

# SECTION C



**PERFORMANCE WORK STATEMENT (PWS)**

for

**AIRCRAFT/GROUND FUEL SERVICES**

and

**FUEL/CRYOGENIC STORAGE AND DISTRIBUTION**

under

**SOLICITATION SP0600-04-R-0011**

**NAVAL AIR FACILITY**

**EL CENTRO, CA 92243-5001**

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#### Note:

Words, phrases, references, and notations highlighted in **medium blue and underlined** are **hypertext** or links to the area of the PWS or files being referenced. Simply point to and click (left mouse button) to jump to that area or referenced. For instance, point to and click on **Table 1, Hours of Operation**, to quickly get to and view that table. To return to your original point (here), click on the aqua blue “back” arrow, the arrow pointing to the edge of the screen, at the upper left corner of the page screen. Note that the hypertext turns a **medium violet** once it has been used; however, it can be use as often as needed. It will return to the **medium blue** once you save the file and reboot your computer.

If applicable, words, phrases, and sections highlighted in **red** refer to outlying (**NALF and OLF**) fields.

If applicable, words, phrases, and sections that may be highlighted in **sky-blue** refer to **cryogenic** operations.

Sections **highlighted in yellow** represent equipment, components, and issues that may or may not be applicable, required, or desirable at this location but are included for review.

## C-1.0 GENERAL

### C-1.1 Description

**C-1.1.1 Responsibilities:** This Performance Work Statement (PWS) is established to identify the responsibilities of the Alongside Aircraft Refueling Contractor (AARC), hereafter referred to as the Contractor, to manage, maintain, and operate Government owned fuel and cryogenic facilities and equipment at **Naval Air Facility (NAF) El Centro, CA**, hereafter referred to as **NAF El Centro**. Furthermore, this PWS establishes the Contractor's responsibility to furnish, manage, maintain, and operate mobile fuel servicing equipment required and necessary to support the facilities, equipment, vehicles, and aircraft assigned to and as may transit, deploy to, or exercise from NAF El Centro.

#### Note

**Unless specified otherwise, i.e. two (2) 20,000-barrel jet fuel tanks, all figures, tables of figures, and data regarding the receipt, movement, issue, measurement, and inventory of products, to include cryogenics products, are stated in US Gallons.**

**C-1.1.2 Facilities, General:** The NAF El Centro fuel facility is a compact system consisting of two 20,000-barrel jet fuel tanks and components required to receive, hold, and dispense the aviation fuel required to support the mission. The bulk system is connected by pipeline to a small capacity direct refueling system located at building 186. The entire system is supplied by commercial pipeline operated by Kender Morgan Energy Partners. Two vaulted used oil tanks are located within the bulk storage area. Other Contractor operated facilities consist of the automated service station at building 400, the Cryogenics facilities at building 204, and the fuel laboratory at building 609, within the bulk storage area. The dispatch center, the driver's ready room, and the site manger and contractor administrative offices are located in building 507. The Contractor's trucks are parked and maintained within bulk storage area.

### C-1.2 Mission

**C-1.2.1 Mission Support Functions:** NAF El Centro is a pilot training facilities and launch point for area ranges. Except for an assigned C-12 and T-34B aircraft, all petroleum support is provided to aircraft that transit, deploy to, or exercise from NAF El Centro. NAF El Centro is also the winter home of the Navy's Blue Angle Demonstration Team. In support of these missions, the Contractor shall be responsible for the following fuels and cryogenic management functions.

- ✓ Bulk product, aviation and ground fuel, receipt, storage, handling, and issue operations
- ✓ Fuel services (issue and defuel) of aviation fuels to aircraft, ground support equipment, and facilities using mobile fuel servicing equipment and/or fixed direct refueling/pantograph systems
- ✓ Bulk fuel services (issue) of aviation and ground fuels to other Government refuelers via the bulk storage fillstand facilities
- ✓ Fuel services (issue and defuel) of ground fuel products via mobile fuel servicing truck
- ✓ The testing of, collection (defuel) by truck, storage, handling, and disposal of Used Oil (fuel)
- ✓ The operation of the manual/automated service station to include receipt of products
- ✓ Product quality surveillance, sampling and testing, and fuel laboratory operations
- ✓ Fuel inventory and administrative functions to include the management of Fuels Automated System (FAS) and automated inventory/data gathering systems as they apply to petroleum and cryogenic functions
- ✓ The receipt, storage, handling, issue, and quality surveillance of cryogenic products (LOX and LN2) and gases
- ✓ All associated inspections, preventive maintenance (PM), and operator maintenance applicable to the petroleum and cryogenic systems and documentation of all inspections, PM, maintenance, and repair actions. These actions may include the installation, administration, and upkeep of an automated preventive maintenance program and other software as may be specified herein.

**C-1.2.2 Mission Support Responsibility:** The receipt, internal handling, and delivery of petroleum and cryogenic products to units assigned to or as may transit, deploy to, or take part in exercises at NAF El Centro shall be the responsibility of the Contractors.

## C-1.3 Contract Performance

**C-1.3.1 Performance:** The Contractor shall perform the tasks identified herein and achieve the performance standards outlined for each task. The Contractor shall, as outlined in [Section C-1.4, Detailed Plans](#), submit plans that demonstrate its capability to meet all performance standards and comply with all applicable Federal, state, and local laws, DOD policy, instructions and regulations, and NAF El Centro instructions and guidelines. Except as specified herein, the Contractor shall be responsible for obtaining computer access to or obtaining copies of all Federal and state laws, regulations, codes, and commercial/civil guidelines, including changes thereto, that are required and necessary to the performance of this contract. As noted in [Appendix D, Reference Documents](#), the contracted activity will provide a single copy of applicable DOD, Service, and local instructions, and changes thereto required under this contract.

**C-1.3.2 Drug Free Workplace:** As outlined in [Section I, Clause I102.04, Drug-Free Workplace](#), the Contractor shall endeavor to maintain a drug-free workplace through the implementation of the steps outlined within the aforementioned reference.

**C-1.3.3 Surveys:** In addition to the documentation generated under [Appendix F, Quality Surveillance Program](#), the Government may perform customer satisfaction surveys, which may be used as part of the assessment of contract performance. The COR has the option to increase the frequency of surveys to address contract compliance issues as needed.

## C-1.4 Detailed Plans

**C-1.4.1 General:** As specified herein, the Contractor shall submit detailed plans to the Government for review and acceptance. The required plans shall address the full range of fuel and cryogenic management related issues that apply to the contracted functions at NAF El Centro. All plans are considered dynamic documents that may require review and updating over the course of the contract. Plans to be submitted within 60 days of contract award provide the contracted activity time to review the documents and recommend changes prior to the contract start date. For those plans not required until after the contract start date, the Contractor shall comply with existing Government practices and procedures during the initial performance period. The ***bold Italics*** comments of the following paragraphs specify when each plan or a summary thereof is due and to whom it will be submitted. See [Section L, Instructions, Conditions, and Notices to Offers or Quoters, Clause L2.31](#), regarding the submission of summary plans for technical evaluation.

**C-1.4.2 Contract Compliance Plan:** Pursuit to the provisions of [Section E, Inspection and Acceptance, Clause E5.03](#), the Contractor shall provide a comprehensive and detailed plan that will ensure contract compliance. The plan, an internal, self-inspection system acceptable to the Government, shall address methods for meeting the performance standards established within [Section C-2.0, Specific Tasks](#). ***The complete Contract Compliance Plan shall be submitted to the contracted activity within 60 days of the contract start date.***

**C-1.4.3 Product Quality Surveillance Plan:** A comprehensive plan to ensure that products placed in the care of the Contractor are properly handled, remains on-specification, and are ready for issue. The plan shall include policy and procedure regarding sampling, testing at the level applicable to the specified fuel laboratory, laboratory equipment, documentation of tests, reports and records keeping, and actions to be taken in case of unacceptable test results. The plan shall fully outline Contractor responsibilities for quality surveillance under [Section C-2.0, Specific Tasks](#). ***The Product Quality Surveillance Plan shall be submitted to the contracted activity within 60 days of contract award.***

**C-1.4.4 Environmental Protection Plan:** Based on the requirements of [Section C-2.15, Environmental Protection](#), the Contractor shall submit a comprehensive and detailed plan outlining procedures necessary to protect the environment in accordance with all applicable DOD, USN regulations, and local laws. ***The Environmental Protection Plan shall be submitted to the contracted activity within 60 days of contract award.***

**C-1.4.5 Contract Contingency Plan:** The Contract Contingency Plan shall outline Contractor actions to ensure there are no significant interruption of services resulting from labor disputes, catastrophic failure of equipment, or the effects of national disasters/emergencies within the Contractor's control. The plan shall provide specific details regarding labor issues as may result from potential strike actions, military contingency and war time manning requirements, subcontracting as may be required to meet manning requirements, and the replacement of equipment anticipated to be out of service for more than 72 hours. The Contractor shall be responsible for repairing or replacing inoperable equipment or obtaining additional equipment and manpower required to carry out day-to-day and contingency operations. Upgrading or modifying equipment to meet specific off station and public, over-the-road requirements, licensing or obtaining permits for equipment and personnel to operate on public roads, and adherence to insurance requirements shall be the responsibility of the Contractor. *The Contract Contingency Plan shall be submitted to the contracted activity within 60 days of contract award and shall be fully implemented at contract start up.*

**C-1.4.6 Maintenance Plan:** As outlined in [Section I, Contract Clauses, Clause I114, Government Property](#) and [Section C-2.12, Preventive Maintenance – Facilities and Equipment](#), the Contractor shall establish and maintain a plan for the use, maintenance, repair, protection and preservation of the Government property identified herein. The Maintenance Plan, to include the installation and use of a Contractor furnished computer base preventive maintenance program, shall clearly outline the procedures for planning, programming, accomplishing, and documenting preventive maintenance. Repairs to equipment and facilities as may be directed under [Section C-4.2, Services Requiring a Task Order](#), Services Requiring a Task Order, shall also be covered. On acceptance, the plan shall be incorporated into the contract. The COR will review the plan as necessary during the term of the contract and communicate any need for changes to the Contractor through the Contracting Officer. *The Maintenance Plan, to include a draft copy of listings and reports to be generated by the computer based preventive maintenance program, shall be submitted to the contracted activity within 60 days of contract award.* The Contractor provided/installed PM program software will become Government property on termination of the contract. All PM reports, listings, and records generated will become Government property at the time they are generated.

**C-1.4.7 Operations Plan:** The Operations Plan is a comprehensive and detailed set of procedures systematically outlining all aspects and requirements, including emergency operating and shutdown procedures and staffing plans, for the tasks specified in [Section C-2.0, Specific Tasks](#). *The Operations Plan shall be submitted to the contracted activity within 60 days of the start of the performance period.*

**C-1.4.8 Inventory Control and Accountability Plan:** A comprehensive and detailed plan to ensure Contractor compliance with the inventory and reporting requirements of [DOD 4140.25M, DOD Management of Bulk Petroleum Products, Natural Gas, and Coal](#). Contractor performance with regard to the Fuels Automated System (FAS) and other fuel accounting issues as outlined in [Section C-2.9, Inventory and Administration](#), shall also be covered. *The Inventory Control and Accountability Plan shall be submitted to the contracted activity within 60 days of the start of the contract.*

**C-1.4.9 Fuel and Cryogenics Safety Plan:** As reflected in [Section C-2.1, Safety Program](#), the contractor shall provide a detailed plan outlining product handling characteristic and the procedures necessary to maintain a safe working environment. The plan, a compendium of references, local laws, and regulations applicable to the products stored and handled, Material Safety Data Sheets, and guidelines regarding the handling of such products shall be maintained and updated over the course of the contract. *The Fuel and Cryogenics Safety Plan shall be submitted to the contracted activity within 60 days after contract award.*

**C-1.4.10 Security Plan:** A detailed security plan as summarized in [Section C 2.16, Security](#), shall clearly identify Contractor responsibility for maintaining the security of Government facilities, equipment, data processing computer systems, and materials, as well as any Contractor furnished equipment, tools, and materials. *The Security Plan shall be submitted to the contracted activity within 60 days after contract award.*

**C-1.4.11 Training Plan:** The Contractor shall publish a comprehensive plan outlining training requirements and objectives, see [Section C-2.13, Training and Records Keeping](#). It shall list course and subject titles, provide a brief description of the subject, identify training sources and the employees to be trained (by job classification), establish the frequency of training, and detail the method of monitoring plan compliance. Training required by state and local governments, i.e., Marine Terminal Operator, shall also be included. *See Section L, Instructions, Conditions, and Notices*

*to Offers or Quoters, Clause L2.31, regarding the submission of a summary Training Plan. The complete training plan shall be provided to the contracted activity during the contract turnover.*

**C-1.4.12 Transition Plan (New contract activities):** Not applicable under this contract.

## **C-1.5 Contract Turnover**

**C-1.5.1 Assistance:** In the event of a Contractor change and contract turnover, the successor Contractor shall, during the last 72 hours of the expiring contract, be provided assistance by the outgoing Contractor and the COR in accomplishing a joint facilities turnover inspection. The inspection shall provide for a facilities walk-through and property inventory (validation/update of [Appendix A, Government Furnished Facilities](#) and [Appendix B, Government Furnished Equipment, Supplies, and Services](#)), product sampling and testing, and a complete product inventory.

**C-1.5.2 Access:** On contract award, the successor contractor shall be granted access to the base and all contracted facilities to survey those facilities and observe operations necessary to the drafting of the detailed plans required under [Section C-1.4, Detailed Plans](#), above. During the last two weeks of the expiring contract, the outgoing Contractor shall permit personnel of the successor Contractor access to all contracted facilities to observe operations.

## **C-1.6 Planning Information**

**C-1.6.1 Workload:** Based on the workload data reflected by the various tables and exhibits of this PWS, the Contractor should, on average, plan to issue approximately **680,000** gallons of jet fuel to some **936** aircraft per month; however, a workload surge of **1,626,870** gallons to **3,012** aircraft occurred in January 2001. The Contractor should also plan to undertake, as outlined herein, ground fuel delivery operations as defined by and within the time frames established by [Table 1, Hours of Operation](#). With regard to the ground services tasks, the Government reserves the right to reprioritize/redirect such operations, change established schedules, and to add/delete delivery/collection points as may be required by the Government and directed by the COR without change to the contract or cost to the Government.

**C-1.6.2 Information:** Workload information for specific fuel services, i.e., the receipt, movement, and issue of products, quality surveillance, inventory, and other workload factors, are quantified in the various sub-sections of [Section C-2.0, Specific Tasks](#). The various exhibits to this PWS provide a more detailed view of product receipts and issues, and fuel services by truck and direct refueling systems, as may be applicable, in terms of total services by day and month, and average daily workload. However, unforeseen workloads such as the testing of fuels after normal laboratory duty hours or contingency support of any type are not quantified. The data outlined herein is historic information provided to serve as the planning baseline for the fuel services functions. Based on this historic information coupled with real time flight operations schedules, aircraft/squadron deployments, exercise and training schedules, and air show/public exhibit schedules provided by the base, the Contractor shall be fully responsible for adjusting levels of and providing personnel and equipment to meet workload demands for day-to-day flight operations, exercises, air show/public exhibits, and other real time workload variances that may affect fuel services operations. As an aid to the Contractor, the contracted activity will, to the extent possible and practical, provide daily flight schedules, exercise/deployment schedules, identify all known and scheduled events the contractor will be responsible for supporting, and provide the Contractor schedules, correspondence, and message traffic regarding all such events.

**C-1.6.2.1 Air Show AVGAS Services:** Annually, at the end of the Blue Angles winter deployment, NAF El Centro sponsors an air show. Given the air show dates and base/COR tasking as outlined in [Section C-4.2, Services requiring a Task Order](#), the contractor shall, by whatever means deemed most cost effective to the Navy, plan for and support all AVGAS requirements. The Contractor shall provide the equipment, See [Section C-3.1.3, Refuelers](#), (less relaxation chambers if other than in place equipment is used) or sub-contract for the services required. In either case, the Contractor shall arrange for the quality surveillance of the product supplied, the servicing of aircraft as required, the post air show disposition of residual product, and the disposition (removal from the base) of contractor provided/sub-contracted equipment.

**C-1.6.3 Outlook.** Discussions with Fuels Management regarding the current and future mission of NAF El Centro indicate there are no known or anticipated changes of assigned units or to the mission or flight operations. This outlook does not however preclude fundamental changes in mission, flight-training schedules, and assignment of units as may be undertaken by the Department of Defense, the Navy, or other agencies that may be tasked to operated from NAF El Centro. The Contractor will be notified as the requirement for long-term changes are made known and contract adjustments are deemed necessary and appropriate.

## C-1.7 Operating Hours

**C-1.7.1 Contractor Coverage:** As published in the Flight Information Supplement (FLIP), airfield operating hours for NAF El Centro are 0800 to 2400 Monday through Thursday, 0800 to 1900 Friday, 0800 to 1600 Saturday (1 April – 30 September), and 0800-1900 Saturday (1 October – 31 March). The airfield is closed outside the aforementioned weekday and Saturday hours, Sundays and Federal holidays; however, aircraft maintenance activities requiring fuel services may be undertaken anytime. As a rule, [Table 1, Hours of Operation](#), establishes fuel services operating hours that meet or exceed the published airfield-operating window. The Contractor shall provide continuous and immediate fuel support services within the response time established in [Section C-2.2.2.2, Response](#), for the hours specified in [Table 1, Hours of Operation](#); however, the Contractor shall be fully capable of responding to the demand for all fuel and cryogenic support and services anytime, 24 hours per day, year-round, including holidays.

### Note

As used above, “shall be fully capable of,” should not be construed to mean or imply a requirement for full time staffing outside the hours specified in [Table 1, Hours of Operation](#); however, see the note following [Section C-2.2.2.2, Response](#).

**C-1.7.2 Labor Categories:** Offers shall include all labor associated with all specified operations in the price for the appropriate Contract Line Item Number (CLIN). Work that is considered outside of specified operating hours, i.e., the servicing of aircraft outside the hours specified the [Table 1, Hours of Operation](#) and deemed necessary by the local command or real time contingencies, will be reimbursable as outlined in [Section C-4.3, Augmentation](#). The Government will reimburse the contractor only for approved augmentation worked by “service personnel,” as described in [Section C-1.9.2, Service Personnel](#). Essential personnel as listed in [Section C-1.9.1, Essential Personnel](#), are a part of the Contractor’s Management Team and shall not be considered to be “service personnel” as defined by [Section I, Clause I100, Service Contract Act of 1965](#), as amended.

**C-1.7.3 Hours of Operation:** The following is a table of petroleum and cryogenic functions for which the Contractor shall be responsible. The table clearly specifies the days of the week and the hours of the day each function shall be manned with qualified personnel and fully capable of accomplishing the assigned workload and/or performing common operator tasks as may be necessary to assist other persons or parties tasked to survey, inspect, monitor, adjust, refurbish, repair, or replace the equipment, systems, or facilities applicable to a function. Tasks commonly associated with a given function, tank truck receipts at storage for example, will normally be accomplished within the hours specified. Empty cells indicate that a function is not normally manned for the day(s) indicated by the column heading.

### Note

The following table defines the days of the week and hours of operation for which the Contractor shall be responsible for providing immediate support/services. The table does not dictate or account for pre-operations equipment inspections, quality surveillance, or maintenance requirements, nor does it dictate the level of manning required to provide the support required.

**Table 1 Hours of Operation**

Hours of Operation (by function)				
Function <sup>(1)</sup>	Mon - Thr	Fri	Sat	Sun/Hol
Contract Site Manager (CSM)	Duties as Required			
Assistant Site Manager (ASM)	Duties as Required			
Fuel Dispatch Center <sup>(3)</sup> (D/CO) (1 Apr-30 Sep)	0700-0100	0700-0100	0700-1700 <sup>(2)</sup>	
Fuel Dispatch Center <sup>(3)</sup> (D/CO) (1 Oct-31 Mar)	0700-0100	0700-0100	0700-2000	
Aircraft Fuel Servicing Operations <sup>(4)</sup> (D/SO/ACSC)	As Follows	As Follows	As Follows	
Truck Refueler (D/SO) (1 Apr-30 Sep)	0700-0100	0700-2000	0700-1700 <sup>(2)</sup>	
Truck Refueler (D/SO) (1 Oct-31 Mar)	0700-0100	0700-2000	0700-2000	
Pit Ops (D/SO/ACSC) (1 Apr-30 Sep) <sup>(9)</sup>	0700-2200	0700-1900	0730-1600 <sup>(2)</sup>	
Pit Ops (D/SO/ACSC) (1 Oct-31 Mar) <sup>(9)</sup>	0700-2200	0700-1900	0730-1900	
Mechanic <sup>(5)</sup> (MVM)	0700-1530			
Ground Fuel Delivery <sup>(5)</sup> (D/SO)	0700-1530			
Used Oil Handling <sup>(5)</sup> (D/SO)	0700-1530			
Bulk Storage Operations <sup>(6)</sup> (FDSO/FDSM)	0700-1530			
Service Station Operations <sup>(7)</sup> (FDSO)	Manned as Required			
Quality Surveillance (FLT) <sup>(8)</sup>	0700-1530			
Cryogenic Storage and Distribution (CS/O)	0800-1630			

**Red = Summer Hours      Blue = Winter Hours      Green = Year Around Hours**

- (1) The entry following the functional description is the code for the employee/worker that would normally fill the position applicable to that function. See [Section C-1.9.1, Essential Personnel](#), and [Section C-1.9.2, Service Personnel](#). An indented line of activity indicates it is or may be a collateral duty of the preceding line. The specific time segments, i.e., Ground Fuel Delivery, Monday-Friday, 0700-1600, are provided for basic planning purposes. These specific time spans should not be construed to mean or imply that the function is undertaken only for the specified time indicated. As noted in [Section C-1.7.1, Contract Coverage](#), "the Contractor shall be fully capable of responding to demands for "all" fuel and cryogenic support and services anytime, 24 hours per day, year-round."
- (2) Note seasonal changes for Saturday workload.
- (3) Driver/system operators (D/SO) assigned to night shifts and weekend work periods for which there is no FAS qualified dispatcher/computer operator (D/CO) assigned, shall be provided basic FAS data input training and local password access or maintain manual logs in sufficient detail to facilitate accurate FAS input of fuel services rendered on the morning of the next duty day.
- (4) Includes any and all fixed (direct fueling system) and mobile (truck) hot refueling via pantograph and hose set, and cold refueling/defueling of aircraft assigned to and as may transit, deploy to, or exercise from the contracted activity. Also includes the servicing of facilities and equipment as may be requested by authorized customers. Personnel assigned may include drivers, system operators, a mechanic, and other skilled personnel required and necessary to satisfy aircraft fuel servicing demands and other collateral duties identified herein. FAS/dispatch log data for hours beyond or outside that of the Fuels Dispatch Center may be updated or manual records kept by D/SO personnel assigned.
- (5) Ground fuel delivery, to include all grades of automotive gasoline, diesel fuel, heating oil, and jet fuel used in lieu of diesel, as well as Used Oil disposal operations, and the Mechanic, may be a collateral duty to the driver/operators that provide aircraft fuel-servicing support. Ground fuel operations may include scheduled deliveries to outlying equipment sites and fields. Also see [Section C-2.4.3, Alternate Issues, Method, and Manning](#), regarding alternate ground fuel (service station) support operations.
- (6) To include the manning as may be required to conduct end-of-month/fiscal-year inventories that fall on a Saturday, Sunday, or a holiday. If applicable, also includes manning for extended pipeline receipt operations. See the [Exhibit of Product Receipts](#) to determine the number of pipeline receipt operation per year.
- (7) An automated 24/7 service station manned only to the extent necessary to undertake system inspections, perform PM and inventories, and to receive products; however, see [Section C-2.4.3, Alternate Issues, Method, and Manning](#) regarding alternate ground fuel (service station) support operations.
- (8) Qualified persons assigned to the Bulk Fuel Storage operation may perform fuel laboratory duties. The Contractor shall also, to the extent required and requested, sample equipment, facilities, and aircraft defuels and perform quality testing necessary to satisfy weekend/holiday quality surveillance workload.
- (9) Direct Refueling (Pit Ops) manning shall consist of the [pit \(deadman\) operator](#), [plane captain/nozzle operator](#), and [fire watch](#), a three (3) person crew. For the hours noted, the Contractor shall be capable of providing direct refueling crews to fully man at least two (2) pits opened to service aircraft. Subsequent pit/lane openings will result in the shift of Contract personnel to operate and control (deadman operator) all open pits and supplemental manning by the squadrons being serviced. Regardless of the Contractor/squadron manning mix, the Contractor shall maintain control of the pit (deadman operator). The use of all four (4) pits simultaneously (maximum system use) will require six (6) contract operators and six (6) qualified supplemental (squadron) personnel.
- (10) The workload window for direct refueling operations should not change (increase in duration on any day) but is subject to fluctuation in the daily start/stop times. The base will, at the earliest possible and practical opportunity, provided the Contractor notice of such changes.

## **C-1.8 Staffing**

**C-1.8.1 General:** The Contractor shall provide the management and supervisory staff and labor to accomplish all petroleum and cryogenic receipt, storage, product handling, and issue operations, as well as all the related tasks identified in [Section C-2.0, Specific Tasks](#). The Contractor's staffing shall be flexible and fully capable of meeting the demands of multiple aircraft servicing operations via mobile refuelers, direct refueling system, and/or a combination of both to provide for hot or cold refueling services. Furthermore, the Contractor shall staff to undertake all required service station, cryogenics, quality surveillance, inventory, and other related services as may be outlined herein.

**C-1.8.1.1 Knowledge and Skills:** The Contractor shall ensure that personnel assigned to all tasks have the requisite knowledge and skills to meet the performance standards for those tasks and comply with all applicable Federal and state laws, regulations, and code. All employees shall be able to read and understand English (be literate) to the extent they can understand and follow oral instructions/directions, read and understand instructions, directives, regulations, and operating procedures, detailed written orders, and training materials, and be capable of writing in English to compose reports that convey complete thoughts. All employees shall be capable of performing basic numeric operations (addition, subtraction, multiplication, and division) and the use of numbers as they relate to ledgers, logs, and forms, meters, gauges, and measuring devices such as tapes, thermometers, hydrometers, and other instruments as may be used during the receipt, handling, inventory and issue of petroleum and cryogenic products.

**C-1.8.1.2 Employment Standards:** All employees or persons who may be hired to represent, perform on behalf of, or work under the management of the Alongside Aircraft Refueling Contractor (AARC) shall comply with all Federal, DOD, Navy/USMC, and station/base regulations, instructions, guidelines, and policy regarding employment at and entry to NAF El Centro. The Contractor shall be responsible for keeping abreast of and ensuring employee adherence to DOD and base regulations and policy relevant to the presents of employees on station and shall ensure that all such persons meet the requirements of employment and conform to the rules regarding, but not necessarily limited to, security, clearance, and identification policy, vehicle registration and operation of a POV on station, medial assistance, the use of the exchange and military facilities, and other local rules, guidance, or prohibitions that may apply to their entrance to and activity or employment on station.

## **C-1.9 Qualifications**

### **C-1.9.1 Essential Personnel**

**C-1.9.1.1 General:** Essential personnel, the corporate executive officer, the on-site manager, and the on-site assistant manager (if specified) shall have the education, training, background/experience, and skills required and necessary to make fiscal and management decisions, direct personnel, and work with individuals at all levels and corporate management and military command.

**C-1.9.1.2 Resumes:** As outlined in [Section L, Instructions, Conditions, and Notices to Offers or Quotes, Clause L2.31](#), a resume shall be submitted for essential personnel, the Corporate Executive Officer, the Site Manger, and the Assistant Site Manager (full or part time).

**C-1.9.1.3 Corporate Executive Officer:** To assure continuity between the contracted location/activity and corporate office, the Contractor shall employ an executive who, for the duration of the contract, can make fiscal and administrative decisions concerning this contract. He/she shall have a complete understanding of the terms and conditions of this contract and shall be experience in the operation and maintenance of fixed and mobile fuel systems to the extent outline herein.

**C-1.9.1.4 Contract Site Manager (CSM):** The Contractor shall employ an experienced full time site manager. His/her experience shall be relevant to the facilities installed and equipment assigned to the contracted activity and shall include:

- ✓ The management, operation, and maintenance of bulk fuel storage and distribution systems/facilities supplied by pipeline
- ✓ The management, operation, and maintenance of Contractor provided mobile (aviation and ground) fuel servicing equipment
- ✓ The management, operation, and maintenance Government provided direct aviation fuel servicing equipment and facilities
- ✓ The management, operation, and maintenance of Government service station (manual/automated) facilities
- ✓ The management, handling, and disposition of used oil
- ✓ The quality surveillance of aviation and ground fuel products and support applicable to the contracted activity
- ✓ Aviation and ground fuel inventory, and administration principles and practices
- ✓ Practical experience in the basic design and layout of petroleum facilities, component makeup and flow characteristics of fuel storage and distribution, and the ability to read and understand basic drawings, blueprints, and system specifications

He/she shall have had a minimum of five (5) years of specialized experience in petroleum storage and airfield services operations. Two years of that experience shall have been supervisory gained within the four (4) year period immediately prior to the latter of the contract start date or the individuals hiring date. That experience shall have been specialized supervisory experience and training in operations noted above with emphasis in equipment inspection, operation, maintenance, inventory management, and environmental compliance.

**C-1.9.1.4.1 Cryogenics:** To the extent the cryogenic function is outlined herein, the site manager shall be working knowledge of cryogenic operations. He/she shall be knowledgeable of receipts from commercial sources, storage operations, issue to carts, converters, and other equipment as may be assigned to the contracted activity, system/equipment maintenance at the level required under this PWS, and quality surveillance to the extent that he/she is able to effectively supervise cryogenic personnel and operators.

**C-1.9.1.4.2 Collateral Duties:** Other than those administrative duties commonly associated with and carried out by an individual in a management position, the full time site manager shall not have collateral duties nor shall the position be classified a collateral duty.

**C-1.9.1.5 Assistant Site Manager (ASM):** The Contractor shall employ an assistant site manager. Any individual employed shall have a minimum of two years experiences. One year must be supervisory experience gained within five years immediately prior to the latter of the contract start date or the individuals hiring date. That experience must be specialized supervisory experience in bulk storage and mobile fuel servicing with emphasis on operations, equipment maintenance, and environmental compliance.

**C-1.9.1.5.1 Collateral Duties:** The assistant site manager may have collateral duties, except that of a dispatcher, however, the position shall not be a collateral duty. Assistant managers elevated to the manager position, short or long term, shall meet the collateral duty restrictions of the manager position.

**C-1.9.1.6 Replacement of Essential Personnel:** Should it become necessary to replace an essential person, the Contractor shall provide the Government a minimum of 15 days advance notice and a resume of the proposed candidate that supports the experience requirements listed above. In an emergency, the installation of new essential personnel shall be followed by a resume of the proposed candidate within 10 working days. Essential personnel positions vacated shall result in reduced payment to the Contractor equal to the wages and benefits applicable to the position.

## C-1.9.2 Service Personnel

**C-1.9.2.1 General:** The personnel/position descriptions sited within this section do not necessarily dictate or imply that all will be specified or required to staff the activity for which this performance work statement is written. In general, they are statements regarding skills that may be used to satisfy specific labor needs to man the functions outlined in [Table 1, Hours of Operation](#). These personnel/position descriptions do not necessarily differentiate between supervisory personnel and skilled labor but assume the Contractor will establish the appropriate management, supervisory, and operator/laborer structure best suited to the contracted activity. Manning as outlined in the Contractor's final accepted offer and as incorporated in the contract, shall establish the PWS/contract staffing levels.

**C-1.9.2.2 Skills and Licenses:** The tasks outlined herein may require employees have special or specific skills, training, certifications, permits, or licenses to operate specialized equipment, forklifts or cranes, for instance. The Contractor shall be fully responsible for evaluating facility, equipment, and task requirements and providing fully qualified personnel with the appropriate, licenses, permits, credentials, or training certificates needed to accomplish all tasks in accordance with all applicable DOD, USN and USMC, Federal, state, and local laws and regulations. Training certificates may be presented in lieu of licenses if no commercial equivalent license, i.e., forklift operator or cryogenic operator exists. The Government reserves the right to request and review the records of persons assigned to sensitive and technical positions and functions within the fuel and cryogenic management arena.

### Note

[NAVFAC P-300, Management of Civil Engineering Support Equipment](#) specifically forbids the issuance of OF-346 (US Government Motor Vehicle Operator's Identification Card) or NAVFAC Form 11260/2 (Construction Equipment Operator's License) to contract personnel.

### Note

For the purposes of this PWS, the term "fuel servicing operations" shall be construed to include the handling of fuel products such as but not necessarily limited to turbine (jet) fuels, aviation gasoline, automotive gasoline, diesel fuel, heating oils, turbine fuels used in lieu of diesel fuel, used oil, recyclable jet fuel, and oily water.

**C-1.9.2.3 Dispatcher/Computer Operator IV (D/CO)** Each Fuel Management dispatcher/computer operator, hereafter referred to as a "dispatcher," shall be computer literate. He/she shall possess sufficient computer skills to use client/server applications in a Microsoft Windows NT environment. Those skills shall include the ability to logon; shutdown; initiate modems; manipulate files; install applications; send and receive email; and to use web browsers to send and receive information. He/she shall also be familiar with the use of Microsoft standard office products such as Word and Excel, other commercial off the shelf applications and utilities; and custom software as may be required to ensure that daily fuel operations are conducted in an effective and efficient manner.

**C-1.9.2.3.1 Qualifications:** Dispatchers shall be skilled in the use of the DESC Fuels Automated System (FAS). Those skills shall include the use of the real time dispatch system, the manipulation data within the Fuel Manager system and the related fuel management modules and status board systems. The dispatcher shall be capability to analyzing hardware/software related problems to maintain accurate input flow, data retrieval, and output validity and/or capable of effectively communicating with remote systems support personnel to resolve computer related problems. In addition, dispatchers shall be knowledgeable of radio communications, instructions/regulations pertaining to fueling and defueling of Government and civilian aircraft, and Government forms used to document aircraft fuel servicing. He/she must demonstrate familiarity with the layout of the base and outlying fields as well as the airfield and aircraft parking areas and restrictions applicable to servicing aircraft within those areas. Individuals acting as dispatchers, shall be capable of to communicate in English, both orally and in writing. Except for those administrative and accounting duties outlined within this PWS, dispatchers shall not have collateral duties.

**C-1.9.2.3.2 Fuels Automated System (FAS):** The incumbent Contractor and successor for a new contract period actively using FAS shall continue to provide FAS qualified dispatch personnel for the new contract period. New/first time Contractors shall, if they choose not to or are unable to retain incumbent dispatch personnel, arrange with the Naval Petroleum Office, Code RMB, to have new dispatch personnel FAS trained and certified prior to the beginning of the contract start date. Initial FAS training of in place contract dispatch personnel and new contractor personnel will be provided by the Government. Once initial (Government) training of contract personnel has been provided, the Contractor shall be responsible for the continued training of dispatch personnel within the contract organization. Additional DESC funded training of contract personnel may be made available on submission of justification to NOLSC Petroleum N422C.

**C-1.9.2.3.4 FAS FCC and FES Security:** See [Section C-2.16. Security](#), regarding access to Government computer systems.

**C-1.9.2.3.4 Facilities Response Plan (FRP):** Duty dispatchers shall also be knowledgeable of emergency notification procedures and serve as the Fuel Management initial point of contact in response to fuel spills within, caused by, or relevant to operations that are the responsibility of the Fuel Department.

**C-1.9.2.4 Driver/System Operator (D/SO):** Driver/system operators shall be qualified to perform fuel servicing operations (refuel/defuel operations) by mobile fuel servicing equipment/trucks, truck supplied pantograph and hoses sets, and fixed direct fuel servicing systems (hydrants). Driver/system operators shall pass a Contractor administered base and flightline familiarization test, practical equipment/facility competency tests, and shall be certified, by the Contractor, as qualified and the individuals training records updated prior to the unsupervised operation of any fuel servicing equipment. The Contractor shall re-certify personnel annually or as requested by the COR. Operators shall be familiar with safety regulations applicable to aviation and ground fuel servicing operations on and around the airfield and supported activities and shall demonstrate a practical knowledge of and ability to inspect and maintain fuel servicing equipment and systems. Drivers/system operators may be required to make basic input to the Fuels Automated System (FAS) or maintain dispatch logs.

**C-1.9.2.4.1 Licensing.** All drivers shall be licensed in accordance with the vehicle operating laws, regulations, and code for the state in which they will operate equipment and shall be/remain in compliance with all such requirements for the duration of their employment under this contract. The Contractor shall ensure that drivers required to operate vehicles and equipment on public roads are licensed for the class of vehicle to be operated on such public roads. To that end, NAF El Centro has mandated that all contract personnel who will operate fuel-servicing vehicles on or off station shall hold a current and valid Commercial Drivers License (CDL) issued by the State of California. Driver records appropriate to the class of license an employee holds, i.e., individual Department of Motor Vehicle (DMV) driving record, and a current record of physical examination or certification shall be maintained by the Contractor and made available for review by the COR on request. The Contractor shall ensure that all drivers' records are kept current for the term of the contract.

**C-1.9.2.4.2 Hours of Service of Drivers:** The Contractor shall not schedule drivers to work in excess of the rules established by [49 CFR Part 395, Hours of Service of Drivers](#).

**C-1.9.2.5 Aircraft Services Crewmember (ASC):** Direct refueling system "hot pit" crewmember, other than the truck operator ([Driver/System Operator \(DSO\)](#)) if a mobile fuel servicing unit is used as the source of product. Crewmembers shall have at least two (2) years experience in flight-line operations and be qualified to direct the movement of the aircraft for direct refueling operations. Each individual shall be qualified to taxi and position aircraft using hand signals to communicate with pilots and other direct refueling crewmembers. Each shall be qualified to check for hot brakes, be knowledgeable and capable of ensuring that all dummy/practice ordnance is safe, be qualified to determine/signal out-of-pit engine shut-down and restart procedures relevant to direct refueling operations, be qualified to connect, test, and operate the refueling nozzle and perform primary and secondary shut-off valve tests, and be qualified as a fire watch and capable of operating the fire extinguishing equipment at the direct refueling site. Each ASC may be required to perform any one of these functions for any single direct refueling evolution; therefore, each shall be qualified as the Plan Captain, Nozzle Operator (may be the same person as the Nozzle Operator), and Fire Watch. Each individual shall complete Watchstation 305 of Personnel Qualification Standard (PQS) for Aviation Fuel Operations Ashore (NAVEDTRA 43288-B) and shall be qualified as outlined in OPNAVINST 4790.2\*, Chapter 15, Plane Captain Qualification Program, as it applies to the specific aircraft to be serviced at NAF El Centro.

