	9.228 15,533		20 31						<del></del>		-	-	-	+		-					100
	7 63 08:00 09:30 G 54 03:50 05:10	X	Х	623,478 179,663	385,490 6,101		31 15												<b></b>						100
10/20/96 MidPac AOE 7 FFC	G 30 17:50 18:48	X		4,950	5,101		13	1 1		_	<del></del>					+	<del>                                     </del>	-	<del></del>	+			╂}		
	985 06:15 08:30 63 07:26 08:31	X X	X	184,203 108,634	4,002		15									1			1						1000
10/21/96 MidPac AOE 7 CV	63 08:03 10:04	X	х	681,894	189,105		21	<del>                                     </del>					6	<del></del>		-	<del>                                     </del>	+	-	+		-		_	1200
	DE 7 13:40 14:21 3 30 17:20 18:35	X	X	58,110			7									1									1200
10/25/96 WestPac AOE 7 CV	63/ 07:40 16:20	Λ	Х	38,110			44				<del>                                     </del>					+	<del>                                     </del>	+		+					
10/26/96 WestPac AOE 7 CG	3 54 07:51 08:45	Х	Х	155,351	5,088		12								_	1									
	985 07:55 09:25	x	x	147,464	3,930		7																		150
	3 30 08:58 09:59 63 07:39 08:53	X	X	23,986 183,404			l																		130
	63		X					<del></del>						L			<u> </u>								
10/28/96 WestPac AOE 7 TAE	E 26 7:30 10:40	X		256,836			27	+					17			ļ ·	<del>                                     </del>					_			2,600
10/28/96 WestPac AOE 7 TAF 10/29/96 WestPac AOE 7 26/CV	FS 7   12:50   14:10   /63/ C 7:58   10:21	X	X	65,194			2						71												700
	985 9:03 10:05	х	X	148,889	14,235		2	+-+								<del> </del>		+	<del></del>						250
																				T				1	
	63 7:55 11:20			646,012	297,880				İ																
	63 10:20 11:10 330 10:55 12:20	X X	X	154,320	12,268														1						
10/31/96 WestPac AOE 7 Bo	G 7:16 17:50	^	X	94,516			12	1 1					42			<del> </del>	<del>  </del>	+	-						1000
	63 10:31 11:20 54 5:59 6:29	X	X	316,426	290,163		16													<del>                                     </del>					3,000
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	7 30 6:41 7:05 63 7:20 7:57	X		18,540															1	<u> </u>				+	
	G 30 17:10 18:20	X X	X	48,469 46,633	3,470		17	┼──┼										<del>                                     </del>	<del> </del>	+					200
11/18/96 WestPac AOE 7 CV	63 7:55 10:10	х		768,355	405,651	35	1	T		1 1						T									200
11/19/96 WestPac AOE 7 CG	54 6:45 7:30	X	х	185,287	4,724		10	<del>                                     </del>		<del></del>		_				<del> </del>		<del>                                     </del>	<del> </del>	-					400
11/19/96 WestPac AOE 7 CG 11/19/96 WestPac AOE 7 DD	63 6:40 7:50 985 7:30 9:15	X		190,529 196,431	2,063		7	1																<del></del>	600
	G 30 9:05 9:38	X		147,583	8,699	9		15					+ +	1				+ +	<del> </del>			_			
11/22/96 WestPac AOE 7 FFG	30 18:10 19:10	х		65,015	<u>1</u>	1						- 1						1 1	<u> </u>	1				<u> </u>	
11/22/96 WestPac AOE 7 CG	63 19:15 19:50	X		85,856	4,844									2								+	<del>                                     </del>	+	
	54 19:50 21:40 985 19:50 21:50	X X		76,993 86,570	5,241			3				_	+ 7	3		<del> </del>		1		-		1			
11/22/96 WestPac AOE 7 CV	63 19:15 21:50	Х		706,912	504.168	12		22							$\pm$					<del>                                     </del>		+		+ +	
	SC 12:05 13:15 D 2 10:25 11:20	X	х	82,975 428,971	76,214		8											<del>                                     </del>							
11/25/96	949 9:10 10:40	Х		128,342															<del> </del>	<del>   -</del>				-	3,000
	985 11:00 12:10 130 9:50 10:40	X	X	107,531	11,530	2	9	2																	
11/26/96 CentCom AOE 7 CG	63 8:30 9:35	Х		154,029	4,952			5						1				+ +	<del> </del>	<del>                                     </del>		-		<del> </del>	
11/26/96   CentCom   AOE 7   CG     11/26/96   CentCom   AOE 7   CV	54 7:45 8:20 63 7:30 13:00	X		86,343 622,536	9,552			5																	
11/28/96 CentCom AOE 7 Fgn.	SC 18:45 19:30	Х		36,484	855							_	1 1			<del>                                     </del>		<del></del>		<del>                                     </del>		-	<del> </del>		
	SC 19:45 20:10 29 21:00 22:10	X X	х	89,204	902	11	7	17				<b>—</b>													
11/30/96	0 2 23:30 1:10	X	^_	116,677	14,874 47,808	11	7	11	+	+		+	+			<del>                                     </del>	<del></del>	+	<del> </del>	-		+		+	2,000
11/30/96   CentCom   AOE 7   LSD     11/30/96   CentCom   AOE 7   LPD		X	X	57,432			6	1																	1,600
12/6/96 CentCom AOE 7 LPD		X	X	253,604 130,734			5	71					<del>  </del>	2		<del>  </del>		<del>                                     </del>		$\vdash$					4,500
12/6/96 CentCom AOE 7 LSD	49 17:05 19:20	Х	Х	61,229			12	26						ı											3,000
12/6/96 CentCom AOE 7 LHD 12/7/96 CentCom AOE 7 DD 9	0 2   6:17   8:45   985   14:20   15:50	X	X	169,648 321,198	116,205		14	54	+		<del></del>		+	11				+				1			
12/7/96 CentCom AOE 7 FFG	29 16:10 17:00	Х		34,244															<del> </del>	<del>                                     </del>	+	+		+	
	54 20:50 21:55 54 11:50 12:40	X	х	242,818 74,428	5,136	1	30	27		$\Box$									1						
12/12/96 CentCom AOE 7 FFG	30 21:30 22:20	X		36,429				-1					+	3 1				+	1	<del>                                     </del>	-	+		<del> </del>	
12/13/96	33 21:38 22:35 63 7:55 10:40	X	X	25.122	13,517	, , ,	21	ļ. , I					1	1											150
121375 CORCOIN   AOE / CV	V 1 1.33   10:40	^	^	841,607	542,744	2	31	4				i						<u> </u>	L						500

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTRE	P INRI	EP DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	!	1	SODA	<b>!</b>		1 1	1		Chill	reeze	Fill /	AO E	[azmat	Retro	JETE	Misc Q	2-cog Mail
		ship					<del> </del>	+-		Gal	Paí	<del> </del>	Pal	Retro	etc Pal	etc.	Qcog/Fifl Pal	Pal	Pal	Pal	Dairy Pal	Pal	Pal	Dry Pal	Pal	Pal	Pal I	Okld Pal	Pal	Dal	Pal	argo	Pal Pound
4																			·		ceipts				1					1	- "	t ai	
																			-														
10/27/96	WestPac	Guam	AOE 2			L			TT		1592			L				1					·			I							T
10/14/96	MidPac	TAO 204	AOE 7	08:00	12:20	Х	Х	<del></del>	309,337	72,203		1		Ι											Т								100
	L			1	l	<u> </u>	<u> </u>		_lL	<u> </u>		ــــــــــــــــــــــــــــــــــــــ	L	L		<u> </u>		L				<u> </u>											
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10/22/96	MidPac	joyrides	AOE 7	13:40	14:21		X					7		L	<u> </u>				]	T							ΞТ.	$\Box$					
10/27/96	WestPac	TAO 202	AOE 7	12:45	16:49	Х	X		1,776,718	615,769		<u>l</u>																					2,000
																	*																

11/10/96 WestPac TAO 199 AOE 7 10:18 16:12	X X 2,595,650 958.85	66	1,000
11/19/96   WestPac   TAO (99   AOE 7   9:00   13:00	X X 1.474,081 323,07	72	515