**C-1.9.2.6 Motor Vehicle Mechanic (MVM):** The Motor Vehicle Mechanic shall be capable and qualified to perform truck chassis, cargo tank, fuel pump/filter system, and component diagnostics, adjustments, maintenance, and repair of contractor owned and operated fuel servicing equipment. The mechanic shall be computer literate to the extent that he/she are capable of understanding, making input to, and extracting information from automated diagnostic equipment and shop maintenance and status systems such as FAS.

**C-1.9.2.7 Fuel Distribution Systems Operator (FDSO):** FDS operators shall be qualified to receive, handle, and issue petroleum products, to include recyclable jet fuel and used oils, and complete the accounting and administrative functions related thereto. He/she shall have practical experience in all facets of fuel distribution systems to include, pipeline systems, storage tanks, pumps, valves, fuel monitors and filters, truck fillstands, used oil storage and disposal facilities, and service station facilities (manual and automated). He/she shall be able to convert gauge and temperature readings to quantities of products and shall be able to perform quality assurance functions. He/she shall be able to correlate pressures, temperatures, and quantities as read from various gauges and meters normally found at a fuel facility. Operators shall have a basic understanding of written description and instructions pertaining to facility operations, shall be able to implement cyclic maintenance programs and safety programs relating to all aspects of facility operation and shall have demonstrated expertise in spill cleanup procedures, prevention and control measures, related equipment operation and maintenance. Operators shall have experience in inspecting trucks and other modes of conveyance and be capable of various types of petroleum sampling of storage tanks, trucks, fillstands, etc. Hazardous waste handlers shall be “certified” as required by Federal, State or local laws and Navy/base regulations as applicable.

**C-1.9.2.8 Fuel Distribution System Mechanic (FDSM):** The Fuel Distribution System Mechanic shall have a minimum of five years experience in the maintenance of fuel distribution systems ranging from ground product service stations to large bulk distribution facilities. He/she shall be capable of inspection, evaluating conditions of, and maintaining fuel storage tanks, pipelines, and piping systems, product pump, filter, meter, gauge, and flow control mechanisms, manifold and valve systems, and other related petroleum system components. He/she shall be capable of detecting/recognizing system component malfunction, misalignment, leak, and adjustment issues and performing scheduled and unscheduled fuel system maintenance within the scope of this PWS. The FDSM shall be capable of removing, repairing and replacing system components, have a basic knowledge of automated tank gauging systems, high/low level alarms, and cathodic protection systems. The FDSM shall also be capable of performing all the duties of an FDSO.

**C-1.9.2.9 Fuel Laboratory Technician (FLT):** The fuel laboratory technician shall be experienced in the use of common fuel sampling equipment, aviation and ground fuel sampling procedures, and conducting laboratory tests of petroleum products commensurate with the level of analysis to be performed at the NAF El Centro petroleum laboratory. His/her experience, as annotated in and reflected by the individuals training record, shall include knowledge of the properties; characteristics and specifications of the petroleum products stocked and handled, the various means sampling petroleum handling equipment and systems, from receipt to product issue, the operation, maintenance, and calibration laboratory equipment, record keeping; and laboratory safety procedures. Personnel assigned to weekend/holiday duties and required to perform the full spectrum of quality surveillance sampling and testing as may be required for weekend/holiday fuel support, shall be trained and training records annotated to show the qualifications.

**C-1.9.2.10 Cryogenics Supervisor/Operator (CS/O):** Cryogenic supervisors/operators shall be fully knowledgeable of cryogenic products, the storage and distribution systems applicable to the contracted activity, and Navy policy as outlined in the most current version of [OPNAVINST 4790.2, The Naval Aviation Maintenance Program \(NAMP\)](#), and references sited therein. Cryogenic system operators shall have a minimum of two (2) years experience as is evident by documented military specialty training or the documented commercial equivalent, in the receipt, storage, and issue of cryogenic products (LOX/LN2), inspection and operator maintenance of cryogenics equipment, the servicing of portable servicing carts, liquid to gas converters, and other systems as may be applicable the contracted activity. Operators shall be thoroughly familiar with Aviation Breathing Oxygen (ABO), tools, safety procedures, quality requirements, regulations, and directives. Cryogenic system supervisory personnel shall have a minimum of five (5) years of experience that is documented as noted above, and shall have supervised a cryogenics facility and personnel for at least one (1) year within the past five (5) years.

#### Note

**Cryogenic operators/supervisors shall not be a collateral duty nor shall they be assigned collateral duties. See [Section C-2.8.1.1, Restrictions](#).**

**C-1.9.2.10.1 Licensing:** Cryogenic system operators/supervisors required to services support equipment (SE) assigned to the activity and identified by [OPNAVINST 4790.2, The Naval Aviation Maintenance Program \(NAMP\)](#), shall be certified and licensed as outlined therein. The local Maintenance Officer (MO) will provide all training and certifications, and license personnel as required.

**C-1.9.2.10.2 ABO Quality Surveillance:** Contract personnel assigned to operate ABO analyzing equipment shall be fully qualified to operate equipment as outlined in [NAVAIR A6-332AO-GYD-000, Laboratory and Field Guide, Aviation Breathing Oxygen \(ABO\) Surveillance Program Laboratory Manual and Field Guide, Section IV](#).

**C-1.9.2.11 Fuel Accounting Clerk (AC/F):** The fuel administrative and accounting person, clerk, shall be fully knowledgeable of manual and automated fuel management and accounting systems such as the Fuels Automated System (FAS) and FAS Enterprise Server (FES). The fuel accountant shall also be knowledgeable of the Uniform Data Automated Processing System (UDAPS) and capable of work within all systems as they relate to fuel and cryogenic management accounting.

**C-1.9.2.11.1 Qualifications:** The Fuel Accounting Clerk shall possess sufficient computer skills to use client/server applications in a Microsoft Windows environment. Those skills shall include the ability to logon; shutdown; initiate modems; manipulate files; send and receive email; and to use web browsers to send and receive information. The use Microsoft standard office products such as Word, Excel, and PowerPoint; other commercial off the shelf applications, utilities; and custom software in such a manner that daily fuel operations are effectively and efficiently conducted may also be required. Those skills shall include the use of the real time information systems, the manipulation data within the Fuel Manager system and the related fuel management modules and status systems.

**C-1.9.2.11.2 Security:** See [Section C-2.26, Security](#), regarding security clearances.

## **C-1.10 Reserve Training**

**C-1.10.1 Space/Training Obligations:** The Government reserves the right to enter and occupy contracted Government facilities and to use systems and equipment to conduct Naval Reserve training and to meet real time military operational requirements. Full cooperation in the joint use of facilities and systems is expected; however, under normal peacetime conditions or conditions as may be specified herein, the Contractor is not obligated to relinquish control of facilities required to fulfill its contractual obligations and commitments, provide training services to Reserve personnel, or provide access to or use of contractor owned equipment.

**C-1.10.2 Training Schedules:** To the extent possible and practical, the Government will provide advanced notification of reserve training schedules to the Contractor.

## **C-1.11 Correspondence and Visits**

**C-1.11.1 Notification:** The Contractor shall notify the COR of any and all visits or notice of intent to visit contract management, its employees, or the contracted facilities by any federal, state, local government, base (military) office/agency, union representative, or contract corporate officer. Except for that considered to be company or proprietary documents, the Contractor shall provide the COR copies of all correspondence resulting from such visits.

## **C-1.12 Information and Records Management**

**C-1.12.1 General:** Documents held or generated by the Contractor may take the form of personnel files, i.e., individual driver and training records, proprietary company records and reports such as internal monthly management reports, and Government information and accounting files such as inventory reports or transaction documents generated in response to this contract. With the exception of that correspondence considered proprietary company records, all correspondence, records, to include Contractor's owned equipment history records, files, reports, and documents, manual or automated, generated by or provided to and maintained by the Contractor shall be open and readily available to Government inspection, review, and audit for the duration of the contract and any subsequent and contiguous contract periods. On termination of the contract, all of the aforementioned records except personnel driver and training records, Contractor owned equipment history records, and proprietary company management records shall be turned over to the Government.

## C-2.0 SPECIFIC TASKS (FIRM FIXED PRICE)

### C-2.1 Tasks and Services

**C-2.1.1 General:** The following sections define the specific aviation fuel, ground fuel, and cryogenic tasks and duties to be performed and services to be provided by the Contractor. Corresponding duties, i.e., quality surveillance, maintenance, inventory, administration, training, and janitorial services, for which the Contractor may be responsible and tasked, are also outlined. The various tasks, services, and duties are defined, outlined, and cross-referenced with regard to other tasks, hours of operation, contractor equipment requirements, as well as Government furnished equipment, facility, and service information. The Contractor shall be fully responsible for performing the tasks and duties outlined and providing the services specified.

### C-2.2 Fuel Servicing Operations

**C-2.2.1 Functions:** Fuels servicing operations in support of aviation activities and aircraft assigned to and as may transit, deploy to, or exercise from NAF El Centro are defined as those fuel functions directly involved in the delivery of fuel products to aircraft and support equipment. Those functions are the **Fuel Dispatch Center**, responsible for direct contact with customers and the control of fuel servicing equipment and personnel, and **Aircraft Refueling**, the section responsible for providing qualified personnel and equipment to transport and issue (refuel/defuel) products by mobile fuel servicing equipment, fixed direct refueling systems, and, in some cases, portable fuel servicing systems such as the USMC Tactical Airfield Fuel Dispensing System (TAFDS).

#### C-2.2.1.1 Fuel Dispatch Center

**C-2.2.1.2 Staffing:** The Contractor shall staff the fuel management dispatch center, the focal point of the fuel management function, for the days/hours listed in [Table 1, Hours of Operation](#). A dispatcher/computer operator, hereafter referred to as the dispatcher, shall be qualified as outlined in [Section C-1.9.2.3, Dispatcher/Computer Operator IV \(D/CO\)](#).

**C-2.2.1.3 Dispatch Control:** Aviation fuel is issued to station and transient aircraft directly from mobile refuelers and by hydrant/fixed direct refueling systems. Defuels, the return of product to the fuels management, is generally accomplished by truck. In addition, ground fuels services are requested by organization throughout the base. Requests for all such services shall be taken by and processed by the fuel dispatch center. Based on the specific request, equipment and personnel shall be dispatched and controlled as needed to satisfy the request received. All requests for fuel services shall be recorded, monitored, and historical records kept using the Fuels Automated System (FAS). The Contractor shall maintain FAS modules relevant to Contractor and Government furnished equipment and the maintenance thereof, as well as those modules concerning quality surveillance and laboratory operations, personnel and training information, and all other FAS modules as may be available.

#### Note

**FAS Auto-Log Controls:** In that FAS is the ultimate historical record of fuel activities, accurate information input is essential. Therefore, to the extent practical, FAS AUTO-LOG shall be disabled and real time equipment movement/use data recorded.

**C-2.2.1.4 Documentation:** The fuel dispatch center/dispatchers shall perform basic fuels accounting and administration functions such as collecting and reviewing fuel receipt, issue, and inventory documents. The dispatcher shall ensure all documents are legible and accurate, shall generate FAS reports, and ready all documents, pass down logs, and management reports for submission to the Government fuel accounting office by 0900 Monday, or the first duty day of the week, through Friday. Weekend/holiday documents shall be submitted the next duty day following the weekend or holiday.

- **Requirement.** The focal point of the Fuel Management that receives and records requests for fuel services using the Fuels Automated System (FAS) to capture data relevant to the Fuel Division workload. Dispatches and maintains control of personnel and equipment to meet the demand for fuel services within the established response times. Performs basic accounting and reviews documentation for legibility and accuracy, maintains control of documentation, prepare reports and FAS summaries relevant to the Fuel Management workload, and submits a complete documentation package to the fuel accounting office. Advises the Government of any circumstance that may result in the inability to perform the required services in a timely manner.

➤ **Performance Standards**

- ✓ Qualified dispatch personnel on duty for the days/hours specified in [Table 1, Hours of Operation](#)
- ✓ Dispatcher(s) one hundred per cent accurate in processing and recording requests for fuel services (aviation, ground, recycled jet fuel, and used oil) using the Fuels Automated System (FAS)
- ✓ For each request for services, fully qualified personnel dispatched to arrive at the requesting location with the established response time
- ✓ Dispatcher maintains full control of fuel servicing equipment and duty personnel
- ✓ No support/operational delays in excess of standard response time the result of contractor negligence or misconduct
- ✓ The Contractor fully maintains all FAS modules relevant to equipment and personnel
- ✓ Dispatch pass down logs and management reports prepared at submitted
- ✓ FAS reports and transaction documentation submitted to the Fuel Division office by 0900 hour daily, Monday through Friday
- ✓ FAS historical records and backup files maintained

## C-2.2.2 Aviation Fuel Servicing Operations

**C-2.2.2.1 General.** Aviation fuel servicing operations are defined as the delivery, or receipt by defuel, of aviation fuel products to aircraft and support equipment by mobile fuel servicing vehicles, fixed/mobile pantographs or hose sets supplied by fuel servicing vehicles, fixed direct refueling systems, or a combination thereof. Guidance, policy, and procedures regarding the performance of all such fuel servicing operations are outlined in [NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual](#). The Contractor shall be responsible for performing all aviation fuel-servicing operations and safeguarding facilities, equipment, and fuel products under its control during normal and adverse conditions.

**C-2.2.2.2 Response.** As outlined in [Section C-1.7, Operating Hours](#), the Contractor shall be capable of providing fuel services to station and transient aircraft 24 hours a day, year around, including holidays. During the hours specified in [Table 1, Hours of Operation](#), each request for fuel services shall result in the dispatch of the number of fuel servicing trucks and operators specified to the aircraft identified and prioritized by the requester so that each truck and operator dispatched arrive at the aircraft specified by the work request, within **20 minutes** as measured from the time the request for service is received by the dispatch center to the time the operator physically arrives at the aircraft to be serviced. If the request for service is for multiple aircraft, the Contractor shall continue to service subsequent aircraft in an orderly manner until all fuel servicing requirements for the specified request are met. Response to or scheduling of direct fuel servicing operations shall be such that the operator/crewmembers are at the hot pit site at the time the aircraft to be serviced arrives at the designated refueling pit/lane. Drivers/operators shall not interrupt the flow of work, i.e., service aircraft to which they are not directed, without approval by the dispatch center, nor shall drivers/operators interrupt servicing operations for rest or meal breaks without proper relief or explicit approval of the fuel dispatch center. On arriving at an aircraft, operators shall take all steps and precautions necessary to service the aircraft in accordance with [NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual](#), USN regulations, and station instructions applicable to fuel servicing operations. Service response times in excess of 20 minutes or failure to be at the designated direct refueling pit/lane on arrival of the aircraft to be serviced shall be fully and accurately recorded and explained in the dispatch pass down log and management reports reflected in [Section C-2.2.1.4, Documentation](#).

### Note

Requests for any/all services outside of the operating hours specified in [Table 1, Hours of Operation](#), shall be met within two hours as measured from the time the Contractor is contacted to the time the contract operator is in position to perform the service required.

**C-2.2.2.3 Equipment:** Contractor and Government furnished fuel servicing equipment as described below shall be maintained and operated by the Contractor.

**C-2.2.2.3.1 Mobile Fuel Servicing Equipment:** The Contractor shall provide the aviation fuel servicing equipment as specified in [Sections C-3.1, Contractor Furnished Equipment](#), in sufficient numbers to undertake the workload outlined in the [Exhibit of Products Issued](#). The Contractor shall fully maintain all furnished trucks, tractors, equipment cargo tanks, refueling systems, and components thereof in a safe, serviceable, ready for dispatch condition. Equipment inspections and product sampling/testing, i.e., periodic Type "C" product analysis, shall be completed and documented on the vehicle inspection form prior to the initial dispatch of the equipment for the duty day.

**C-2.2.2.3.1.1 Off Station Operations:** Should they be required, aviation fuel deliveries over public roads to off station locations shall be accomplished using equipment that is configured and licensed/permitted for use on public roads. All Federal, state, and local inspections, licensing or permits, and insurance requirements for the equipment used, shall be a responsibility of the Contractor. Operators shall be licensed as set forth in [Section C-1.9.2.4.1, Licensing](#).

**C-2.2.2.3.2 Direct Fuel Servicing Equipment:** Government furnished equipment consisting of two (2) 30,000-gallon day tanks and direct refueling system as described in [Appendix A, Government Furnished Facilities](#), shall be inspect, maintained to the extent outlined in [Section C-2.11, Property Management and Maintenance](#), and operated by the Contractor. Equipment/system inspections and product sampling/testing, i.e., periodic Type "C" product analysis, shall be completed and documented on the system inspection forms prior to the initial use of the equipment for the duty day.

**C-2.2.2.3.3 Jet Fuel Services Data:** The data reflected by [Exhibit of Products Issued](#), is historical for NAF El Centro. It provides detailed information in terms of months and years of fuel services. Other workload exhibits provide average workload data in terms of truck movements and pit services applicable NAF El Centro. [Table 2, Squadrons and Aircraft Assigned](#), is a breakdown of squadrons/aircraft currently assigned to NAF El Centro and provides a local picture of the services required on a day-to-day basis. The Contractor shall keep this table, as well as the home station aircraft database in FAS, current.

**Table 2 Squadrons and Aircraft Assigned <sup>(1)</sup>**

Squadron/Unit <sup>(1)</sup>	Type Aircraft <sup>(1)</sup>	Number Assigned <sup>(1)</sup>	Max. Fuel Load <sup>(2)</sup>	Average Refuel <sup>(3)</sup>
Base *	C-12	1	544	240
Base	T-34B	1	130	75
Blue Angles <sup>(4)</sup> *	F-18	8	1,589	1200
Blue Angles <sup>(4)</sup>	C-130	1	9,680	3500
Deployed Units <sup>(5)</sup> *	Various	Varies	Varies	Varies
Transient Maintenance *	Various	None	Varies	Varies

- (1) Data extracted from FAS Home Station Aircraft Database
- (2) See Military Handbook 844 (AS) or airframe specific NATOPS manuals
- (3) Based on historical data, the average quantity of product issued in a single refueling on a day-to-day basis
- (4) Navy Blue Angle winter deployment (December through March) to NAF El Centro. See [Section C-1.6.2.1, Air Show AVGAS Services](#).
- (5) The number of deployed units may vary from one to many at any given time. As outline in [Section C-1.6.2, Information](#), the Contractor shall adjust manning levels to accommodate for increased workload.
- (\*) An asterisk following any squadron/unit designation indicates an independent maintenance activity authorized to request services from the Fuel Dispatch Center. See [Section C-2.2.2, Response](#), regarding the response time applicable to a request for fuel services. The Contract shall be responsible for the simultaneous responds to all of the units designated within the response parameters established.

➤ **Requirement:** Respond to requests for aircraft, equipment, and facility fuel services so as to provide quality product in a timely manner to authorized customers. Tasked personnel and equipment meet the demand for services within the established response times. Receive and review documentation for legibility and accuracy, maintains control of all documentation, prepare reports and FAS summaries relevant to the Fuel Management workload, and submits a complete documentation package to the fuel accounting office in a timely manner. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.

➤ **Performance Standards**

- ✓ Mobile/fixed equipment inspected and sampled by prior to first use of the duty day. Inspection and applicable laboratory documents available

- ✓ Response to requests for fuel services within the established perimeters. No servicing delays the result of Contractor negligence or misconduct
- ✓ Driver's knowledgeable of and use appropriate radio etiquette
- ✓ Operators adhere to operational safety rules, i.e., flightline vehicle operations, grounding and bonding, safety distance criteria, fire watch, and other safety guidelines
- ✓ Issues/defuel/truck fill documents one hundred percent accurate. Documents complete and legible
- ✓ No fuel spills due to Contractor negligence or misconduct

## C-2.3 Bulk Storage Operations

**C-2.3.1 General:** Bulk storage operations are defined as the receipt, storage and handling, and issue of fuel products at the primary fuel storage facility. It also provides for of quality surveillance, system maintenance, and product inventory functions, the details of which are covered under other sections of this PWS. The Contractor shall be responsible for performing bulk fuel operations, i.e., gauging, system inspections and preventive maintenance, sampling, system alignment, documentation of tasks and actions taken, and system monitoring required and necessary to conduct all storage related actions and safeguarding fuel supplies under its control during normal and adverse conditions.

### C-2.3.2 Product Storage

**C-2.3.2.1 Facilities:** The facilities identified within this section are those that comprise the main storage system generally referred to as bulk storage, the fuel farm, or the tank farm. Tankage and components outside this area, the service station for instance, are covered in their respective sections. NAF El Centro bulk storage consists of two (2) 20,000 barrel jet fuel tanks, their components, receipt headers, and truck fillstands. Two vaulted 5000-gallon used oil tanks are also located in the bulk storage area. See [Appendix A, Government Furnished Facilities](#), for a detailed breakdown of these facilities.

**C-2.3.2.2 Staffing:** The Contractor shall provide the necessary staffing to undertake and document daily and cyclical inspections, to manipulate components to receive, transfer, and issue product, to continually monitor systems, and to perform preventive and operator maintenance on all bulk storage facilities. In addition, the Contractor shall be capable of performing all other functions relative to an active storage operation, i.e., inventory, quality, housekeeping, security, and environmental protection as outlined here and elsewhere within this PWS.

### C-2.3.3 Bulk Product Receipts

**C-2.3.3.1 Receipts and Rates:** Jet fuel is received from the Kinder-Morgan pipeline at approximately 400 to 475 BPH via the commercial/military pipeline interface that lies at the east end of the storage compound. The Contractor shall be responsible for all work, i.e., gauging, facility inspections, sampling, system alignment (to include the opening of the receipt valve at the commercial/military interface), documentation, and system monitoring required and necessary to conduct all receipt related actions in a safe manner.

**C-2.3.3.2 Quality/Quantity Determination:** All incoming product shall be sampled and visually examined and tested in accordance with MIL-STD-3004 and NAVAIR 00-80T-109 to verify product identification and quality. Quantity determination, i.e., before and after gauging of tanks, computation of receipts at 60 degrees Fahrenheit as outlined in DOD 4140.25M, and the complete documentation of receipts, shall also be accomplished. Quality and quantity determination forms and supporting documents shall be forwarded to the accounting office by 0900 hours Monday, or the first duty day of the week, through Friday.

**C-2.3.3.3 Workload Data:** The [Exhibit of Product Receipts](#) provides a historical view of jet fuel workload data in terms of gallons received by month and the number of deliveries for the mode of delivery applicable. Data for product receipts at the service station facility, a separate storage area, are reflected in [Section C-2.4, Service Station Operations](#).

- **Requirement.** Implement management, inventory, quality, security, and environmental controls so as to fully maintain and safely operate bulk storage facilities and equipment in a manner that ensures the receipt, proper handling and accountability, and timely availability of specification product to the customer without impact to the environment. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.

➤ **Performance Standards**

- ✓ Personnel to undertake/complete all assigned and required tasks (many simultaneous) available and positioned
- ✓ Readily capable of product receipt, movement, and issue operations for the days/hours reflected in Figure 1
- ✓ Inventory, receipt, issue, shipment, and transfer documents complete, accurate, legible, and forwarded to fuels accounting not later than 0900 Monday or the first duty day of the week through Friday
- ✓ Quantity determination, before and after gauge and temperature readings, accomplished for each receipt operation
- ✓ System and equipment functional inspections complete and documented not later than 0900 Monday through Friday or every day the system is used to receive, move, or issue product
- ✓ Scheduled Preventive Maintenance (PM), to include that of grounds maintenance, cleaning/evacuation of pits, and the upkeep of tank berm areas, completed on the day/date scheduled
- ✓ Environmental controls, i.e., secured drains, oily water separators, and alarm systems checked and functional
- ✓ Security controls, fences, gates, and lighting checked and logs maintained
- ✓ Preventive Maintenance (PM) documentation current, accurate, and available
- ✓ Receipt, correlation, and periodic (FSII, Flash Point, and sulfides) samples taken and submitted for testing in accordance with MIL-STD-3004, NAVAIR 00-80T-109, Federal Specifications, and local directives
- ✓ Current references materials available (net access to or copies on hand)
- ✓ Spares and supplies that the Contractor is responsible for providing readily available
- ✓ No fuel spills the result of Contractor negligence or misconduct
- ✓ No operational delays the result of Contractor negligence or misconduct

### C-2.3.4 Bulk Product Issues

**C-2.3.4.1 Bulk Output:** Jet fuel is transferred to the direct refueling system day tank, facility 186 and issued to refuelers via the fillstand system. For the hours established for aircraft fuel services or other services as may be outlined in [Table 1, Hours of Operation](#), at least one of the storage tanks shall be kept in the ready-to-pump (issue) mode to supply product to the day tank and refueler fillstand system on demand. Except for scheduled maintenance and other occurrences of which the fuel dispatch center has been notified, the Contractor shall maintain tank and fillstand systems in the ready-to-issue mode and work to transfer/issue products on demand.

**C-2.3.4.1.1 Issues to Refuelers:** For the purpose of local/contractor refueler top-offs, the jet fuel fillstand is a driver-operated, supply on demand or self-service system. Documentation relevant to refueler top-offs and the disposition of those documents shall be compiled and controlled in accordance with local instructions.

**C-2.3.4.1.2 Transfers to the Day Tank System:** Transfers to the day tank system shall be monitored by a FDSO who shall remain in contact with the day tank system operator during transfer operations. The Contractor shall be responsible for all coordinated gauging, measurement, reconciliation, and documentation actions relevant to all transfer operations.

**C-2.3.4.2 Bulk Output Summary:** The [Exhibit of Product Issued](#) provides historical data regarding bulk storage output in terms of total transfers to day tanks (pit services) and transfers to trucks (truck issues).

- **Requirement:** Maintain and operate bulk storage facilities so as to receive, handle, and dispense quality products to authorized customers on demand. The Contractor shall institute security, quality, and inventory programs to ensure the issue of (maintain a tank system in the ready-to-issue mode) products without causing operational delays. The Contractor shall notify the COR of any discrepancy or issue that may result in the inability to issue product from the day tank system.
- **Performance Standards:**
  - ✓ All products issued shall be on specification
  - ✓ No fuel spills due to Contractor negligence or misconduct
  - ✓ No more than 0.5% variance tolerance as defined in Appendix D
  - ✓ Immediate communication with the fuel dispatch center and COR regarding occurrences that may result in direct fueling system delays

## C-2.4 Service Station Operations

**C-2.4.1 General.** Service station operations, the dispensing of ground products from a fixed facility/system to authorized customers, are conducted at Building 400. The service station, an automated product storage and dispensing system also serves as the bulk ground fuel storage facility. The entire system shall be inspected, preventive/operator maintenance performed, products inventoried, system data collected, documented, and forwarded to fuels accounting, and the station readied for continued customer service for the days and hours reflected in [Table 1, Hours of Operation](#). The Contractor shall be responsible for providing the qualified personnel to perform the aforementioned tasks and duties as further defined within this section.

**C-2.4.2 Operations.** Low sulfur diesel fuel (LS2) and regular reformulated unleaded gasoline (MRR) are stored and dispensed at the base (military) service station. The station consists of two (2) 10,000-gallon vaulted aboveground tanks (one (1) LS2 and one (1) MRR) plus common service station components as outlined in [Appendix A, Government Furnished Facilities](#). Both LS2 and MRR are delivered by commercial tank truck in 6,000-gallon increments as needed. The Contractor shall continually track ground fuels inventories and order products through the Fuel Management Office to maintain adequate levels of readily deliverable products at the service station. Product deliveries to the service station will normally be made during the operating hours for bulk storage listed in [Table 1, Hours of Operation](#). The [Exhibit of Products Issued](#) and the [Exhibit of Product Receipts](#) provide a more definitive historical summary of service station operations.

**C-2.4.2.1 Facility Workload:** Service station facilities and equipment shall be inspected, inventories performed, products received, and quality surveillance applicable to the receipt of such products performed by the Contractor. In essence, those tasks normally associated with the operation of a bulk storage facility shall also be undertaken at the service station.

**C-2.4.2.2 Accounting Data:** Regardless of the accounting method, inventory forms, logs, ledgers, and data as may be used to account for service station activities shall be forwarded to the Government fuel accounting office by 0900 hours Monday, or the first duty day of the week, through Friday. At those installations that have undergone FAS/ATG/AFSS Phase IIB installation/upgrade, the Contractor shall be responsible for performing the daily AFSS import function into the FCC (FAS) Gas Log in order to provide an automated means of billing ground fuel customers.

**C-2.4.3 Alternate Issues, Method, and Manning:** Disruption of automated service station function may require manual operation of the facility or the dispensing of products from a ground fuel servicing truck. As a rule, the facilities are repaired within the time it takes to identify the requirement for repairs and contract for repair services. However, the Contractor shall, for a period not to exceed five (5) weekdays, provide the personnel and equipment as outlined in the following sections to maintain the availability of ground fuel products to its customers. Weekend and holiday manning outside that specified in [Table 1, Hours of Operation](#), and justifiable weekday manning costs beyond the aforementioned five (5) weekday rule may be submitted to the Government for reimbursement.

**C-2.4.3.1 Station Operable:** In the event of a service station system failure during which the station **can be operated manually**, the Contractor shall man the service station to assist customers and manually document issues for the hours of 0800-0930 and 1330-1500 Monday through Saturday.

**C-2.4.3.2 Station Inoperable:** In the event of a power, system, or mechanical failure that renders the service station **completely inoperable**, the Contractor shall post directions to the alternate source of products and the hours of operation at that location or position the ground fuel servicing truck at the service station and man it to assist customers and manually document issue for the hours noted in preceding section.

### Note

**Manually generated ground fuel issue documents/data shall be input to the appropriate automated system prior to the end-of-day reconciliation of inventories.**

- **Requirement.** Implement management, inventory, quality, security, and environmental controls so as to fully maintain and safely operate the base (military) service station facilities and equipment in a manner that ensures the receipt, proper handling and accountability, and timely availability of specification product to the customer without impact to the environment. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.
- **Performance Standards:**
  - ✓ Service station facilities and equipment inspected and readied for customer use for the days and hours outlined by [Table 1, Hours of Operation](#)
  - ✓ Facility PM accomplished as scheduled and facility cleanliness maintained
  - ✓ Inventory documentation complete, legible, and forwarded to accounting by 0900 Monday, or the first duty day of the week, through Friday
  - ✓ One hundred percent inventory accuracy
  - ✓ As applicable, data downloaded to FAS by 0900 Monday, or the first duty day of the week, through Friday
  - ✓ Products ordered and received so as to maintain continuous availability of ground fuels to the base.
  - ✓ One hundred percent receipt quality/quantity determination
  - ✓ The Contractor capable of manual/truck operations for the hours specified
  - ✓ Manually generated documents/data input to the automated system prior to the end of day inventory

## C-2.5 Ground Fuel Delivery

**C-2.5.1 General:** Ground fuel delivery operations are defined as the issue or defuel, by truck, of ground fuels, i.e., gasoline, diesel, heating oil, or jet fuel as may be used in lieu of diesel, to authorized customers. The Contractor shall be responsible for performing all ground fuel delivery operations, and safeguarding fuel supplies under its control during normal and adverse conditions. The [Exhibit of Products Issued](#) provides a detailed historic picture of ground fuel deliveries by truck for the periods indicated. Also included in the exhibit are listings of sites to which products are routinely delivered. The data provided should not be construed as an all-inclusive listing of ground fuel delivery points.

**C-2.5.1.1 Equipment:** The Contractor shall furnish ground fuel servicing equipment configured in accordance with [Section C-3.1.5, Ground Fuel Delivery Trucks](#), and the qualified/licensed personnel to operate and maintain all such equipment to undertake ground fuel delivery operations during the days and hours specified in [Table 1, Hours of Operation](#). Equipment inspections shall be completed and documented on the vehicle inspection forms prior to the initial dispatch of the equipment for the duty day.

**C-2.5.1.2 Delivery:** Ground fuels, reformulated unleaded gasoline (MRR) and low sulfur diesel (LS2), shall be delivered as scheduled to the activities outlined in the issue point worksheet of the [Exhibit of Products Issued](#). These as well as other unscheduled requests for ground fuel deliveries received by the fuel dispatch center and for which there is no specific response time, shall be accomplished within the time limits mutually agreed upon by the requesting activity and dispatcher. With the exception of the eight (8) arresting gear motors/tanks (two (2) at each end of the two (2) active runways) that are serviced (topped off) every Friday, all ground fuel deliveries are undertaken as a request is received by the dispatch center.

**C-2.5.1.2.1 Off Station Operations:** Should they be required, ground fuel deliveries to off station locations shall be accomplished using equipment that is configured and licensed/permitted for use on public roads. All Federal, DOD, state, and local inspections, permits, licensing and insurance requirements for the equipment used on public roads, shall be a responsibility of the Contractor. Vehicle operators shall be licensed as set forth in [Section C-1.9.2.4.1, Licensing](#).

**C-2.5.1.3 Delivery Points:** A list of delivery points by location, building/facility number, tank capacity and characteristics, and a delivery schedule, if known or established, is provided by the [Exhibit of Products Issued](#). Maps identifying all established and scheduled delivery points, by grade of product, will be provided by NAF El Centro and become a part of the contract, [Appendix E, Maps](#). At contract start up, the Contractor shall survey all delivery locations and confirm delivery schedules to ensure uninterrupted customer support. The Contractor shall update the ground fuel delivery points and schedules outlined in [Exhibit of Products Issued](#) as changes occur.

**C-2.5.1.4 FAS Gas Log:** The Contractor shall provide and use the automated data collection equipment identified in [Section C-3.1.4.9, Automated Data Collection](#) or document each ground fuel issue using forms or logs that provide all the information required to fully satisfy the data entry requirements of the Fuels Automated System (FAS) Gas Log. The Contractor shall fully maintain the hardware and software required to download data or input truck issue data to the FAS Gas Log daily, Monday through Friday. Weekend/holiday activities shall be downloaded/imported on the first duty day following the weekend or holiday.

- **Requirement:** Maintain and man the ground fuel servicing equipment to ensure customer support with specification products. Implement management, maintenance, quality, security, and environmental controls that ensure the safe delivery of ground products to authorized customers in a timely manner. The Contractor shall notify the COR of any discrepancy or circumstance that may result in the inability to deliver ground fuel products.
- **Performance Standards:**
  - ✓ All equipment inspected, serviceable, and inspection documentation readily available by 0800 daily.
  - ✓ Daily truck inventories one hundred percent accurate.
  - ✓ Documented issues, defuels, and truck fills one hundred percent complete, accurate, and legible.
  - ✓ Ground fuel truck logs maintained and accurate.
  - ✓ Ground fuel truck issues, defuels, and truck fills entered into the FAS Gas Log Monday through Friday.
  - ✓ Fuel servicing safety procedures and precautions observed.

## C-2.6 Used Oil Handling

**C-2.6.1 General:** Used oil collection and handling in terms of equipment provided and operated is not required under this contract; however, the Contractor shall be responsible for the inspection, preventive maintenance, and care of used oil tanks 617 and 618 located in the bulk storage area, see [Appendix A, Government Furnished Facilities](#). The Contractor shall also assist DRMO in the transfer of used oil from these tanks to the commercial carrier at the time of disposal/pickup.

## C-2.7 Recyclable Jet Fuel Handling

**C-2.7.1 General.** Recyclable jet fuel handling operations are not applicable under this contract.

## C-2.8 Cryogenic Storage and Distribution

**C-2.8.1 General:** Cryogenic storage and distribution operations are defined as the receipt, storage and handling, and issue of cryogenic products, liquid oxygen (LOX), liquid nitrogen (LN2), and gases, to authorized customers. The Contractor shall be fully responsible for performing all cryogenic bulk handling, quality, maintenance, inventory, and administrative functions, and safeguarding the facilities, equipment, and products under its care.

### Note

**Other than the filling of carts and returning them to the customer or the ready line for customer pickup and assistance at purging (LOX wash) of LOX (ABO) carts, the contract shall not be responsible for maintenance of cryogenic equipment outside the bulk cryogenic facility.**

**C-2.8.1.1 Restrictions:** The nature of cryogenic, specifically liquid/gaseous oxygen and the unique handling/quality requirements of Aviation Breathing Oxygen (ABO), dictate that the cryogenic storage and distribution function be manned by fully qualified personnel whose duties shall be restricted to that of the cryogenic function. Personnel assigned to the cryogenic storage and distribution function shall neither have collateral duties at nor be a collateral duty of personnel assigned to a fuel handling function during those hours considered to be the normal/continuous hours of operation for the cryogenic function. This restriction does not preclude the end-of-duty migration of cryogenic operators to other duties; however, the appropriate uniform/clothing changes shall be taken and qualification criteria met.

**C-2.8.1.2 Operations:** The Contractor shall staff to inspect, operate, and maintain cryogenic facilities and equipment and operate analytical devices as outlined in the most current version of [OPNAVINST 4790.2, The Naval Aviation Maintenance Program \(NAMP\)](#), and references, documents, and guidance contained therein. The Contractor shall man and operate the cryogenic storage and distribution facilities identified in [Appendix A, Government Furnished Facilities](#), with a qualified cryogenic system supervisor and operators as outlined in [Section C-1.9.2.9, Cryogenic System Operator \(CS/O\)](#), for the days and times specified in [Table 1, Hours of Operation](#). The Contractor shall be responsible for product receipts and handling, cryogenic system inspections and maintenance at the level defined herein, the post maintenance purging (LOX wash) of carts delivered to the cryogenics facility for that purpose, quality surveillance as outlined herein, product inventories, and the issue of liquid and gas products. The Contractor shall also be responsible for all administrative/inventory functions, housekeeping practices applicable to a cryogenic storage and distribution/ABO environment, and the security of products and facilities under its control. The following table provides workload factors in terms of liquids received and liquids and gas products issued at NAF El Centro.

**Table 3 Cryogenic Receipts and Issues**

Fiscal Year	Product	Receipts <sup>(1)</sup>	Number <sup>(2)</sup>	Issues <sup>(3)</sup>	Carts <sup>(4)</sup>	Converters <sup>(5)</sup>	Cylinders <sup>(6)</sup>
FY00	LOX	16,470	8	12,915	207	N/A	24
FY01		19,217	7	13,285	223	N/A	22
FY02	“	14,796	6	13,980	218	N/A	31
FY03 <sup>(7)</sup>	“	18,400	7	12,110	198	N/A	26
FY04							
<b>Total</b>		68,883	28	52,290	846	N/A	103
FY00	LN2	9,870	9	5,960	141		18
FY01		9,406	7	5,377	125		17
FY02	“	10,049	6	8,815	181		14
FY03 <sup>(7)</sup>	“	9,266	6	4,770	110		17
FY04							
<b>Total</b>		38,591	28	24,922	557		66

(1) Receipts, in gallons, from commercial sources for the physical year indicated.