Date Location Source/CLF Customer Start Finish CONREP	VERTREP INREP DFM	JP-5 Ammo	Pax Freeze Food Chill Dry Chill E	Dairy FFV/ chill chill/ ffv Other Soda Fit Frt Fi	AO fitfirt/ Hull Hull/ Fill Pot-	JETE Retro Q-Cog Nitro Lube A/C Mail NRFi/
ship	Gal	Gal Pal	Pal Loads Pal Pal Pal	Dairy Dairy stores stores   Fri/Qc	DKLD dkld DKLD Water	Oit Engines DLRs
<b>*</b>	343	1 Out 1 tut	rai Loaus rai rai rai	Pal Pal Loads Loads Pal Pal Pa  Deliveries	Pal Pal Pal Pal Pal Gal	Pal Pal Pal Pal Pal Pounds Pal
12/17/96   CentCom   AOE 7   CG 34   12:15   13:05   X     12/17/96   CentCom   AOE 7   DD 985   12:20   13:20   X     12/17/96   CentCom   AOE 7   DDG 978   13:25   14:43   X     12/18/96   CentCom   AOE 7   FFG 30   13:57   14:48   X     12/18/96   CentCom   AOE 7   FFG 29   16:10   16:49   X     12/19/96   CentCom   AOE 7   LFID 2   11:25   13:40   X     12/19/96   CentCom   AOE 7   LFID 2   11:25   13:40   X     12/19/96   CentCom   AOE 7   LFID 7   12:05   13:30   X     12/19/96   CentCom   AOE 7   LSD 49   13:45   14:55   X     12/19/96   CentCom   AOE 7   CV 63   18:30   20:50   X     12/19/96   CentCom   AOE 7   CG 63   10:15   12:30   X     12/19/96   CentCom   AOE 7   FFG 33   5:20   6:10   X     12/19/96   CentCom   AOE 7   FFG 29   22:29   23:30   X     12/22/96   CentCom   AOE 7   TAFS 8	X 123.078 X 72.594 X 72.594 X 24,384 X 170,999	9,720 12 4,962 2,332 53,318 1 1 656,172 15,083 6,074	30	15 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2,000 250
12/24/96   CentCom   AOE 7   DD 984   23:05   1:10   X     12/24/96   CentCom   AOE 7   DDG 60   12:48   1:45   X     12/24/96   CentCom   AOE 7   DD 992   12:40   1:55   X     12/28/96   CentCom   AOE 7   DD 975   3:00   4:05   X     12/28/96   CentCom   AOE 7   DD 975   3:00   4:05   X     12/28/96   CentCom   AOE 7   FFG 33   1:10   2:15   X     12/28/96   CentCom   AOE 7   CG 50   21:20   22:35   X     12/28/96   CentCom   AOE 7   CV 63   2:55   6:20   X     12/30/96   CentCom   AOE 7   DDG 60   5:55   6:40   X     12/30/96   CentCom   AOE 7   DD 985   2:01   3:55   X	X 184.270 X 232.341 X 116.194 X 42.546	2 10,392 2,297 2,378 14,785 193,804	30 28 37 2 12 38 38 38 37 4	2 1		300 500 520 750
2ff/97         Med         AOE 4         FFG 52         13:58         15:23         X           2ff/97         Med         AOE 4         FFG 52         14:54         15:20         15:15         X           2f8/97         Med         AOE 4         CG 55         14:06         15:15         X           2f8/97         Med         AOE 4         CG 55         16:35         18:30           2f8/97         Med         AOE 4         CVN 71         16:09         17:51         X           2f8/97         Med         AOE 4         CVN 71         16:14         19:47         X           2f8/97         Med         AOE 4         CVN 71         15:22         19:40	X X 188.200 X X 188.200		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 24 69 114	3	4 29 (Pallets) 15
2/11/97         Med         AOE 4         TAO 196         13:59         15:26         X           2/12/97         Med         AOE 4         CG 55         08:43         09:54         X           2/14/97         Med         AOE 4         DD 997         13:06         14:23         X           2/14/97         Med         AOE 4         DD 997         13:11         14:51         X           2/14/97         Med         AOE 4         CG 55         16:18         17:20         X           2/14/97         Med         AOE 4         CG 55         16:18         17:20         X           2/16/97         Med         AOE 4         CVN 71         07:56         10:51         X           2/16/97         Med         AOE 4         CVN 71         07:15         08:50            2/19/97         Med         AOE 4         AOF 3         12:35         14:18	185,700 196,100 76,500 X X		12 1 13	3 3 24 1 16	4 5 5 10 10 10 10	2 (LIFT) 6
2/28/97   Med   AOE 4   Souda Bay   15:53   18:09	X X X 32,700  67,200  X 116,600  X 157,000  238,700  X 23,300  329,200  286,100  28,300  21,800  61,700  36,200  32,100  30,900  33,700  28,800  23,800  23,900  44,500  94,900	1,800 137,700 6,500 3,600 2,600 3,100 7,500				I (Pallet)
3/9/97   Med   AOE 4   CG 72   08:01   08:47   X	X 99.100 X 163.800 X X	6,300	10 3 19 1 1 2 1	4	2 10 1	14 7

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Fit Frt	Plastic	Fit Frt	Ocog	SODA II	IULL	FFV/	Dairy	Dry	FFV I	Chill	Freeze	Fill	AO I	Hazmat	Retro	nerre l	Mise I	) coa l	Mail
												ŀ			-			`			_	,	,				,	""	1100/III	Read	"	WISC	ecog	Maii
	<del></del>	sup	<del> </del>					<b>├</b> ──			<del></del>	ļ		Retro	ete	etc.	Qcog/Fill				Dairy	L1		Dry				Dkld				cargo	- 1	
	<u> </u>		1							Gal	Pal	1	Pai	Pal	Pal	Pal	Pal	Pal	Pal	Pai ]	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pounds
4			_												,					n.	asinta					الا								
							,													nei	ceipts													
12/16/96	CentCom	TAO 197	AOE 7	10:20	15:35	X	X		2.197.218	747,390	!	T		1				ТТ	1	- 1		1		- 1	T		- 1						··· ,	

12/23/96 CentCom ASU Fujairah AOE 7	X 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	150

12/31/96	1.037,449 310,994
2/4/97 Med AugustaBay AOE 4 08:16 14:02	X 2 2 20 4 20 18 2

2/9/97	Med	TAES 5	AOF 1	09:50	11:16	Y		 	T	 	1 ,,					1						<del></del>	 		
21777		174.55	.102.4	07.50	11.10	 ^	 		l_		111	1 1	 1	1 2 1	- 1	1 17	1	+ [	20 1	1	- 1		1 1	1	1

2/17/97	Med	Augusta Bay	AOE 4	08:00	18:15		X				1		1	17				33			10	1	T .		1 20		70	B (LIFT)			
2/18/97	Med	Augusta Bay	AOE 4	08:09	13:37		Х							17			98								<del> </del>	12	10 (Pat	1 1			
										•			·	<u></u>		<u> </u>										1 12	Trotran	31			
2/20/97	Med	Souda Bay	AOE 4	13:30	14:55		X	1	1			Γ		17									<b>T</b>			Τ	T	TT		<del></del>	
2/21/97	Med	Souda Bay	AOE 4	09:35			X	1,310,000	2,150,000														_			+	+	+	+	-+	
2/25/97	Med	Souda Bay	AOE 4	10:12	10:21		X															- 1 3	+		<del> </del>	+	+	++			
2/26/97	Med	Souda Bay	AOE 4	13:00	13:35		X				_					<del>                                     </del>						+	<del>- </del>	_+	+	<del></del>	+-	++			
2/27/97	Med	Souda Bay	AOE 4	10:15	11:20		Х		İ	<b></b>	+		<del>                                     </del>		 	<del>                                     </del>			-10	$\rightarrow$			+		<del></del>	+	+	+		-+	
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3/8/97	Med	TAO 196	AOE 4	08:54	12:45	X			1,980,000			1							-						1	1		M	$\overline{}$	$\neg$
3/8/97	Med	TAO 196	AOE 4	08:54	11:03	X				185,000					<del>                                     </del>									_	+	<del>                                     </del>	<del>                                     </del>	 	<del></del>	
3/8/97	Med	TAFS 5	AOE 4	08:11	11:24		Х	i			† · · · · ·	<del> </del>	<del> </del>	16		12		23			1.8	7.	82	-	17	+	7		<del></del>	
3/8/97	Med	TAO 196	AOE 4	11:23	13:20		х							8	<b></b>		28	13		-+	2	<del>-   -</del> -	- 02	+	16	<del>                                     </del>	21	 	<del></del>	$\longrightarrow$

3/31/97	CentCom	TAFS 7	AOE 4	14:10	15:02	X			 	1	2	3	8	3	6	1	T	2 1	1	7
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Date Location Source/CLF Customer Start Finish CONREP VERTREP IN	REP DFM JP-5	Ammo Pax Freeze Food Chill	Dry Chill Dairy FFV/ chill chill fi FFV/ Dairy Dairy stores	Frt/Qcog/F	Hull Hull/ Fill Pot JETE Retro	Q-Cog Nitro Lube A/C Mail NRFI/
	Gal Gai	Pat Pal Loads Pal	Pal Pal Pal Pal Pal Loads	ls Loads Pai Pai Pai Pai Pai		Pai     Pal     Pai     Pai     Pounds     Pal
5/12/97 EastLant AOE 8 AOE 4 07:53 08:14 X		37		Deliveries		-
5/12/97 EastLant AOE 8 MCS 12 12:43 15:05 X 5/14/97 Med AOE 8 CV 67 06:57 09:15 X	246,000 566,000	6		29		6
5/14/97 Med AOE 8 CV 67 07:33 08:00 X		2		4		
5/20/97   Med   AOE 8   FFG 40   15:16   19:04   X   1						
5/20/97 Med AOE 8 FFG 40 16:02 17:23 X	X 74,000 8,500	3 1	10	5 3 4	4 1 3200	
5/20/97 Med AOE 8 DD 982 15:30 19:06 X 5/20/97 Med AOE 8 DD 982 15:45 18:00 X	295,000 5,400	6 1	II	7 18	3 1	3
5/22/97 Med AOE 8 DD 981 13:20 14:27 X	164,000 4,000					
5/22/97         Med         AOE 8         DD 981         14:52         16:55         X           5/25/97         Med         AOE 8         CV 67         06:39         10:34         X	378,000 622,000	2		7	4	
5/25/97 Med AOE 8 CV 67 06:40 10:24 X		74 81 19 14		23 4 17	30 4 (.14	3
5/25/97 Med AOE 8 CG 66 16:03 17:34 X 5/25/97 Med AOE 8 CG 69 16:25 17:30 X	91,000 7,500 131,000 7,000	11 3	12	2 4	1	3
5/25/97 Med AOE 8 F 99 17:50 18:53 X 5/25/97 Med AOE 8 CG 69 18:09 19:33 X	36,000			2 9		
5/28/97 Med AOE 8 FPG 50 13:23 14:30 X 5/28/97 Med AOE 8 FPG 50 13:47 15:30 X	\$0,000	2 2	+	7		
5/29/97 Med AOE 8 CV 67 07:30 09:48 X 5/29/97 Med AOE 8 CG 66 07:55 09:50 X	331,000 564,000 199,000			16	120	
5/29/97 Med AOE 8 CG 66 08:28 08:38 X	199,000			1		
5/29/97         Med         AOE 8         CV 67         08:28         08:38         X           5/29/97         Med         AOE 8         CG 69         15:17         15:30         X		5				
5/29/97 Med AOE 8 CG 69 16:25 17:07 X 5/30/97 Med AOE 8 MCS 12 06:51 09:23 X	48,000 237,000 170,000					
5/30/97 Med AOE 8 MSC 12 10:08 11:02 X 5/30/97 Med AOE 8 CG 51 18:53 20:10 X	115,000 10,000	6		6		
6/2/97 EastLant AOE 8 DD 963 06:56 07:46 X 6/2/97 EastLant AOE 8 DD 963 08:40 10:04 X	117,000 5,000	7				
75077 Education 7507.0 DD 707 00.40 10.04					1 1 1 1 1 1	
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6/13/97 Med AOE 8 AO 178 15:40 16:45 X		3				2
6/16/97 Med AOE 8 DD 981 17:17 18:34 X 6/16/97 Med AOE 8 DD 981 19:11 21:20 X	51,000	II I	7	L L		
6/16/97 Med AOE.8 DD 981 19:11 21:20 X				4 3	5 4	5
6/22/97   Med   AOE 8   CV 67   06:48   10:00   X   X	<b>C</b>		34	36 15		
6/22/97 Med AOE 8 CV 67 07:07 09:40 X X 6/22/97 Med AOE 8 CG 66 07:46 08:46 X	X 211,000 538,000 179,000 7,000	6 79	I			
6/22/97 Med AOE 8 CG 66 09:49 10:24 X 6/28/97 Med AOE 8 CV 67 12:44 15:18 X	774,000 610,000	2				
6/28/97 Med AOE 8 CG 66 13:06 14:00 X	118,000 2,000					
6/28/97   Med   AOE 8   CG 66   20:11   20:32   X				3		
				26	27 Pallets	29
7/1/97 Med AOE 8 TAO 201 10:45 11:09 X X 7/9/97 Med AOE 8 CV 67 09:00 12:50 X	C			1 105		28
7/9/97 Mcd AOE 8 CV 67 09:37 10:40 X 7/9/97 Mcd AOE 8 CG 69 09:33 10:43 X	374,000 330,000 195,000 3,000					
719/97 Med AOE 8 CG 69 11:35 12:50 X 179/97 Med AOE 8 CG 51 12:40 13:33 X	90,000 5,000	1		8	2	
7/9/97 Med AOE 8 CG 51 13:51 16:00 X	24,000			10 3		
7/9/97 Med AOE 8 CG 66 18:58 20:04 X	164,000			15		
7/11/97 Med AOE 8 CG 66 16:35 17:20 X  7/11/97 Med AOE 8 CG 66 17:47 18:26 X	55,000		15		5	
7/12/97 Med AOE 8 DD 981 04:17 05:39 X 7/12/97 Med AOE 8 Fgn CV 05:57 07:05 X	79,000 2,000 \$4,000			3	9	
7/12/97 Med AOE 8 Fgn SC 12:10 12:42 X 7/12/97 Med AOE 8 DD 963 15:34 16:36 X	33,000 148,000 5,000					
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7/13/97 Med AOE 8 CG 69 09:15 10:42 X	141,000 6,000					
7/13/97   Med   AOE 8   PC 2   11:23   12:30   X	6,000					
	145,000 5,000 1 118,000 1,000					
7/16/97 Med AOE 8 CG 66 18:27 18:44 X 7/16/97 Med AOE 8 DD 981 17:58 19:45 X	159,000 5,000	8 9	6	5 4 1	1 5	2
7/16/97 Med AOE 8 DD 963 21:17 22:49 X 7/16/97 Med AOE 8 DD 963 21:29 23:07 X	142,000 11,000	4 8	14	14 2	1 2	5
7/16/97 Med AOE 8 CG 69 22:05 23:37 X	152,000	1 1 3	1 17	<del> </del>	<del>                                      </del>	

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	l'it Frt	Plastic	Flt Frt	Qcog	SODA HU	IL F	FV/ Da	airy D	ry [	FV Ch	ill lire	eze F	itt AC	Hazm	it Retro	JETE	Misc	Q-cog	Ма
		ship												Retro	etc	etc.	Qcog/Fill			D	аігу			Dry			Dk	d			cargo		
		<u> </u>								Gal	Pal		Pal	Pal	Pal	Pal	Pal	Pal	Pal P	ai i	al P	al P	al	Pal Pa	I P	al P	al Pa	Pal	Pal	Pai	Pal	Pal	Pour
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5/16/97         Med         Augusta Bay         AOE 8         13:25         16:47         X           5/16/97         Med         Augusta Bay         AOE 8         13:15         17:23         X           5/16/97         Med         Augusta Bay         AOE 8         13:15         17:23         X           5/16/97         Med         Augusta Bay         AOE 8         14:15         18:54         X         882.000         601.000           5/17/97         Med         Augusta Bay         AOE 8         09:50         12:37         X	· · · · · · · · · · · · · · · · · · ·						 																					
5/16/97         Med         Augusta Bay         AGE 8         13:15         17:23         X           5/16/97         Med         Augusta Bay         AGE 8         14:15         18:54         X         882,000         601,000         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         1         9         1         3         1         3         1         4         9         1         3         1         4         9         1         3         1         4         9         1         3         1	5/16/97	MICH	Augusta Bay	AOE 8	13:25	16:47		X		1				4					24	66	3			T	1	T		
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5/17/97 Med Angusta Ray AOF 8 (00:50   12:37 Y	5/16/97		Augusta Bay	AOE 8	14:15	18:54			202 200		1			<del>                                     </del>	<del> </del>	 <b></b>	 	 		<del></del> -	<del>  `</del>			+	1			
	5/17/97	Med	Augusta Bay	AOE 8	09:50	12:37		X		1	<del>                                     </del>	<del> </del>	<del>                                     </del>	3	i	 	 1		10		+	<del></del>	+-	+	+		$\rightarrow$	

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6/15/97	Med	TAFS 10	AOE 8	08:54	10:41	Х	1			T				36		7	I L		32	7	Т	16	S	<del></del>	 $\neg$	<b>T</b>		
6/17/97 6/17/97	Med	Souda Bay	AOE 8	12:42	13:53		X	1	T	1	42		 Г	—Т	 		 <del></del>	1	Т					1	 	<del></del>		
6/17/97	Med	Souda Bay	AOE 8	18:00	19:37			X						10	 			1			_				 _	+	-+	-
6/18/97	Med	Souda Bay	AOE 8	08:30	13:00			X	T			1	 ii-	2					19	7:	$\overline{}$	3			 +-	+		
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6/30/97	Med Augus	sta Bay AOE 8	13:22 2	2:55	X 1,600,000 1,100,000	1 1	T T T T	 T	T		<del></del>	T
6/30/97	Med Augus	ta Ray AOF S	10:45 1:	5:00	X		<del>            -</del>	13	<del>                                     </del>	<del></del>	35	<del>                                     </del>