(2) The number of receipts from commercial vendors for the physical year indicated.

(3) Total issues, in gallons, to Government equipment, i.e., carts and converters for the physical year indicated.

(4) The number of LOX/LN2 cart fills for the physical year indicated.

(5) The number of aircraft LOX converters filled for the physical year indicated.

(6) The number of gas cylinders (individual or cart mounted) filled/issued for the physical year indicated.

(7) Data is current through the Month of June FY03.

**C-2.8.1.3 Quality Surveillance:** The Contractor shall continually track inventories and order cryogenic products in accordance with locally established procedures. On delivery, the Contractor shall obtain samples using the appropriate sampling device(s) and perform quality surveillance testing as outlined herein. Test results shall be reported to the COR. The Contractor shall maintain a record of all samples drawn and tested. Copies of all test reports shall be maintained on file and available to the Government for the duration of the contract.

**C-2.8.1.3.1 Product Testing:** The Contractor shall be responsible for the testing of ABO, to include the testing of samples taken during LOX cart purging (LOX wash) as outlined in NAVAIR Technical Manual A6-332AO-GYD-000, Aviators Breathing Oxygen (ABO) Surveillance Program Laboratory and Field Guide and applicable LOX cart technical manuals. See [Section C-1.9.2.9.2, ABO Quality Surveillance](#), regarding training/certification.

**C-2.8.1.4 Issues:** The Contractor shall issue cryogenic products, both liquid and gas, to customer LOX/LN2 servicing carts and tanks, converters, cylinders/cylinder carts, and medical cylinders that are delivered to the cryogenic facility. Except for the movement of equipment within the confines of the cryogenic facility compound and driveway leading thereto, the Contractor is not responsible for the delivery or transport of equipment or products outside of the cryogenic facility compound.

**C-2.8.1.5 Levels of Maintenance:** The Contractor shall be responsible for the following levels of maintenance.

**C-2.8.1.5.1 “O” Level Maintenance:** The Contractor shall be responsible for the inspection and “O” level or organizational (operator) maintenance of cryogenic storage and distribution systems and facilities as outlined in [OPNAVINST 4790.2, The Naval Aviation Maintenance Program \(NAMP\)](#). Operators shall inspect equipment, components, and facilities, make adjustments and perform operator maintenance as outline within applicable equipment technical manuals and Maintenance Repair Cards (MRCs), and maintain cleanliness applicable to a LOX/ABO environment. Discrepancies beyond the scope of operators maintenance program shall be documented and reported to the appropriate work center or agency via the COR. Grounds maintenance shall be accomplished as outlined in [Section C-2.11.3, Grounds](#).

**C-2.8.1.5.2 “I” Level Maintenance:** The Government shall maintain the cryogenic equipment at the intermediate (I) level and take all actions necessary and required to adjust, maintain, repair, remove, calibrate or have calibrated as may be required, and reinstall system components as indicated by the applicable Source, Maintenance and Recoverability (SM&R) codes outlined in equipment specific technical manuals. In addition, the Government shall perform quality assurance inspections of maintenance work accomplished as well as report and maintain records applicable to all “I” level maintenance/inspection actions taken.

**C-2.8.1.5.3 “D” Level Maintenance:** The Government will perform all depot (D) level maintenance.

**C-2.8.1.5.4 Cylinder Maintenance:** Cylinder maintenance shall be restricted to that outlined in NAVAIR 06-20-2, Gas Cylinders (Storage Type), Use, Handling, and Maintenance, Section IX.

**C-2.8.1.6 Records:** In addition to inventory documentation, the Contractor shall maintain a log of all receipts and issues for all products, product dispensed as a result of maintenance and cart purging (LOX wash), and product losses resulting from testing and preventive maintenance as may be performed of storage tank and the dispensing system. At a minimum, the specific event, i.e., issue to a cart, the date, start/stop/elapsed work time, equipment identification number, and quantity of product moved shall be recorded. All records shall be considered Government property and shall be kept on file and readily available to the Government for the duration of the contract.

**C-2.8.1.7 Uniforms, Cryogenic:** The Contractor shall provide uniforms as outlined in [Section C-3.4, Uniforms](#). In addition, the Contractor shall provide and maintain protective cryogenic coveralls, safety gloves, aprons, and face shields used during routine cryogenic handling operations.

- **Requirement:** Cryogenic section staffed by trained/certified supervisors/operators capable of implementing management, quality, inventory, maintenance, and security controls so as to safely operate and fully maintain cryogenic facilities and equipment in a manner that ensures the timely receipt, proper handling, and availability of specification products to the customer. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.
- **Performance Standards:**
  - ✓ Fully manned by qualified personnel to undertake the level of work being accomplished for the hours specified in [Table 1, Hours of Operation](#)
  - ✓ One hundred percent receipt quality/quantity accuracy is maintained
  - ✓ One hundred percent inventory accuracy maintained
  - ✓ Receipt, issue, and work logs kept to date and accurate
  - ✓ All inventory/accounting documentation complete, legible, and forwarded to accounting by 0900 daily, Monday, or the first duty day of the week, through Friday
  - ✓ Facility and equipment cleanliness applicable to an Aviation Breathing Oxygen (ABO) environment maintained
  - ✓ Scheduled Preventive Maintenance (PM), to include grounds maintenance, completed on the day/date scheduled. One hundred percent MRC compliance maintained
  - ✓ References applicable to the assigned cryogenic equipment current and readily available
  - ✓ Supervisor/operator qualification documents and training records current and readily available
  - ✓ Personnel tasked to operate the ABO analyzer qualified and certified

## C-2.9 Inventory and Administration

**C-2.9.1 General:** Inventory is defined as the physical measurement of products in terms of volume and temperature, the documentation of those measurements, and the conversion of observed measurements to standards recognized by the Government and petroleum industry. Accounting is the manipulation of inventory, receipt, and issue data to portray an accurate record of daily events regarding the purchase and sale of products, the adjustment of inventories, and the capture of information in the form of manual records and computer files. The Contractor shall be responsible for all fuel and cryogenic inventory actions and the accurate input of data to the FAS systems as may be applicable to the contracted activity. The contractor shall also be responsible for those administrative tasks, activities, and functions necessary and required to complete, record via the appropriate media, file, and report the aforementioned and other reporting outlined within the contract.

**C-2.9.2 Inventory:** The Contractor shall be responsible for the inventory of petroleum and cryogenic products held within the facilities, equipment, tanks, and vehicles the responsibility of or under Contractor control. The Contractor shall provide accurate inventories of all products as outlined by DOD 4140.25, Bulk Petroleum Management Policy, NAVSUP Volume II, Supply Ashore, Navy regulations, and local instructions. Documentation consisting of inventory forms, receipt and issue documents, and the logs and reports as may be used to compile, compute, and validate accurate product movements shall be forwarded to the fuel accounting office by 0900 Monday, or the first duty day of the week, through Friday.

**C-2.9.3 Accounting:** The Contractor's accounting responsibilities are limited to those outlined in [Section C-2.2.1.4, Documentation](#). The inventory and limited accounting processes shall facilitate:

- ✓ The continuous update and accurate portrayal of FAS (Fuels Enterprise Server (FES)) system information
- ✓ The import/input of ground fuel data to the FAS Gas Log for the periods specified by the Government
- ✓ FAS access, input, and report generation. Note requirements under [Section C-2.16, Security](#)
- ✓ The provisioning of inventory and workload information, to include local reporting, as may be requested by the COR, other Navy activities, and DESC
- ✓ Audits and inspections as may be conducted by the COR and other agencies

**C-2.9.3.1 Inventory and Reports:** The Contractor shall complete all inventory actions daily. Fuel Automated System (FAS) modules, files, and records as may be applicable to the contracted activity, shall be updated and balanced daily. A summary report of receipts, issues (refuels/defuels), product inventories, and adjustments (gain/loss data) for the previous days activities shall be provided to the COR by 1300 hours daily, Monday, or the first duty day of the week, through Friday. Summaries of weekend/holiday activities shall be forwarded to the COR by 1300 hours of the first duty day following the weekend/holiday. In addition, the Contractor shall maintain and update PWS embedded tables and MS Excel spreadsheets forwarded to the Site Manager by the COR. Updated files shall be submitted to the COR by the fifth workday of the month for subsequent submission to NOLSC Petroleum N423B.

**C-2.9.4 ADP Security:** See [Section C-2.16, Security](#), regarding ADP security issues.

**C-2.9.5 Files and Records:** Inventory and accounting files and records, the property of the Government, shall be organized and stored in a neat accessible manner. All files shall be made available to the COR on request.

**C-2.9.6 Automated System Chips, Keys, and Credit Cards:** Not applicable under this contract.

**Table 4 Administration and Inventory Workload Data**

Administrative/Accounting Workload <sup>(1)</sup>								
Forms/Report Processed	D	W	M	Q	SA	A	AR	Filed
Product Receipt Documents <sup>(2)</sup>		2						104
Aviation Fuel Issue Documents <sup>(3)</sup>	35							8785
Ground Fuel Issue Documents <sup>(3)</sup>	20							5020
Inventory Documents	2		2					284
FAS Summary Report	1		1					272
Contract Summary Report			1					12

(1) Numbers of forms, documents, reports submitted, handled, processed, and filed are estimates of the administrative workload relevant to the receipt, handling, and issue of products.

(2) To include tank temperature and gauging forms, delivery invoice/bill of lading, inspection documents and other documentation as may be relevant to product receipts.

(3) Includes all forms, summary sheets, and ledgers, as may be used to document issues of product.

➤ **Requirement:** Process fuel and cryogenic receipt, transfer, issue, sales, and inventory documents. Post data to and/or validate entries to FAS and makes allowable adjustments to and generates summary reports that accurately portrays the state of the fuel/cryogenic accounts. Advise the FMO, COR, customers, higher echelons of command, and the Defense Energy Support Center regarding account matters and maintain records and filing systems applicable to the accounting and administration for Fuels Management. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.

➤ **Performance Standards**

- ✓ Appropriately cleared personnel in place to perform the accounting function
- ✓ Accounting personnel knowledgeable and capable of work within the Fuels Automated System (FAS) and systems as may be applicable to the contracted activity
- ✓ Inventory/accounting processes, to include the update of computer systems, completed daily
- ✓ Out of tolerance conditions investigated, resolved, and documented
- ✓ Account(s) reconciled and reports generated and forwarded to the COR in a timely manner
- ✓ Files/documentation neat, legible, and filed for easy access
- ✓ Automated service station key/card systems controlled and maintained

## C-2.10 Quality Surveillance

**C-2.10.1 General:** As outlined in [Section C-1.4.3, Product Quality Surveillance Plan](#), the Contractor shall publish and adhere to a Product Quality Surveillance Plan commensurate with the level of quality surveillance normally applicable to and undertaken at NAF El Centro. The plan shall outline policies, methods, and procedures that ensure products under the Contractor's control and care remain on specification. The plan shall include, but is not necessarily limited to, product receipt, storage, and issue sampling, the testing of samples taken from equipment, facilities, and aircraft, the disposition of tested products, and the documentation/reporting of the quality surveillance function. On acceptance, the Product Quality Surveillance Plan shall be incorporated into the contract. The Contractor shall continually review quality surveillance policy and practices applicable to the Navy and update the plan as required.

**C-2.10.2 Quality Determination:** No petroleum product shall be issued or returned to bulk until its quality and confirmation of conformance with specifications has been determined. Products shall be issued on a first-in, first-out basis unless otherwise specified or directed by the Government. Anytime product is received into a tank, regardless of source or reason, it shall be suspended from issue pending quality conformance sampling and notification of test results.

**C-2.10.2.1 Sampling:** The Contractor shall take all samples, i.e., receipt samples commensurate with the mode of receipt, fillstands, truck, and direct fueling systems, and visual samples as may be applicable to the movement of product. Those samples requiring more than visual analysis shall be delivered to the fuel laboratory for testing. Samples shall be taken in accordance with the [API Manual of Petroleum Measurement Standards \(MPMS\), Chapter 8, Section 1, Manual Sampling of Petroleum and Petroleum Products](#), and [MIL-STD-3004, Quality Surveillance Handbook for Fuel, Lubricants, and Related Products](#) as may be supplemented by local instructions. [NAVAIR 80T-109, Aircraft Refueling NATOPS Manual](#) and local instructions dictate the location of samples to be taken, the frequency, quantity, and minimum test requirements. [NAVSUP Publication 558, Fuel Management Ashore](#) outlines the sample retention procedures applicable.

**C-2.10.2.2 Testing:** The Contractor shall conduct all testing of all product samples within the limits and capabilities of the station fuel laboratory and equipment provided. Unless otherwise specified, product samples shall be tested in accordance with [MIL-STD-3004, Quality Surveillance Handbook for Fuel, Lubricants, and Related Products](#), and [NAVAIR 80T-109, Aircraft Refueling NATOPS Manual](#). Calibration of laboratory test equipment and the replacement of standards applicable to all tests shall be conducted by the Contractor and included in the PM plan. Personnel performing quality testing shall be trained and qualified as outlined in [Section C-1.9.2.8, Fuel Laboratory Technician](#).

**Table 5 Quality Surveillance, Samples and Tests**

Quality Surveillance								
Product	Samples <sup>(1)</sup>	Visual <sup>(2)</sup>	API Gravity	Particulate <sup>(3)</sup>	AEL Water <sup>(4)</sup>	Flash Point	FSII	EC <sup>(5)</sup>
Jet Fuel	5,000	5,000	500	1,500	1,500	500	500	N/A
MRR	20	20	20	0				
LS2	12	12	12	0				

- (1) Estimate of total samples, by grade, for a year based on the total number of sampling points, i.e., trucks, fillstands, direct fueling system filters, tanks, and other equipment/points requiring testing.
- (2) Visual test includes the inspection for particulate matter, free water, color, and appearance.
- (3) As determined by CFD, CCFD, Gravimetric Method, or the Gammon Field Test Kit.
- (4) As determined by CCFD, Mark II AEL Water Detector, or the Gammon Field Test Kit.
- (5) As determined by ASTM D2624, Standard Test Method for Electrical Conductivity of Aviation [JP8] and Distillate Fuels Containing SDA.

**C-2.10.3 Documentation:** The Contractor shall maintain a sample log and track laboratory, sampling, and testing programs within the Fuels Automated System (FAS) program. The sample log shall reflect the date and time a sample is received, the type of sample, and the test results. A log of samples requiring more extensive testing, i.e., the reason for testing, to whom a sample is sent, the sample size, and the tests required shall also be kept. A copy of all test results provided by outside sources, including correlation testing, shall be maintained on file and be readily available to the Government on demand. The Contractor shall establish and publish procedures for disseminating information relevant to the sampling, testing, notification of test results, and isolation/release of products under the Contractor’s care and control.

**C-2.10.4 Records Keeping:** The Contractor shall establish and maintain a system of files relevant to quality surveillance records and maintain all such records in a neat, orderly manner. Historical product quality surveillance records shall be kept on file for the duration of the contract and be made available to the Government on request. All quality surveillance records and logs are the property of the Government.

**C-2.10.5 Housekeeping:** Fuel laboratory facilities and equipment shall be maintained to the degree of cleanliness and order commensurate with a “quality surveillance” program. Fuel samples and chemicals shall be properly labeled and stored in the appropriate storage lockers, glassware washed, dried, and stored, and laboratory hardware stored so as to present an orderly appearance.

- **Requirement:** Implement management, sampling and testing regiments, and administrative, security, and environmental controls that fully implement a quality surveillance program that ensures the receipt, proper handling and accountability, and timely availability of specification product to the customer without impact to the environment. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services in a timely manner.

➤ **Performance Standards:**

- ✓ One hundred percent sampling prior to, during, and after all fuel receipts, transfers, and issues
- ✓ One hundred percent visual testing
- ✓ Qualified personnel on duty as outlined in [Table 1, Hours of Operation](#)
- ✓ Sampling and testing does not cause delays resulting in demurrage charges
- ✓ A receipt sample shall be properly marked as to product, source, and date and stored as a retention sample
- ✓ Quality of all petroleum products received, stored and issued meet specification requirements
- ✓ Quality of all petroleum products is verified as suitable for their intended use
- ✓ Records and petroleum samples are maintained to resolve quality concerns
- ✓ Cleanliness and order maintained

## **C-2.11 Property Management and Maintenance**

**C-2.11.1 General:** The Contractor shall be responsible for the normal and continuous use, operation, and real time reporting of discrepancies applicable to all systems, facilities, and equipment furnished by the Government and identified herein, and shall perform the preventive and operator maintenance required to keep all such fuel and cryogenic systems, facilities, and equipment functional. The Contractor shall provide all manpower, materials, tools, instruments, devices, and equipment not otherwise specified as Government-furnished but directly or indirectly required and called for within this contract or references cited to accomplish all work requirements at the level and scope sited herein. The purchase of repair services and supplies beyond the scope of the preventive/operator maintenance program will, given the appropriate approvals, be reimbursed under [Section C-4.0, Logistics Support, Cost Reimbursable](#).

### **C-2.11.2 Maintenance Categories:**

**C-2.11.2.1 Preventive Maintenance:** Preventive maintenance is a program of periodic or cyclical inspections and servicings designed to preserve and maintain facilities, equipment, and apparatus in such a condition that they may be effectively used for their intended purpose. Preventive maintenance will normally be limited to those actions that can be taken by qualified system operators using common hand tools and specialized tools or instruments as may be prescribed by a specific PM procedure.

**C-2.11.2.2 Operator Maintenance:** Operator maintenance is that work accomplished during routine inspections, other than PM, and system use/operation. Operator maintenance may include, but is not necessarily limited to work such as the replacement of ground wires, plugs, and clips, the replacement of seals, O-rings, the lubrication of components, the tightening of nuts, bolts, and screws to prevent leakage and to stabilize equipment, or corrosion control and spot painting. Operator maintenance is normally limited to actions taken by system operators using common hand tools.

**C-2.11.2.3 Other Maintenance and Repair:** Except as specifically outline herein, maintenance and repair beyond that defined as preventive and operator maintenance, i.e., breakdown maintenance or the unplanned repair or replacement of components that show abnormal wear or fail, must be approved by the COR. Tasking and reimbursable for other maintenance and repair actions on the part of the Contractor will be provided as outlined by [Section C-4.2, Services Requiring a Task Order](#).

## C-2.12 Preventive Maintenance - Facilities and Equipment

**C-2.12.1 General:** The Maintenance Plan outlined in [Section C-1.4.6, Maintenance Plan](#), shall provide for the inspection, servicing to the extent applicable under a PM program and as outlined herein, the removal, calibration, and replacement of equipment, and the care of facilities at specified intervals. [Appendix A, Government Furnished Facilities](#), and [Appendix B, Government Furnished Equipment, Supplies, and Services](#), provides listings of facilities and equipment requiring preventive maintenance and shall serve as the base line for the Maintenance Plan. The plan shall provide for a systematic approach to planning, scheduling, documenting, reporting, and managing (labor, materials, time, and costs) those actions that contribute to the uninterrupted function of the fuel facilities and systems. The plan shall include periodic inspection; testing, and minor repair of equipment and facilities in accordance with federal and military specification and standards as well as manufacturer's recommended or commercially accepted practices. To that end, the Government may direct the Contractor to perform practical demonstrates of equipment, procedures, skills, capability, and method for those maintenance and PM processes requiring adherence to measurable standards and skills or the use of specialized instruments, equipment, and tools. See [Section C-2.8, Cryogenic Storage, and Distribution](#), regarding the maintenance of cryogenic systems.

**C-2.12.2 Preventive Maintenance Inspections:** The following inspections are applicable to NAF El Centro. The codes following each item heading, i.e., Gauge (Pressure, Differential, and Vacuum) (A), indicates the scheduled preventive maintenance cycle of **Annual**. The codes (C for continuous or daily observation during system inspections and monitoring during routine work or system operations, D for daily, W for weekly, M for monthly, Q for quarterly, SA for semi-annual, A for annual, and in some cases AR for as required) do not dictate or imply it is the only time an item will be monitored or inspected. In all cases, discrepancies noted as part of the daily system inspections and the preventive/operator maintenance program shall be fully documented, reported, and corrected. Repair requirements deemed beyond the expertise of the Contractor or outside normal preventive maintenance practices shall be documented and reported to the appropriate work center via the COR. However, the Contractor may be tasked under [Section C-4.2, Services Requiring a Task Order](#), and shall take the appropriate action dictated by such a tasking.

**C-2.12.2.1 Buildings and Structures (C):** The Contractor shall ensure that all buildings, structures, and facilities used by or under Contractor control are kept clean and sanitary. The Contractor shall sweep, mop, and wax floors and wash windows and walls of occupied buildings or office spaces to present a clean, orderly, and professional appearance. Maintenance and storage buildings shall be kept in clean and orderly manner. Areas immediately around buildings for which the Contractor is responsible shall be kept free of debris. The Contractor shall not allow fire hazards, such as oily rags, loose paper, and trash to accumulate in or around buildings, structures, facilities, and areas used, occupied, or controlled by the Contractor.

**C-2.12.2.1.1 Pest, Rodent, and Vegetation Control (AR):** Requests for pest, rodent, and vegetation control shall be forwarded to the appropriate work center or agency via the COR.

### Note

**The use of pesticides, insecticides, fungicides, and rodenticides by the Contractor is prohibited.**

**C-2.12.2.1.2 General Maintenance (AR):** The Contractor shall reset circuit breakers and switches, furnish and replace burned out standard and fluorescent lights, and plunge sinks and toilets to keep them serviceable. The requirement for other building/structure maintenance, i.e., electric, carpentry, and other skilled trade work shall be documented and forwarded to the appropriate work center or agency via the COR. The Contractor shall not alter any structure or allow it to be altered without explicit written approval by the Government.

**C-2.12.2.1.3 Designated Areas:** The Contractor shall establish a smoking policy that prohibits smoking in other than Government designated areas. The Contractor shall provide signs to be posted at the entrance to work areas that read, "**NO SMOKING EXCEPT IN DESIGNATED AREAS.**" The Contractor shall also designate a smoking area and provide signs that read, "**DESIGNATED SMOKING AREA.**"

**C-2.12.2.2 Trash Removal (W):** The Contractor shall be responsible for the pick-up of all trash and debris within and around fuel and cryogenic areas under its controlled, and shall dispose of all such trash and debris in Government-

furnished containers/dumpsters. The Government will dispose of the trash and debris placed within the containers/dumpsters provided.

**C-2.12.2.3 Grounds (C):** Grounds maintenance, grass cutting and vegetation control, shall be provided by the Contractor. Grass, weeds, and brush, except ornamental trees and shrubs, within the areas defined below shall be maintained so as not to exceed “4” inches in height on any given day. All vegetation within contractor controlled areas, on/under fence lines, and in the security zone outside the fence line of the bulk storage, refueler parking area, and cryogenics facilities shall be maintained.

**Note**

**The use of herbicides by the Contractor is prohibited. The Government will undertake any application of herbicides.**

**C-2.12.2.4 Roads and Paved Surfaces (C):** All roads, paved surfaces, curbing, and sidewalks within contracted fuel management areas shall be monitored continuously. Damage, defects, and the need for repairs shall be documented and reported to the appropriate PW work center.

**C-2.12.2.5 Fences and Gates (C):** The Contractor shall inspect all fences, to include signs and markings, gates and automatic gate openers, of fuel management compounds. Discrepancies shall be recorded and a work request forwarded to the appropriate PW work center.

**C-2.12.2.6 Lighting (C):** Exterior lighting, security lighting, and exterior building lights will be monitored on a continuous basis. Discrepancies shall be recorded and a work request forwarded to the appropriate PW work center.

**C-2.12.2.7 Other Facilities, Equipment, and Utilities (C):** The Contractor shall continuously monitor other facilities, equipment, and utilities, i.e., AFFF Systems, storm drains, exterior water systems, power poles, lines and transformers, and exterior telephones within Fuel Management areas. Deficiencies noted shall be documented and reported to the appropriate PW work center.

**C-2.12.2.8 Storage Tanks (W):** The Contractor shall visually inspect the exterior of all storage tanks and tank components and visually examine the various samples taken from the tanks on a continuous basis. All inspections and visual examinations shall be documented and corrective action within the scope of PM/operator maintenance accomplished as deficiencies are noted. Maintenance requirements such as the need for exterior corrosion control and painting of tank(s) and tank inspection/cleaning as may be indicated by the visual examination of drawn samples shall be recorded on the appropriate inspection documents, and a work request forwarded to the appropriate PW work center or agency.

**C-2.12.2.8.1 Tank Maintenance:** The Government will be responsible for the complete painting of tanks and internal tank inspection and cleaning. Upon notification of a cleaning or repair project, the Contractor shall, to the extent possible, use installed system-pumping equipment to empty/ready all selected tanks for cleaning and inspection. On completion of tank cleaning or repairs by another party, the Contractor shall perform and document a complete external tank/system inspection to ensure all components are ready to be returned to service. The Contractor shall update all PM systems, programs, and records.

**C-2.12.2.9 Berms/Containment Systems (C):** The Contractor shall ensure that all berms and containment systems are kept clean, free of vegetation, and other debris that may hamper proper system drainage. Drain valves shall be inspected and actuated monthly. The Contractor shall clean all moats, i.e., keep them free of accumulations of dirt, debris, and vegetation. The direct discharge of any liquid from any berm/containment system shall comply with all Spill Prevention Control and Countermeasures (SPCC) plan and National Pollution Discharge Elimination System (NPDES) permit as applicable. The Contractor shall maintain a clear, concise log as to the dates and time berms are drained, observed conditions of the water drained, and who performed the drain operation. Except as required to physically clean and drain berm areas, drain valves, devices, and outlets shall be kept secured in the closed position and locked. Keys shall be controlled as outlined in local lock and key control security instructions.

**C-2.12.2.10 High/Low Level Alarms and Control Valves (Q):** The Contractor shall functionally test installed alarm systems, i.e., low, high, and high-high tank level horns, lights, control board status lights and signals, and low/high level control valves as may be installed quarterly. A systems status report shall be forwarded to the COR on completion of testing.

**C-2.12.2.11 Automatic Tank Gauge (ATG) System (Q):** The Contractor shall monitor ATG systems continuously. ATG readings shall be validated by manual gauging quarterly or as directed by local policy. A systems status report shall be forwarded to the COR on completion of gauge validation/testing.

**C-2.12.2.12 Pumps, Reduction Gears, and Pump Motors (Q):** The Contractor shall maintain all the fuel system pumps, reduction gears, and pump motors in a serviceable condition through scheduled inspections and PM. The Contractor shall adjust packing and stuffing glands, inspect mechanical seals, provide lubrication, replace gaskets and seals not requiring component tear-down, and tighten loose nuts, bolts, and screws to prevent leaks and to stabilize equipment. Pump motors shall be inspected during operation for excessive noise and vibration.

**C-2.12.2.13 Valves and Valve Motor Operators (M):** The Contractor shall inspect and perform preventive/operator maintenance on all types of valves (gate, ball, globe, plug, both lubricated and non-lubricated, check, and double block and bleed, etc.). The Contractor shall inspect, clean, lubricate as needed, and operate/actuate each system valve to ensure proper function. Motor operators shall be inspected, cleaned/lubricated as needed and actuated to ensure proper operation.

**C-2.12.2.13.1 Valve Sub-Assemblies (C):** Flow control valves with pilot, solenoid, and pressure relief control assemblies shall be monitored on a continuous basis. Discrepancies such as erratic performance or valve failure shall be documented and reported to the appropriate work center via the COR.

**C-2.12.2.13.2 Miscellaneous Small Valves (C):** Miscellaneous small valves, all types less than 1.5 inches, shall be monitored continuously. Noted discrepancies shall be recorded and the Contractor shall undertake the work necessary to repair or replace such valves found to be defective. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.14 Filter Separators and Monitors (C):** The Contractor shall inspect/monitor filter separator and fuel monitor vessels and components, i.e., sight gauges, flow indicators, and air eliminators continuously. Systems shall be inspected, water drained, differential pressure readings recorded, and components calibrated/tested as outlined by applicable manufacturer's pamphlets, industry standards, and military specifications. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components, excluding filter and monitor elements, which will be provided by the Government.

**C-2.12.2.14.1 Element Changes:** In addition to the normal PM process, the Contractor shall be responsible for physically changing filter separator and fuel monitor elements, and maintaining the filter/monitor vessels, i.e., replace worn components such as gaskets, spacers, washers, and other minor parts. The Contractor shall control and prepare used elements for disposal in accordance with local environmental regulations. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.14.2 Other Filters:** Small in-line filters, service station dispensing pump filters for instance, shall be monitored for time and throughput and replaced in accordance with manufacturer's recommendations. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.15 Relaxation Chambers (C):** The Contractor shall inspect relaxation chambers for stress fractures, leaks, and operation of the components attached. Pressure/thermal relief valves, pressure gauges, inlet/outlet control valves, and other components as may be installed shall be monitored, tested, or calibrated as required for the specific component.

**C-2.12.2.16 Strainers (All Types) (M):** The Contractor shall inspect and clean system strainers monthly or more often as may be deemed necessary by system condition, flow, and pressure indicators. Defective strainers shall be replaced as necessary. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.17 Meters (S):** The Contractor shall monitor meters on a continuing basis. All meters shall be calibrated semiannually, when a meter is suspected to be out of calibration, whenever a meter is serviced, or when a meter has been damaged.

**C-2.12.2.17.1 Calibration Standards:** The Contractor shall calibrate meters or arrange to have calibrations performed by an agent that is trained to perform such work. Calibrations shall be performed as part of the Navy Calibration and Metrology program and traceable to National Institute of Standards and Technology (NIST) standards. The Contractor shall maintain a log of all calibrations performed. This log should be available for inspection by the COR on request.

**C-2.12.2.18 Gauges (Pressure, Differential, and Vacuum) (A):** The Contractor shall inspect gauges continuously and as part of the scheduled PM program. The Contractor shall remove, calibrate or arrange to have calibrations performed by an agent certified for such work, and replace all such gauges in accordance with [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#), (see the NIST standard noted above). See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.19 Pressure/Thermal Relief Valves (A):** The Contractor shall monitor all installed pressure/thermal relief valves as part of its daily inspection program. As scheduled within the PM system, the Contractor shall remove, bench test, and replace pressure/thermal relief valves in accordance with [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#), or the manufacturer's recommendations.

**C-2.12.2.20 Piping/Pipelines (A):** The Contractor shall monitor piping and pipeline systems, to include all types of expansion joints, continuously. Active cross-country pipelines and pipelines outside of fuel management compounds, shall be monitored by line patrol. All piping shall be identified in accordance with the most current [MIL-STD-161, Identification Methods for Bulk Petroleum Products Systems Including Hydrocarbon Missile Fuels](#), and inspected and maintained in accordance with [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#). The Contractor shall be responsible for spot painting/remarking of lines, keeping pipelines free of water/solids through low point drains, and keeping line/valve pits clean and dry. The Contractor shall maintain the pipeline right-of-way.

**C-2.12.2.20.1 Pipelines Repairs:** The Government will be responsible for pipeline replacement, major repairs, and annual hydrostatic testing of all lines. After any testing/repair action, the Contractor shall inspect, pressurize, and re-inspect the affected lines to ensure the integrity of the line and repairs performed before returning the pipeline to service.

**C-2.12.2.21 Loading Arms, Pantographs, and Nozzles (Q):** The Contractor shall inspect and maintain all loading arms, pantographs, and nozzles in accordance [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#).

**C-2.12.2.22 Couplers, Connectors, and Swivels (Q):** The Contractor shall inspect and monitor all such fixtures, to include quick disconnect and emergency dry breakaway couplers. Leaks, wet spots, erratic mechanical operation, and the need for excessive force to operate such equipment shall be documented and reported to the appropriate work center for repairs. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.23 Hoses (All Types) (A):** Fuel hoses normally detached after an operation shall be drained, capped, and properly stored and protected from the elements after each use. Attached hoses, such as those at a fillstand, shall be properly stored and protected to the maximum extent possible. All hoses shall be inspected for cuts, abrasions, general wear and tear, and fitting/swedge movement continuously. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.23.1 Testing (A):** The Contractor shall test and mark hoses as outlined in [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#).

**C-2.12.2.24 Pits (M):** The Contractor shall keep all pipeline and component pits clean and free of debris, water, and fuel. The Contractor shall remove any water and/or fuel that may accumulate in pits and shall periodically air pits to reduce/prevent corrosion. Should any pit appear to contain excessive fuel or fuel vapors, the Contractor shall inspect all pipeline connections (flanges), valves, and controls, to locate and correct the problem or forward a work request to the appropriate work center via the COR. Appropriate confined space safety measures shall be observed.

**Note**

**Pits known to be less than watertight shall be identified, marked, and monitored continuously. Appropriate work requests for the repair, sealing, or possible replacement of such pits shall be submitted and monitored.**

**C-2.12.2.25 Manifolds (M):** The Contractor shall inspect manifolds for leaks and general condition of equipment as part of its daily inspection process. The Contractor shall perform preventive and operator maintenance to including, but not necessarily limited to, the calibration of gauges, the actuation of valves, the tightening of nuts, bolts, and screws necessary to stabilize equipment and components, and spot painting. The Contractor shall keep manifolds pits, slabs, and surrounding areas clean, free of debris, and vegetation controlled as outlined in [Section C-2.11.3, Grounds](#).

**C-2.12.2.26 Pier Facilities (Piping, Risers, and Valves) (Q):** Not applicable under this contract.

**C-2.12.2.27 Pier Loading Arms (A):** Not applicable under this contract.

**C-2.12.2.28 Truck Fillstands/Fill Points (Q):** Fillstand, to include ground fuel fill points, shall be inspected on a continuous basis for leaks, faulty components, loose connections, and filters/monitor differential pressure readings as applicable. The Contractor shall perform all preventive maintenance that may include but is not necessarily limited to the replacing of ground wires, clamps and plugs, replacing seals, gaskets, replacing burned out lights, and the cleaning of strainers. The Contractor shall also accomplish corrosion control and spot painting of fillstand facilities. See other sections regarding the inspection, preventive/operator maintenance, and calibration of specific components of the fillstand. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**Note**

**The Contractor's first order of system inspection and maintenance task may be to replace the ground fuel bottom loading connections so as to be compatible with those dictated by [Section C-3.1.5.6.1, Bottom Loading Connection\(s\)](#).**

**C-2.12.2.28.1 Sensing Systems (C):** Overfill protection and grounding systems, i.e., Scully and OPW overfill protection, and Scully Ground Hog grounding system shall be monitored on a continuing base. Discrepancies shall be recorded and a work request forwarded to the appropriate work center via the COR.

**C-2.12.2.28.2 Housekeeping (C):** The Contractor shall ensure the area around and under in fillstand is kept clean, free of debris, and that the fillstand containment area is free of water and product residue.

**C-2.12.2.29 Oil/Water Separator System (M):** The Contractor shall visually inspect and measure the contents of oil/water separators. Gauge readings and noted discrepancies shall be documented and reported to the appropriate work center via the COR. Oil/water separator systems are maintained by Public Works.

**C-2.12.2.30 Cathodic Protection System (M):** Cathodic protection systems are maintained by Public Works.

**C-2.12.2.31 Electrical Bonds, Grounds, and Insulators (M):** Electrical bonds shall be checked for continuity of current flow, static grounds for resistance, and insulators for non-flow of current. Inspection and checks shall be made as outlined by [NAVFAC MO-230, Maintenance and Operation of Petroleum Facilities](#), and records of readings maintained.

**C-2.12.2.31.1 Bulk Storage Tanks (Q):** Tank grounding shall be inspected quarterly. Visually inspect the ground connections around the periphery of the base, tighten loose connections, clean corroded connections.

**C-2.12.2.32 Shower and Eyewash Stations (W):** The Contractor shall inspect and test shower and eyewash stations for proper function.

**C-2.12.2.33 Corrosion Control and Painting (C):** The Contractor shall perform corrosion control and minor painting (of those systems requiring painting) as part of housekeeping. Minor/spot painting consists of preparing, applying primer, and repainting small surfaces areas (a square yard of flat surface or 6 linear feet of 6 inch piping) and small components, i.e., valves, strainer, and motors, to protect surfaces from corrosion and to preserve appearances. The Contractor shall also apply color code bands and symbols as outlined in [MIL-STD-161, Identification Methods for Bulk Petroleum Products Systems](#).

**C-2.12.2.33.1 Large Surfaces:** The Contractor will not be required to paint large vertical surfaces such as buildings and tanks or entire pipeline systems.

**C-2.12.2.33.2 Materials Used:** Paint and primer used shall be an oil base type suitable for use on metal and exterior surfaces and shall be matching or compatible with the existing paint scheme.

**C-2.12.2.34 Spill Remediation Equipment:**

**C-2.12.2.34.1 Kits (C):** Government provided spill remediation kits of all sizes and types shall be inspected and monitored continuously. The Contractor shall furnish replacement supplies/kit components. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.34.2 Skimmers (Q):** Not applicable under this contract.

**C-2.12.2.34.3 Small Craft (Boats) (Q):** Not applicable under this contract.

**C-2.12.2.34.3 Booms and Boom Systems (Q):** Not applicable under this contract.

**C-2.12.2.35 Service Station Facilities (C):** Service station facilities, manual or automated, shall be inspected and monitored continuously. Components, i.e., tanks, filters, pumps, hoses, nozzles, and other relevant items as may be identified above shall be inspected as outline above and as a part of the fuel management PM program. See [Section C-3.3.1.8, Spares for Government Furnished Equipment/Facilities](#), regarding the provisioning of spares, replacement parts, and small components.

**C-2.12.2.35 AFFF Facilities/Systems (W):** The installed AFFF facilities/systems shall be inspected by the Contractor. Weekly visual inspection of the system as well as the semi-annual manipulation of the valves and observation/validation of system pressure shall be accomplished by the Contractor. Noted discrepancies shall be reported to the COR.

- **Requirement.** Inspect and maintain fuel facilities and equipment so as to be fully capable of performing all scheduled product receipt and delivery operations and/or respond to non-scheduled service requests received by the dispatch center. Operate system for the days/hours specified herein to provide the customer with quality products and services in a safe and timely manner. Capture workload data and maintain records that fully summarize work accomplished in terms of time, cost, and materials. Advise the Government of any circumstance that may result in the inability to perform the required services in a timely manner.
- **Performance Standards:**
  - ✓ Assigned system operators qualified and knowledgeable of inspection and maintenance requirements. Training records current
  - ✓ Facilities, structures, equipment, and grounds maintained so as to present a clean and orderly appearance and a safe work environment
  - ✓ Facility, system, and equipment reference files maintained and current
  - ✓ The Preventive Maintenance (PM) program installed, maintained and current
  - ✓ Preventive/operator maintenance performed as scheduled/required
  - ✓ Preventive/operator inspections and maintenance fully documented
  - ✓ Maintenance beyond normal PM/operator programs documented and reported to the COR

## C-2.13 Training and Records Keeping

**C-2.13.1 Training Plan and Program:** The Contractor shall establish and maintain a training program that is acceptable to the Government. The plan, both summary and final, shall be provided to the Government as outlined in [Section C-1.4.11, Training Plan](#). On acceptance, the complete training plan shall become a part of the contract. The training plan/program shall ensure that all contract personnel receive training ranging from initial employee indoctrination to fuel safety and environmental issues as may be outlined in but not necessarily limited to in the following table. Training shall be fully documented within each individuals training record. The Personnel Qualification Standard (POS) for Aviation Fuel Operations Ashore, NAVEDTRA 43288A, and Oxygen/Nitrogen (O<sub>2</sub>N<sub>2</sub>) Systems, NAVEDTRA 43107-C, shall be used as the core training record for all fuel and cryogenic personnel respectively.

**C-2.13.2 Training Monitor:** The Contractor shall appoint a responsible individual the collateral duty of Training Monitor, the primary point of contact regarding training and records keeping issues.

**C-2.13.3 Training Records:** Training records shall be kept current and information posted thereto as training occurs. Training records shall be made available to the Government on request. All training documents or a complete copy thereof, excluding proprietary company information, shall be provided without cost to an employee on termination of duties with the contractor.

**Table 6 Training Requirements**

Training <sup>(1)</sup>
Base Driver Training and Familiarization to include Flightline Operations
Fire Prevention and Control
Confined Space Entry (as applicable)
Protection of the Environmental
Facility Response Plan (FRP)
Hazardous Communication
Hazardous Waste Operations and Emergency Response
Lock-Out/Tag-Out Procedures
Safe Transportation of Hazardous Materials
Fuel System Safety
Fuels Automated System (FAS)
Other training, i.e., Marine Terminal Operator, as may be required by state and local agencies and defined by the contracted activity.

(1) Except as may be specified by other sections of this contract, the government is not obligated to train or provide training to contract personnel. However, incidental training as may be mandated by the base and provided without cost to the Contractor, i.e., fire prevention or base/flightline familiarization, shall be fully documented within an employee’s training record.

- **Requirement:** The Contractor shall continually develop and train personnel to enhance work habits and improve skills applicable to the petroleum and cryogenic management mission. Training relevant to equipment operation, product handling and safety procedures, quality and quantity determination, environmental protection, and administrative/accounting functions shall be provided as applicable. The Contractor shall advise the Government of any circumstance that may result in the inability to perform the required services.
- **Performance Standards.**
  - ✓ The Contractor’s Training Monitor is identified
  - ✓ A complete and current copy of the contract Training Plan readily available to the Government on request
  - ✓ One hundred percent compliance with the government accepted training standards
  - ✓ All training records complete and annotated regarding required training as outline in the training plan
  - ✓ Training materials, literature, documents, aids, and information readily available to all personnel

## C-2.14 Safety Program

**C-2.14.1 Safety Plan:** As noted in [Section C-1.4.9, Fuel and Cryogenic Safety](#), the Contractor shall publish and maintain a comprehensive fuel and cryogenics safety program that complies with applicable Federal, state, and local laws and Navy instructions and regulations. The following table lists those safety plans/topics to be provided by the Contractor and Government plans to be incorporated in the Contractor’s final safety plan. On acceptance, the safety plan shall become a part of the contract.

**C-2.14.2 Safety Monitor:** The Contractor shall appoint a responsible individual the collateral duty of Safety Program Monitor, the primary point of contact regarding the Contractor’s safety program.

**C-2.14.3 Safety Materials:** A copy of the safety plan supported by applicable safety literature, training aids, and other safety training materials shall be made available to contract employees.

**C-2.14.4 Accident/Incident Reporting:** All duty related accidents and incidents, to include traffic violations involving Contractor operated equipment, for which the Contractor or contract personnel are responsible or involved in shall be reported to the COR immediately or, depending on the severity and circumstances, as soon as practical. All accidents and incidents shall be fully documented and a copy of all initial draft and final accident/incident reports forwarded to the COR with the next duty day documents and reports. Also see [Section C-2.15.5, Spill Reporting](#), regarding product/material spills.

**Table 7 Safety Plan**

Safety
Industrial Hygiene Plan (Physical survey performed by the Government.)
Confined Space Entry Plan (Provided by the Contractor as applicable.)
Disaster Preparedness Plan (Provided by the Government.)
Fire Prevention and Protection Plan (Provide for all Contractor used and controlled systems and facilities.)
Hazardous Waste Operations and Emergency Response Plan (Provided by the Government.)
Safety and Health Standards Plan
Accident/Incident Reporting

- **Requirement:** Establish a comprehensive safety program and publish a safety plan. Train personnel to recognize potential hazards, avoid exposure to danger, and to develop safe working habits and skills applicable to petroleum and cryogenics related operations so as to minimize disruptions to customer support. The Contractor shall advise the Government of any circumstance that may result in the inability to perform the required services.
- **Performance Standards:**
  - ✓ The Contract’s Safety Plan available to the Government and contract personnel
  - ✓ All safety materials, training aids and documents readily available to contract personnel
  - ✓ Contractor safety monitor appointed
  - ✓ One hundred percent documentation and compliance with government approved safety plans
  - ✓ One hundred percent documentation verifying all operations are conducted in accordance with government approved procedures

## C-2.15 Environmental Protection

**C-2.15.1 Compliance:** The Contractor shall comply with all Federal, state, and local environmental law, regulation, and code as outlined by [Section C-1.4.4, Environmental Protection Plan](#), and publish a comprehensive environmental plan that complies with and compliments the Government provided environmental plans listed below. The Contractors plan shall be site specific, cover all areas, facilities, equipment, duties, and tasks for which the contractor is responsible, establish misshape reporting procedures as required below, and should elaborate on issues that may be unique to the activity, i.e. operator pre-testing of used oils collections (not required at all activities). The Contractor shall be fully responsible for compliance with all environmental code, regulation, and laws in effect at the time of contract start and shall comply with all additions, changes, and revisions as may become effective during the contract period.

**C-2.15.2 Permits and Licenses:** Environmental permits and licenses required for the operation of Government fuel facilities will be obtained by and kept on file by the Government.

**C-2.15.3 Training:** The environmental training listed in [Section C-2-13, Training and Records Keeping](#), or as may be relevant to the requirements of this section and the plans outlined shall be the responsibility of the Contractor.

**C-2.15.4 Assignments:** The activity Spill Prevention Control and Countermeasures (SPCC) plan may designate contract management/personnel to serve as the On Scene Coordinator (OSC) relevant to fuel facilities under the control of the Contractor and outlined herein. In addition, fuel dispatchers may be designated as the contract fuels management Initial Point of Contract (IPOC) regarding fuel spills within fuel management areas under the control of the Contractor, or actions relevant to operations involving contract personnel. In concert with the base environmental goals, the Contractor shall train personnel regarding all required duties relevant to the assigned tasks.

**Table 8 Environmental Protection**

Environmental	
EPA Hazardous Waste Management System	40 CFR, Chapter 1, Part 260
Facility/Emergency Response Plan (OPA 90)	33 CFR 154, 40 CFR 112, 49 CFR 194
National Pollutant Discharge Elimination System (NPDES) Permit Plan	40 CFR, Chapter 1, Part 122
Oil Pollution Prevention Operations Manual	33 CFR 154
Spill Prevention Control and Countermeasures (SPCC) Plan	40 CFR, Chapter 1, Part 112
High/Low Level Alarms and Control Valve System Status Report	<a href="#">Section C-2.12.2.10</a>
HAZWOPR/First Response Training	29 CFR, Chapter 17, Part 1910
List state/local requirements or indicate "No specific state/local requirements."	

**C-2.15.5 Spill Reporting:** In addition to any and all formal Government requirements for the reporting of fuel spills, the Contractor shall provide a simplified report of all spills involving the Contractor, its personnel, equipment, systems, and processes for which it is responsible. Outside aircraft venting incidents (refueling), minor seepage or weepage of system/equipment components, or the capture of small amounts of fuel in drip pans incidental to maintenance, i.e. nozzle changes or strainer cleaning, the spill and loss or recovery of product shall be reported to the COR, the DESC-FPB Contracting specialist responsible for the contract, and NOLSC Petroleum N423 and N423B. All reports shall be immediate (same day) written (e-mail) accounts of the circumstances surrounding the spill, the estimated amount of the spill, and actions taken to remediate the spill.

**C-2.15.6 Supplies and Equipment:** The Contractor shall be responsible for the inspection, inventory, and care of the spill containment and clean up kits outlined under [Section C-2.12.2.34, Spill Remediation Kits](#) (facilities), and [Section C-3.1.2.10, Spill Remediation Kits](#) (vehicles). Consumables, i.e., small spill barriers, absorbent pads and compounds, squeegees, mops, rags, and other materials required to replenish kits or maintain all kits at 100 per cent usable level shall provided by the Contractor.

- **Requirement:** Publish an environmental protection plan and train, assign, and task personnel to take all required and necessary actions to prevent, control, or abate environmental pollution relative to the fuel facilities, activities, and programs under the Contractor’s control and responsibility. Maintain remediation and clean up kits to respond to and control spills to the extent possible. The Contractor shall notify the Government of any circumstance that may result in the inability to perform the required services.
- **Performance Standards:**
  - ✓ A copy of the current Government Spill Prevention Control and Countermeasures (SPCC) plan on hand or available to the Contractor
  - ✓ Contractor Environmental Protection plan on hand and available to the Government on request
  - ✓ As applicable, Initial Point of Contact (IPOC) assigned and trained regarding responsibilities
  - ✓ As applicable, On Scene Coordinator (OSC) assigned and trained regarding responsibilities

- ✓ One hundred percent compliance with environmental laws, regulations, and government environmental documents.
- ✓ Inspect and resupply remediation kits to 100 per cent clean up capacity
- ✓ Fuel spills, regardless of size, reported to the COR, DESC, and NOLSC Petroleum
- ✓ Notice of Violation forwarded to the COR

## C-2.16 Security

**C-2.16.1 General:** Under the guidelines of the most current [OPNAVINST 5530.14, Navy Physical Security](#), the Contractor shall be responsible for implementing the administrative and physical security measures required and necessary to protect Government facilities, vehicles, equipment, materials, systems, and petroleum products, as well as, contractor owned equipment, tools, supplies, and vehicles and products held therein. The Contractor shall provide all labor, vehicles, equipment, materials, and supplies necessary to manage and protect all the areas under its control. The contractor's security plan, the requirement for which is established in [Section C-1.4.10, Security Plan](#), shall outline policy, guidance, and procedures regarding facility access controls and visitor logs, lock and key controls, random patrols of fuel management facilities and pipelines, ADP security, and other measures as may be required and relevant to NAF El Centro.

**C-2.16.2 ADP Security:** The contractor shall comply with all ADP security measures and requirements for Government computer systems. Contract personnel requiring access to the DOD computer systems shall be properly cleared at the level dictated below. Accept for the Government responses to a Contractor's requests for a clearance, the administrative burden required to apply for and process clearances requests and to gain access to computer systems at any level shall be the responsibility of the Contractor.

**C-2.16.2.1 Local FCC Access:** Dispatchers and other contract personnel, to include contract management, requiring access to the FAS Fuel Control Center (FCC) systems shall be cleared and provided system access (a password) as dictated by local IT/ADP instructions.

**C-2.16.2.2 FAS Enterprise Server (FES):** Persons requiring access to FES (the Purple Hub) shall be cleared and obtain a system password. The Contractor shall complete and submit all specified documentation to obtain the appropriate clearances for each person requiring access to FES. Go to <http://www.desc.dla.mil/DCM/Files/FESAccess.pdf> for instructions regarding access to FES. To the extent possible and practical, all applicable documentation should be submitted well before the contract start date. Contract personnel will not be granted access to FES or capable of performing contractually obligated tasks until a clearance/password has been provided.

**C-2.16.3 Physical Barriers:** Except for grounds maintenance and vegetation control around and under installed physical barriers as outlined in [Section C-2.12.2.3, Grounds](#), the Government will provide and maintain the physical security barriers, i.e., walls, fences, lighting, and alarms as may be necessary to protect property; however, see monitoring/reporting of such facilities as outlined below.

**C-2.16.4 Patrols and Guards:** Except for the personnel requirements noted within this section, contractor furnished security guards are not required.

**C-2.16.5 Monitoring/Reporting:** The contractor shall perform and document end-of-day facility inspections to ensure all systems are secure to the extent of the physical barriers provided. During the duty hours reflected in [Table 1, Hours of Operation](#), unmanned fuel and cryogenic facilities shall be randomly inspected at least every four hours. Noted facility, physical barrier, and lighting discrepancies shall be reported as are outlined in [Section C-2.12, Preventive Maintenance](#). The Government will perform after hour drive-by security inspections.

**Table 9 Security Measures**

Security
ADP security, user accounts and passwords, obtained for Government computer system users.
Maintain controlled access to Government facilities under the Contractor’s control.
Secure all gates, buildings, facilities, and systems when not in use.
Establish and maintain a key security and lock control system.
Maintain visitors logs.
Perform and document random security checks/patrols of areas not normally occupied beyond normal duty hours.

- **Requirement:** In concert with the local vulnerability assessment, the threat condition established, and to the extent of the physical barriers and systems provided, the Contractor shall act to ensure that all Government/Contractor facilities, equipment, materials, supplies, products, and computer systems over which the Contractor maintains control are physically secure. The Contractor shall advise the Government of any circumstance that may result in the inability to perform the required services.
  
- **Performance Standards:**
  - ✓ Level of security comparable to the established threat condition
  - ✓ Security plan and requirements documented and files maintained
  - ✓ Key and lock system established and controlled
  - ✓ Visitor logs maintained
  - ✓ Random security inspections performed and documented
  - ✓ Facility inspections performed to ensure security systems are functional. Noted discrepancies reported
  - ✓ Government computer systems used only by personnel who are cleared and provided password access

**C-2.17 Property Inventory and Accountability**

**C-2.17.1 Joint Inventory:** At contract turnover as outlined in [Section C-1.5, Contract Turnover](#), representatives of the Contractor and Government will conduct a joint inventory of all Government furnished facilities, systems, equipment, supplies, and other property to be furnished by the Government to the Contractor. They will jointly validate the list of facilities, fuel and cryogenic systems, equipment, and components listed in [Appendixes A, Government Furnished Facilities](#), and update the appendix to fully account for Government assets to be placed under the care and control of the Contractor. They will also update and jointly validate [Appendix B, Government Furnished Equipment, Supplies, and Services](#) to provide an inventory of all other Government furnished minor property.

**C-2.17.2 Disposition of Government Property:** The Government reserves the right to dispose of any excess or unserviceable facilities, equipment, components, parts, materials, supplies, or other items as may have been furnished at any time over the course of the contract. The Government will replace items critical to the Contractor’s performance; however, the Contractor may be tasked under [Section C-4.2, Services Requiring a Task Order](#), to provide replacement items or procure repairs. Furthermore, the Government reserves the right to dispose of any excess or unserviceable common use items such as but not limited to office and rest area furniture, decorative pieces, and appliances such as coffee machines, microwave ovens, and refrigerators without replacement. Appliances and furniture items accumulated, collected, or otherwise provided by the Contractor over the course of the contract shall be removed from the base or otherwise disposed of at the end of the Contract. All facilities, equipment, components, parts, materials, supplies, or other items furnished by the Government to the Contractor shall be returned to the Government in as good a condition as received, allowing for normal wear and tear.

**C-2.17.3 Annual Property Inventory:** As outlined in *Section I, Clause III4, Government Property (Fixed-Price Contracts)*, the Contractor shall account for all properties, maintain records, and submit a report of Government Furnished Equipment/Property in the custody of the Contractor, annually, as of the anniversary of the contract. The report shall be forwarded to the COR not later than 30 days from the anniversary date each year of the contract. The Contractor's report shall provide a complete inventory of Government-furnished property under its custody. The Contractor shall identify all property deleted and received since the preparation of the last inventory and provide copies of source documents, i. e., Contractor/vendors invoices, for each item of Government-furnished property. As applicable, [Appendix A, Government Furnished Facilities](#), and [Appendix B, Government Furnished Equipment, Supplies, and Services](#), shall be updated by the Contractor.

## **C-2.18 Use of Government Facilities**

**C-2.18.1 General:** The Contractor shall not permit or authorize personnel to store, repair, or care for personal property such as boats, motor vehicles, recreational vehicles, trailers, motorcycles, etc., on Government property under Contractor control. Likewise, the Contractor shall not use Government property, facilities, or buildings for the storage or repair of Contractor-owned vehicles and equipment not specified or provided within the terms of this contract.

**C-2.18.2 Parking:** The parking of personal vehicles used for transportation to and from work will be permitted in designated vehicle parking areas during normal working hours.

## C-3.0 CONTRACTOR-FURNISHED EQUIPMENT

### C-3.1 Vehicles

**C-3.1.1 General:** The Contractor shall ensure that all the vehicles, equipment, tools, supplies and services specified, required and necessary for the normal and continuous safe operation, maintenance, and inspection, calibration and upkeep of the equipment identified within this section are provided and available. The Contractor shall provide all tools, equipment, instruments, devices, parts, and supplies directly or indirectly called for within this contract or references cited. The Contractor shall provide all of the vehicles required and necessary to meet the workloads identified herein within the response times outlined in [Section C-2.2.2.2, Response](#), for the petroleum related operations specified in [Table 1, Hours of Operation](#). All equipment shall be maintained in a fully serviceable condition by the Contractor and shall be fully capable of safely performing the tasks for which they are designed. The vehicles provided to an activity at contract start shall not be replaced or removed from the base/station without written notification to and documented approval by the Government. Standby or spare vehicles not specified or required herein but presented for use on station shall pass all inspections applicable to the equivalent type of equipment provided under this contract.

#### C-3.1.2 Prime Mover, Trucks and Tractors

**C-3.1.2.1 General:** Truck and tractor chassis, to include motor tank vehicle chassis, provided under this contract shall be of the size, capacity, and condition that provides for an ease of operations fully intended by the truck manufacture, the complete safety of the driver/operator, and one that reflects the pride and professionalism of the Contractor. Truck and tractor chassis shall be of a standard, first class commercial design fully equipped and sized to tow/carry the cargo load to which they will be subjected. Subject to the minimum cargo tank capacity set forth in [Section C-3.1.3.2.1, Cargo Tank Capacity](#), the Contractor shall provide equipment that, when filled to capacity, will, to the maximum extent possible and practical, support the loads being carried. Tractors under 8,000-gallon refuelers shall be configured with three (3) axles rated at 12/20/20 thousand pounds or greater front to rear. 5,000-gallon motor tank trucks shall be configured with three (3) axles rated at 14/20/20 thousand pounds or greater front to rear. See the most current version of Federal *Standard 794\**; *Truck and Truck Tractor, Medium Commercial* and *Federal Standard 807\**; *Truck and Truck Tractor, Heavy Commercial*; however, alternative engine (reduced horsepower rating) and transmission (manual versus automatic) packaging is expectable. As outlined in the aforementioned standards, vehicle ratings shall be the manufacture's published ratings. Component and vehicular ratings shall not be raised to meet the requirements of this or any other specification. Except as specifically modified herein, each truck/tractor shall be configured and maintained to meet the requirements set forth in [49 CFR, Chap III, Sub-Chapter B, Part 393, Parts and Accessories Necessary for Safe Operation](#). All tractors of the same class shall be interchangeable with all trailers of the same class without modification to the tractor or trailer.

**C-3.1.2.2 Safety/Environmental:** The Contractor shall maintain trucks and tractors so that entry of carbon monoxide and noxious fumes into the vehicle cab is minimized. Rubber boots around pedals and levers shall be in tact and tight fitting. Grommets in holes through the firewall shall fit snugly. Holes in the floor panels, firewall, or elsewhere within the cab shall be repaired/closed. Heater and fresh air intakes shall be remote from the exhaust discharge. Exhaust systems shall be inspected and repaired or replaced as necessary. Engine oil and fluids shall be controlled (leaks repaired) so as to prevent the spillage of fluids anywhere.

**C-3.1.2.3 Radios:** The Contractor shall provide the radios described in [Section C-3.3.1.1, Radios](#). The ignition system of all Contractor vehicles shall be equipped with devices designed to minimize radio interference.

**C-3.1.2.4 Electrical Wiring and Lights:** All wiring beyond the rear of the truck or tractor cab shall be of adequate size to provide the required current-carrying capacity and mechanical strength. It shall be mounted to provide protection from physical damage and contact with spilled fuel by being enclosed in a metal conduit or other oil-resistant protective covering. All circuits shall have over-current protection. Junction boxes shall be weatherproof.

**C-3.1.2.5 Mirrors and Glass:** All trucks and tractors shall be equipped with large, truck type exterior rear view mirrors located and mounted so as to provide the driver a clear view of the rear along both sides of the vehicle or trailer. Mirrors as well as windshields, windows, turn signals, reflectors, clearance and brake lights shall not be cracked, broken, fogged, or distorted in a way that would impede the driver's vision or prevent a clear signal to other traffic.

**C-3.1.2.6 Fenders and Mudguards:** Fenders and mudguards shall be installed over the wheels of the tractor to fully protect the cargo tank and pumping system. Front fenders/mudguards may be tractor or trailer mounted. Non-functional skirting and flashing is prohibited.

**C-3.1.2.7 Tires:** Unless specific tire requirements are established by the Commanding Officer, 49 CFR, Chap III, Sub-Chap B, Part 393, Sub-Part G applies. However, non-FOD tire may be mounted at the Contractors discretion.

**C-3.1.2.8 Exhaust:** The exhaust system of all trucks/tractors shall consist of a standard commercial muffler and a spark arrestor. The spark arrestor shall be approved under USDA Forest Service Standard 5100.1b as supplemented by the NWCG Spark Arrestor Guide, General Purpose and Locomotive (GP/Loco), Volume 1. The spark arrestor shall have a clean out plug. Where flexible exhaust pipe is used to absorb engine torque, a short section, not exceed 18 inches may be used. Exhaust systems shall be configured as follows:

**Note**

**A spark arrestor is not required on trucks equipped with turbo diesel engines where 100 percent of the exhaust passes through the turbo unit.**

**C-3.1.2.8.1 Forward Mounted Fuel Components:** On fuel servicing tractor/semi-trailers where fuel system components and piping are mounted on the tractor chassis or on the front of the tank over the tractor chassis, and on cargo tank motor vehicles where components are mounted on the chassis between the cab and the tank or along the chassis under the tank behind the cab, the muffler and spark arrestor shall be mounted at the front of the engine with the exhaust outlet directed toward and exiting at the right extreme of the front bumper of the unit. The exhaust outlet shall point toward the ground at a 45-degree angle and terminate no higher than 18 inches above the ground.

**C-3.1.2.8.2 Under-Trailer/Rear Mount Fuel Components:** On fuel servicing equipment configured with the system components and piping mounted under the trailer and to the rear of the trailer landing gear or on the rear of the trailer or tank, a shielded commercial exhaust system as described in NFPA 407, Standards for Aircraft Fuel Servicing, may be installed. Exhaust piping, shielded or otherwise, shall not terminal under the truck/tractor cab or anywhere between the chassis frame rails.

**C-3.1.2.9 Painting and Marking:** Contractor vehicles, excluding utility vehicles, shall be painted and marked in accordance with NAVFAC P-300, Management of Transportation Equipment. All vehicles shall be free of rusted areas, running rust, flaking paint, and excessive paint oxidation. Contractor vehicles shall be completely repainted when touch up painting exceeds 20 percent of the vehicle's surface. Faded, poorly reflective, and obscure stencils, placards, and logos shall be replaced.

**C-3.1.2.9.1 Placards:** A DOT placard applicable to the grade of product being transported shall be placed on the left quarter of the front bumper. A placard holder or rigid plate to which the placard is mounted may be used for the bumper mounting. See sections applicable to the cargo tank for side and rear placard requirements.

**C-3.1.2.9.2 Company Logo:** Truck/tractor doors shall be marked with a permanently affixed company name or logo. The name or logo shall be applied in a professional manner, reflective of company pride and professionalism. Stenciled or spray painted logos or magnetic placards shall not be used.

**C-3.1.2.10 Spill Remediation Kits:** Each Contractor truck/tractor shall be equipped with a 10-gallon spill clean up/remediation kit that is protected from the elements but readily available to the vehicle operator.

**C-3.1.2.11 Equipment Controls:** Except to operate the clutch, set the transmission in the appropriate gear, and engage the PTO, all pump system controls and effort necessary to observe or operate those controls and the pumping system shall be from the operator position outside the cab of the vehicle being operated. Once the unit is set to operate, the drive shall not be required to re-enter the truck cab except in an emergency or to disengage the PTO and move the equipment from the servicing area.

### C-3.1.3 Refuelers

**C-3.1.3.1 General:** Contractor provided refuelers (fuel-servicing trucks/trailers and cargo motor tanks configured to issue filtered product, and defuel and filter product being returned to the cargo tank) shall be configured to meet the specifications outlined herein. The design and construction of new refuelers shall be such that the cargo tank meets DOT 406 specifications; however, cargo tanks built to MC 306 specifications are acceptable. Refueler components shall be applied in accordance with the most current edition of [NFPA 407, Standards for Aircraft Fuel Servicing](#); however, see [NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual, Chapter 11](#), with regard to the basic components to be installed, their specific range of measurements, and the use of COMNAVAIRAIRSYSCOM approved components. Should a conflict between specifications arise, the more stringent or restrictive requirement shall apply. Except for the PTO mounted hydraulic pump and the tractor to trailer electrical, air, and hydraulic lines, all components shall be contiguous to the cargo tank/frame (semi-trailers), or the entire prime mover/refueler shall be a cargo motor tank. A hydraulic cooling system, if installed, may be tractor or trailer mounted. Regardless of the refueler/truck configuration, all hoses and connections, i.e., servicing hoses, recirculation, bottom loading, and defuel connections, overflow protection devices, grounds, deadman controls, or otherwise shall be located on the left or drivers side of the vehicle.

#### Note

The Government reserves the right to designate the grade of product to be held in and dispensed from any or all Contractor fuel servicing vehicles. Reasonable costs associated with product changes, filter replacement for example, directed by the Government will be borne by the Government.

**C-3.1.3.2 Cargo Tank:** Cargo tanks be constructed of aluminum or stainless steel. New tank construction shall conform to DOT 406 specifications as outlined in the [CFR Title 49, Transportation](#); however, used cargo tanks constructed to MC 306 specifications are acceptable. Unless specified otherwise, the provisions of [49 CFR 178](#) and the most current subpart applicable to specification DOT 406 or MC 306 apply. Furthermore, all referenced guidelines for the construction, use of materials, inspections, certifications, marking, and stamping of cargo tanks or components thereof, also apply. The cargo tank shall be one compartment with the appropriate baffles. Each baffle shall be open at the baffle/tank top to allow venting between all baffled areas at the 600 GPM fill rate. Openings at the baffle bottom/tank floor shall allow the flow of lading to the tank suction point at the 300 GPM issue rate. The entire tank shall drain completely to a low point. The tank shall be designed so that all portions are accessible for inspection, cleaning, and maintenance. Each cargo tank shall be marked with a specification and nameplate as outlined in [49 CFR 178](#). In addition, [49 CFR, Part 180, Subpart A, General, and Subpart E, Qualification and Maintenance of Cargo Tanks](#) shall apply.

#### Note

MC 302, 303, or 305 specification tanks will not be considered under this contract.

**C-3.1.3.2.1 Cargo Tank Capacity:** Trailer and motor tank chassis shall be of a standard, first class commercial design equipped and sized to the maximum extent possible and practical carry the load to which it will be subjected. Cargo tanks provided shall have a **minimum capacity of 8000-gallons** plus the appropriate expansion space and, unless specified otherwise, shall be filled to capacity. Subject to the minimum cargo tank capacity specified, 8,000-gallon refuelers (trailers) shall be configured with two (2) axles rated at 20/20 thousand pounds or greater. Vehicle ratings shall be the manufacture's published ratings. Component and trailer ratings shall not be raised to meet the requirements of this or any other specification. Equipment required for use or travel off station shall be properly licensed or permitted and loaded to comply with all federal, state, and local highway/road use laws, regulations, and code.

#### Note

All fuel servicing trucks and tractor/trailer combinations shall be filled to capacity with JP5/8 or a fluid of equivalent weight. Certified weight documents and manufacturer's documents regarding weight specifications, exceptions, limitations, or re-rating of axles shall be presented at the time of the equipment inspection, [Section C-3.3.1.2, Equipment Inspection](#).

**C-3.1.3.2.2 Sacrificial Devices:** As outlined in [49 CFR 178-345-8 and 346-8](#), any piping that extends beyond the accident damage protection must be equipped with an emergency stop valve and a sacrificial device such as a shear section. Sacrificial devices in the form of a shear section shall conform to the specifications of TTMA RP 86-98 as tested in accordance with the procedures set forth in TTMA 84-98 or the most current version hereof.

**C-3.1.3.3 Tank Venting:** In addition to pressure and vacuum devices required under specification MC 306 and DOT 406, the cargo tank shall be equipped with a positive venting system rated at the 600 GPM bottom loading flow rate. The system shall open automatically when the unit is set for the movement of product into or out of the cargo tank.

**C-3.1.3.4 Overfill Protection:** Each cargo tank shall be equipped with an overfill protection device, system or equipment compatible with that installed on the petroleum distribution system (fillstand) at the contracted activity. The refueler connection/receptacle that mates with the fillstand cable/connector shall be firmly mounted near the bottom-loading receptacle. The cable/connector receptacle shall be painted green for easy identification. Any wiring between the receptacle and the tank probe shall be encased as required by [Section C-3.1.2.4, Electrical Wiring and Lights](#). Any system installed/used shall be fully functional in the defuel mode and capable of being tested during equipment inspections. For probe type overfill protection systems, i.e., Scully and OPW, a minimum of three [portable devices](#), fully compatible with the tank mounted system, shall be furnished by the Contractor to be used for short-term emergencies. If the contracted activity fillstand system is not equipped with a functional overfill protection device, system, or equipment, the Contractor shall provide fuel servicing trucks equipped with an overfill protection system that is integral to the cargo tank/refueler. That system shall stop the flow of product to the cargo tank completely at the designated full tank level. Regardless of the method used, an anti-drive feature required under [Section C-3.1.3.6.1, Bottom Loading](#), shall be installed.

#### Note

The overfill protection system (receptacle) currently installed at NAF EI Centro is the Scully model XYZ, the older four prong style receptacle.

**C-3.1.3.5 Low Point Drain:** The cargo tank shall be configured with an internal self-closing stop-valve at the lowest point(s) of the cargo tank to facilitate low point/complete draining of the tank. Piping/tubing necessary to make the drain point readily accessible without having to crawling under any portion of the vehicle shall be installed and terminate with an additional rigidly mounted control valve. The cable/pull mechanism used to open the self-closing low point drain valve shall terminate at or near the low point drain outlet but apart from the emergency control system identified in [Section 3.1.3.8.3, Emergency Controls](#), and shall be clearly marked “LOW POINT DRAIN” in a color other than red.

**C-3.1.3.6 Piping:** System piping shall be designed and installed to facilitate complete drainage of the cargo tank. Piping sections subjected to excessive movement during operation, shall be firmly mounted or braced, and fully protected by grommets where it passes through sheet metal frames or bulkheads. The pump and bottom loading system piping shall be constructed of schedule-40 aluminum or schedule-5 stainless steel.

#### Note

Refuelers configured with permanently installed tank to tractor--tractor to tank product transfer or “belly hoses” will not be considered for use under this contract.

**C-3.1.3.6.1 Bottom Loading:** Cargo tanks shall be configured to bottom load at 600 GPM. The jet fuel bottom loading system shall consist of a standard single point receptacle with dust cover and manual shutoff valve. An anti-drive away device/system, one that will prevent the movement of the unit as long as a nozzle is connected to the bottom-loading receptacle, shall be incorporated in the bottom loading system.

#### Note

In those states requiring vapor recovery, a vapor recovery system shall be installed on refuelers dispensing volatile products, i.e., Jet B, JP4, and aviation gasoline.

**C-3.1.3.6.2 Recirculation:** All fuel servicing hoses shall be capable of being recirculated. The recirculation system shall be capable of flow rates equal to the size and type of hose system being tested. Product shall be drawn from the main tank valve/suction point, circulated throughout the entire fuel system and hose(s) and returned to the tank at a separate tank fitting remote to the suction point, see [NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual, Figure 11.5](#). The bottom-loading system may serve as the recirculation point if the return to the cargo tank is remote to the pump suction point.

**C-3.1.3.7 Defueling:** Each refueler shall be capable of defueling at 50 GPM at ground level. All product defueled shall be metered, filtered, and pass through the relaxation chamber prior to returning to the cargo tank. The defuel connection (stub) shall consist of a one and one-half inch (1½”) quick disconnect adapter (male fitting) and dust cap, a line strainer assembly, and a control valve that isolates the strainer and defuel connection. The strainer screen shall be readily removable for cleaning and inspection without interference with or removal of other components.

**C-3.1.3.8 Pumping System:** The pumping system shall consist of pumps, piping, connectors, valves, and other hardware identified herein. The pump system shall provide for a low flow rate, 0 to 100 GPM via overwing nozzle, and high flow, 0 to 300 GPM via the underwing (single point) nozzle. The pump system shall be adjustable so that fuel pressure measured at the underwing nozzle does not exceed 50 PSI at the 300 GPM rate during aircraft refueling. All system controls, valves, and hose connections shall be accessible to the operator and operable from ground level. All metals downstream of, and including the filter/separator, that are exposed to the fuel, shall be non-ferric or stainless steel material. Internally coated piping and components are not acceptable.

#### Note

**Pumping systems using hydraulic pressure, i.e., tractor to trailer pressure systems shall be conspicuously marked with the appropriate “HIGH PRESSURE WARNINGS.” Precautions regarding such systems shall be included in operator training programs.**

**C-3.1.3.8.1 Flow Control:** A calibrated pump pressure gauge, the differential gauges noted in [Section C-3.1.3.9.1, Differential Pressure](#), and a throttle or rate of flow control mechanism that can be set or locked in position shall be centrally mounted outside the truck cab so they can be read/operated from the equipment operator’s position. The pump pressure gauge shall be marked to indicate maximum servicing/operating range and clearly labeled as to its function. All controls shall be illuminated by a panel/frame mounted lighting system conforming to [Section C-3.1.2.4, Electrical Wiring and Lights](#), during night operations.

**C-3.1.3.8.2 Performance:** Unless otherwise specified, refuelers shall be capable of dispensing product at the minimum rate of 0 to 100 GPM through a 1½ inch by 50 foot (1½” X 50’) fuel servicing hose and a 1½ inch overwing servicing nozzle and 0 to 300 GPM through a 2 inch by 50 foot (2” X 50’) fuel servicing hose, dry breakaway coupler, 55 PSI hose end pressure regulator, and an underwing (single point) servicing nozzle as measured at the truck meter when connected and returning product to the equipment bottom loading or recirculation point. Pumping systems, thus configured shall be capable of sustained flow at the rates noted until the cargo tank is empty or pump suction/prime is lost. Hose/system flow rates shall be measured separately.

**C-3.1.3.8.3 Emergency Controls:** In addition to the main tank valve control mechanism, the valve normally positioned at the approximate center of the refueler and opened by the operator to allow the flow of product, emergency shutdown devices shall be installed at the left front and right rear of the cargo tank. These mechanisms shall be unobstructed, i.e., mounted outside of the tank frame, ladders, fire extinguishers, and placards, readily identifiable (handles that may blend with the truck color painted red), and clearly marked **EMERGENCY SHUTOFF** with directions to **PUSH, PULL, LIFT, or CLOSE** in two-inch white lettering on a red background. An arrow indicating the direction of motion shall also be provided. Systems equipped with break off type devices (those that release air pressure to shutdown the system) shall incorporate a means of testing the system. Fusible plugs or links incorporated into the emergency shutdown system shall not be painted.

**C-3.1.3.9 Filter Separator:** A three-stage filter/separator configured with coalescer elements as specified under MIL-F-52308\* or meeting American Petroleum Institute (API) Publication 1581, Group II, Class C standards, a separator stage (elements) as outlined by MIL-F-8901\*, and fuel monitor elements equivalent to that of MIL-M-81380\* shall be installed on each refueler. The non-ferric or stainless steel filter/separator shall be sized to meet the 300 GPM flow rate established in [Section C-3.1.3.8.2, Performance](#), and configured with the appropriate air eliminator, pressure (thermal) relief system, a water slug control valve and test mechanism, a manual sump drain, differential pressure gauges, and a sample connections as specified in [NAVAIR 00-80T-109, Aircraft Refueling NATOPS Manual](#). The air eliminator and pressure relief valve shall be vented to the main tank via a common line and one-way check valve to prevent back flow to the filter vessel. The water slug control valve and sump float assembly shall stop/start the flow of product when the water within the filter/separator sump reaches a predetermined level. The control valve used in conjunction with the float assembly shall include provisions that will permit manual testing of the water slug control system. The filter/separator sump drain shall be equipped with a spring-loaded ball type drain valve that is normally in the closed position. The chamber shall be designed, constructed, tested, marked, and stamped in accordance with the American Society of Mechanical Engineers (ASME) code, ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. The asterisk \* following all military specifications indicates there is an El Centro revision designator. The latest version shall be used.

**C-3.1.3.9.1 Differential Pressure:** Three (3) quality pressure differential gauges in the range specified as follows and graduated in one (1) PSI increments shall be installed so that pressure losses across the filter elements (0-25 PSI), the monitors (0-25 PSI), and the entire filter/monitor system (0-30 PSI) can be recorded separately. Each gauge shall be calibrated and set to read at least zero under normal pumping conditions when new filter/monitor elements are installed. The gauge(s) shall be mounted and labeled so as to be readily identifiable and easily monitored by the refueler operator.