7/14/97 Mcd Augusta Bay AOE 8 12:00 20:30		
	140 14 111 11 31	

Date Location Source/CLF Customer Start Pinish CONREP VERTRE	P INREP DFM JP	5 Ammo	Pax Freeze Fo	od Chill Di	/ Chill/ Dairy   FF\	/ chill chill (fv Othe	- I Sada   Gh E-	(2) 1 AO 1 (4) E-4	[ (r.a. ) (v.a.)	60 1 5	Taxan L		T		
ship			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		FFV Daily	FFV/	Frt/C	Fit AO fitfit/ Qcog/F LL DKLD dkld	Hull Hull/	Fill Po		Retro Q-Co	g Nitro [		
	Gal Ga	l Pal	Pal Los	ads Pal Pa	Pal Pal Pa		s Pal Pal	Pai Pai Pai				Pai Pai	Pal		s DLRs Pounds Pal
7/16/97 Med AOE 8 CG 69 22:35 00:16 X			9	4 1:	1 1		Deliveries 2		7 7				· · · · · · · · · · · · · · · · · · ·		<b>_</b>
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7/27/97 Med AOE 8 CV 67 07:57 10:26 X 7/27/97 Med AOE 8 CV 67 08:20 08:49 X	545,000 653,6	000													
7/28/97 Med AOE 8 CG 69 16:05 17:10 X	166,000 5,00	00						11	16				+		-
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8/21/97			10	19			19	3	1	3			<del>  -</del>		<del>                                     </del>
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9/8/97 CentCom AOE 8 FFG 55 09:49 09:51 X	32,000 8,00	1	++-+-				<del>                                     </del>			400	)				
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9/11/97         CentCom         AOE 8         CG 69         08:40         09:38         X           9/18/97         CentCom         AOE 8         CV 67         08:00         11:26         X	133,000 3,00 635,000 1,400,	0	48	74			30								
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10/14/97	EastLant	Rota	AOE 8	1		<u>1</u>		х			T		F	T	21			1 1	9	I	56	<del></del> -	· · · · · · · · · · · · · · · · · · ·		, 1	<del></del>					<del></del>	
10/15/97	EastLant	Rota	AOE 8	19:00	01:12				1,040,000	906,000	<u> </u>	1		<u> </u>	1 21				9		56			士			$\pm$				1	

Date Location Source/CLF Customer Start Finish CONREP VERTREP	INREP DFM JP-5 Ammo	Pax Freeze Food Chill Dry Chill Dairy	FFV/ chill chill/ ffv Other Soda Flt Frt Flt AO fltfr/ Hull Hull/ F	Fill Pot JETE Retro Q-Cog Nitro Lube A/C Mail NRFI/
ship		FEV	FFV/   Frt/Qcog/F   Dairy Dairy stores stores   ILL DKLD dkld DKLD	
	Gal Gai Pal	Pai Loads Pai Pai Pai Pai	Pai Pai Loads Loads Pai Pai Pai Pai Pai Pai Pai Pai P	
10/23/97 EastLant AOE 8 DD 963 09:45 10:43 X	77 (00)		Defiveries	
10/23/97 EastLant AOE 8 DD 963 09:45 10:43 X 10/23/97 EastLant AOE 8 CG 69 10:12 11:10 X	97,000 70,000			
10/23/97	115,000			
10/23/97 EastLant AOE 8 CG 66 11:27 12:27 X 10/23/97 EastLant AOE 8 LSD 50 12:07 13:48 X	87,000 142,000 7,000			
10/23/97 EastLant AOE 8 LPD 15 12:42 14:08 X	145.000			
10/24/97         EastLant         AOE 8         AOE 6         07:33         10:33         X           10/24/97         EastLant         AOE 8         AOE 6         07:13         11:42         X	1,100,000 48,000 107			
10/26/97 EastLant AOE 8 CG 51 13:45 14:33 X	93,000			
10/6/97   WestLant   AOE 3   CG 60   13:16   14:31   X	118,200 6,100 115,300			
10/6/97 WestLant AOE 3 FFG 28 16:08 16:54 X	40,700 3,600			
10/6/97 WestLant AOE 3 IFG 36 14:26 15:38 X 10/6/97 WestLant AOE 3 DD 983 13:06 14:14 X	27,200 6,000 123,000 4,800			
10/8/97 WestLant AOE 3 FFG 36 15:56 18:02 X	29,200			
10/9/97   WestLant   AOE 3   CG 60   09:11   10:37   X     10/9/97   CLant   AOE 3   FFG 28   12:02   12:52   X	100,500 2,700 44,700 800			
10/9/97 CLant AOE 3 DD 983 09:11 10:05 X	76,000 2,700			
10/9/97   CLant   AOE 3   DDG 64   10:50   11:55   X     10/11/97   EastLant   AOE 3   CVN 73   16:00   18:45   X	74,300			
10/11/97 EastLant AOE 3 FFG 36 20:21 21:20 X	42,000 9,500			14
10/11/97   EastLant   AOE 3   FFG 36   20:00   20:20   X	38,600			0.1 Tons
10/11/97 EastLant AOE 3 DDG 64 20:21 21:20 X	59,400			
10/11/97	85,990 357,700 20,200			
10/13/97 EastLant AOE 3 LSD 51 12:57 14:20 X	167.100			
10/13/97   EastLant   AOE 3   LSD 48   12:26   14:32   X	157,200 339,200 38,100			
10/14/97 EastLant AOE 3 CG 60 07:23 09:00 X	208,800 3,800	33	<del></del>	
10/14/97 EastLant AOE 3 FFG 28 07:57 08:58 X 10/14/97 EastLant AOE 3 DD 983 09:33 10:58 X	39,500 3,300 114,000 3,800			
10/14/97 EastLant AOE 3 DDG 64 09:57 11:04 X	114,000 3,800 76,500			
10/14/97   EastLant   AOE 3   FFG 36   11:05   11:51   X	39,600			
10/15/97 EastLant AOE 3 AOE 8 07:20 10:05 X	57		38 25	
10/15/97   EastLant   AOE 3   AOE 8   06:48   07:31   X	511,600			1,000
10/16/97 EastLant AOE 3 CVN 73 06:30 16:45 X	511,000		38 25 8	
10/17/97   EastLant   AOE 3   CG 60   10:05   10:56   X	127,400 25,000 3	172		
10/28/97 Med AOE 3 LPH 9 07:35 08:50 X	49,300 34,840	17		2
10/28/97   Med   AOE 3   LPH 9   07:48   10:33   X     10/28/97   Med   AOE 3   LSD 48   07:29   08:51   X	75,000	8 23 10 10 10 10 10 10 10 10 10 10 10 10 10	5 12 18	
10/28/97 Med AOE 3 LSD 48 11:06 12:32 X	73,000	10 10	10 6 8 14	
10/28/97   Med   AOE 3   Fgn SC   11:14   12:23   X     10/29/97   Med   AOE 3   LSD 51   08:48   10:47   X	60,900			
10/29/97 Med AOE 3 LSD 51 08:34 12:26 X		13 19	18 14 5	
10/29/97   Med   AOE 3   LPD 12   08:34   12:26   X     11/1/97   Med   AOE 3   DD 983   18:31   19:41   X	87,200 4,000	34	25 12	
11/L/97 Mcd AOE 3 DD 983 18:03 18:08 X				
11/1/97 Med AOE 3 FFG 36 18:04 18:51 X 11/2/97 Med AOE 3 CG 60 14:16 15:40 X	32,500 176,800 3,000 1	1	4	
11/6/97 Med AOE 3 TAFS 5 10:33 12:48 X		13 23	15 28	
11/12/97 Med AOE 3 CG 60 06:34 07:52 X 11/12/97 Med AOE 3 CG 60 08:00 09:00 X	156,800 3,000			
11/13/97 Med AOE 3 CVN 73 06:00 09:00 X	1,121,579		24	3 tons
11/13/97 Med AOE 3 CVN 73 06:00 09:00 X 11/14/97 Med AOE 3 LPD 12 08:29 11:30 X	370,900	6	17	
11/14/97 Med AOE 3 LPD 12 08:17 09:38 X		16 18	6 9 6	
11/15/97   Med   AOE 3   CG 60   05:51   06:59   X	139,000 2,000		22	
11/19/97 CentCom AOE 3 DDG 64 10:55 12:26 X 11/19/97 CentCom AOE 3 DDG 64 10:27 10:39 X	273,000 4,200		3 1	
11/25/97 CentCom AOE 3 TAFS 9 12:00 13:00 X			10	
11/26/97   CentCom   AOE 3   FFG-51   15:27   16:43   X	50,521 6,086			
11/26/97   CentCom   AOE 3   Fgn SC   16:55   18:54   X	76,890 4,623			
11/28/97   CentCom   AOE 3   CVN 73   06:43   09:01   X	752,000	35 7	34 10	26 tons 1,159
11/28/97 CentCom AOE 3 CG 60 06:49 08:22 X  11/28/97 CentCom AOE 3 CG 60 10:48 11:43 X	221,000 6,200			1,137
11/28/97   CentCom   AOE 3   CG 60   10:48   11:43   X	134,000	3 1	4 5	1,265
11/28/97   CentCom   AOE 3   DD 968   12:00   12:15   X			10	653
11/29/97 CentCom AOE 3 DDG 64 09:31 10:40 X	152,000		10 10	26 50
11/29/97   CentCom   AOE 3   DDG 64   09:43   11:12   X	88,438 4,156	3 5	11 5	105
1/3/97 CentCom AOE 7 CV 63 7:50 10:30 X X	88,438 4,156 584,675 719,449	18	-+-+-	350
1/3/97 CentCom AOE 7 DD 985 13:20 14:55 X X 1/1/97 CentCom AOE 7 CG 63 8:07 9:07 X	22,456 8,443	3		330
1/7/97 CentCom AOE 7 Fgn SC 8:15 9:20 X	98,231 8,221 48,007 8,182	39		
17/97   CentCom   AOE 7   DDG 60   12:25   13:55   X     18/97   CentCom   AOE 7   CV 63   7:54   11:30   X   X	164,454 3,714	27		
1/8/97 CentCom AOE 7 CG 54 12:20 15:05 X X	580,120 540,937 20 116,208 3,108	20 30 10 34		250 300
1/8/97 CentCom AOE 7 DD 992 17:30 18:30 X	84,908 6,013	26		300
1/10/97   CentCom   AOE 7   LSD 49   8:35   9:45   X	157,678 2,178			