**C-3.1.3.10 Relaxation Chamber:** Each refueler dispensing jet fuel shall be configured with a relaxation chamber, a baffled metal tank within the piping system downstream of the filter/monitor sized to the rated pumping capacity of the refueler. The chamber shall retain fuel within the chamber/tank for 30 seconds after its passage through the filter/monitor system and assure the complete turnover of product. A low point drain valve, accessible to the unit operator without crawling under any part of the truck/trailer, and an air elimination valve/line that vents to the main tank via a one-way check valve shall be installed. The chamber shall be designed, constructed, tested, marked, and stamped in accordance with the American Society of Mechanical Engineers (ASME) code, ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

**C-3.1.3.11 Meter:** Refuelers shall be equipped with positive displacement, temperature-compensating meters. Meters shall have an accuracy of that stated in the National Institute of Standards and Technology (NIST) Handbook 44. Meters shall be capable of being adjusted while under pressure without leakage or loss of product. Adjustment sensitivity shall be sufficiently fine to permit calibration changes in conformance to the accuracy requirements set forth above. The Contractor shall calibrate or have calibrated by a certified agent each meter semi-annually, after maintenance/servicing, when suspected of being out of tolerance, or when the meter has been damaged. Wire/lead seals shall be affixed to and secure all calibration adjustment devices. The Contractor shall mark each meter to indicate the date of calibration, and shall establish a system of records to validate calibration date markings.

**C-3.1.3.12 Emergency Dry Breakaway Coupler(s):** An emergency dry breakaway coupler (a piping to hose coupler that will break dry and allow the servicing unit unencumbered egress) should be installed on each underwing fuel servicing hose at the point where the hose attaches to refueling piping or hose reel.

**C-3.1.3.13 Hoses:** All fuel servicing hoses shall be [American Petroleum Institute \(API\) 1529, Grade 2, Type C](#) hoses marked accordingly. Unless otherwise specified, refuelers shall be configured with two hoses, a one and one-half inch by fifty-foot (1½" X 50') overwing hose, and a two-inch by fifty-foot (2" X 50') underwing hose. Where hose lengths in excess of 50 feet are required, a threaded hose connector or dry break coupler may be used providing the connector/coupler will not come in contact with any portion of the aircraft during servicing operations. Hoses shall be free of internal/external electrical bond wires. One and one-half inch (1½") hose, that is generally used as a defuel hose, shall be of the hard helix or non-collapsible type. Where two hose assemblies are attached to a common outlet or source of product, a separate control valve shall be provided for and control each hose. Filter and relaxation chamber vent hoses or tubing shall be compatible with the product being handled.

**Note**

**The 1½" OW hose may be configured with 1½" and 2" dry break couplers and coupled to the refueler by the 1½" coupler and subsequently used as the defuel hose.**

**C-3.1.3.14 Hose Storage:** Hose storage in the form of troughs, platforms, or hose reels shall be provided for all hoses. Hoses shall not be hung from the tank or frame. The hose storage arrangement shall be such that no sharp bends or kinks occur while hoses are stored. Hoses shall remain stowed when the vehicle is traveling over rough roads.

**C-3.1.3.15 Hose-End Pressure Regulator (HEPR):** Refuelers shall be configured with a 55-PSI (maximum) HEPR attached to or as an integrated part of each underwing-servicing nozzle.

**C-3.1.3.16 Nozzle(s):** Aircraft fuel servicing nozzles shall conform to the specifications listed herein. Depending on the type aircraft requiring service, three types of nozzles, the underwing or D-1 single point nozzle, the overwing or gravity nozzle, and/or the closed circuit refueling (CCR) nozzle shall be used. Unless stated otherwise, refuelers shall normally be configured with an underwing and overwing type nozzle.

**C-3.1.3.16.1 Underwing Nozzle:** Nozzle, Pressure Fuel Servicing, Locking, Type D-1 (45° elbow inlet body), the underwing or single point type nozzle, as specified by the most current edition of Military Specification MIL-N-5877 and produced by companies listed in the most recent Quality Products List QPL-5877-XX are approved for use under this contract. Each nozzle shall be connected to the issue hose by a dry break quick disconnect coupler, and shall be equipped with a screen of 60 mesh or finer which is readily accessible without the use of tools. Each nozzle shall have a dust cover.

**Note**

**Additional Type D-2 (straight inlet body) nozzles may be required if significant under wing refueling of commercial wide-body aircraft is required.**

**C-3.1.3.16.2 Overwing Nozzle:** An overwing nozzle of the non-automated, non-locking type commonly used to dispense aviation fuel to aircraft shall be provided. Each nozzle shall be attached to the issue hose by a dry break, quick disconnect coupler ([example](#)) to provide for quick nozzle change and recirculation of product within the hose as outlined in [Section C-3.1.3.6.2, Recirculation](#). The nozzle shall be equipped with a 60-mesh or finer screen installed in the non-flexible nozzle tube/spout. Attachments shall include a dust cap that is held in place by wire and spring system, and a permanently attached flexible bonding wire with a ground clip conforming to MIL-C-83413/7B attached near the end, and terminating with a ground plug conforming to MIL-C-83413/4

**C-3.1.3.16.3 Closed-Circuit Refueling (CCR) Nozzle:** Not required under this contract.

**C-3.1.3.17 Swivels and Hose Couplings:** All swivels and couplings used within the fuel system shall be the greaseless type; however, a light, hand application of grease, non-soluble in petroleum, to bearing races and bearing surfaces, is acceptable. Old, lubricated swivels on which the lubrication channel has been plugged shall not be used. Except as noted throughout this specification, couplings/connections shall be of the permanent, threaded type.

**C-3.1.3.18 Deadman Controls:** Refuelers shall be equipped with a hand held deadman control with a connecting hose/cable installed in such a manner that it can be stored on a reel or removed and stowed when not in use. The deadman control hose/cable, located/mounted at the unit control panel, shall be of sufficient length that the operator can reach and monitor all controls, except the remote emergency shut-offs, without letting go of the deadman handle. In the underwing (single point) mode, release of the deadman control handle shall completely stop the flow of fuel within a 5 percent overshoot range (in time or gallons) of the rated capacity of the refueler, i.e., 300 GPM is equal to 15 gallons or 3 seconds. In the overwing and CCR mode, the overwing or CCR nozzle shall be considered the deadman control.

**C-3.1.3.19 Static Bonding Cables:** A static bonding cable shall be installed on a rewind reel with cable guide. The overall length of the static bonding cable shall be 50 feet or the length of the longest hose being used whichever is greater. The cable shall be of stranded steel (galvanized or stainless) wire rope 3/32-inch in diameter coated with a petroleum-resistant plastic containing light sensitive dye. The cable shall terminate with a heavy-duty clip conforming to MIL-C-83413/7B and plug, MIL-C-83413/4. Refuelers designated to “hot refuel” shall be equipped with two cable/reel assemblies.

**C-3.1.3.20 Electrical Wiring and Lights:** See [Section C-3.1.2.4, Electrical Wiring and Lights](#).

**C-3.1.3.21 Fire Extinguishers:** Each refueler shall be equipped with at least two fire extinguishers, one on the left (drivers) side readily accessible to the operator at the refueler control panel, the other on the right rear of the unit. Each extinguisher shall have an ANSI rating of not less than 20-B. Halogen extinguishers shall not be used.

**C-3.1.3.22 Fenders and Mudguards:** Fenders/ mudguards shall be installed over the wheels of the trailer to fully protect the cargo tank, hoses, and other equipment. Nonfunctional skirting and flashing are prohibited.

**C-3.1.3.23 Tires:** See [Section C-3.1.2.7, Tires](#).

**C-3.1.3.24 Painting and Marking:** See [Section C-3.1.2.9, Painting and Marking](#), regarding the painting and markings of cargo tanks.

**C-3.1.3.24.1 Alignment of Stencils:** Reflective stencils as outlined in [NAVFAC P-300, Management of Transportation Equipment](#), shall be applied and positioned in a precise manner. Cargo tank side stencils shall read left to right and be proportionally placed along the horizontal centerline of the cargo tank beginning 12 inches from the front bulkhead/tank weld and ending 12 inches from the rear bulkhead/tank weld. Two line stencils, i.e., NO SMOKING over WITHIN 50 FEET, shall be centered vertically on the horizontal tank centerline. Rear tank stencils reading from top to bottom shall be centered on the vertical tank centerline.

**C-3.1.3.24.2 DOT Placards:** DOT placards shall be placed on each side of the tank centered on and one inch below the **FLAMMABLE** stencils. A placard shall also be centered (considering lighting placement) on the right half of the rear bumper. A placard holder or a rigid plate shall be used for the bumper mounted placard versus wrapping the placard over/under or around the bumper.

## **C-3.1.4 Defueler**

**C-3.1.4.1 General:** The Contractor shall provide defuel truck(s) (single compartment tank trucks configured to defuel, take on aviation fuel products generally returnable to stock) shall meet the following specifications. Design and construction of new defuel trucks shall be such that the cargo tank meets DOT 406 specifications; however, cargo tanks built to MC 306 specifications are acceptable. Components shall be applied in accordance with [NFPA 407, Standards for Aircraft Fuel Servicing](#), specifications. Should a conflict between specifications arise, the more stringent requirement shall apply. Except as modified by the following, [Section C-3.1.3, Refuelers](#), applies. Components not specifically addressed do not apply.

**C-3.1.4.2 Cargo Tank:** See [Section C-3.1.3.2, Cargo Tank](#), and sub-sections thereto. Baffle openings (top vent/bottom flow) may be sized to 100 GPM. The cargo tank shall have a **minimum capacity of 5,000 gallons** plus the appropriate expansion space.

**C-3.1.4.3 Tank Venting:** See [Section C-3.1.3.3, Tank Venting](#) for refuelers; however, venting capacity may be reduced to 100 GPM, the tank fill rate.

**C-3.1.4.4 Overfill Protection:** See [Section C-3.1.3.4, Overfill Protection](#).

**C-3.1.4.5 Low Point Drain(s):** See [Section C-3.1.3.5, Low Point Drain](#).

**C-3.1.4.6 Piping:** See [Section C-3.1.3.6, Piping](#), and sub-sections thereto; however, flow rates may be reduced to 100 GPM.

**C-3.1.4.6.1 Bottom Loading Connection(s):** In order to facilitate flushing of the cargo tank, defuel trucks shall be equipped/configured for bottom loading at a minimum of 100 GPM via a two and one-half inch (2 1/2") single point pressure fuel-servicing adapter.

**C-3.1.4.7 Defueling:** Defuel truck(s) shall be capable of metered defueling at 0 to 50 GPM. Product shall re-enter the tank via the piping system, versus the tank top manhole. The defuel connection shall consist of a one and one-half inch (1½") quick disconnect adapter (male fitting) and dust cap, a line strainer assembly, and a control valve that isolates the strainer and defuel connection. The strainer screen shall be readily removable for cleaning and inspection without interference with or removal of other components.

**Note**

**System specifications and flow rates for units designated stand alone "defuelers" are minimums applicable to the defuel process. Any filter systems, flow controls, or other components as may be provided shall meet the equipment standards set forth within this PWS.**

**C-3.1.4.8 Pumping System(s):** The pumping system shall consist of a pump, piping, connectors, valves, and other hardware identified herein. Pump controls shall provide a flow/defuel rate, 0 to 50 GPM. All controls, valve(s) and hose connection(s) shall be accessible/operable from ground level.

**C-3.1.4.8.1 Flow Control:** A pump pressure/vacuum gauge and an adjustable locking throttle control shall be centrally mounted outside the truck cab so they can be read/operated from the equipment operator position. The pressure/vacuum gauge shall be marked to indicate maximum servicing/operating ranges. For nighttime operations, all controls shall be illuminated by a panel/frame mounted lighting system. Wiring shall conform to [Section C-3.1.2.4, Electrical Wiring and Lights](#).

**C-3.1.4.8.2 Performance:** Unless otherwise stated, defuel trucks shall be capable of defueling at a rate of 0 to 50 GPM through a one and one half (1½") by fifty foot (50') fuel servicing hose. Systems thus configured shall be capable of sustaining the defuel rates noted above until the cargo tank is filled to the overfill alarm.

**C-3.1.4.8.3 Emergency Controls:** See [Section C-3.1.3.8.3, Emergency Controls](#).

**C-3.1.4.9 Meter(s):** See Section [C-3.1.3.11, Meter](#); however, non-compensated, positive displacement meter(s) with a gallon register shall be installed.

**C-3.1.4.10 Hose(s):** Fifty-foot by one and one half inch (50' X 1½") commercial non-collapsible fuel hoses compatible with the specific grade of fuel to be handled shall be provided.

**C-3.1.4.10.1 Hose End Fittings:** Hose end fittings, i.e., nozzles, tubes, drum thieves, cut hard/soft hose, and any other apparatus as may be required to connect to and defuel the aircraft and equipment assigned shall be provided by the Contractor.

**C-3.1.4.11 Hose Storage:** See [Section 3.1.3.14, Hose Storage](#).

**C-3.1.4.12 Nozzle(s):** Nozzle, Pressure Fuel Servicing, Locking, Type D-1, an under-wing or single point nozzles, as specified by the most current edition of Military Specification MIL-N-5877 and produced by companies listed in the most recent Quality Products List QPL-5877-XX are approved for use under this contract

**C-3.1.4.13 Swivels and Hose Couplings:** See [Section C-3.1.3.17](#).

**C-3.1.4.14 Electrical Wiring and Lights:** See [Section C-3.1.2.4](#).

**C-3.1.4.15 Fire Extinguishers:** See [Section C-3.1.3.21](#).

**C-3.1.4.16 Fenders and Mudguards:** See [Section C-3.1.3.22](#).

**C-3.1.4.17 Painting and Marking:** See [Section C-3.1.3.24](#) and sub-sections thereto; however, smaller 4 inch on 6 inch versus 6 inch on 8 inch stencils may be used to mark smaller defuel truck tanks.

## **C-3.1.5 Ground Fuel Delivery Trucks**

**C-3.1.5.1 General:** The Contractor shall provide ground fuel delivery trucks (single or multiple compartment tank trucks capable of issuing and defueling ground fuels). Design and construction of new ground fuel trucks shall be such that the cargo tank meets DOT 406 specifications; however, cargo tanks built to MC 306 specifications are acceptable. Components shall be applied in accordance with [NFPA 385, Standard for Tank Vehicles for Flammable and Combustible Liquids](#), specifications. Should a conflict between specifications arise, the more stringent requirement shall apply. Except as modified by the following, [Section C-3.1.3, Refuelers](#), in its entirety applies. Components not specifically addressed do not apply.

**C-3.1.5.2 Cargo Tank(s) :** See [Section C-3.1.3.2](#) and sub-sections thereto. Baffle openings (top vent/bottom flow) may be sized to 100 GPM. The cargo tank(s) may be dual product having a **minimum capacity of 1,000 (MRR) and 1,000 gallons (LS2)** plus the appropriate expansion space, or single product tank trucks of equal or greater capacity. See [NFPA 385, Standard for Tank Vehicles for Flammable and Combustible Liquids](#) regarding dual product tank separation. Unless specified otherwise, all cargo tanks shall normally be filled to capacity.

**C-3.1.5.3 Tank Venting:** See [Section C-3.1.3.3, Tank Venting](#); however, the venting capacity for this small unit may be reduced to 100 GPM.

**C-3.1.5.4 Overfill Protection:** See [Section C-3.1.3.4, Overfill Protection](#).

**C-3.1.5.5 Low Point Drain(s):** See [Section C-3.1.3.5, Low Point Drain](#).

**C-3.1.5.6 Piping:** See [Section C-3.1.3.6, Piping](#). For ground fuel trucks, system piping may be configured so that product is drawn from (issue) and returned to (fill or defuel) a common point/valve.

**C-3.1.5.6.1 Bottom Loading Connection(s):** Ground fuel delivery trucks shall be equipped/configured for bottom loading at a minimum of 100 GPM. The type bottom-loading adapter will be determined by the grade or class of products to be loaded. Jet fuels used in lieu of diesel fuel shall be loaded through a two and one-half inch (2 1/2") single point pressure fuel-servicing adapter. Diesel fuel and gasoline shall be loaded through a [dry-break disconnect adapter](#) assembly (OPW CIVACON KAMVALOK® for example); two inch (2") for diesel fuel and one and one-half inch (1 1/2") for gasoline. Dust caps shall be provided for all systems.

### **Note**

**In those states applicable, vapor recovery systems shall be installed on units/systems designated to handle automotive gasoline (all grades).**

### **Note**

**NFPA 385-90, Section 6-2.12, and all reference to "top-loading" of ground fuel trucks shall be disregarded. Only bottom loading of fuel trucks is authorized.**

**C-3.1.5.7 Defueling:** Ground fuel delivery trucks shall be capable of defueling the product(s) dispensed at a minimum of 25 GPM. Product shall re-enter the tank via the piping system versus the tank top manhole. The defuel connection shall be a one and one-half inch (1 1/2") quick disconnect adapter and dust cover and a control valve mounted at or near the defuel connection for jet fuel or a dry disconnect adapter assemblies as noted in Section C-3.1.3.2.6 for diesel fuel and gasoline. A line strainer, the screen of which shall be readily removable for cleaning and inspection without interference with or removal of other components, shall be mounted at the control valve/dry disconnect adapter.

**C-3.1.5.8 Pumping System(s):** The pumping system shall consist of a pump, piping, connectors, valves, and other hardware identified herein. Pump bypass/controls shall provide a flow rate, 0 to 25 GPM via a non-automatic overwing or service station type nozzle. All controls, valve(s) and hose connection(s) shall be accessible/operable from ground level.

- C-3.1.5.8.1 Flow Control:** Clutch/PTO controls and an adjustable throttle control device shall be centrally mounted outside the truck cab so they can be operated from the outside operator position.
- C-3.1.5.8.2 Performance:** Unless otherwise stated, ground fuel trucks shall be capable of dispensing product at 0 to 25 GPM through a fifty-foot (50') by (state size in inches) hose and overwing or service station type nozzle. Pumping systems, thus configured shall be capable of sustained flow at the rates noted until the cargo tank is empty.
- C-3.1.5.8.3 Emergency Controls:** See [Section C-3.1.3.8.3](#); however, the "left front" device may be excluded.
- C-3.1.5.9 Metering/Measurement Devices:** The following metering/measurement devices or systems shall be installed on the ground fuel truck.
- C-3.1.5.9.1 Meter(s):** See Section [C-3.1.3.11](#); however, non-compensated, positive displacement meter(s) with gallon and one-tenth gallon registers shall be installed for each product dispensed.
- C-3.1.5.9.2 Automated Data Collection:** Not required under this contract.
- C-3.1.5.10 Hose(s):** Fifty-foot (50') by (state size in inches) commercial fuel hoses compatible with the specific grades of fuel to be handled shall be provided.
- C-3.1.5.10.1 Hose End Fittings:** Hose end fittings, i.e., nozzles, tubes, drum thieves, cut hard/soft hose, and any other apparatus as may be required to connect to and defuel the equipment and facilities assigned shall be provided by the Contractor.
- C-3.1.5.11 Hose Storage:** See [Section C-3.1.3.14](#).
- C-3.1.5.12 Nozzle(s):** Commercial overwing or service station type fuel nozzles sized to the hose installed and compatible with the specific fuel to be dispensed shall be provided.
- C-3.1.5.13 Swivels and Hose Couplings:** See [Section C-3.1.3.17](#).
- C-3.1.5.14 Electrical Wiring and Lights:** See [Section C-3.1.1.4](#).
- C-3.1.5.15 Fire Extinguishers:** See [Section C-3.1.3.21](#).
- C-3.1.5.16 Fenders and Mudguards:** See [Section C-3.1.3.22](#).
- C-3.1.5.17 Painting and Marking:** See [Section C-3.1.3.24](#) and sub-sections thereto; however, smaller stencils, 4 inch on 6 inch versus 6 inch on 8 inch stencils, may be used to mark smaller ground fuel trucks.
- C-3.1.6 Used Oil (Fuel) Truck**
- C-3.1.6.1 General:** Used oil (fuel) trucks are not required under this contract.
- C-3.1.7 Recyclable Jet Fuel Truck**
- C-3.1.7.1 General:** Not applicable under this contract.
- C-3.1.8 Vacuum Truck**
- C-3.1.8.1 Specifications:** Not applicable under this contract.

### C-3.1.9 Utility Vehicles

**C-3.1.9.1 General:** Utility vehicle(s), pickup or van type equipment and personnel vehicles, as may be provided and used by Contractor management, maintenance, or other personnel within the Contractor organization. Utility vehicles may be painted commercial colors but shall be marked in accordance with [Section C-3.1.2.9.2, Company Logo](#), and shall be reflective of the pride and professionalism of the Contractor.

**C-3.1.9.2 Spill Kit:** Each utility vehicle as may be furnished shall be equipped with a 10-gallon spill clean up/remediation kit that is protected from the environment but readily available to the vehicle operator.

### C-3.1.10 Prefabricated Building(s)

**C-3.1.10.1 Contractor Responsibilities:** Prefabricated building(s) are not required under this contract.

## C-3.2 Records, Inspections and Disposition of Property

**C-3.2.1 General:** The Contractor shall maintain records; submit to inspections, and dispose of property as outlined in the following sections.

**C-3.2.1.1 Current and Historical Records:** The Contractor shall keep maintenance records on all fuel servicing equipment provided. Such records shall contain a complete description, of the truck, tractor, and cargo tank provided, and a copy of cargo tank certification and any applicable inspection documents as may be required by federal, state, and local vehicle code. A complete maintenance history relevant to the Contractor's possession of the vehicle shall also be provided. All records shall be available to the Government for the duration of the contract.

**C-3.2.1.2 Equipment Inspection:** As outlined in [Section E, Inspection and Acceptance, Clause E29](#), four (4) work days prior to the contract start date or a date mutually agreed upon by all parties, the Contractor shall have all equipment, supplies, materials, and documents specified herein available on-site for inspection by the Government. The expense of making such property available for inspection shall be borne by the Contractor. A vehicle identification worksheet, Appendix J, shall be completed for each vehicle presented for inspection. Copies of the worksheets and all required attachments shall be provided to the contracting activity and the post-award inspection team leader on the first day of the equipment inspection.

**C-3.2.1.3 Function and Testing:** An incumbent shall be capable of emptying; gas freeing, and disassembling selected equipment/components on request. Unless directed otherwise, a first time Contractor shall have all fuel delivery vehicles gas-freed for the initial inspection and shall be capable of disassembling such equipment or components thereof as requested. All equipment presented for inspection shall be capable of performing the functions specified, i.e., flow rate, deadman control, emergency stop, and overfill protection in the defuel mode for example. All systems shall be capable of being fully tested during the equipment inspection.

**C-3.2.1.4 Unacceptable Property:** Property deemed unacceptable by the Government shall be repaired, modified as required to meet specifications, or replaced at the Contractor's expense prior to commencement of the contract or on a date mutually agreed to and documented by the COR, NOLSC Petroleum and DESC within the post award inspection report. Failure by the Contractor to make remedy by the established dates shall result in a formal cure notice. Failure to meet dates established by the cure notice shall constitute grounds for termination/default.

### C-3.2.4 Disposition of Property

**C-3.2.4.1 General:** Contractor furnished property identified herein shall be used solely in the performance of this contract and the work defined in [Section C-2.0, Specific Tasks](#). Vehicles and property ordered removed prior to the completion of the contract, removed because it is not capable of performing its designated function, or has become of safety/fire hazards, shall be removed from the work site and replaced if applicable at the Contractor's expense. Whatever the case, the lack of serviceable vehicles shall not excuse the Contractor from performing the tasks defined in [Section C-2.0, Specific Tasks](#).

**C-3.2.4.2 Property Storage:** The Contractor shall not store equipment in excess of the contract requirements on Government property. Equipment deemed to be unacceptable, excess to contract requirements, or that property in place at termination of the contract, shall be removed from Government property within 30 days. Thereafter, the Contractor shall be charged the prevailing commercial storage rate for each piece of equipment kept on Government property.

### **C-3.3 Other Contractor Provided Equipment and Supplies**

**C-3.3.1 General:** The Contractor shall provide the following equipment, supplies, materials, and services. In doing so, the Contractor shall adhere to all Federal, state, and local laws, rules, code, and regulations applicable to the products and services and the purchase, transport, use, storage, and disposition of hazardous materials that may be required to fulfill the conditions of this contract.

**C-3.3.1.1 Radios:** The Contractor shall provide intrinsically safe, dual channel (Fuel Dispatch Center/Control Tower), fixed or hands held radios, in sufficient numbers to fully control, simultaneously if necessary, all Contractor fuel and cryogenic operations. A base station, antenna, charging units, if applicable, and all other necessary and required equipment to establish and maintain communication throughout the Contractor's area of responsibility shall be provided. The Contractor shall secure a Fuel Dispatch frequency and gain access to the tower/other frequencies as may be required by Memorandum of Agreement (MOA) with the local/base communications organization, prior to the contract start date.

**C-3.3.1.1.1 Radios for Government Use:** The Contractor will not be required to provide radios to the Government.

**C-3.3.1.2 Telephone Services:** The Contractor shall provide all commercial telephone services (voice, facsimile, or data,) and equipment required and necessary to conduct commercial or company business. See [Appendix, B, Government Furnished Equipment, Supplies, and Services](#), regarding Government-furnished telephones services.

**C-3.3.1.3 First-Aid Supplies and Equipment:** The Contractor shall provide first aid kits as outline by *ANSI Standard Z308.1-1998, Minimum Requirements for Industrial Unit-Type First Aid Kits*, for each manned and geographically separated work center, i.e., refueling, storage, direct fuel servicing, etc.

**C-3.3.1.4 Administrative Supplies and Equipment:** With the exception of Government furnished forms and equipment specified in [Appendix, B, Government Furnished Equipment, Supplies, and Services](#), the Contractor shall provide all administrative supplies (pen/pencil/paper products) and equipment (computer/fax/copy machines) necessary and required to undertake the administrative and records keeping functions relevant to the contract. The Contractor shall not be given access to or use Government office equipment, i.e., computers and copy machines, not specifically provided for under the terms of this contract. See [Appendix, B, Government Furnished Equipment, Supplies, and Services](#), regarding Government-furnished equipment that may be provided; however, note the provisions of [Section C-2.17.2, Disposition of Government Property](#).

**C-3.3.1.5 Janitorial/Housekeeping Supplies, Equipment, and Services:** At those locations for which the Contractor is tasked to perform janitorial services, the Contractor shall provide all janitorial and housekeeping equipment and supplies, to include small trash/waste baskets, self-closing waste containers, and basic personal cleanliness items and restroom supplies, necessary and required to maintain the cleanliness and sanitation of buildings and facilities as may be occupied and used by contract personnel and Government staff. Janitorial services may be sub-contracted.

**C-3.3.1.6 Tools:** Whether company or individually provided, the Contractor shall ensure that all hand/power tools, test/measurement/calibration devices, and powered/non-powered equipment required and necessary to inspect, test, calibrate, maintain, and repair Contractor furnished vehicles and components thereof are available as needed. Tools required to maintain Government facilities and equipment to the extent required and outlined herein shall also be made available as needed.

**C-3.3.1.7 Spares for Contractor Furnished Equipment:** The Contractor shall provide all spares, replacement parts, components, and repair services required and necessary to maintain and repair all Contractor furnished vehicles, structures, equipment, tools, and other items as may be provided by the Contractor. In concert with that objective, the following spares commonly installed on Contractor furnished fuel-servicing equipment shall be stocked (kept physically on hand) for the duration of the contract. The required stocks shall be on hand and validated during the equipment inspection outlined in [Section C-3.3.1.2, Equipment Inspections](#), and inspected as deemed necessary by the COR over the course of the contract.

- ✓ At least one (1) complete set of each type of filter separator, monitor, and coalescer elements used
- ✓ At least one (1) underwing hose assembly, a 2" X 60' hose for example
- ✓ At least one (1) overwing hose assembly, a 1½" X 60' hose for example
- ✓ At least one (2) quick disconnect coupler
- ✓ At least one (2) hose end pressure regulator (maximum 55 PSI)
- ✓ At least one (2) underwing nozzle

**C-3.3.1.8 Spares for Government Furnished Equipment/Facilities:** The Contractor shall, for the duration of the contract, purchase and provide spares, replacement parts, and small system components that are readily removable and replaceable using common hand tools. Such items may include, but are not necessarily limited to:

- ✓ Suction and discharge hoses of all lengths, up to and including those 4 inches in outside diameter, as well as the couplers, swedge fittings, bands, clips, brackets, and sealants necessary to mount and secure them
- ✓ Quick disconnect and dry break couplers of all type
- ✓ Hose end pressure regulators (direct refueling systems)
- ✓ Emergency dry breakaway couplers (direct refueling systems)
- ✓ Nozzles and nozzle strainers of all type as well as attached ground wires, clips, and plugs and dust caps
- ✓ System strainers (the screen portion/component) of all type
- ✓ Gauges, pressure, vacuum, and differential, of all type (excluding cryogenic gauges)
- ✓ Small manual valves, less than 1.5", of all type
- ✓ All small screw on and canister type filters as may used on services station pumps
- ✓ Other small, commonly used parts and materials such as but not limited to U bolts, clamps and fasteners of all type, pipe-end couplers and adaptors, dust caps and plugs, gaskets and gasket material, O rings, sample connectors, and flow indicators less than 1.5"
- ✓ Replacement supplies for spill containment and clean up kits
- ✓ Filter, monitor, and coalescer elements commonly installed within the systems applicable to the contracted activity

#### **Note**

**Replacement filters and monitors for fixed facilities, i.e. fillstands, receiving stations, direct refueling system, and other fixed filter points are funded by DESC.**

**C-3.3.1.8.1 Specification/Standards:** All parts, items, and materials furnished shall meet or exceed DOD specification/standards or commercial item standards.

**C-3.3.1.8.2 In-place Assets:** Items listed in [Appendix, A, Government Furnished Facilities](#), and [Appendix, B, Government Furnished Equipment, Supplies, and Services](#), represent assets available to the Contractor at the start of the contract. During the system inspection outlined in [Section C-1.5, Contract Turnover](#), the condition of all facilities, equipment, and components thereof shall be assessed and documented to determine the level of facility/system readiness and the responsibility on the part of the Contractor for the initial replacement/repair of the specified items. Thereafter, the Contractor shall be responsible for the repair or replacement at the levels identified and listed herein, for the duration of the contract.

**C-3.3.1.9 Consumables, Maintenance:** Items listed in [Appendix, A, Government Furnished Facilities](#), and [Appendix, B, Government Furnished Equipment, Supplies, and Services](#), represent assets available to the Contractor at the start of the contract. During the system inspection outlined in [Section C-1.5, Contract Turnover](#), the condition of all facilities, equipment, and components thereof shall be assessed and documented to determine the level of facility/system readiness and the responsibility on the part of the Contractor for the initial replacement/repair of the specified items. Thereafter, the Contractor shall be responsible for the repair or replacement at the levels identified and listed herein, for the duration of the contract.

Note

**With regard to materials, chemicals, and compounds that may be provided and used by the Contractor, the appropriate Materiel Safety Data Sheet (MSDS) shall be provided by the Contractor and readily available to those that may be required to use or may be exposed to all such materials.**

**C-3.3.1.10 Consumables, Laboratory:** Except for the laboratory equipment listed in [Appendix B, Government Furnished Equipment, Supplies, and Services](#), the Contractor shall provide all consumable laboratory supplies. Items such as test filters (a 15 day supply), water detector standards (one (1) spare) and pads (a 15 day supply), Mason (wide-mouth) jars, sample bottles, solvents and dispensers, common glassware, hydrometers, laboratory cleaning compounds, and other commonly used supplies required and necessary to operate, maintain, and administer a fuel laboratory shall be furnished by the Contractor. Government provided consumables on hand at contract turnover, [Section C-1.5](#), may be used by the Contractor. Thereafter, the Contract shall be responsible as outlined.

**C-3.3.1.11 Grounds Maintenance Equipment and Supplies:** The Contractor shall furnish all powered and non-powered equipment, i.e., movers, brush-hogs, edgers, and trimmers, and supplies such as rakes, shovels, wheel-boroughs, disposal bags, and other materials required and necessary to maintain all grounds, fence lines, pipeline right-aways, and clear zones identified herein.

## **C-3.4 Uniforms and Protective Equipment**

**C-3.4.1 General:** Contract personnel shall wear the appropriate uniforms safety equipment required for self-protection.

**C-3.4.1.1 Uniforms:** All contract personnel, including site managers, shall wear a distinctive company uniform in performance of their duties. Pursuant to US Department of Labor wage determinations, the Contractor shall provide seasonal uniforms consisting of a shirt and pants or coveralls, a matching seasonal jacket/coat, and a matching baseball type cap (not to be worn on the flightline). Except for distinctive management dress shirts, all contract personnel shall be provided and wear the same type, style, or design uniform. All shirts, coveralls, jackets, coats, and caps shall be emblazoned with a readily identifiable company name or logo. All shirts, coveralls, jackets, and coats shall also have the employee's nametag affixed. Laundry services or compensation for such services shall also be provided as stipulated by the applicable wage agreement/determination. Uniforms material blends equivalent to the Navy work dungarees (65/35 polyester/cotton) or the Marine Corps fatigue uniform (50/50 polyester/cotton), are acceptable. Static producing synthetic materials such as 100 percent nylon, polyester, Dacron, rayon, banlon, and silks, shall not be provided as a uniform or worn as an under or outer garment.

### **Note**

**Regardless of the uniform style chosen, cryogenic supervisors/operators as well as the vehicle mechanic may wear protective coverall type uniforms emblazoned as outlined above.**

**C-3.4.1.2 Safety Equipment:** Contract personnel shall wear Personal Protective Equipment (PPE), cranial helmets, safety shoes, and gloves for example, applicable to the task/duty being performed and as mandated by US Navy, facility, and unit instructions and regulations.

**C-3.4.1.2.1 Contractor Furnished Equipment:** The Contractor shall provide its employees with safety equipment such as sound suppression devices and safety goggles. If applicable, other equipment such as fire retardant overalls, safety harnesses and ropes, test equipment for the monitoring of oxygen deficient or explosive atmospheres in confined spaces, and breathing apparatus, shall also be furnished by the Contractor.

**C-3.4.1.2.2 Government Furnished Equipment:** Special safety equipment used in the performance of direct refueling operations, i.e., cranial protective helmets and signal wands, will, to the extent required to equip contract pit operator, aircraft servicer, fire watch, and plane captain crews, be provided by the Government.

**C-3.4.1.2.3 Personal Clothing/Equipment:** The Contractor shall ensure that employees adhere to all foot, hand, and eye protection programs and that each employee provides and uses personal clothing and safety equipment such as safety shoes, prescription safety glasses, and gloves.

## C-4.0 LOGISTICS SUPPORT, COST REIMBURSABLE

### C-4.1 Cost Reimbursement

**C-4.1.1 General.** As outlined above, the Contractor shall provide all services, equipment, supplies, and materials not specified as Government provided elsewhere within this contract or as directed by the COR. However, the Government reserves the right to accomplish any and all maintenance beyond that of preventive and operator maintenance using government assets, labor, or other contracts. Furthermore, the Government reserves the right to purchase any equipment items, supplies, or materials described herein when the Contracting Officer determines it is in the best interest of the Government. That right includes that of tasking the fuel management Contractor. Given a task, the Contractor will be reimbursed as follows:

#### C-4.1.2 Reimbursement for Allowable, Allocable, and Reasonable Cost

**C-4.1.2.1 Goods and Services:** Reimbursement under [Section C-4.2, Services, Requiring a Task Order](#), shall be for the prime Contractor's allowable, allocable, and reasonable direct cost of any subcontracts for furnishing such equipment, supplies, and services as specified.

**C-4.1.2.2 Labor:** Reimbursement under [Section C-4.3, Augmentation](#), shall be for allowable, allocable, and reasonable directed labor costs plus fringe benefits and payroll taxes of the prime Contractor's regular employees. Allowable, allocable, and reasonable cost will be reimbursed pursuant to applicable FAR clauses.

**C-4.1.2.3 Non-Reimbursable Costs:** The Contractor shall not be reimbursed under either section for the cost of labor associated with the use of its employees during normal work hours in the performance of any task listed herein. Nor will the Contractor be reimbursed for equipment costs using Government or Contractor-furnished equipment in the performance of any task listed herein.

**C-4.1.3 Allocation of Costs:** The Contractor shall ensure that the costs for preventive and operator maintenance are included in the appropriate CLIN on a firm-fixed price basis. The Contractor shall ensure that any associated indirect/overhead cost, if any, related to the performance of tasks under [Sections C-4.2, Services Requiring a Task Order](#) and [C-4.3, Augmentation](#) (except as otherwise specified hereinafter) are also included in the appropriate CLIN on a firm fixed price basis. Those associated costs shall include, but may not necessarily be limited to, the costs of office supplies, salary for a purchasing agent considered necessary by the Contractor, and other indirect/overhead costs considered a part of operating the fuel system. Any reference to reimbursement for indirect/overhead costs is not applicable to the reimbursement of costs of the prime Contractor under this contract. In addition, [Sections C-4.2, Services Requiring a Task Order](#) and [C-4.3, Augmentation](#) shall be non-fee bearing. Therefore, references to reimbursement for fixed fee are not applicable to the reimbursement of costs of the prime Contractor under this contract. The Contractor shall provide the following.

### C-4.2 Services Requiring a Task Order

#### C-4.2.1 Contractor Purchasing System

**C-4.2.1.1 General:** The Contractor shall establish and maintain a purchasing system acceptable to the Government and shall comply with the following minimum requirements.

**C-4.2.1.1.1 Standard Operating Procedure:** The Contractor shall prepare a Standard Operating Procedure (SOP) regarding the Contractor's purchasing policies and procedures. The SOP shall include, but will not necessarily be limited to, policy and procedure regarding emergency purchases, subcontracting, termination of contracts, source selection, contract administration, and the maintenance of purchasing records and files. The Contractor shall submit a draft of the SOP to the DESC Contracting Officer, DESC-FPB, to arrive no later than 45 days prior to the contract start date. On review and acceptance, a copy shall be provided to the COR. Thereafter, the Contractor shall adhere to established procedures for the duration of the contract.

**C-4.2.1.1.2 Qualified Companies:** The Contractor shall purchase materials and services only from those companies qualified and normally engaged in the type of repair activities required or those that provide or manufacture the materials needed.

**C-4.2.1.1.3 Quotes:** Except for purchases of \$2,500 or less, a minimum of three quotes (verbal or written) shall be obtained. The award shall be to the lowest, responsible, responsive bidder. Regardless of dollar value or urgency, the Contractor shall withhold award until it has determined that the price is fair and reasonable. Documentation regarding this determination shall be included in the task order file.

**C-4.2.1.1.4 Price:** The Contractor shall procure supplies, materials, and services at the most advantageous prices with due regard for prompt delivery, credits, and other benefits as may be available. The Contractor shall take all actions necessary to obtain applicable tax exemptions, price reductions, discounts, and refunds. Reimbursement to the Contractor will be for net cost or price less discounts, rebates, allowances, credits, tax exemptions, reductions, refunds and other benefits, any or all of which shall be fully documented.

## **C-4.2.2 Maintenance and Repair by Task Order**

**C-4.2.2.1 Requirement to Perform:** The Contractor may be directed by the COR to provide for, or may report to the Government the need for, maintenance and repair services beyond the scope of preventive and operator maintenance outlined herein. On notification of a requirement to perform a specific maintenance task or reporting such a requirement to the Government and being directed to perform, the Contractor shall:

**C-4.2.2.1.1 Writing Description:** Provide a complete written description of the deficiency or the nature of the wear, breakage, or damage to the system needing repairs. This document should include a detailed description of the system requiring maintenance or repair, the specific components needing repair, replacement, or adjustment, and a preliminary list of parts and materials required.

**C-4.2.2.3 Determination:** Determine whether the work will be accomplished in house (by the Contractor) or be subcontracted.

**C-4.2.2.3.1 In House Work:** If the work is to be accomplished in house, provide a complete list of parts, components, materials, and equipment not provided under the contract, the source of supply, and an itemized cost breakdown to include labor, if applicable or allowed. Also, establish a performance period or get well date.

**C-4.2.2.3.2 Out Sourced Work:** If the work is to be accomplished by subcontract, provide the cost estimates as outline above. As with an in house estimate, all subcontractor estimates shall include a complete list of parts, components, materials, equipment, and labor, and an itemized cost breakdown thereof. Any subcontract shall also establish the performance period or get well date.

**C-4.2.2.4 Funding/Order to Perform:** The Government will determine the availability of and provide funding. Given the approval to proceed, the Government will provide a written task order. The Contractor shall take no action to perform maintenance or repairs outside the scope of the contract until such time a written task order has been provided by the COR.

## **C-4.3 Augmentation**

**C-4.3.1 General.** Augmentation is defined as compensation for any unscheduled work that falls outside the normal operating hours outlined in [Table 1, Hours of Operation](#), and for which service personnel must be retained beyond normal duty hours or called to duty to supplement the assigned workforce. Actions directed by the Government or taken by the Contractor that do not result in additional labor (added personnel) or extended hours of operation will not be considered augmentation hours. For example, increased sampling within established duty hours or the continued manning of bulk storage during normal duty hours to observe and assist a third party maintenance contractor is not be considered augmentation.

**C-4.3.2 Augmentation Authority:** The Commanding Officer, NAF El Centro, will specify the person(s), position, or office authorized to approve augmentation and the means by which the approval will be documented. Except as provided herein, all augmentation shall be approved prior to retaining employees or calling additional personnel to work. Copies of the augmentation approval form/log, the dispatch log validating the circumstances for augmentation, and the individual(s) time card that shows the hours worked, shall support all invoices for augmentation. Unless specifically tasked by the Government and approved by the appropriate authority, extended hours for personnel such as mechanics, accountants, and administrative personnel do not qualify as augmentation. Failure to relieve personnel at the end of a normal shift for which there are available oncoming personnel or because scheduled personnel fail to show shall not be considered augmentation time. Furthermore, the recall or retention of personnel with specialty licenses, i.e., a CDL holder, to undertake an infrequent but contracted function, shall not constitute augmentation.

**C-4.3.3 Conditions:** Augmentation will be granted only under the following conditions. Each paragraph is coded (A) to indicate automatic approval within the parameters defined or (P) to indicate pre-approval is required.

**C-4.3.3.1 No Oncoming Relief (A):** For any aircraft fuel servicing operation in progress, e.g., the nozzle is connected and fuel is flowing, at the end of normal operating hours for which there is no oncoming/relief shift. Subsequent servicing requests, any beyond that in progress, shall be approved as outlined in [Section C-4.3.2, Augmentation Authority](#).

**C-4.3.3.2 Continuous Receipt (P):** For continuous receipt operations, a continuous pipeline receipt for instance, that will extend beyond the operating hours defined in [Table 1, Hours of Operation](#), Bulk Fuel Storage.

**C-4.3.3.3 Mutual Agreement (P):** As mutually agreed to by the Contractor and the approving authority to provide services during unscheduled weekend operations such as make-up flight schedules. The specific hours of planned augmentation and manning levels shall be documented as noted above.

**C-4.3.3.4 Emergency (P):** Work authorized by the designated local authority to undertake emergency fuel servicing operations; a downed aircraft recovery operation for example. The circumstances shall be fully documented.

**C-4.3.3.5 Time Worked:** Unless locally established policy or union agreement dictate otherwise, compensation shall be paid for the actual hours worked plus reasonable travel time for individuals that may be called to return to duty.

**Appendix A Government Furnished Facilities**

The following is a list of Government facilities and components thereof that will be put under the care and control of the Contractor. It includes items that must be monitored, inspected, and requires preventive maintenance as specified throughout this PWS. Small components such as valves and flow indicators of less than 1.5 inches for which there is no specific PM schedule are not listed. This and the component/PM summary page that follow are approximations that shall be validated and updated as outline in [Section C-2.17, Property Inventory and Accountability](#).

Facility	Item/Component Description <sup>(1)</sup>	Qty
507	Contractor office spaces at the north end of the building.	
	Dispatch Office, 19' 6" X 15' 2"	296 SF
	Fuel Farm Office, 11' 7" X 15' 2"	176 SF
	Kitchen, 19' 6" X 8' 3"	78 SF
	Driver's Rest Area, 12' X 11' 6"	138 SF
	Men's Head, 8' X 11'	88 SF
	Women's Head, 7' X 7' 4"	52 SF
	Copier Room, 7' 4" X 6' 8"	49 SF
	Assistant Manager/Maintenance Office, 15' X 19' 2"	288 SF
	Manager Office/Conference Room, 15' X 19' 2"	288 SF
505	Storage Space, Hangar 9	
	East Room #6 20' 6" X 20' 6"	420 SF
	West Room #5, 20' 6" X 20' 6" Two Bays	840 SF
701	Tank JP5, 10000 Barrel Aboveground, Cone Roof, Welded Steel	1
	Valve, DB&B, 12"	1
	Valve, DB&B, 6"	2
	Valve, DB&B, 4"	1
	Valve, Ball, 6"	1
	Valve, Ball, 2"	2
	Valve, Ball, 1½"	1
	Valve, Pressure/Thermal Relief, 260 PSI	4
	Tank Gauge, Visual Reference	1
702	Tank JP5, 10000 Barrel Aboveground, Cone Roof, Welded Steel is identical to Tank 701 above.	1
	Receipt/Stripping Facility/Kinder-Morgan Pipeline Interface	
	Valve, Flow Control with Pilot, 6"	2
	Valve, DB&B, 6"	3
	Valve, Ball, 2"	2

Facility	Item/Component Description <sup>(1)</sup>	Qty
807	Discharge to Day Tanks and Fillstand.	
	Pump, Centrifugal, 600 GPM	2
	Pump Motor, 50 HP	2
	Flow Sensor, Magnatrol	2
	Valve, Butterfly, 8" with Motor Control Units	4
	Valve, DB&B, 6"	1
	Valve, Ball, 6"	2
	Valve, Pressure/Thermal Relief, 260 PSI	3
	Gauge, Pressure, 0-300 PSI	2
807	Tank Stripping System	
	Pump/Pump Motor Unit, 1 HP	2
	Flow Sensor, Magnatrol	2
	Filter, 15 GPM	1
	Valve, Pressure/Thermal Relief, 150 PSI	1
	Air Eliminator	1
	Gauge, Differential Pressure, 0-30 PSI	1
	Gauge, Pressure, 0-300 PSI	1
	Valve, Pressure/Thermal Relief, 260 PSI	2
	Gauge, Pressure, 0-300 PSI	2
	Shower and Eyewash Station	1
	Day Tank and Fillstand Supply Line	5280 LF
	Valve, Flow Control with Pilot, 8"	1
	Valve, Flow Control with Pilot, 6"	2
	Valve, DB&B, 8"	2
	Valve, DB&B, 6"	1
	Valve, Ball, 8"	1
	Valve, Lubricated Plug, 6"	1
	Valve, Pressure/Thermal Relief, 260 PSI	1
	Y Strainer, 6"	2

Facility	Item/Component Description <sup>(1)</sup>	Qty
614	Fillstand #1, JP5, Dual Lane	1
	Filter Separator, 600 GPM	1
	Gauge, Pressure, 0-300 PSI	1
	Filter Separator, 600 GPM	1
	Gauge, Pressure, 0-300 PSI	1
	Relaxation Chamber	2
	Meter, Counter	2
	Valve, Flow Control with Pilot, 4"	2
	Valve, Flow Control with Pilot, 6"	2
	Valve, Butterfly, 6"	4
	Basket Strainer, 6"	2
	Gauge, Pressure, 0-160 PSI	1
	Hose Assembly, 4" X 12'	2
	Quick Disconnect Coupler, 4"	2
	Nozzle, Single Point	2
	Shower and Eyewash Station	1
612	Fillstand #2, JP5, Dual Lane. Identical to fillstand #1 above less the shower/eye wash.	1
610	Fillstand #3, JP5, Dual Lane is out of service.	1
609	System Control/Laboratory/Maintenance Building	
	West Control Room, 14' X 9'	126 SF
	East Control Room, 14' X 11'	154 SF
	Head, 3' 3" X 8'	26 SF
	Laboratory, 8' X 10'	80 SF
	Shower and Eyewash Station (outside)	1
	Storage Building, Modular, 8' X 10'	80 SF
	Generator and Day Tank, Onan GenSet 40	1
	Air Compressor	1
616	Emergency Generator Building, 19' x 12'	315 SF
	Generator, 60KW Detroit Diesel Allison	1
186	Building, Hot Pit Controls and Crew Rest Area	288 SF
	Main Room, 15' X 31'	465 SF
	Head, 6' X 7'	42 SF

Facility	Item/Component Description <sup>(1)</sup>	Qty
801	Tank JP5, 30000 Gallon Horizontal Cylindrical, Welded Steel (In concert pit.)	1
	Pump, Deep Well Turbine, 600 GPM	2
	Pump Motor, 60 HP	2
	Valve, Flow Control with Pilots and Sample Ports, 6"	2
	Valve, Ball, 6"	4
	Valve, Ball, 2"	1
	Flow Sensor, Magnatrol	2
	Gauge, Pressure, 0-160 PSI	2
	Tank Gauge System , Visual Reference	1
	Automatic Tank Gauge (ATG)	1
802	Tank JP5, 30000 Gallon Horizontal Cylindrical, Welded Steel (In concert pit is identical to 801 above.)	1
803	Tank JP5 (Stripping), 2400 Gallon Horizontal Cylindrical, Welded Steel (In concert pit.)	1
	Pump, Deep Well Turbine, 20 GPM	1
	Pump Motor, 3 HP	1
	Valve, Ball, 2"	5
	Tank Gauge System, Visual Reference	1
	Automatic Tank Gauge (ATG)	1
	Hand Pump, Stripping	1
808	Direct Refueling System, Lane 1	1
	Valve, Butterfly, Fuel Flow/Fire Control	2
	Valve, Ball, 4"	3
	Valve, Flow Control with Pilot, 1"	1
	Valve, Flow Control with Pilot, 4"	1
	Meter with Digital Counter	1
	Gauge, Pressure, 0-160 PSI	1
	Gauge, Pressure, 0-200 PSI	1
	Deadman Control, Handle and Cable	1
	Pantograph, 20'	1
	Emergency Dry Breakaway Coupler	1
	Hose Assembly, 4" X 10'	1
	Hose End Regulator	1
	Nozzle, Single Point	1
	Shower and Eyewash Station	1
808	Direct Refueling System, Lane 2 is identical to Lane 1 above plus AFFF System.	1
808	Direct Refueling System, Lane 3 is identical to Lane 1 above.	1
808	Direct Refueling System, Lane 4 is identical to Lane 1 above plus AFFF System.	1







## Appendix B Government Furnished Equipment, Supplies, and Services

In addition to the facilities and components listed in [Appendix A, Government Furnished Facilities](#), the Government will provide the following equipment, supplies, and services to and for the use by the Contractor.

**Fire Suppression Equipment:** Except for Contractor furnished extinguishers mounted on the Contractor furnished fuel servicing trucks, all fire suppression equipment, i.e., fire extinguishers or portable/installed fire suppression equipment, will be provided, repaired, overhauled, and, as necessary, replaced by the Government. The Government will establish the quantity and type of fire suppression equipment on station within the Fuel Management facilities.

**Telephone Services:** The Government will provide telephone services, i.e., commercial, DSN, and on-station emergency lines, Local Area Network (LAN) connections (if applicable), and equipment required and necessary to conduct Government business, i.e., FAS and DFAMS input. See [Section C-3.3, Other Contractor Provided Equipment and Supplies](#), regarding Contractor-furnished telephones services.

**Utilities:** The Government will provide electricity, natural gas/propane, heating/power production fuels, water, and sewage services as required for the health and welfare of contract personnel that occupy facilities provided by the Government and prefabricated structures provided by the Contractor under [Section C-3.1.10, Prefabricated Buildings](#).

**Refuse Collection:** The Government will provide refuse collection. Refuse placed in refuse containers by the Contractor shall be limited to that generated at the contracted location in the performance of this Contract.

**Emergency Medical Service:** The Government will provide the emergency medical service limited to first responder emergency medical services as available through the Navy Branch Medical Section. A Navy ambulance will respond to called emergencies and transport injured employees to the closest medical facility located at.

**Postal/Mail Distribution:** The Government will provide access to and postage for the United States Postal Service and United Parcel Service for official Government mail generated as a result of performance of this Contract. The Government will also provide on-installation distribution of mail.

**Fuel Products:** Limited to those products stocked and issued on base, the Government will furnish fuel for the operation of the Contractor's fuel servicing equipment, trucks, and tractors identified as fuel servicing equipment. The Contractor shall provide fuel for utility/administrative vehicles, i.e., pick-ups and vans, used by management for administrative purposes.

**Forms and Documents:** The Government will provide all forms and documents unique to the Government.

**Automated System Chips, Keys, and Cards:** The Government will provide all hardware, software, and programmable chips, keys, and cards applicable to automated services stations/product dispensing systems installed.

**Materiel Safety Data Sheets (MSDS):** The Government will provide the appropriate MSDS for those compounds furnished by the Government. See [Section C-3.3, Other Contractor Provided Equipment and Supplies](#), regarding materials provided by the Contractor and the requirement to provide the appropriate MSDS for those materials.

The following is a list of additional Government minor property that will be put under the care and control of the Contractor. It includes items that must be secured, monitored, inspected, and may require preventive maintenance as specified within this PWS. This is an approximate list to be validated and updated as outline in [Section C-2.17, Property Inventory and Accountability](#).

Facility	Item/Component Description <sup>(1)</sup>	Qty
507	Fuels Automated System (FAS) Equipment (Show serial numbers)	
	Computers, Compaq Deskpro (Desktop)	2
	Keyboards	2
	Computers, Compaq Deskpro (Tower)	1
	Keyboards	1
	Monitors, Compaq V70	2
	Monitors, Qvision 210	1
	Printers, HP LaserJet 4	1
	APC Devise	1
	Copier, Xerox 5034	1
	609 Laboratory Equipment (Installed/affixed cabinets need not be listed.)	
	Combined/Contaminated Fuels Detector (CFD and CCFD)	3
	AEL Water Detector	1
	B-2 FSII Test Kit	1
	Flash Point Tester/Propane Tank (mounted outside)	1
	Gammon Field Test Kit	1
	Dishwasher, LABCONCO	1
	Powered Equipment/Tools	
	507 Hydrostatic Test Pump (Hose Testing)	1
	507 Hydo-Lite Pressure Instrument (Gauge Calibration)	1
	609 Air Compressor	1

(1) List item, manufacture, size, rating, and other descriptive information. Supplies stocked and controlled by the Government then issued to the Contractor, need not be listed. <sup>2)</sup>

## Appendix C Definitions, Acronyms, and Abbreviations

Words, the use of words, phrases, abbreviations, and acronyms as may be reflected within this Performance Work Statement are defined and clarified as follows:

**AFSS:** Automated Fuel Service Station

**API:** American Petroleum Institute

**AT:** Annual Tour. Term applicable to Air Force Reserve annual reserve training activities.

**ATG:** Automatic Tank Gauge

**AST:** Aboveground Storage Tank

**ASTM:** American Society for Testing and Materials

**Barrel:** A barrel is equal to 42 U.S. gallons.

**Biodiesel:** Fuel Oil, Diesel, Biodiesel B20, a mixture of diesel fuel and organic oil such as soybean oil.

**CFE:** Contractor Furnished Equipment

**CFR:** Code of Federal Regulations

**CLIN:** Contract Line Item Number

**Common Hand Tools:** As it applies to this document, common hand tools are defined as screwdrivers, pliers, hand cutters, hand, Allen, and pipe wrenches, socket and nut driver sets, hammers, bars, clamps and securing devices, and miscellaneous other non-powered tools of all size and type as may be carried by (personal tools) or available to (shop tools) a system operator or maintenance person performing simple and immediate adjustments and repairs.

### Contract Date/Periods:

**Contract Award Date:** The date entered in block 20C, Date Signed, of the Standard Form 26, Award/Contract. This date may differ from the start/performance date. Note that elements of the solicitation/contract are linked to this date.

**Contract Start Date:** The contract start date, performance date, or first day of the performance period is the first day of the period cited in block 15 (A through F) of the Standard Form 26, Award/Contract. The start date and performance period may be adjusted by amendment to provide the Contractor sufficient lead-time to ready equipment for the contract. In this respect, the award and start dates are linked dates in that one may drive actions of the other.

**Contract(ed/ing) Activity:** Any reference to the “contracted” or “contracting” activity is reference to the base, facility, activity, or installation for or to which the PWS applies.

**Contractor (The):** The individual, group of persons, company, group of companies, or corporation specifically named and contracted by/with the Government to fulfill the terms of the specified contract document. The term "Contractor" as used herein refers to the company or corporation as a whole or any individual, manager or assistant, attendant, technician, operator, driver, dispatcher, or laborer who may be acting on behalf of the named Contractor.

**Contracting Officer:** Includes the Procurement Contracting Officer (PCO) and the Administrative Contracting Officer (ACO).

**Contracting Officers Representative (COR):** The local or on site Navy technical specialist, military or civilian, designated by the Contracting Officer to inspect and accept or reject the supplies and services furnished under a specified contract.

**Cut and Cover (Tank):** The type of bulk storage tank common to the early 1950's and NATO that was constructed at or partially below ground level and then covered with protective layers rock, gravel, and earth. Pits, pumping equipment, and pump houses are normally atop the tank.

**DESC:** Defense Energy Support Center

**DFAMS:** Defense Fuel Automated Management System

**DFR:** Defense Fuel Region

**DFSP:** Defense Fuel Support Point

**DiEGME:** Diethylene Glycol Monomethyl Ether, a type of Fuel System Icing Inhibitor (FSII)

**DLA:** Defense Logistics Agency

**DOD:** Department of Defense

**DODAAC:** Department of Defense Activity Address Code (also see UIC)

**DSN:** Defense Switching Network (telephone communications system once referred to as AUTOVON)

**EDP:** Emergency Distribution Plan

**EPA:** Environmental Protection Agency

**EGME:** Ethylene Glycol Monomethyl Ether, a type of Fuel System Icing Inhibitor (FSII)

**FAR:** Federal Acquisition Regulations

**FAS:** Fuels Automated System

**FES:** Fuels Enterprise Server

**FSII:** Fuel System Icing Inhibitor

**ISSA:** Inter-Service Support Agreement

**GFE:** Government Furnished Equipment

**Maintenance:** Unless specifically defined otherwise, the word or term "maintain or maintenance" shall mean preventive or operator maintenance as defined below.

**Operator Maintenance:** Operator maintenance is that work accomplished during routine inspections and during system use/operation. Operator maintenance may be, but is not necessarily limited to, work such as the replacement of ground wires, plugs, and clips, the replacement of O-rings and gaskets, the tightening of nuts, bolts, and screws to prevent leakage, or corrosion control and spot painting. Operator maintenance is normally be limited to those actions taken by qualified system operators using common hand tools.

**Preventive Maintenance (PM):** Preventive maintenance is a program of recurrent periodic or cyclic scheduled work designed to preserve and maintain equipment, apparatus, or facilities in such condition that they may be effectively used for their intended purpose.

**Other Maintenance and Repair:** Maintenance and repair beyond that defined as preventive is other maintenance and repair. This includes unplanned repair or replacement of material or components that show abnormal wear or fail. This maintenance will be approved by the COR and is reimbursable under Section C-4.1.

**Maintenance “Not requiring component tear-down”** implies that whatever action is stated, “replace an O-ring” for instance, does not require that the component be removed from the system or disassemble (major maintenance) and that the replacement of the O-ring is a simple slipped in or over or that a retainer ring can be moved, removed, and replaced (PM or operator maintenance) with no more than a simply hand tool.

**MILCON:** Military Construction

**MPMS:** Manual of Petroleum Measurements Standards

**MSDS:** Material Safety Data Sheet

**MRE:** Maintenance, Repair, and Environmental

**NFPA:** National fire Protection Agency

**NPDES:** National Pollution Discharge Elimination System

**NSN:** National Stock Number

**OPA:** Oil Pollution Act

**OSHA:** Occupational Safety and Health Administration

**Phase IIB:** The inclusion of ground fuels into the DESC DFAMS management and reporting system.

**PM:** Preventive Maintenance (see Maintenance above)

**POS:** Peacetime Operating Stock

**PSI:** Pounds per Square Inch

**PWC or D:** Public Works Center or Department

**PWS:** Performance Work Statement

**Response Time:** The total elapse time as measured from the time a call for services is received by the Contractor to the time the fuel servicing equipment or operator arrives at the aircraft, vehicle, facility, or equipment to be serviced. Note that there are varying “normal duty hour” and “after hour or weekend” response times.

**QASP:** Quality Assurance Surveillance Plan

**SOP:** Standard Operating Procedure

**SOW:** Statement of Work

**SPCC:** Spill Prevention Control and Countermeasure Plan

**TAFDS:** Tactical Airfield Fuel Delivery System, a set of pumps, filters, bladders, connecting hoses, and components used to receive, store, and dispense fuel to aircraft under field conditions.

**Time:** All reference to time or time periods, i.e., 0600-2000, 0600 to 2000, or 0600 to 2000 hours, is an expression of time as measure by a 24-hour clock (military time) and is an expression of local time for and at the contracted location.

**UDAPS:** Uniform Data Automated Processing System

**USCG:** United States Coast Guard

**UST:** Underground Storage Tank

**UTA:** Unit Training Assembly. Term applicable to Air Force Reserve weekend training.

**Wording:** Word usage and the intended meaning with regard to this solicitation/contract are as follows:

**“Shall”** is used to indicate that a provision of the contract or a requirement/action specified of the Contractor is mandatory. “The Contractor shall,” identifies a mandatory action on the part of the Contractor.

**“Should”** is used to indicate an action on the part of the Contractor is recommended. “Emergency dry breakaway couplers should be installed,” implies a recommended action or option on the part of the Contractor.

**“Will”** is used to indicate futurity on the part of the Government. “The Government will provide,” implies the Government to take some future action to make something available to the Contractor.

**“Furnish” and “provide”** are use interchangeable.

**“Herein”** as use within this document refers to the Performance Work Statement (PWS) document and attached exhibits, in total.

**“Monitor(ed)”** as used herein implies a continuous attention or cognizance of an item, system, function, and procedure that may go beyond a routine or scheduled inspection. To monitor and report is an immediate action.

**“Notes”** Notes are used to **emphasize** specific requirements, practices, and procedures required of the Contractor.

**“Therein”** as used within this document refers to the policy, procedure, guidance, information, data, or other information contained within a referenced document or an area of the PWS other than that being read.

The use of **“and/or”** and the forward slash **“/”** between words, i.e., collection/delivery, means or implies a capability to carry out either or both of the actions or activities described.

The terms **“Fuel” and “petroleum”** may be used interchangeability.

## Appendix D Reference Documents

The following is a list of the references directly/indirectly sited within the PWS. It is not all-inclusive and does not site local/command instructions. It is the responsibility of the Contractor to ensure full compliance with all Federal, state, USN/USMC, and local regulatory documents. On contract award, the contracted activity will provide a copy of applicable DOD, USN, USMC, and local instructions required under this contract. All other references, i.e., federal and state code, professional, association, and industry standards and guidelines, many of which are available from various web sites, shall be provided by the Contractor. The following items that appear as [blue and underlined](#) are linked to a web site.

Document	Title
<a href="#">29 CFR</a> <sup>(1)</sup>	Labor
29 CFR Part 1910	Occupational Safety and Health Standards
40 CFR 112	Oil Pollution Prevention
49 CFR 171	Hazardous Materials Regulations; General information, regulations, and definitions
49 CFR 172	Hazardous materials table, special provisions, hazardous materials communications, emergency response information, and training requirements
49 CFR 173	Shippers--general requirements for shipments and packaging
49 CFR 178.345	General design and construction requirements applicable to Specification DOT 406
49 CFR 178.346	Specification DOT 406; cargo tank motor vehicles
49 CFR 180	Continuing Qualification and Maintenance of Packaging
49 CFR 382	Controlled Substance and Alcohol Use and Testing
49 CFR 383	Commercial Driver's License Standards; Requirements/Penalties
49 DFR 387	Minimum Levels of Financial Responsibility for Motor Carriers
49 CFR 390	Federal Motor Carrier Safety Regulations; General
49 CFR 391	Qualification of Drivers
49 CFR 392	Driving of Commercial Motor Vehicles
49 CFR 393	Parts and Accessories Necessary for Safe Operation
49 CFR 395	Hours of Service for Drivers
49 CFR 396	Inspection, Repair and Maintenance
<a href="#">NFPA 385</a>	Tanks Vehicles for Flammable and Combustible Liquids
<a href="#">NFPA 407</a>	Aircraft Fuel Servicing
<a href="#">API Bulletin 1529</a>	Aviation Fuel Hose
<a href="#">API Publications 1581</a>	Specifications and Qualifications Procedures for Aviation Jet Fuel Filter Separators
<a href="#">DOD 4140.25-M</a>	DOD Management of Bulk Petroleum Products, Natural Gas, and Coal
<a href="#">MIL-STD-3004</a> <sup>(2)(4)</sup>	Quality Surveillance Handbook for Fuel, Lubricants and Related Products
<a href="#">NAVAIR 00-80T-109</a> <sup>(2)</sup>	Aircraft Refueling NATOPS Manual
<a href="#">NAVFAC P-300</a>	Management of Transportation Equipment
<a href="#">OPNAVINST 4790.2*</a>	The Navy Aviation Maintenance Program (NAMP)
<a href="#">OPNAVINST 5090.1</a> * <sup>(3)</sup>	Environmental and Natural Resources Program Manual
<a href="#">NAVSUP P-558</a> <sup>(3)</sup>	Petroleum Management Ashore
<a href="#">NAVSUP Vol. II</a>	Supply Ashore

(1) All Code of Federal Regulation (CFR) referenced are at the same web site. To access the basic web page, point to 29 CFR, click, and follow the web page instructions. In this and other links, the user is taken to the basic web page. The computer knowledge of and navigation of the web sites is a user responsibility.

(2) User may require **mil (Military) domain** assistance or may have to register with this site in order to gain access and download documents.

(3) An asterisk \* at the end of a reference, i.e., OPNAVINST 4790.2\*, indicates there is an El Centro designator to indicate the most recent version of the publication.

(4) Go to SPECS & STDS, scroll to STINET and enter DODISS ID Number MIL-STD-3004 (see Note 2 above).

## Appendix E Maps

The NAF El Centro Fuel Division will provide the following maps during the contract pre-bid on-site visit. The 8½ X 11 inch map or map set provided will become a part of the contract.

1. A local area map clearly showing the nearest major city/town, roads, and the base
2. A station/local area map showing the routes to any outlying area requiring aviation or ground fuels support
3. Station maps clearly showing all fuel and cryogenic facilities. Any connecting pipelines should be shown
4. Station maps clearly showing the entire flightline areas, parking ramps by type of aircraft, hot pit facilities, restricted areas, and other information as may be useful to the Contractor
5. Station map or a map set clearly showing all ground product delivery points, used oil or recyclable product collection points, and used oil or recyclable product disposition/delivery locations (color coded by grade of product)

## Appendix F Quality Surveillance Program

The primary purpose of the Quality Surveillance Plan (QSP) and these Performance Requirements Summaries (PRSs) is to identify those performance requirements considered most critical to acceptable contract performance and the corresponding standards of performance. A PRS also identifies the Acceptable Quality Level (AQL) for each required service. It specifies the lot size that will be used as the basis for payment calculation as well as for sampling purposes, and the quality assurance methods, which the Government will use to evaluate the Contractor's performance in meeting the contract requirements. Finally, the PRS shows the percentage of the contract price that each listed contract requirement represents.

Government Quality Assurance. At the end of each inspection period, the Government will compare contractor performance to the contract standards and AQL/Allowable Degree of Deviation (ADD) using the Quality Assurance Plan (QAP). The Government will evaluate each required service based on one of the following inspection methods:

- a. Random sampling using the concepts of ANCI/ASQC Z1.4-1993
- b. One hundred percent inspection
- c. Validated customer complaints

Criteria for Acceptable and Unacceptable Performance. The standards indicate the levels of performance deemed acceptable to the Government. Performance of a required service is considered satisfactory when the percentage of defective units (unsatisfactory outputs) found by the Government during contract surveillance does not exceed that allowed by the AQL. When the percentage of defective units discovered by the COTR exceeds that allowed by the AQL/ADD, the contractor's performance is considered unsatisfactory. When the performance is unsatisfactory, the Contractor shall respond in writing to a Contract Discrepancy Report (CDR). The CDR will require the Contractor to explain, in writing, why performance was unacceptable, how performance will be returned to satisfactory levels, and how recurrence of the problem will be prevented in the future. The COTR will evaluate the Contractor's explanation and recommend to the Contracting Officer if full payment, partial payment, or the contract termination process is applicable. The Contractor's payment for services rendered will be calculated as stated in paragraph 4.

Determination of the Number of Defective Units that Renders a Service Unsatisfactory. For services inspected by random sampling, the number is determined from the ANCI/ASQC Z1.4-1993 charts. For services inspected by other than random sampling, the reject (unacceptable) level equals the next whole number greater than the number of defectives allowed by AQL. (NOTE: If the AQL is expressed as a percentage, it must first be multiplied by the lot size to determine the number of defective units allowed by unsatisfactory performance.)

Re-performance of Unsatisfactory Work. At the Government's discretion, the Contractor shall re-perform, without additional cost to the Government, all work found by the COTR to be unsatisfactorily performed. The Contracting Officer will determine the amount of time the Contractor will be given to re-perform the work on a case-by-case basis. Re-performance will not improve the overall rating of the service in question.

For services sampled, the maximum contract payment per month is multiplied by the maximum payment percentage for the service to determine the maximum payment for acceptable service. This payment is multiplied by the percentage of the sample found acceptable to determine the percentage of the contract price that the Contractor will be paid for the listed service. The total number of defectives found, not just those in excess of the reject level, are used to determine the percentage of the sample found unacceptable. The percentage of the sample found unacceptable subtracted from 100 percent determines the percentage of the lot found acceptable.

For services checked by One hundred percent inspection or validated customer complaint, the maximum payment percentage of the service in column 5 of the PRS is multiplied by the payment percentage of the lot found acceptable. The resulting percentage is the percentage of the monthly contract price that the Contractor will be paid for the listed service. The total number of defectives found, not just the defectives in excess of the reject level, are used to determine the percentage of the lot found acceptable.

For those services that are performed less frequently than monthly, surveillance and computation of the Contractor's payment will be made during or immediately following the month when that service is performed. The payment computation will be determined for the entire period since the last surveillance. Should computation of the Contractor's payment result in an amount less than has already been paid for the preceding month(s) of the period since the last surveillance, the Government will deduct the overpayment from the current month's invoice.

Contractor Payment

Satisfactory Service. For satisfactory performance of a service, the Government will pay the Contractor the percentage of the monthly contract price indicated for that service.

Unsatisfactory Service. For unsatisfactory performance not caused by Government interference or Government failure to provide C3 requirements, the Government will pay the Contractor only for the percent of work found to be satisfactory.

Random Sampling. Payment based upon a finding of unsatisfactory service is calculated on the percentage of the sample found satisfactory. Payment will be calculated as follows: (maximum payment for satisfactory service x (% of sample found satisfactory)) = payment for percentage of service found satisfactory.

EXAMPLE	
Maximum Contract Payment Per Month	\$10,000.00
Maximum payment percentage for this service:	9% (\$900.00)
Quantity of Units Completed:	450 (lot size)
AQL	10%
Sample size:	50
Reject level:	11(MIL-STD-105D)
Unsatisfactory units found:	20
Satisfactory units found:	30
Service is unsatisfactory	
Maximum payment for satisfactory service would be	900
% of sample found satisfactory (60 divided by 100 = 60%)	60%
Payment for percentage of service found satisfactory	\$540

One hundred percent Inspection and Validated Customer Complaints. Payment for unsatisfactory service is based on the percentage of the **lot** found satisfactory. Payment will be calculated as follows: (maximum payment for satisfactory service) x (% of lot found satisfactory) = payment for percentage of service found satisfactory.

EXAMPLE	
Maximum Contract Payment Per Month	\$10,000.00
Maximum payment percentage for this service:	9% (\$900.00)
Quantity of Units Completed:	100 (lot size)
AQL	10%
Unsatisfactory units found:	40
Satisfactory units found:	60
Service is unsatisfactory	\$900
Maximum payment for satisfactory service would be	
% of sample found satisfactory (60 divided by 100 = 60%)	60%
Payment for percentage of service found satisfactory	\$540

Payment for Service with a Surveillance Period Longer than Monthly. Some of the line items listed in the PRS have a surveillance period which is longer than monthly. Throughout the surveillance period, the Government will inspect each unit completed for these line items using the inspection method specified in the PRS. Each month the Government will pay the Contractor the maximum payment percentage allowed for that service, as if the service were found satisfactory. At the end of the surveillance period, the Government will compare the Contractor's performance for the entire surveillance period to the AQL for that line item to determine if overall performance for the line item was satisfactory.

Satisfactory Service. Payment for satisfactory performance will be calculated as follows: (maximum payment for satisfactory service) - (payments made during the surveillance period) = total amount of adjustment at the end of the surveillance period.

Unsatisfactory Service. Payment for unsatisfactory performance will be calculated as follows:

For services inspected by random sampling: (maximum payment for satisfactory service) x (% of sample found satisfactory) - (payments made during surveillance period) = amount of adjustment at end of surveillance period.

For services inspected by One hundred percent inspection and validated customer complaints: (maximum payment for satisfactory service) x (% of lot found satisfactory) - (payments made during surveillance period) = amount of adjustment at end of surveillance period.

Nothing in the foregoing provisions will diminish or preclude Government actions pursuant to the "Default" clause or other terms and conditions of this contract.