Ē	Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Fn	Plastic	Flt Fn	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV C	Chill	Freeze	Fill	AO	Hazmat	Retro	JETE	Misc	Q-cog	Mail
			snip	<del> </del>		<b> </b>							<u> </u>		Retro	etc	etc.	Qcog/Fill	↓			Dairy			Dry				Dkld				cargo		- 1
				<u>l</u>	L	<u> </u>	1				Gal	Pal		Pal	Pal	Pal	Pal	Pai	Pal	Pal	Pal	Pai	Pal	Pat	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pal	Pounds
-																					_ Re	eceipts													

11/18/97 CentCom TAFS 8 AOE 3 12:00 13:00 X

Date Location Source/CLF Customer Start Finish CONREP VERTREP	INREP DFM	JP-5 Ammo	Pax Freeze		Dry Chill Da	Dairy	chilt   chill/ ffv   Ott   FFV/     Darry   stores   stores	res	Frt/Qcog/l	DKLD dkld	ull Hull/	Fill Pot-	JETE Retro	Q-Cog Ni	ro Lube A/C	
<b>▼</b>	Gal	Gal Pai	Pal	Loads Pal	Pal Pal P	al Pal	Pal Loads Loa	ds Pal I		Pal Pal P	al Pal	Pat Gal	Pal Pal	Pal P		Pounds Pal
1/10/97   CentCom   AOE 7   LHD 2   15:05   17:00   X   X   X   1/11/97   CentCom   AOE 7   CG 63   7:35   3:40   X   X   X   1/11/97   CentCom   AOE 7   Fgn SC   9:10   10:45   X   X   1/11/97   CentCom   AOE 7   FFG 29   14:30   15:45   X   X   X	290,821 93,839 53,159 32,671	57,924 4,742 6,751	5 5	36			2									
1/12/97   CentCom   AOE 7   DDG 60   10:20   11:30   X	112,443 163,203 151,203 27,364	4,347	2 3				2									1.200
1/14/97   CentCom   AOE 7   CV 63   7-43   10:48   X   X   1/14/97   CentCom   AOE 7   DD 992   14:30   15:45   X   1/14/97   CentCom   AOE 7   FFG 30   18:43   19:50   X   1/16/97   CentCom   AOE 7   DD 985   16:10   17:20   X	826,663 117,773 80,409 80,597	704,214 4,785 748		1			1									500
1/16/97   CentCom   AOE 7   FFG 40   20:15   21:05   X     1/17/97   CentCom   AOE 7   CV 63   7:41   9:20   X     1/25/97   CentCom   AOE 7   LSD 49   15:45   16:45   X   1/26/97   CentCom   AOE 7   LHD 2   16:55   18:22   X	47,716 384,847 92,767 385,286	266.557 I	26	32			2									4,000
1/26/97   CentCom   AOE 7   DD 982   15:30   17:05   X     1/27/97   CentCom   AOE 7   CV 63   7:20   9:10   X     1/27/97   CentCom   AOE 7   DDG 60   11:10   12:25   X   1/27/97   CentCom   AOE 7   DD 992   15:00   20:15   X	117.903 322,892 55,095 104,764	9.437 170,852 1.491 6,017	28 l	38			6L 1									1.400
1/28/97   CentCom   AOE 7   CG 63   7.22   8.45   X     1/28/97   CentCom   AOE 7   CG 54   9.35   10.30   X     1/29/97   CentCom   AOE 7   DD 982   7.12   9.20   X     1/29/97   CentCom   AOE 7   DD 985   17:10   18:00   X	153,871 127,381 522,762 56,172	6.761 2,042 2,114 5,054	9 9 5	31			1									200 400 300
21/197   CentCom   AOE 7   DD 992   16:15   17:30   X	78,248 45,268 84,258 337,598	3,201 1,620	15	1 135			10									1,700
24497   CentCom   AOE 7   LPD 7   7:15   8:40   X   X	64,328 43,330 68,108 14,458	5,916	8 11	24 27 255			3									1,000
28/97   CentCom   AOE 7   TAFS 8   15:00   18:00   X	156,534 256,115 384,847 82,686 120,123	14,764 739,799 1,614 2,345	4	255												100
2/11/97         CentCom         AOE 7         Fgn SC         9:55         10:50         X           2/11/97         CentCom         AOE 7         FFG 30         16:15         16:50         X         X           2/14/97         CentCom         AOE 7         DD 984         16:00         16:51         X         X           2/15/97         CentCom         AOE 7         DD 992         8:35         9:36         X	29.809 77,910 81,746 60,000	1,050 7,245 5,000	5 3	6 3			9 4				· ·					
2/15/97         CentCom         AOE 7         FFG 30         11:11         11:45         X           2/21/97         CentCom         AOE 7         DD 984         7:47         9:00         X           2/21/97         CentCom         AOE 7         DD 992         7:55         8:50         X         X           2/23/97         CentCom         AOE 7         CV 63         16:15         19:10         X         X	50,000 120,000 130,000 950,000	9,000 1,000,400 6	1	2 74			30									1,000
2/23/97         CentCom         AOE 7         CG 54         17:05         18:00         X         X           2/23/97         CentCom         AOE 7         CG 64         18:20         19:10         X         X           2/23/97         CentCom         AOE 7         DD 985         19:30         20:10         X         X           2/23/97         CentCom         AOE 7         FFG 30         20:30         21:15         X         X	180,000 120,000 150,000 60,000	7,000 8,000 8,000	4 3 2 7	1			2									500 500 700 1,000
2/27/97         CentCom         AOE 7         CV 63         7:35         10:25         X         X           2/27/97         CentCom         AOE 7         CG 54         7:43         8:28         X         X           2/27/97         CentCom         AOE 7         FFG 30         8:40         9:28         X         X           2/27/97         CentCom         AOE 7         CG 63         9:35         11:10         X         X	470,000 100,000 70,000 10,000	8,000	27 3 7 8													500 300
3/22/97   WestPac   AOE 7   CG 54   11:50   13:10   X	60,000 67,000 800,000	6,000 X	7													400 200
3/25/97   WestPac   AOE 7   CG 63   8:00   9:00   X   X			8 8													30
3/27/97   WestPac   AOE 7   CV 63   19:10   21:18   X     3/31/97   MidPac   AOE 7   CV 63   6:00   8:10   X     4/1/97   MidPac   AOE 7   CG 63   7:35   8:05   X   X   4/1/97   MidPac   AOE 7   CG 54   7:35   8:20   X   X   X	650,000 700,000		8 7													200
4/1/97         MidPac         AOE 7         FFG 30         8:10         8:45         X           4/1/97         MidPac         AOE 7         AE 33         8:30         10:10         X         X           4/2/97         MidPac         AOE 7         DDG 998         6:30         8:20         X	100,000 200,000 150,000		10													400
4/397   MidPac   AOE 7   AE 33   X	600,000	200,000	15 30													
4/5/97         MidPac         AOE 7         CG 63         7:35         8:35         X           4/5/97         MidPac         AOE 7         FFG 30         8:45         9:30         X           4/5/97         MidPac         AOE 7         AE 32         15:15         17:30         X         X           4/7/97         MidPac         AOE 7         AE 32         X         X           4/7/97         MidPac         AOE 7         AE 33         8:55         10:20         X         X	120,000 50,000 165,000	8,000 400 780														100
47/197         MidPac         AOE 7         AE 33         8:55         10:20         X         X           9/3/97         WestPac         AOE 1         FFG 54         X         X           9/7/97         WestPac         AOE 1         FFG 54         X           9/7/97         WestPac         AOE 1         DD 965         X		4,000 2,691														
9/10/97         WestPac         AOE I         FFG 54         X           9/10/97         WestPac         AOE I         DD 965         X           9/10/97         WestPac         AOE I         CG 57         X           9/10/97         WestPac         AOE I         CV N68         X         X           9/10/97         WestPac         AOE I         CV N68         X         X           9/11/97         WestPac         AOE I         AOI 180         X	209,989	5,495 2,205 520,000 76														