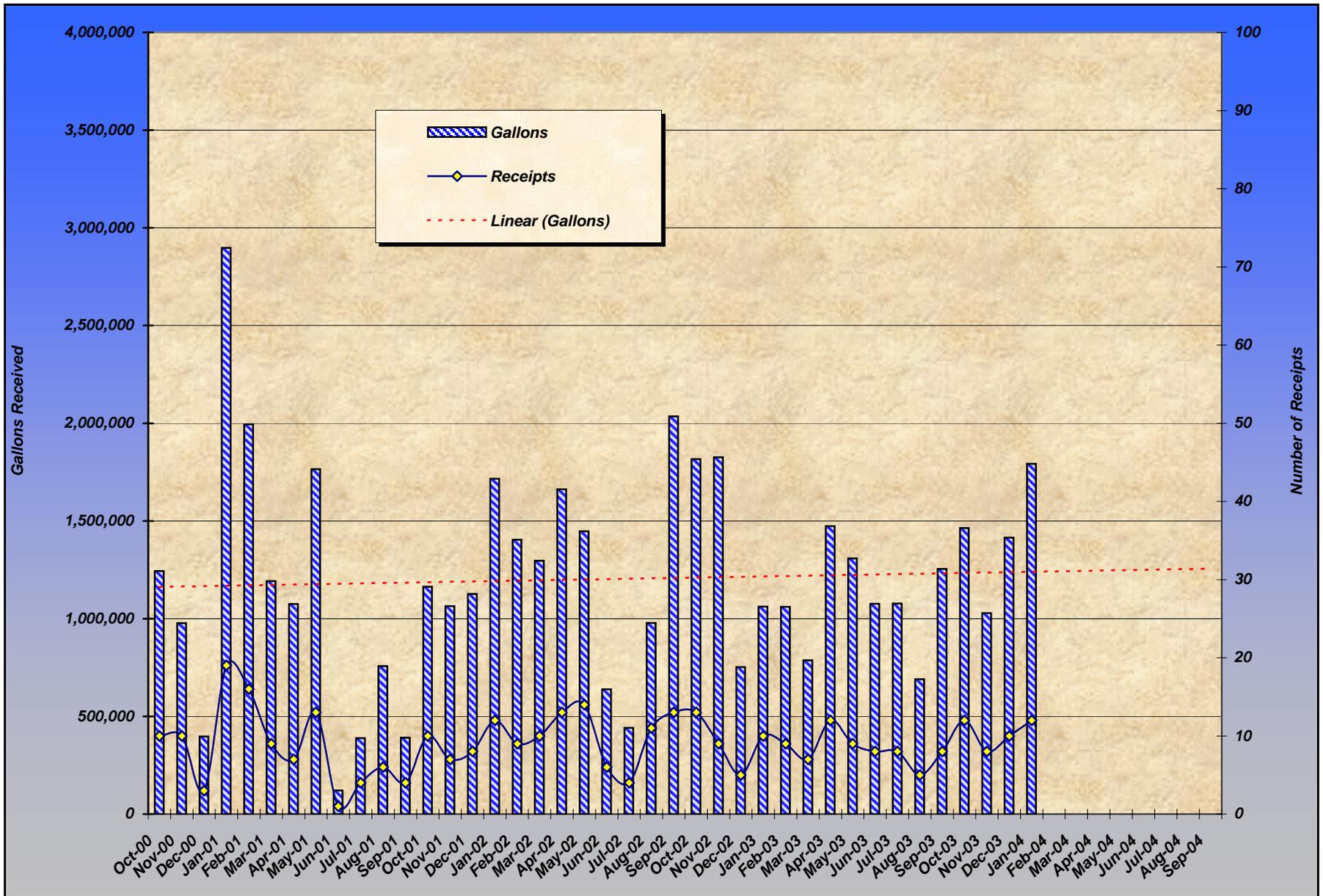


**Exhibit of JP8 Receipts by Pipeline**  
Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons</b>	<b>Total</b>	<b>Receipts</b>	<b>Total</b>	
	Oct-00	1,244,166		10		
	Nov-00	977,214		10		
	Dec-00	397,026		3		
	Jan-01	2,897,832		19		
	Feb-01	1,994,916		16		
	Mar-01	1,192,170		9		
	Apr-01	1,075,494		7		
	May-01	1,765,302		13		
	Jun-01	121,358		1		
	Jul-01	388,206		4		
	Aug-01	756,588		6		
	Sep-01	391,314	13,201,586	4	102	
	Oct-01	1,164,114		10		
	Nov-01	1,064,322		7		
	Dec-01	1,126,104		8		
	Jan-02	1,715,616		12		
	Feb-02	1,404,120		9		
	Mar-02	1,295,952		10		
	Apr-02	1,662,108		13		
	May-02	1,447,168		14		
	Jun-02	638,106		6		
	Jul-02	441,546		4		
	Aug-02	978,726		11		
	Sep-02	2,035,866	14,973,748	13	117	
	Oct-02	1,816,962		13		
	Nov-02	1,826,160		9		
	Dec-02	752,682		5		
	Jan-03	1,061,844		10		
	Feb-03	1,061,130		9		
	Mar-03	787,374		7		
	Apr-03	1,473,444		12		
	May-03	1,308,174		9		
	Jun-03	1,076,460		8		
	Jul-03	1,077,300		8		
	Aug-03	690,228		5		
	Sep-03	1,254,876	14,186,634	8	103	
	Oct-03	1,463,616		12		
	Nov-03	1,028,496		8		
	Dec-03	1,414,182		10		
	Jan-04	1,792,182		12		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		5,698,476		42	

**Exhibit of JP8 Receipts by Pipeline**  
Fiscal Year 2001-2004

SP0600-04-R-0011



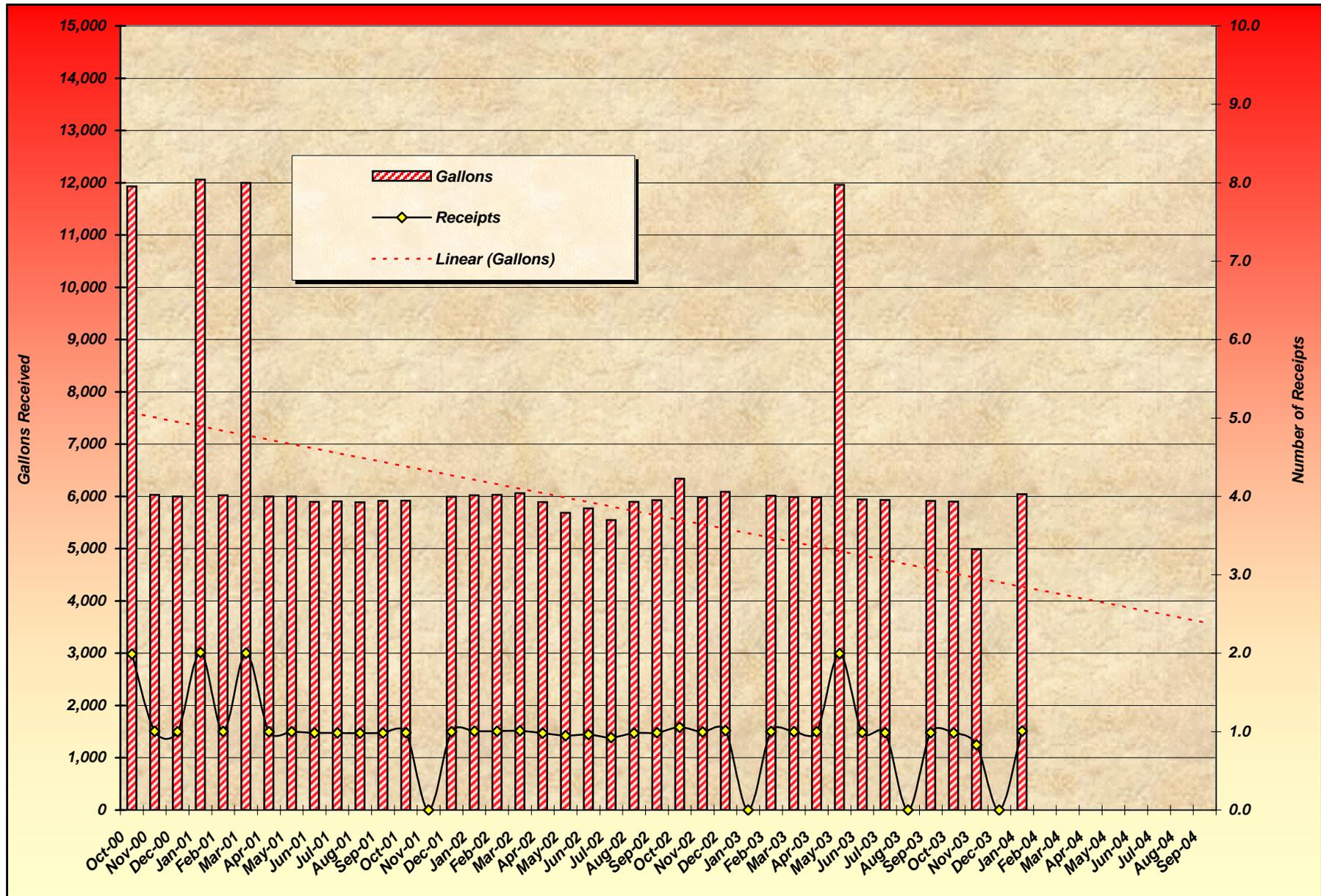
**Exhibit of MUR Receipts by Tank Truck**

Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons</b>	<b>Total</b>	<b>Receipts</b>	<b>Total</b>	
	Oct-00	11,931		2		
	Nov-00	6,029		1		
	Dec-00	5,998		1		
	Jan-01	12,061		2		
	Feb-01	6,020		1		
	Mar-01	11,999		2		
	Apr-01	6,000		1		
	May-01	5,998		1		
	Jun-01	5,897		1		
	Jul-01	5,907		1		
	Aug-01	5,887		1		
	Sep-01	5,914	89,641	1	15	
	Oct-01	5,920		1		
	Nov-01	0		0		
	Dec-01	5,993		1		
	Jan-02	6,022		1		
	Feb-02	6,029		1		
	Mar-02	6,063		1		
	Apr-02	5,890		1		
	May-02	5,684		1		
	Jun-02	5,773		1		
	Jul-02	5,549		1		
	Aug-02	5,896		1		
	Sep-02	5,927	64,746	1	11	
	Oct-02	6,337		1		
	Nov-02	5,983		1		
	Dec-02	6,089		1		
	Jan-03	0		0		
	Feb-03	6,012		1		
	Mar-03	5,990		1		
	Apr-03	5,987		1		
	May-03	11,964		2		
	Jun-03	5,942		1		
	Jul-03	5,932		1		
	Aug-03	0		0		
	Sep-03	5,916	66,152	1	11	
	Oct-03	5,901		1		
	Nov-03	4,989		1		
	Dec-03	0		0		
	Jan-04	6,046		1		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		16,936		3	

**Exhibit of MUR Receipts**  
Fiscal Year 2001-2004

SP066-04-R-0011

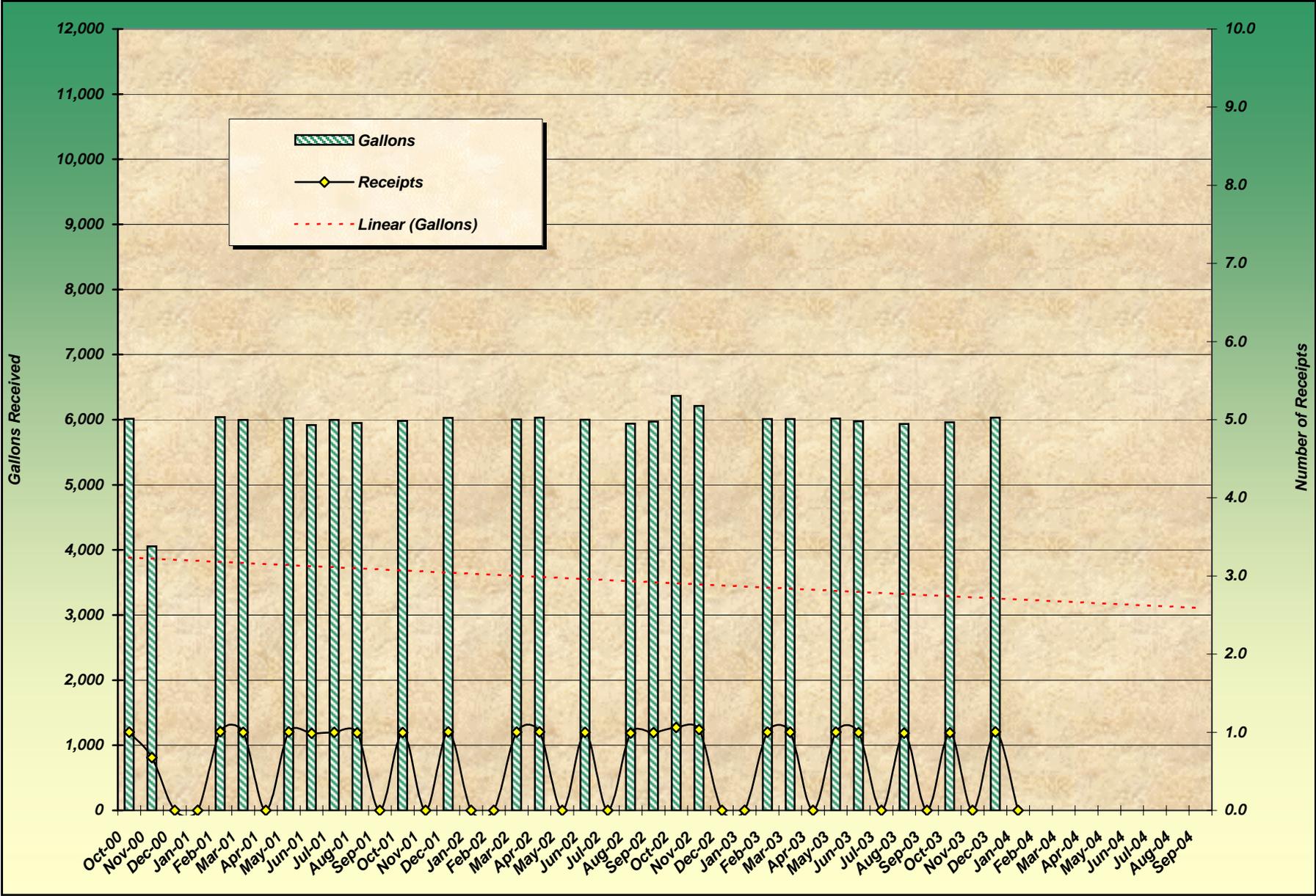


**Exhibit of LS2 Receipts by Tank Truck**

Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons</b>	<b>Total</b>	<b>Receipts</b>	<b>Total</b>	
	Oct-00	6,016		1		
	Nov-00	4,055		1		
	Dec-00	0		0		
	Jan-01	0		0		
	Feb-01	6,041		1		
	Mar-01	5,998		1		
	Apr-01	0		0		
	May-01	6,023		1		
	Jun-01	5,917		1		
	Jul-01	5,996		1		
	Aug-01	5,948		1		
	Sep-01	0	45,994	0	8	
	Oct-01	5,981		1		
	Nov-01	0		0		
	Dec-01	6,027		1		
	Jan-02	0		0		
	Feb-02	0		0		
	Mar-02	6,003		1		
	Apr-02	6,034		1		
	May-02	0		0		
	Jun-02	6,000		1		
	Jul-02	0		0		
	Aug-02	5,939		1		
	Sep-02	5,972	41,956	1	7	
	Oct-02	6,367		1		
	Nov-02	6,210		1		
	Dec-02	0		0		
	Jan-03	0		0		
	Feb-03	6,009		1		
	Mar-03	6,011		1		
	Apr-03	0		0		
	May-03	6,017		1		
	Jun-03	5,976		1		
	Jul-03	0		0		
	Aug-03	5,934		1		
	Sep-03	0	42,524	0	7	
	Oct-03	5,960		1		
	Nov-03	0		0		
	Dec-03	6,034		1		
	Jan-04	0		0		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		11,994		2	

**Exhibit of LS2 Receipts**  
**Fiscal Year 2001-2004**



**Exhibit of JP8 Issues by Refueler**  
Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons Issued</b>	<b>Total</b>	<b>No. of Issues</b>	<b>Total</b>	
	Oct-00	637,729		1,296		
	Nov-00	323,534		656		
	Dec-00	463,275		578		
	Jan-01	1,626,870		2,591		
	Feb-01	1,090,516		1,459		
	Mar-01	804,834		1,650		
	Apr-01	359,419		990		
	May-01	838,789		1,552		
	Jun-01	616,020		1,070		
	Jul-01	262,435		630		
	Aug-01	424,532		689		
	Sep-01	227,095	7,675,048	655	13,816	
	Oct-01	939,637		1,434		
	Nov-01	335,694		443		
	Dec-01	339,262		534		
	Jan-02	1,018,590		1,482		
	Feb-02	851,188		863		
	Mar-02	659,364		993		
	Apr-02	903,600		1,255		
	May-02	683,694		739		
	Jun-02	319,820		422		
	Jul-02	356,040		516		
	Aug-02	689,884		776		
	Sep-02	1,047,039	8,143,812	960	10,417	
	Oct-02	974,114		1,108		
	Nov-02	825,667		1,308		
	Dec-02	248,515		403		
	Jan-03	871,041		1,235		
	Feb-03	735,740		1,362		
	Mar-03	650,189		1,201		
	Apr-03	969,709		986		
	May-03	917,032		810		
	Jun-03	739,619		1,277		
	Jul-03	244,277		497		
	Aug-03	257,386		235		
	Sep-03	583,486	8,016,775	449	10,871	
	Oct-03	1,054,514		726		
	Nov-03	698,410		536		
	Dec-03	623,459		411		
	Jan-04	878,577		665		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		3,254,960		2,338	

677,265

936

11,701

**Exhibit of JP8 Issues by Direct Refueling System**

Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons Issued</b>	<b>Total</b>	<b>No. of Issues</b>	<b>Total</b>	
	Oct-00	396,951		138		
	Nov-00	544,658		57		
	Dec-00	203,389		64		
	Jan-01	1,196,135		421		
	Feb-01	730,391		183		
	Mar-01	484,006		265		
	Apr-01	845,903		98		
	May-01	744,894		156		
	Jun-01	550,250		86		
	Jul-01	210,422		52		
	Aug-01	236,759		36		
	Sep-01	199,348	6,343,106	156	1,712	
	Oct-01	1,039,403		674		
	Nov-01	304,151		262		
	Dec-01	321,505		278		
	Jan-02	746,154		581		
	Feb-02	1,058,561		623		
	Mar-02	219,681		231		
	Apr-02	711,097		525		
	May-02	700,548		516		
	Jun-02	322,297		291		
	Jul-02	322,679		307		
	Aug-02	556,726		454		
	Sep-02	850,342	7,153,144	626	5,368	
	Oct-02	778,560		591		
	Nov-02	1,007,025		667		
	Dec-02	144,479		126		
	Jan-03	354,408		264		
	Feb-03	162,106		134		
	Mar-03	291,161		274		
	Apr-03	514,253		380		
	May-03	422,887		411		
	Jun-03	513,318		417		
	Jul-03	755,388		226		
	Aug-03	781,527		568		
	Sep-03	1,322,070	7,047,182	449	4,507	
	Oct-03	855,286		1,322		
	Nov-03	372,866		453		
	Dec-03	322,004		321		
	Jan-04	1,100,569		1,892		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		2,650,725		3,988	

**Exhibit of JP8 Defuels**

Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons Defueled</b>	<b>Total</b>	<b>No. of Defuels</b>	<b>Total</b>	
	Oct-00	17,042		7		
	Nov-00	0		0		
	Dec-00	3,500		1		
	Jan-01	6,693		3		
	Feb-01	5,853		2		
	Mar-01	3,499		1		
	Apr-01	12,888		5		
	May-01	5,142		2		
	Jun-01	0		0		
	Jul-01	6,942		3		
	Aug-01	4,001		2		
	Sep-01	4,105	69,665	2	28	
	Oct-01	30,500		12		
	Nov-01	51,148		20		
	Dec-01	12,018		5		
	Jan-02	12,989		5		
	Feb-02	25,444		10		
	Mar-02	10,741		4		
	Apr-02	6,148		2		
	May-02	22,054		9		
	Jun-02	7,859		3		
	Jul-02	21,060		8		
	Aug-02	5,051		2		
	Sep-02	9,389	214,401	4	86	
	Oct-02	4,151		2		
	Nov-02	8,027		3		
	Dec-02	0		0		
	Jan-03	35,806		14		
	Feb-03	5,328		2		
	Mar-03	6,568		3		
	Apr-03	36,351		15		
	May-03	12,707		5		
	Jun-03	0		0		
	Jul-03	1,050		2		
	Aug-03	2,800		7		
	Sep-03	2,700	115,488	8	61	
	Oct-03	5,050		13		
	Nov-03	7,150		14		
	Dec-03	0		0		
	Jan-04	20,300		32		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		32,500		59	

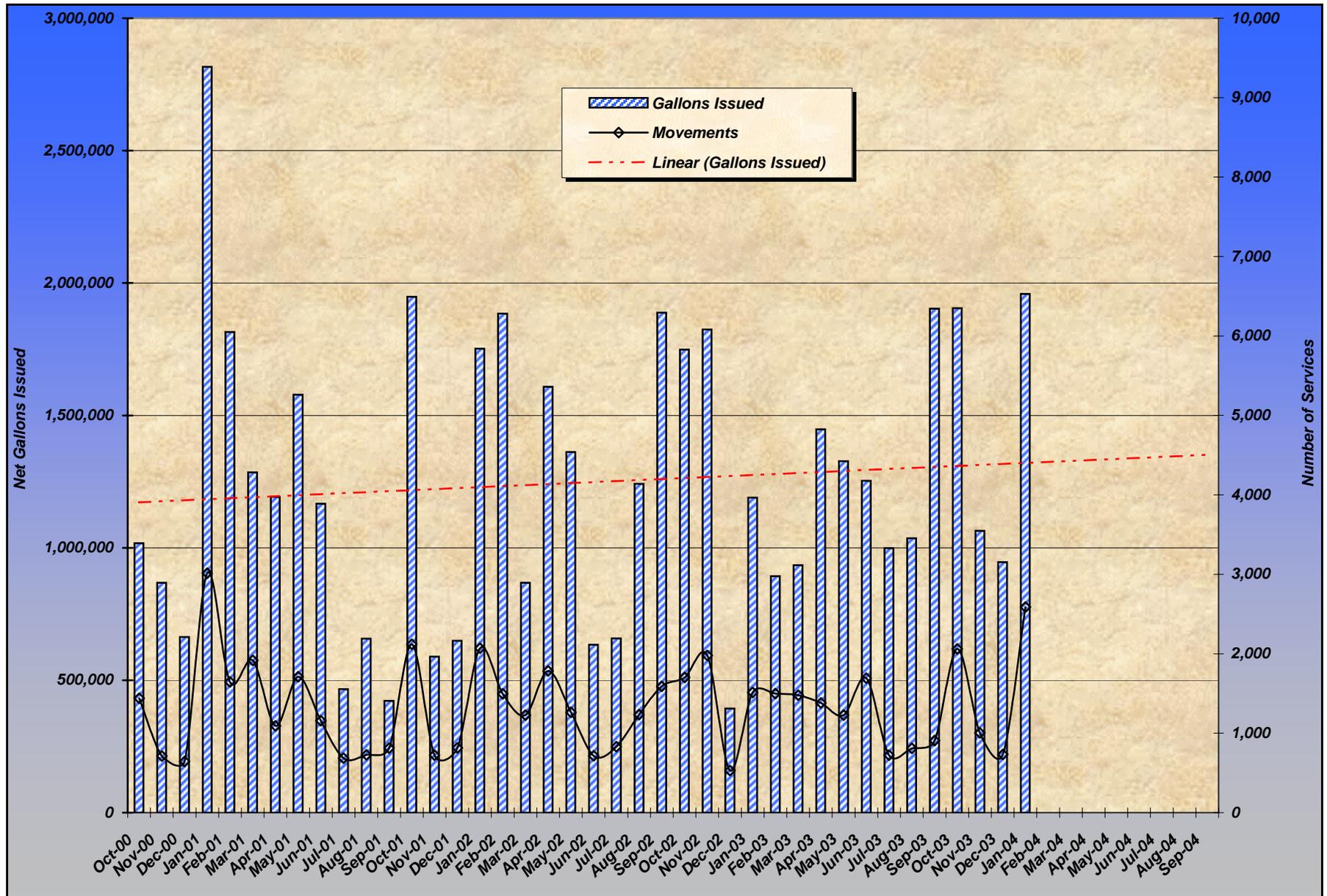
**Exhibit of Total JP8 Issues (Sales)**

Fiscal Years 2001-2004

<b>Month</b>	<b>Gallons Issued</b>	<b>Total</b>	<b>Truck</b>	<b>Pit</b>	<b>Defuels</b>	<b>Movements</b>
Oct-00	1,017,638		1,296	138	7	1,441
Nov-00	868,192		656	57	0	713
Dec-00	663,164		578	64	1	643
Jan-01	2,816,312		2,591	421	3	3,015
Feb-01	1,815,054		1,459	183	2	1,644
Mar-01	1,285,341		1,650	265	1	1,916
Apr-01	1,192,434		990	98	5	1,093
May-01	1,578,541		1,552	156	2	1,710
Jun-01	1,166,270		1,070	86	0	1,156
Jul-01	465,915		630	52	3	685
Aug-01	657,290		689	36	2	727
Sep-01	422,338	13,948,489	655	156	2	813
Oct-01	1,948,540		1,434	674	12	2,120
Nov-01	588,697		443	262	20	725
Dec-01	648,749		534	278	5	817
Jan-02	1,751,755		1,482	581	5	2,068
Feb-02	1,884,305		863	623	10	1,496
Mar-02	868,304		993	231	4	1,228
Apr-02	1,608,549		1,255	525	2	1,782
May-02	1,362,188		739	516	9	1,264
Jun-02	634,258		422	291	3	716
Jul-02	657,659		516	307	8	831
Aug-02	1,241,559		776	454	2	1,232
Sep-02	1,887,992	15,082,555	960	626	4	1,590
Oct-02	1,748,523		1,108	591	2	1,701
Nov-02	1,824,665		1,308	667	3	1,978
Dec-02	392,994		403	126	0	529
Jan-03	1,189,643		1,235	264	14	1,513
Feb-03	892,518		1,362	134	2	1,498
Mar-03	934,782		1,201	274	3	1,478
Apr-03	1,447,611		986	380	15	1,381
May-03	1,327,212		810	411	5	1,226
Jun-03	1,252,937		1,277	417	0	1,694
Jul-03	998,615		497	226	2	725
Aug-03	1,036,113		235	568	7	810
Sep-03	1,902,856	14,948,469	449	449	8	906
Oct-03	1,904,750		726	1,322	13	2,061
Nov-03	1,064,126		536	453	14	1,003
Dec-03	945,463		411	321	0	732
Jan-04	1,958,846		665	1,892	32	2,589
Feb-04						
Mar-04						
Apr-04						
May-04						
Jun-04						
Jul-04						
Aug-04						
Sep-04		5,873,185				

**Exhibit of JP8 Issues**  
Fiscal Year 2001-2004

SP0600-04-R-0011



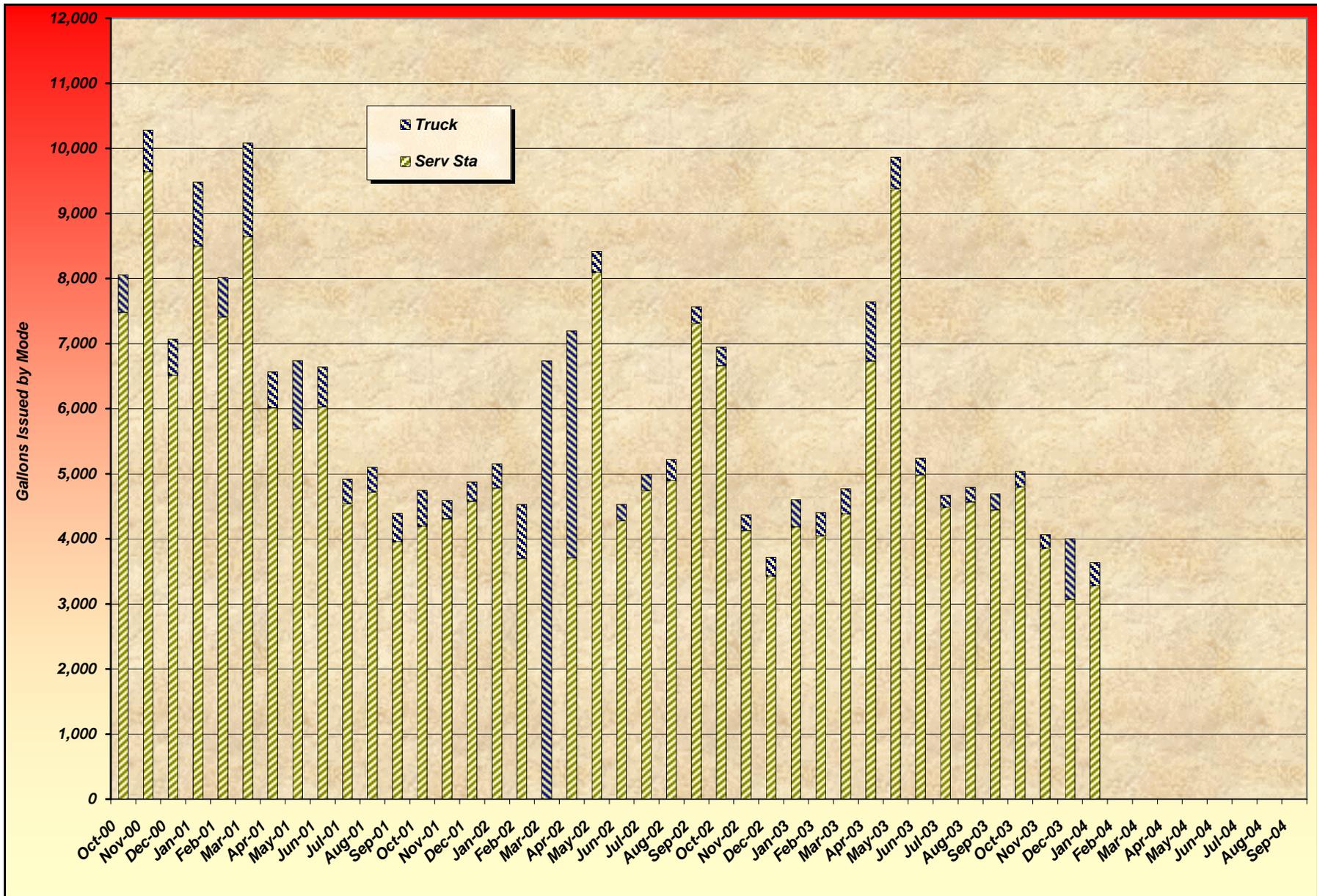
**Exhibit of MUR Issues, All Modes**

Fiscal Years 2001-2004

<b>Month</b>	<b>Serv Sta</b>	<b>FY Total</b>	<b>No.</b>	<b>Truck</b>	<b>FY Total</b>	<b>No.</b>	<b>Total</b>
Oct-00	7,481			572			8,053
Nov-00	9,641			640			10,281
Dec-00	6,509			559			7,068
Jan-01	8,494			985			9,479
Feb-01	7,407			607			8,014
Mar-01	8,641			1,442			10,083
Apr-01	6,010			555			6,565
May-01	5,689			1,046			6,735
Jun-01	6,024			614			6,638
Jul-01	4,540			377			4,917
Aug-01	4,715			384			5,099
Sep-01	3,954	79,105		436	8,217		4,390
Oct-01	4,190			554			4,744
Nov-01	4,306			284			4,590
Dec-01	4,575			299			4,874
Jan-02	4,780			372			5,152
Feb-02	3,700			829			4,529
Mar-02	0			6,731			6,731
Apr-02	3,707			3,488			7,195
May-02	8,094			321			8,415
Jun-02	4,275			253			4,528
Jul-02	4,739			248			4,987
Aug-02	4,895			322			5,217
Sep-02	7,310	54,571		254	13,955		7,564
Oct-02	6,661			282			6,943
Nov-02	4,127			238			4,365
Dec-02	3,424			293			3,717
Jan-03	4,179			421			4,600
Feb-03	4,042			360			4,402
Mar-03	4,380			387			4,767
Apr-03	6,730			912			7,642
May-03	9,374			491			9,865
Jun-03	4,980			258			5,238
Jul-03	4,480			187			4,667
Aug-03	4,564			227			4,791
Sep-03	4,440	61,381		251	4,307		4,691
Oct-03	4,793			242			5,035
Nov-03	3,852			210			4,062
Dec-03	3,069			932			4,001
Jan-04	3,278			357			3,635
Feb-04							
Mar-04							
Apr-04							
May-04							
Jun-04							
Jul-04							
Aug-04							
Sep-04		14,992			1,741		

**Exhibit of MUR Issues**  
**Fiscal Year 2001-2004**

SP0600-04-R-0011



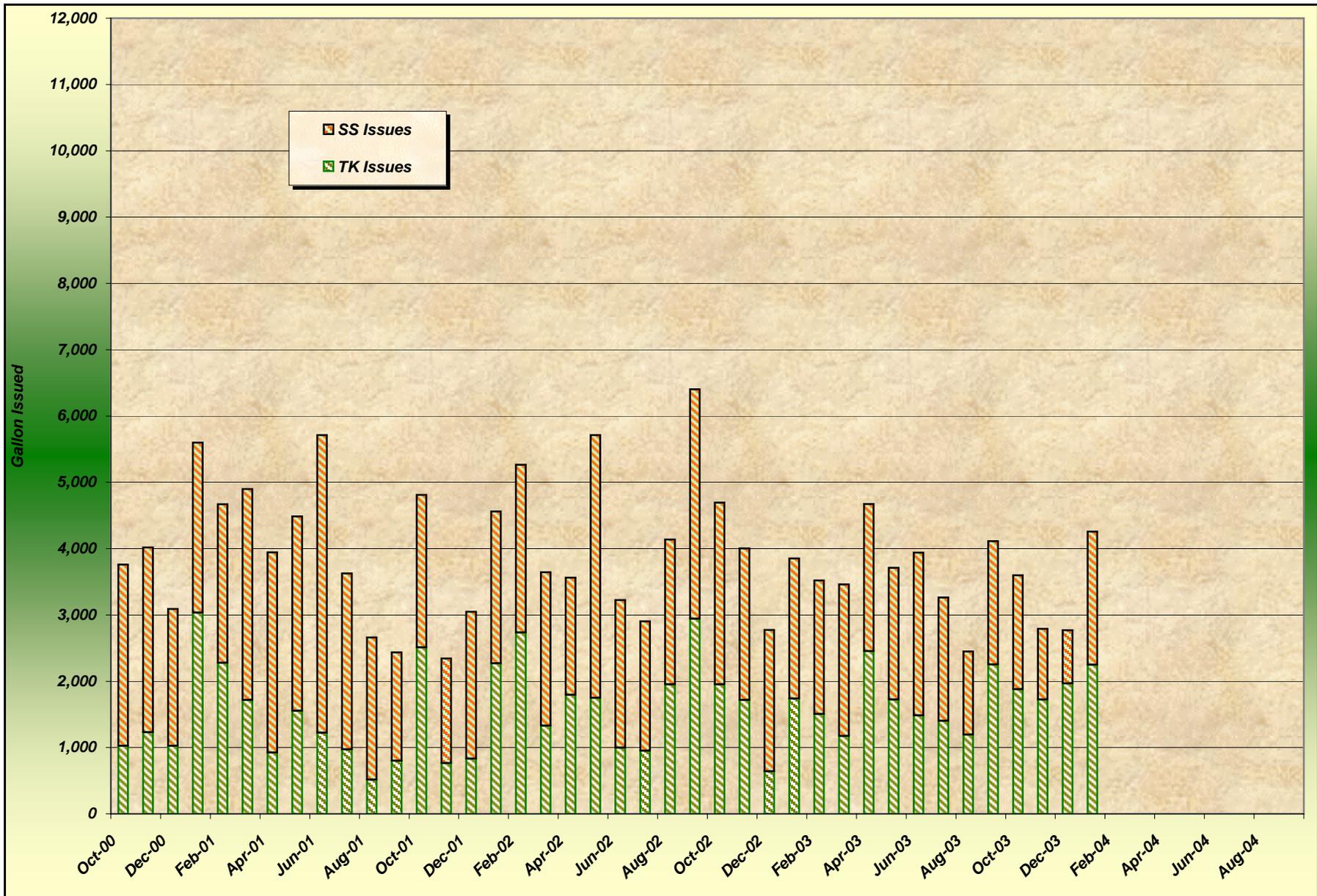
**Exhibit of LS2 Issues, All Modes**

Fiscal Years 2001-2004

Month	TK Issues	FY Total	No.	SS Issues	FY Total	No.	Total
Oct-00	1,025			2,734			3,759
Nov-00	1,230			2,789			4,019
Dec-00	1,026			2,063			3,089
Jan-01	3,034			2,565			5,599
Feb-01	2,277			2,393			4,670
Mar-01	1,718			3,182			4,900
Apr-01	922			3,020			3,942
May-01	1,553			2,932			4,485
Jun-01	1,224			4,490			5,714
Jul-01	973			2,653			3,626
Aug-01	513			2,148			2,661
Sep-01	800	16,295		1,636	32,605		2,436
Oct-01	2,510			2,302			4,812
Nov-01	766			1,577			2,343
Dec-01	831			2,218			3,049
Jan-02	2,270			2,289			4,559
Feb-02	2,735			2,531			5,266
Mar-02	1,329			2,314			3,643
Apr-02	1,793			1,771			3,564
May-02	1,747			3,967			5,714
Jun-02	998			2,228			3,226
Jul-02	952			1,951			2,903
Aug-02	1,953			2,183			4,136
Sep-02	2,942	20,826		3,463	28,794		6,405
Oct-02	1,954			2,741			4,695
Nov-02	1,717			2,288			4,005
Dec-02	643			2,130			2,773
Jan-03	1,737			2,114			3,851
Feb-03	1,506			2,016			3,522
Mar-03	1,172			2,289			3,461
Apr-03	2,452			2,220			4,672
May-03	1,723			1,987			3,710
Jun-03	1,484			2,456			3,940
Jul-03	1,402			1,861			3,263
Aug-03	1,194			1,254			2,448
Sep-03	2,253	19,237		1,861	25,217		4,114
Oct-03	1,880			1,718			3,598
Nov-03	1,725			1,065			2,790
Dec-03	1,968			803			2,771
Jan-04	2,247			2,011			4,258
Feb-04							
Mar-04							
Apr-04							
May-04							
Jun-04							
Jul-04							
Aug-04							
Sep-04		7,820			5,597		

**Exhibit of LS2 Issues**  
**Fiscal Year 2001-2004**

SP0600-04-R-0011



**Exhibit of Ground Fuel Issue Points  
and Delivery Work Schedule**

SP0600-04-R-0011

Bldg. No.	Organization/Name	Tank Character	Grade	Cap.	Work Schedule
512	HAZMAT	GSE	MUR/LS2	Various	Serviced on request.
529	Weapons	GSE	MUR/LS2	Various	Serviced on request.
108	Weapons	GSE	MUR/LS2	Various	Serviced on request.
219	GSE	GSE	MUR/LS2	Various	Serviced on request.
222	GSE	GSE	MUR/LS2	Various	Serviced on request.
523	Medical	GSE	MUR	Various	Serviced on request.
137	Hangar 1	GSE	MUR	Various	Serviced on request.
127	Hangar 2	GSE	MUR	Various	Serviced on request.
112	Hangar 3	GSE	MUR	Various	Serviced on request.
218	Hangar 4	GSE	MUR	Various	Serviced on request.
225	Hangar 5	GSE	MUR	Various	Serviced on request.
524	Hangar 6	GSE	MUR	Various	Serviced on request.
502	Hangar 7	GSE	MUR	Various	Serviced on request.
503	Hangar 8	GSE	MUR	Various	Serviced on request.
505	Hangar 9	GSE	MUR	Various	Serviced on request.
None	Arresting Gear (8 motors/tanks at runway ends)	AST	MUR	50	Topped off weekly
116	Library, Generator	AST	LS2	300	Serviced on request.
120	Sewage Treatment, Generator	AST	LS2	75	Serviced on request.
125	Runway Lighting, Generator	AST	LS2	200	Serviced on request.
130	Tower, Generator	AST	LS2	75	Serviced on request.
137	Fire Department, Generator	AST	LS2	200	Serviced on request.
201	Navy Exchange, Generator	AST	LS2	200	Serviced on request.
285	Base Administration, Generator	AST	LS2	200	Serviced on request.
315	Galley Warehouse, Generator	AST	LS2	500	Serviced on request.
333	Water Treatment, Generator	AST	LS2	300	Serviced on request.
350	Water Treatment, Generator	AST	LS2	75	Serviced on request.
433	Galley, Generator, Generator	AST	LS2	200	Serviced on request.
446	Sewage Lift Station, Generator	AST	LS2	200	Serviced on request.
459	Sewage Lift Station, Generator	AST	LS2	300	Serviced on request.
490	Gym, Generator, Generator	AST	LS2	200	Serviced on request.
492	TACAN, Generator	AST	LS2	300	Serviced on request.
523	Dispensary, Generator	AST	LS2	800	Serviced on request.