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Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	IP-5	Ammo	Pax	Cargo	Plastic	Fit Frt	Plastic	Flt Frt	Qcog S	SODA E	HULL.	FFV/	Dairy	Dru	FFV C	ill Gree	ze Gi	1 40	Hazmat	Dates	regree T	Minn	Δ I	\$4.00
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		ship		1.							1	ı	l	Retro	etc	etc.	Qcog/Fill		i	- 1	Dairy	- 1		Dry		- 1	Dktd	[ [	i		careo	- {	1
į.	1	1								Cal	Dat	1	Dal	13.1	1 10 1	6.		12 .		<del>  </del>				<del></del>			- D Kita				cargo		
				<b></b>				L		Gar	rai	1	l'ai	Pal	Pai	Pat	Pai	Pal }	Pai	Pal	Pal	l'ai	Pal	Pal   Pa	al Pa	∣ Pa	i Pai	Pal	Pal I	Pal	Pal	Pal	Pounds
i .																								•									
<b>—</b>																				Par	ceints -												
1 '																				1100	raihra -												

3/23/97 WestPac TAO 200 AOE 7 7:30 10:55 X X 1.613.516 103.054

4/2/97 MidPac AO 180 AOE 7 10:30 15:15 X X 2.450,000 200,000

9/10/97 WestPac CVN 68 AOE 1 X X 75

Date Location Source/CLF Customer Start Finish CONREP VERTREP	INREP DFM JP-5	Ammo Pax Freeze Food Chill Dry Chill/ Dairy FFV/ chill chill/ ffv Other Soda Fit Frt Flt AO fittirt/ Hull Flull/ Fill Pot- JETE Retro Q-Cog Nitro Lube A/C Mail NRFI/ Frt/Qcog/F
	Gal Gal	Pai         Pal         Loads         Pal         Loads         Loads         Pal         P
		Deliveries —
9/14/97         WestPac         AOE 1         FFG 54         X         X           9/14/97         WestPac         AOE 1         DD 965         X         X           9/14/97         WestPac         AOE 1         CG 57         X         X           9/14/97         WestPac         AOE 1         CG 73         X         X           9/17/97         WestPac         AOE 1         DD 965         X           9/17/97         WestPac         AOE 1         CG 37         X           9/17/97         WestPac         AOE 1         CVN 68         X           9/17/97         WestPac         AOE 1         CG 73         X           9/17/97         WestPac         AOE 1         CG 73         X           9/18/97         WestPac         AOE 1         FFG 54         X           9/18/97         WestPac         AOE 1         DD 965         X	82.752 7.228 193.902 3,057 172,000 3,870 222,794 7,802 62.551 1,710 82,000 217,537 90,232 1,579 46,583 5,200 79,548	
9/20/97 WestPac AOE t TAE 26 X		68
9/22/97 WestPac AOE   Yokosuka X		
9/23/97         WestPac         AOE 1         FFG 54         X           9/23/97         WestPac         AOE 1         CG 57         X           9/24/97         WestPac         AOE 1         DD 965         X           9/24/97         WestPac         AOE 1         CG 73         X	63.232 3,925 212.000 8,500 193,479 2.095 241,212 7,529	
9/26/97 WestPac AOE   CVN 68 X X	799,000	158
9/27/97         WestPac         AOE I         FFG 54         X         X           9/27/97         WestPac         AOE I         DD 965         X           9/27/97         WestPac         AOE I         CG 57         X         X           9/27/97         WestPac         AOE I         CG 73         X         X           9/30/97         WestPac         AOE I         HC-11 (22)         X         9/30/97         WestPac         AOE I         HC-5 (3)         X         9/30/97         WestPac         AOE I         HSL DET         X         9/30/97         WestPac         AOE I         HSL DET         X         9/30/97         WestPac         AOE I         HSL DET         X         10/2/97         WestPac         AOE I         CVN 68         X         X         10/2/97         WestPac         AOE I         CVN 68         X         X         10/3/97         WestPac         AOE I         DD 965         X         X         10/3/97         WestPac         AOE I         DD 965         X         X         10/3/97         WestPac         AOE I         CG 73         X         X         10/3/97         WestPac         AOE I         CG 73         X         X         10/4/97         WestPa	\$5,414 3,000 134,464 2,805 141,000 2,900 162,432 4,121 11,478 1,017 336 1,414,366 85,000 52,742 157,947 125,000 1,480 138,332 24,563	
10/9/97   WestPac   AOE     DD 971   X     10/9/97   WestPac   AOE   FFG 54   X     10/9/97   WestPac   AOE   DD 965   X     10/9/97   WestPac   AOE   CG 57   X   X     10/9/97   WestPac   AOE   CG 73   X   X   10/9/97   WestPac   AOE   CW 74   X     10/9/97   WestPac   AOE   FFG 54   X   X     10/9/97   WestPac   AOE   FFG 54   X   X     X       10/9/97   WestPac   AOE   FFG 54   X   X   X	123,000 4,000 77,931 183,828 3,273 253,000 3,000 206,298 4,204 147,000 48,442 2,019	
10/14/97   WestPac   AOE     FFG 55   X	29,042 66,794 220,000 4,205 255,194 5,660	
10/18/97   CentCom   AOE   FFG 54   X	40,025 6,694 116,439 6,472 1,357,816 124,832 4,498	7 5 2
10/19/97   CentCom   AOE 1   DD 965   X	219,870 75,500 51,227 40,384 187,500	
10/25/97   CentCom   AOE     Jebel Ali	50,412 127,000 251,000 132,100 5,450 148,615 2,711 74,410 4,617 11,361 1,486,476	3
11/1/97         CentCom         AOE I         CVN 68         X         X           11/3/97         CentCom         AOE I         CG 73         X           11/4/97         CentCom         AOE I         Bahrain         X           11/5/97         CentCom         AOE I         FFG 55         X	716,184 109,809 8,329	5 12 74 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11/7/97   CentCom   AOE 1   TAFS 8   X   X	73,300 4,960	2 16

Date	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons)	. JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Fit Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry	FFV (	Chill I	Freeze	Fill	AO F	Hazmat	Retro	JETE	1	Q-cog N	1ail
			1						<b></b>	Gal	Pal	<del> </del>	Pai	Pal	Pal	Pal	Pal	Dal	Dal	Dal	Daily	Dai	Del	Diy	Dat	D.J	- D-1	DKIG	I		<del>  </del>	cargo		
_			1	· · · ·		·	····				1	ــــــــــــــــــــــــــــــــــــــ		1	1	1 (4)	L	I ai	l ai	rai	rai	rai j	rai	rai	Par	Pai	Pai	Pai	Pal	Pal	Pal	Pal	Pal Po	unds
4																				_ Re	ceipts													_
9/11/97	WestPac	AOJ 180	AORI	l		V 7			1,585,209	288,592	<del></del>	_				<del></del>		,																

9/18/97	WestPac	TAFS 7	AOE 1			X	1	T	T	1	<u> </u>	T	Т	1	1 1		5   2	1.	3	15	· ·			 			<del></del>		
9/18/97	WestPac	TAO 197	AOE I		X			1,114,837	395,187	Ι								<u> </u>				工							上
9/20/97	WestPac	TAE 26	AOE I			X	L	T	I .	265				Ι				Τ		I									
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125/97	WestPac	Jebel Ali	AOE I		X			1,145.144					1	1	<u> </u>					<u> </u>									

10/6/97	WestPac	TAO 202	AOE I	F		х	X	<del></del>	1,471,741	782,100	· r · · · · · · · · · · · · · · · · · ·						 <del></del>								,						
10/8/97	WestPac	CVN 68	AOE 1				X	<del> </del>	1,471,741	782,100	<del></del>	+			2	<b></b>	 +	-		18											
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10/12/97	WestPac	Jebel Ali	AOE I			X	Х	T	1,982,999	118.031		Т Т			1 1				1									-		<del></del>	<del></del>
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10/15/97	CentCom	Bahrain	AOE 1				Х	1		T	2	2			2		 Т			25	1	т-				- т				-т	,
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10/18/97	CentCom	CVN 68	AOE I	— т	I		Х	<u> </u>	1	Τ	1	<del></del>	<del></del>	· · · · · · · · · · · · · · · · · · ·			 	T			<del></del>										
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10/22/97	CentCom	Sir Boh Det	AOE I		···		х	-T	<del></del>	r	1	1 1						21.													
10/23/97	CentCom	Jebel Ali	AOE 1			х	x	+	1,730,844	1,374,847		+			34		 8	21		18	15								_		
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11/5/97 CentCom Bahrain AOE 1 X 6 2

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11/4/98 CentCom Bahrain AOE 1 X

Date Location Source/CLF Customer Start Finish		DFM JP-5 Ammo	Pax         Freeze         Food         Chill         Dry         Chill/ Dairy         FFV/ FFV/ FFV/ FFV/ FFV/ FFV/ FFV/ FFV/	s DLRs
4			Pai Loads Pai Pai Pai Pai Pai Pai Loads Loads Pai Pai Pai Pai Pai Pai Pai Pai Pai Pai	Pounds Pal
11/8/97   CentCom   AOE   FFG 5	X X	58,365     3.817       38,522     4.885       84,175     5.790       3.912     5,597     2	1 3 3 3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
11/11/97   CentCom   AOE 1   LSD 45     11/11/97   CentCom   AOE 1   FFG 51     11/11/97   CentCom   AOE 1   LPD 10     11/11/97   CentCom   AOE 1   LIA 5     11/11/97   CentCom   PEL   AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1     AOE 1       AOE 1	X	73,694 38.111 3.060 95,529	2 1 3 9 8 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11/13/97   CentCom   AOE 1   DDG 965	X X X X X X X X X X X X X X X X X X X	74,405 8.609 75,092 1.970 14,000 8.100 22,429	1 5 1 1 7 8 1 1 1 7 8 1 1 1 1 7 8 1 1 1 1 1	
11/15/97   CentCom   AOE 1   Jebel Alii	X			
11/17/97   CentCom   AOE   DD 987	X X 9	322,335 8,723 8,000 44,566 5,000	6 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11/19/97   CentCom   AOE   DD 986	X	I.	3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
11/23/97   CentCom   AOE   DDG 65     11/23/97   CentCom   AOE   FFG 54     11/23/97   CentCom   AOE   DD 987     11/23/97   CentCom   AOE   CG 73     11/23/97   CentCom   AOE   FFG 55     11/24/97   CentCom   AOE   CG 57     11/24/97   CentCom   AOE   CVN 68     11/24/97   CentCom   AOE   CG 73     11/24/97   CentCom   AOE   CG 73     11/24/97   CentCom   AOE   AOE 3     11/24/97   CentCom   AOE   AOE 3     11/24/97   CentCom   AOE   DD 987	X	9,477 7,808 5,706 7,953 6,153 84,483 7,150 645,000 33,343 6,224 31,062 6,600	1	
11/26/97   CentCom   AOE I   Jebel Ali	X		9 1	1 1 1
11/30/97   CentCom   AOE   CG 57		54.718 7.484 (3.979 418 15.944	2 2 6 7 6 5 2 1	
12/5/97   CentCom   AOE 1   CVN 73	Х		9 9 22 37 27 13 2	
12/4/97         CentCom         AOE 1         CG 73           12/5/97         CentCom         AOE 1         CG 73           12/5/97         CentCom         AOE 1         DDG 65           12/5/97         CentCom         AOE 1         DDG 64           12/5/97         CentCom         AOE 1         FFG 51           12/5/97         CentCom         AOE 1         DD 986           12/5/97         CentCom         AOE 1         FFG 54           12/6/97         CentCom         AOE 1         FFG 55           12/6/97         CentCom         AOE 1         DD 987           12/9/97         CentCom         AOE 1         DD 987           12/9/97         CentCom         AOE 1         TAFS 9	X X X X X X X X X X X X X X X X X X X	7.877 1.580 8.186 6.800	1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
12/10/97   CentCom   AOE 1   LiTA 5     12/10/97   CentCom   AOE 1   LPD 10     12/10/97   CentCom   AOE 1   LSD 45     12/10/97   CentCom   AOE 1   FFG 54     12/10/97   CentCom   AOE 1   DDG 64     12/10/97   CentCom   AOE 1   DDG 65     12/11/97   CentCom   AOE 1   DD 986     12/11/97   CentCom   AOE 1   fgn FFG     12/14/97   CentCom   AOE 1   CG 57     12/14/97   CentCom   AOE 1   CVN 68	X X 133 X 700 X X X 800 X 566 X X X 900 X X Y 900	1.386 107,609 2,809 1,954 0,652 10,187 1,763 2,451 1,239 1,148 0,000 9,700 917,402	4	

Date Location Source/CLF Customer Start Fig. ship ship    11/7/97 CentCom TAFS 8 AOE I	CONREP   VERTREP   INREP   DFM (gallons)   JP-5   Ammo   Pax   Cargo   Plastic   Fit Frt   Plastic   Fit Frt   Qeog   SODA   FIULL   FFV   Dairy   FFV   Chill   Freeze   Fill   AO   Hazmat   Retro   JETE   Misc   Qeog   Mail   Additional   Cargo   Mail   Cargo   Mail   Cargo   Cargo   Mail   Cargo
11/8/97   CentCom   FFG 54   AOE 1	X 1 1 1 10 10 10 1 10 10 1 10 1 10 1 10
11/11/97   CentCom   AOE t   LHA 5	X 5 34 9 1 1 1 2
11/13/97   CentCom   DD 965   AOE	X 2 2 2 2 2 2 3 X 2 3 2 42 3 3 2 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 3 42 3 42 3 3 42
11/19/97 CentCom Bahrain AOE 1	
11/22/97 CentCom DUCK AGE I	X 2
11/24/97   CentCom   TAFS 9   AOE 1	X
12/1/97   CentCom   Bahrain   AOE	X
12/9/97   CentCom   TAFS 9   AOE 1	X

ship	REP DFM			ax Freeze		EFV	/ Dai	FFV/ V Dairy st	11/ ffv Other		Frt/Qcog	/F DKLD at	frt/ Hull	OKI D	Pot- JE Water	TE Retro	Q-Cog	Nitro Lube	1	Mail NRFV
<b>◆</b>	Gal	Gal	Pai	Pal	Loads Pal	Pal Pal	Pal Pa	Pal L	oads Loads			Pal F	al Pai	Pal Pal	Gai F	Pal Pal	Pal	Pal Pal		Pounds Pai
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12/15/97   CentCom   AOE 1   FFG 58   X   X   X	80.005	10,638		7	2	12	<del>                                     </del>			2	7		4				4			
12/16/97   CentCom   AOE	49,276											<u> </u>								
12/19/97   ContCom   AOE     Jebel Afi   X		L			J		L			T I	23	4			T				<del>                                     </del>	
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12/26/97   CentCom   AOE 1   TAO 199   X		T T					1 1	1	·	T ; T	7	<del></del>	<u> </u>					1	<del></del>	
12/26/97   CentCom   AOE 1   CG 57   X											3									
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12/29/97   CentCom   AOE 1   LHA 5   X   X	231,503	59,302	3				T	<del></del>	<del></del>	1 1	1	7 + 1	<del></del>		1 1	<del></del>		· · · · · · · · · · · · · · · · · · ·		
12/29/97   CentCom   AOE   FFG 51   X	68.258	7,003		1						1										
12/29/97	116,411																			
12/30/97   CentCom   AOE   FFG 58   X   X   X	59,541	11,331		Т			LT					1								
12/31/97	53,052 267,903	5,094		3	ı	8	6			3			1		1-1-		1			
12/31/97   CentCom   AOE 1   DD 965   X	46,318 503,180			-																
12/31/97		397																		
12/31/97		311 14,775									_	+	+		- T					
1/1/98   CentCom   AOE   DDG 64   X   X   X   X   X   X   X   X   X	203,657 267,615	1,896 8,717	4 2	+													1			
1/1/98   CentCom   AOE   DD 973   X		689.811	5			10						1.1								
1/3/98		793,200				10								21					-	
1/5/98         CentCom         AOE 1         CVN 68         X         X           1/5/98         CentCom         AOE 1         FFG 54         X         X	52,117	1,459,962 10,206	170	2	6	7	<del>                                     </del>	+ +-			7 2	2		1						
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1/1/98   CentCom   AOE   TAFS 9   X						135				61				49						
1/8/98   CentCom   AOE   CG 73   X   X   X	151,235	<del></del>	3	1 4	2	13				4	3	2					Т			1
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I/10/98   CentCom   AOE 1   TAO 199   X											2	6								
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1/12/98   CentCom   AOE   DD 965   X	138,852	3,958		T															· ·	
1/12/98	43,147	8,400 3,531						<del>-                     -   -  </del>				-		_	-					
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1/14/98	75,974			1 1	- 1	1 1	] 5					1 1		2						
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1/19/98 CentCom AOE 1 TAE 26 X X	32,466 214,129		352				<del> </del>			<del></del>	2 6			1						
1/19/98   CentCom   AOE   TAE 26   X   X   X	32,466 214,129 141,831 74,845	3,406	352		1		3			<del></del>		1 2								
1/19/98   CentCom   AOE   TAE 26   X   X   X	32,466 214,129 141,831 74,845 148,802	3,406	352		1		3			<del></del>		1		1						
1/19/98   CentCom   AOE   TAE 26   X   X   X	32,466 214,129 141,831 74,845	3,406	352	1	1	1	3			<del></del>		1 2		1						
1/19/98   CentCom   AOE   TAE 26   X   X   X   1/19/98   CentCom   AOE   DD 965   X   X   X   1/19/98   CentCom   AOE   DD 965   X   X   X   1/19/98   CentCom   AOE   FFG 54   X   X   X   1/19/98   CentCom   AOE   DD 965   X   X   X   X   1/24/98   CentCom   AOE   DD 965   X   X   X   1/24/98   CentCom   AOE   FFG 54   X   X   1/24/98   CentCom   AOE   CG 57   X   X   X   1/24/98   CentCom   AOE   CG 57   X   X   X   1/24/98   CentCom   AOE   CG 57   X   X   X   1/24/98   CentCom   AOE   CG 57   X   X   X   X   X   X   X   X   X	32,466 214,129 141,831 74,845 148,802	3,406 3,200 3,525	352	1	1	1 5	3					1 2		1						
1/19/98   CentCom   AOE   TAE 26   X   X   X	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000	3,406 3,200 3,525 6,372	352		1		3			6		1 2 2 2		2						
1/19/98   CentCom   AOE   TAE 26   X   X   X   X   X   X   X   X   X	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 855	3,406 3,200 3,525 6,372	352				3			6		1 2 2 2		2						
1/19/98   CentCom   AOE   TAE 26   X   X   X   X   X   X   X   X   X	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221	3,406 3,200 3,525 6,372	352		1		3			6		1 2 2 2		2						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 855 13,996 167,775 173,202	3,406 3,200 3,525 6,372 4,600	352	3	-	5	3			6 3		1 2 2 2		1 1 1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 855 13,996 167,775 173,202 181,000 152,760	3.406 3.200 3.525 6.372 4.600 1.704 1.704 2.900 2.396	352				3			6		1 2 2 2		2						
1/19/98   CentCom   AOE   TAE 26   X	32,466 214,129 141,831 74,845 148,802  164,286 79,192 175,000  1,011,335 221 855 13,996 167,775 173,202 181,000 152,760 73,798 142,861	3,406  3,200  3,525 6,372 1,600  1,704	352	3		5	3			3 3		1 2 2 2		1 1 1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 835 13,996 167,775 173,202 181,000 152,760 73,798	3.406 3.200 3.525 6.372 4.600 1.704 1.704 2.900 2.396	352	3	1	5	3			3 3		1 2 2 2		1 1 1						
1/19/98	32,466 214,129 141,831 74,845 148,802  164,286 79,192 175,000  1,011,535 221 855 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719	3.406 3.200 3.525 6.372 4.600 1.704 1.704 2.900 2.396	352	3		5	3			3 3 8	6	1 2 2 1		1						
1/19/98	32,466 214,129 141,831 74,845 148,802  164,286 79,192 175,000  1,011,535 221 855 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815	3.406 3.200 3.525 6.372 4.600 1.704 1.704 2.900 2.396	352	3		5	3			3 3 8		1 2 2 2		1 1 1						
1/19/98	32,466 214,129 141,831 74,845 148,802  164,286 79,192 175,000  1,011,535 221 855 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719	3.406 3.200 3.525 6.372 4.600 1.704 1.704 2.900 2.396	352	3		5	3			3 3 8	6			1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 835 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815	3,406  3,200  3,525 6,372 4,600  1,704  2,900 2,396 3,064	352	3		5	3			3 3 8	6			1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 835 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815 132,380 67,942 430,794 257,000	3,406 3,200 3,525 6,372 4,600 1,704 2,900 2,396 3,064 3,599 1,3,900		3		5	3			3 3 8	6			1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 855 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815 132,380 67,942 430,794 257,000 79,956 35,496	3,406  3,200  3,525 6,372 1,600  1,704  2,900 2,396 3,064  3,599		3		5	3			3 3 8	6			1						
1/19/98	32,466 214,129 141,831 74,845 148,802 164,286 79,192 175,000 1,011,535 221 835 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815 132,380 67,942 430,794 257,000 79,956 35,496 32,533 33,879	3,406 3,200 3,525 6,372 4,600 1,704 2,900 2,396 3,064 3,599 1,3,900		3		5	3			3 3 8	6			1						
1/19/98	32,466 214,129 141,831 74,845 148,802  164,286 79,192 175,000  1,011,535 221 835 13,996 167,775 173,202 181,000 152,760 73,798 142,861 139,719 77,815  132,380 67,942  430,794 257,000 79,956 35,496 32,533	3,406 3,200 3,525 6,372 4,600 1,704 2,900 2,396 3,064 3,599 1,3,900		3		5	3			3 3 8	6			1						

Date	Location	Source/ CL	F Customer	Start	Finish	CONREP	VERTREP	INREP	DFM (gallons	JP-5	Ammo	Pax	Cargo	Plastic	FIL Frt	Plastic	Flt Frt	Qcog	SODA	HULL I	FV/ E	airy Dry	FFV	Chitt	Freeze	Fill	AO	Hazmat	Retro	JETE   Mis	c Q-cog	Mail
<u> </u>	-	ship	-		ļ	ļ	<u> </u>	<del> </del>		Gal	Pai		10.7	Retro	etc	etc.	Qcog/Fill	1		E	airy		Dry				Dkld			carg	0	
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12/10/07	T 0 .0	1	1 100	<u>,                                     </u>	<u> </u>				.l		<u> </u>	<del></del>				<u> </u>	L	L								L1						
12/18/97	CentCom		AOE I	<u> </u>	1	] X	1	1	2,191,519	1,085,743	.1	<u> </u>	J	<u> </u>	L	L			l.													
12/19/97	CentCom	Jebel Ali	AOE I	1			X	J	I	Ι		Ι			5			L			5										ΙΤ	
12/23/97	CentCom	Jebel Ali	AOE 1			Ι	X	I		L		Ι	1						T				T	Т		ГТ	4				<del>"</del>	
12/26/97	CentCom	Jebel Ali	AOE 1	1		ı	· ·				T		,		<del></del>			,														
12/28/97	CentCom		AOE I				X				1	11	<u> </u>	<del> </del>	12			+-+		1	22	_	+	-7			10					
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12/29/97	CentCom	FFG 51	AOE 1	T	T		х	1	<u> </u>	1	1	1	·	γ	T			ТТ			- I		1 1			1		<u>1</u>			т т	
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1/5/98	CentCom	CVN 68	AOE 1	I			Х				2								1		<del></del>	Т		—т	1		3	Т	~		T T	
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Date Location Source/CLF Customer Start Finish CONREP VERTREP INREP		
Date Location Source/CLF Customer Start Finish CONREP VERTREP INREP	DFM JP-5 Ammo Pax Freeze Food Chill Dry Chill Dairy FFV/ Chill chill/ffv Other Soda Fit Frt Frt AO tltfrt/ Hull Hull/ Fill Pot JETE Retro Q-Cog Nitro Lube A/C Mail	NRFI/
chum		
3119	GL CL DKLD Water Oil Engines	DIRe
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- 1	·	Location	Source/ CLF	Customer	Start	Finish	CONREP	VERTREP	INREP DFM (gallons)	JP-5	Ammo	Pax	Cargo	Plastic	Flt Frt	Plastic	Flt Frt	Qcog	SODA	HULL	FFV/	Dairy	Dry FF	V Chil	1 Freeze	Fill	LAO	Hazmat	Retto	FETTE	Mina	O ana T	34-21
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