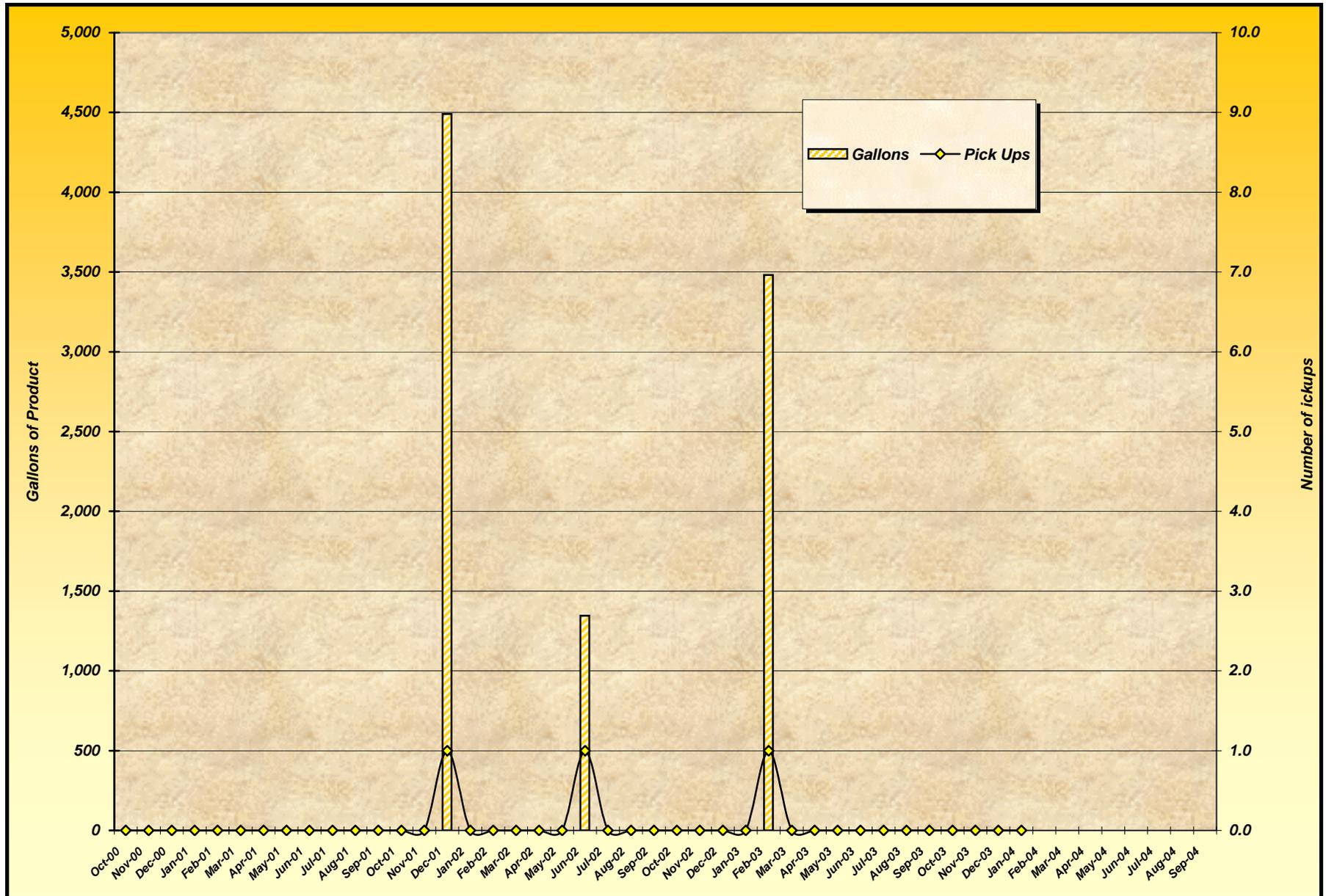
**Exhibit of Used Oil Disposition (DRMO)**

Fiscal Years 2001-2004

	<b>Month</b>	<b>Gallons</b>	<b>Total</b>	<b>Pick Ups</b>	<b>Total</b>	
	Oct-00	0		0		
	Nov-00	0		0		
	Dec-00	0		0		
	Jan-01	0		0		
	Feb-01	0		0		
	Mar-01	0		0		
	Apr-01	0		0		
	May-01	0		0		
	Jun-01	0		0		
	Jul-01	0		0		
	Aug-01	0		0		
	Sep-01	0	0	0	0	
	Oct-01	0		0		
	Nov-01	0		0		
	Dec-01	4,491		1		
	Jan-02	0		0		
	Feb-02	0		0		
	Mar-02	0		0		
	Apr-02	0		0		
	May-02	0		0		
	Jun-02	1,346		1		
	Jul-02	0		0		
	Aug-02	0		0		
	Sep-02	0	5,837	0	2	
	Oct-02	0		0		
	Nov-02	0		0		
	Dec-02	0		0		
	Jan-03	0		0		
	Feb-03	3,481		1		
	Mar-03	0		0		
	Apr-03	0		0		
	May-03	0		0		
	Jun-03	0		0		
	Jul-03	0		0		
	Aug-03	0		0		
	Sep-03	0	3,481	0	1	
	Oct-03	0		0		
	Nov-03	0		0		
	Dec-03	0		0		
	Jan-04	0		0		
	Feb-04					
	Mar-04					
	Apr-04					
	May-04					
	Jun-04					
	Jul-04					
	Aug-04					
	Sep-04		0		0	

**Exhibit of Used Oil Handling**  
Fiscal Year 2001-2004

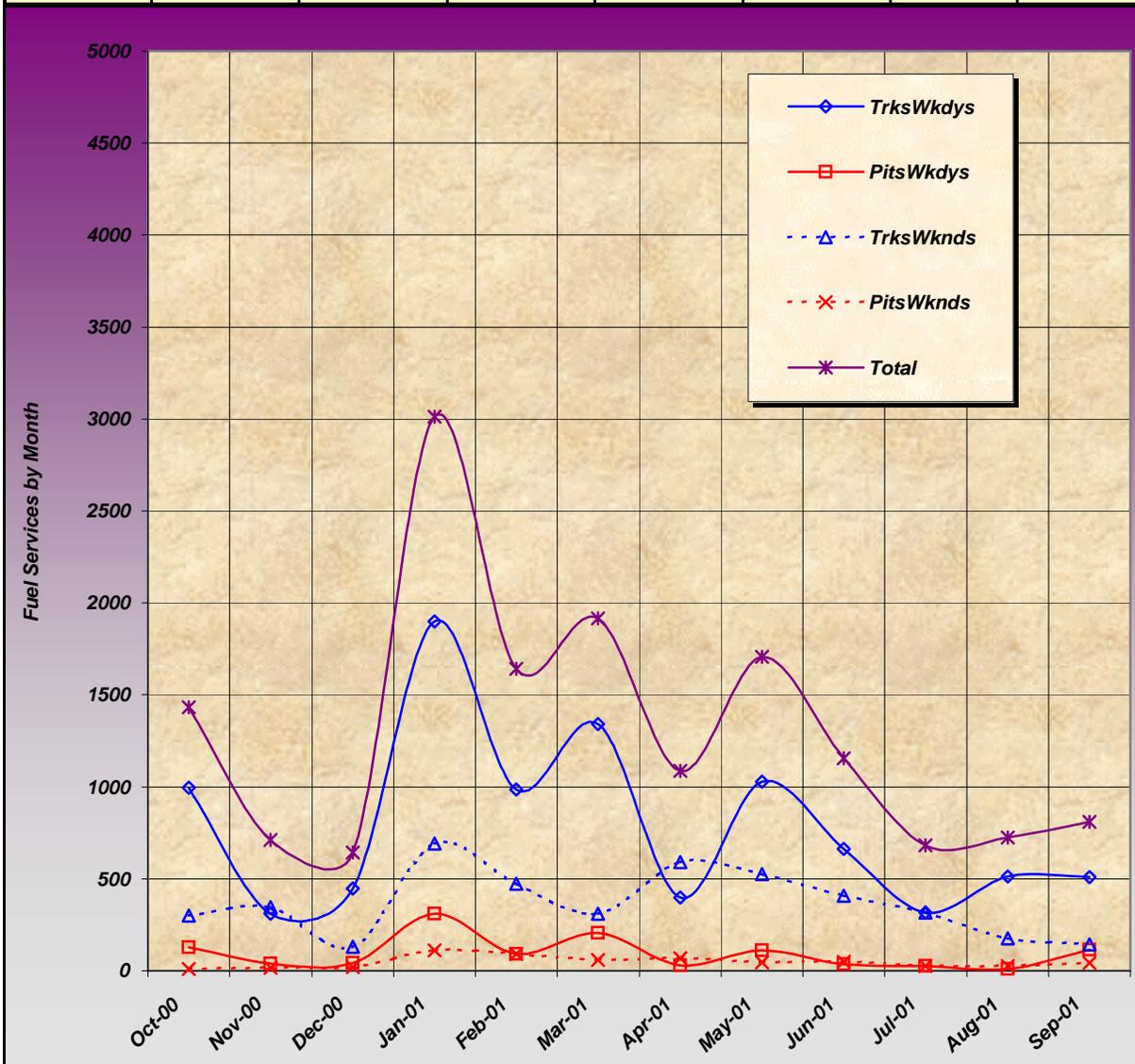
SP0600-04-R-0011



### Exhibit of Refueling Services for FY01

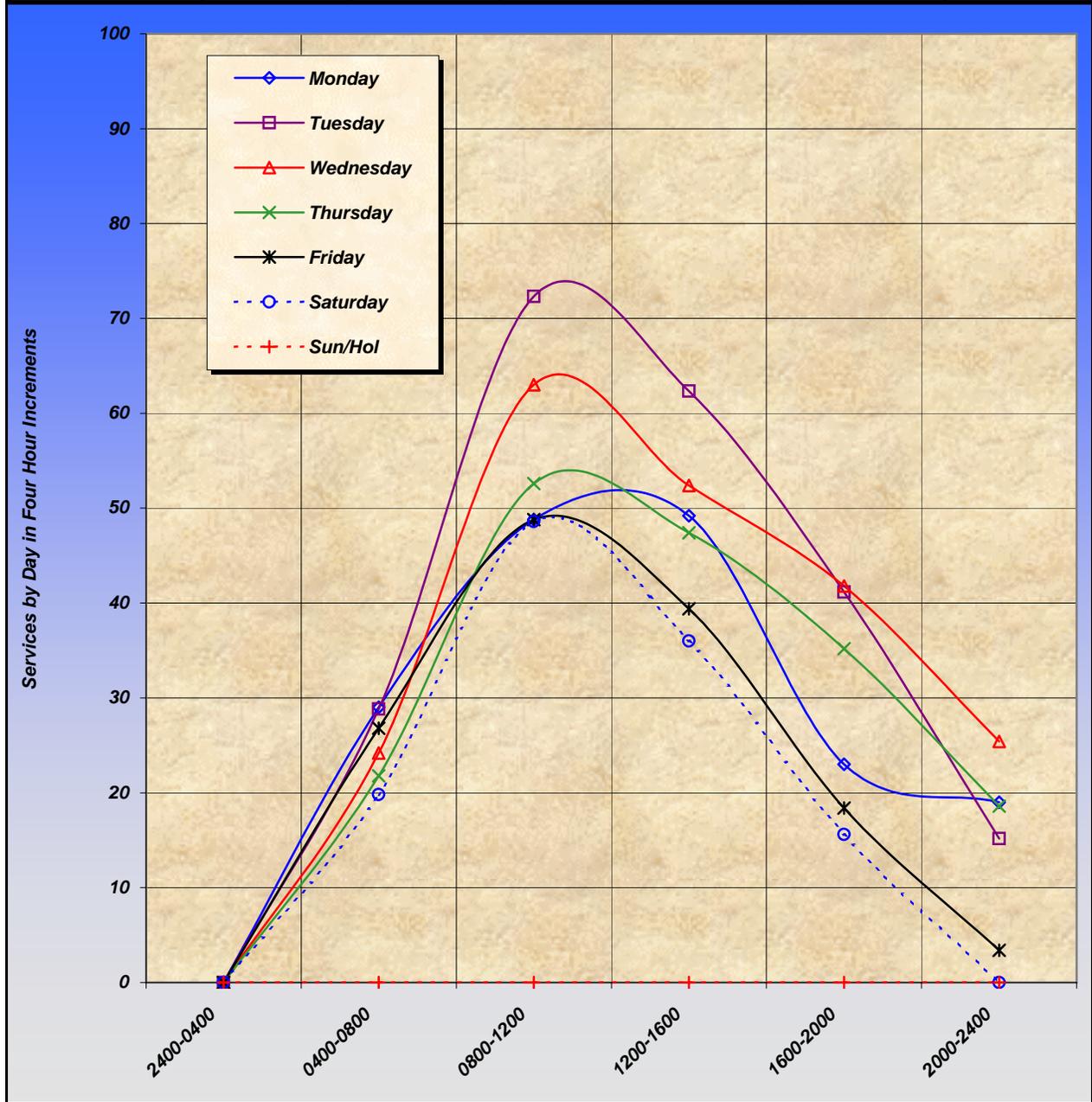
#### Type of Refueling Services and Total by Month

Month	TrksWkdys	PitsWkdys	TrksWknds	PitsWknds	TotalTrks	TotalPits	Total
Oct-00	996	128	300	10	1296	138	1434
Nov-00	310	40	346	17	656	57	713
Dec-00	446	44	132	20	578	64	642
Jan-01	1899	311	692	110	2591	421	3012
Feb-01	986	92	473	91	1459	183	1642
Mar-01	1340	206	310	59	1650	265	1915
Apr-01	398	31	592	67	990	98	1088
May-01	1028	110	524	46	1552	156	1708
Jun-01	663	37	407	49	1070	86	1156
Jul-01	315	25	315	27	630	52	682
Aug-01	512	10	177	26	689	36	725
Sep-01	510	113	145	43	655	156	811
<b>Year Total</b>	<b>9403</b>	<b>1147</b>	<b>4413</b>	<b>565</b>	<b>13816</b>	<b>1712</b>	<b>15528</b>



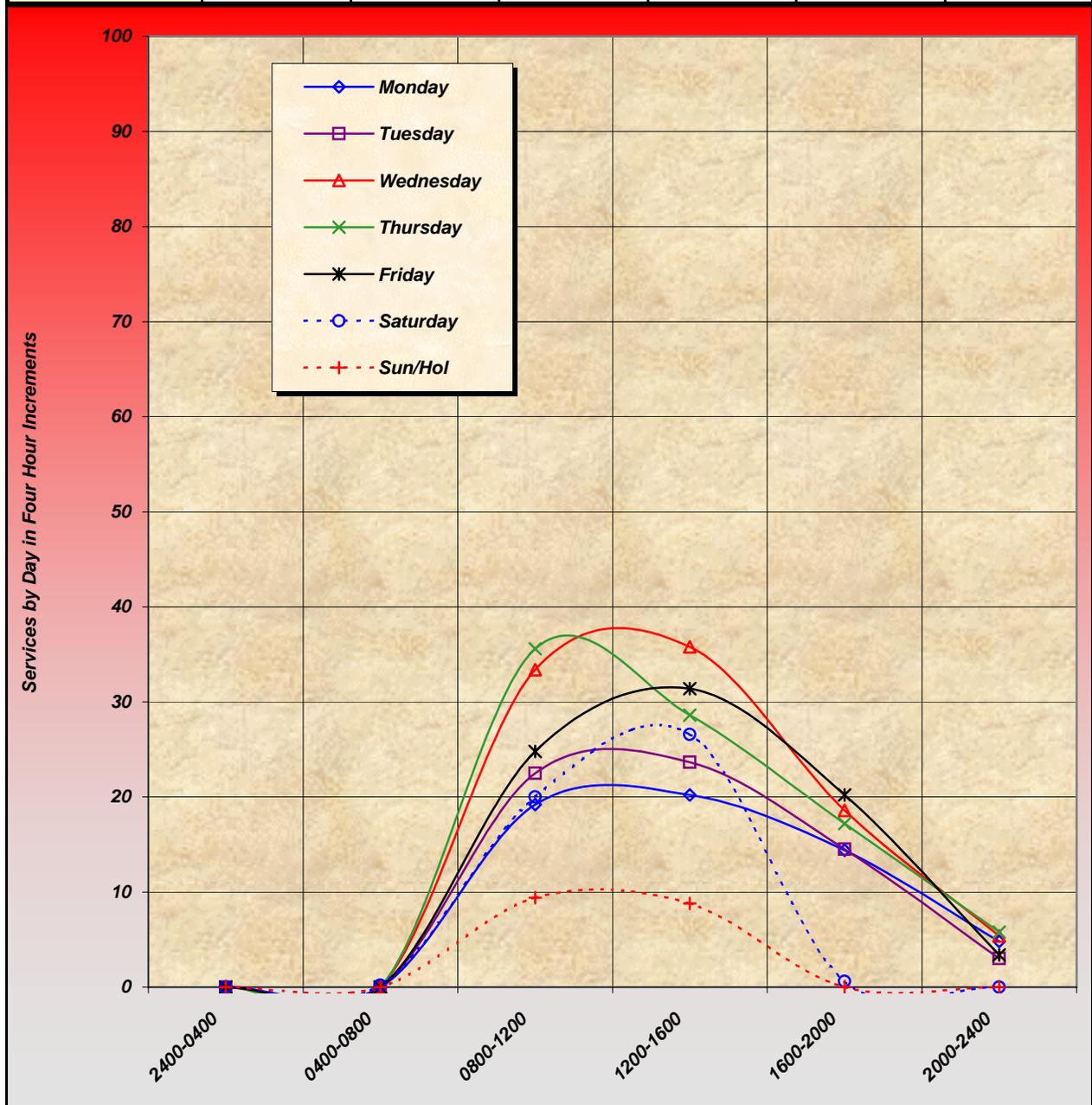
### Exhibit of Refueling Services for FY01 Typical Truck Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	29	49	49	23	19
Tuesday	0	29	72	62	41	15
Wednesday	0	24	63	52	42	25
Thursday	0	22	53	47	35	19
Friday	0	27	49	39	18	3
Saturday	0	20	49	36	16	0
Sun/Hol	0	0	0	0	0	0



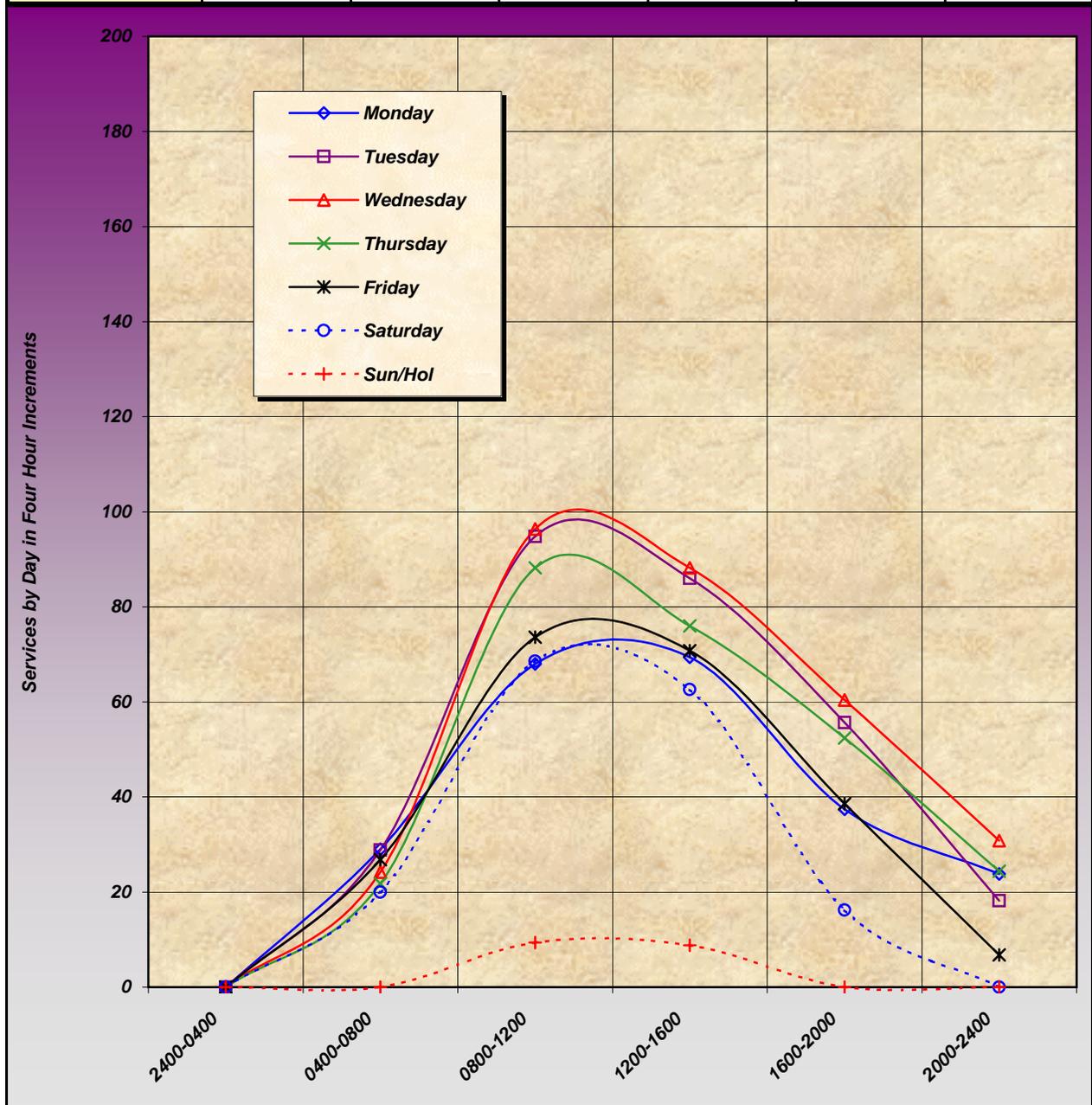
### Exhibit of Refueling Services for FY01 Typical Pit Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	0	19	20	14	5
Tuesday	0	0	23	24	15	3
Wednesday	0	0	33	36	19	5
Thursday	0	0	36	29	17	6
Friday	0	0	25	31	20	3
Saturday	0	0	20	27	1	0
Sun/Hol	0	0	9	9	0	0



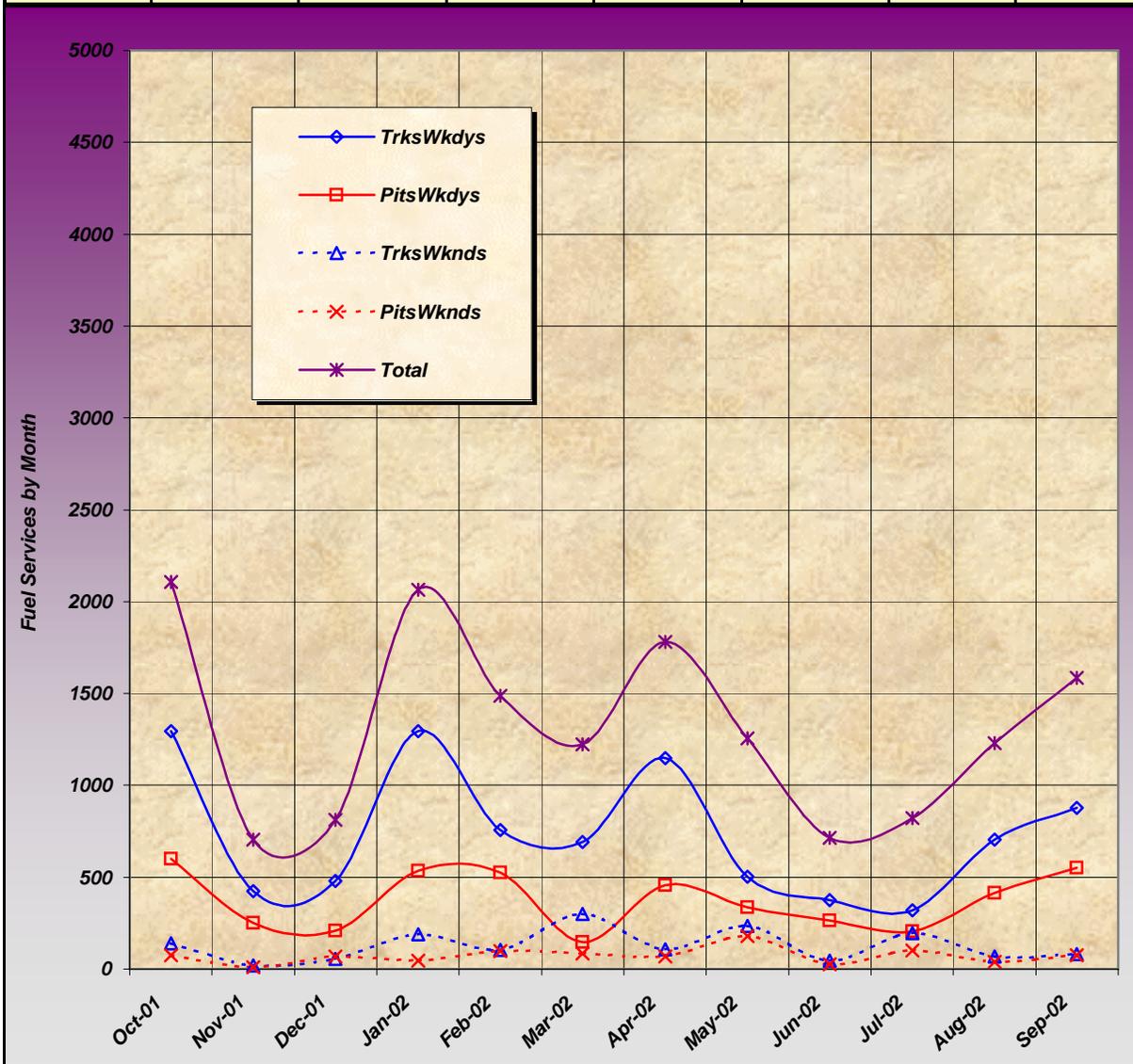
### Exhibit of Refueling Services for FY01 Total Fuel Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	29	68	69	37	24
Tuesday	0	29	95	86	56	18
Wednesday	0	24	96	88	60	31
Thursday	0	22	88	76	52	24
Friday	0	27	74	71	39	7
Saturday	0	20	69	63	16	0
Sun/Hol	0	0	9	9	0	0



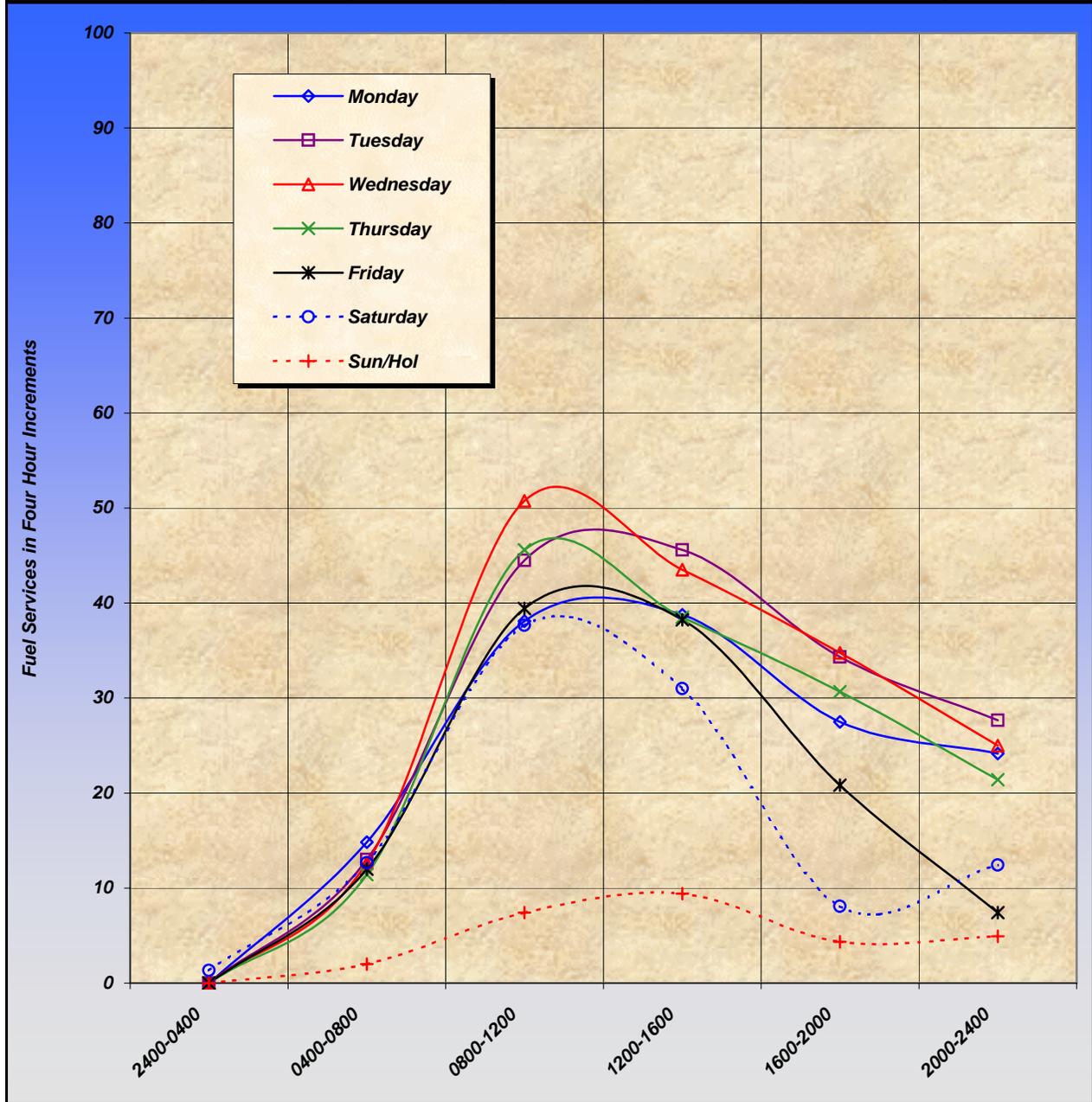
### Exhibit of Refueling Services for FY02 Type of Refueling Services and Total by Month

Month	TrksWkdys	PitsWkdys	TrksWknds	PitsWknds	TotalTrks	TotalPits	Total
Oct-01	1295	599	139	75	1434	674	2108
Nov-01	424	251	19	11	443	262	705
Dec-01	478	208	56	70	534	278	812
Jan-02	1294	535	188	46	1482	581	2063
Feb-02	758	524	105	99	863	623	1486
Mar-02	693	146	300	85	993	231	1224
Apr-02	1148	457	107	68	1255	525	1780
May-02	503	336	236	180	739	516	1255
Jun-02	376	264	46	27	422	291	713
Jul-02	319	205	197	102	516	307	823
Aug-02	706	414	70	40	776	454	1230
Sep-02	878	552	82	74	960	626	1586
<b>Year Total</b>	<b>8872</b>	<b>4491</b>	<b>1545</b>	<b>877</b>	<b>10417</b>	<b>5368</b>	<b>15785</b>



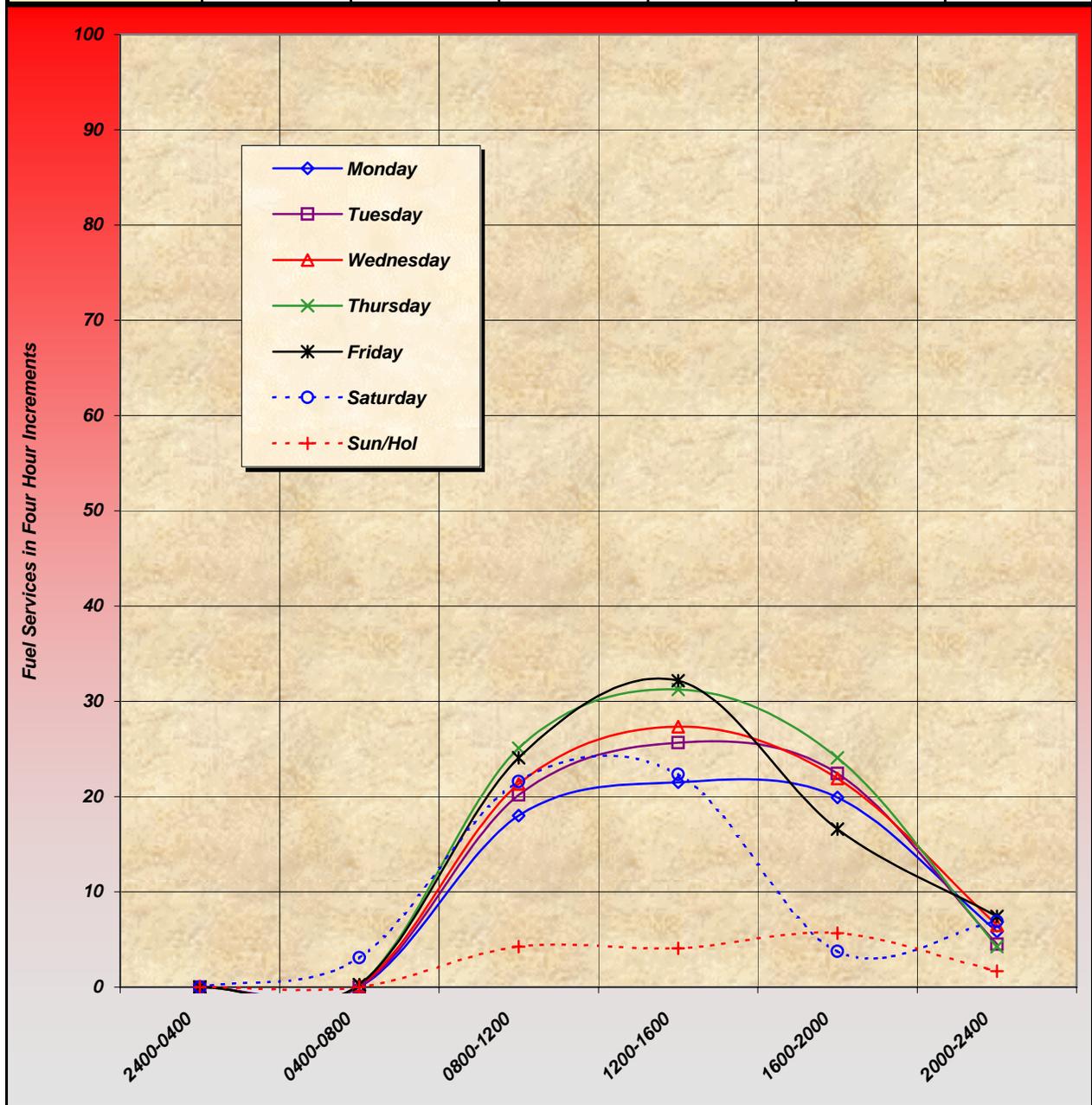
### Exhibit of Refueling Services for FY02 Typical Truck Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	15	38	39	28	24
Tuesday	0	13	45	46	34	28
Wednesday	0	13	51	44	35	25
Thursday	0	11	46	39	31	21
Friday	0	12	39	38	21	7
Saturday	1	13	38	31	8	12
Sun/Hol	0	2	7	9	4	5



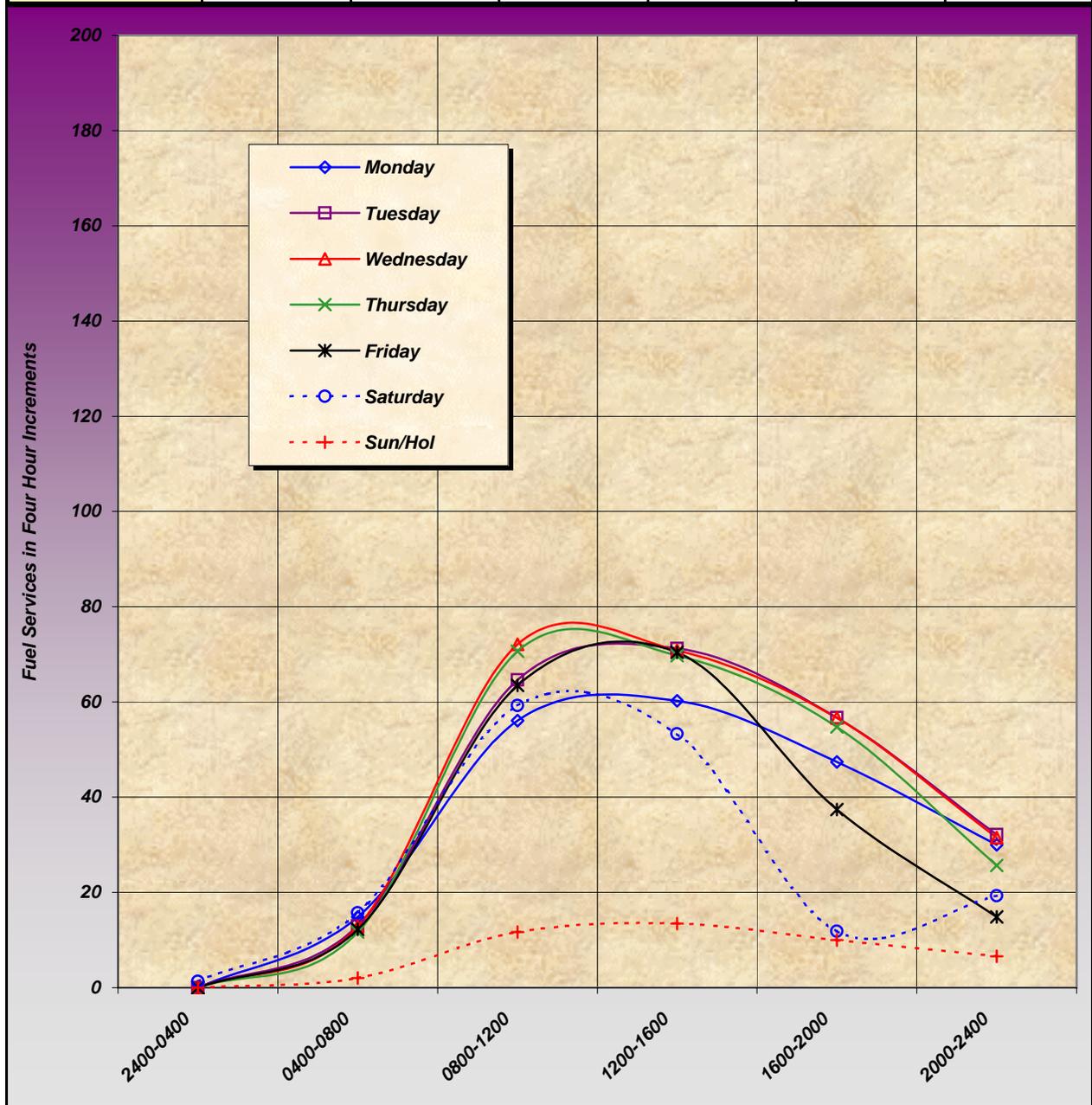
### Exhibit of Refueling Services for FY02 Typical Pit Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	0	18	22	20	6
Tuesday	0	0	20	26	22	5
Wednesday	0	0	21	27	22	7
Thursday	0	0	25	31	24	4
Friday	0	0	24	32	17	7
Saturday	0	3	22	22	4	7
Sun/Hol	0	0	4	4	6	2



### Exhibit of Refueling Services for FY02 Total Fuel Services Workload by Day of the Week

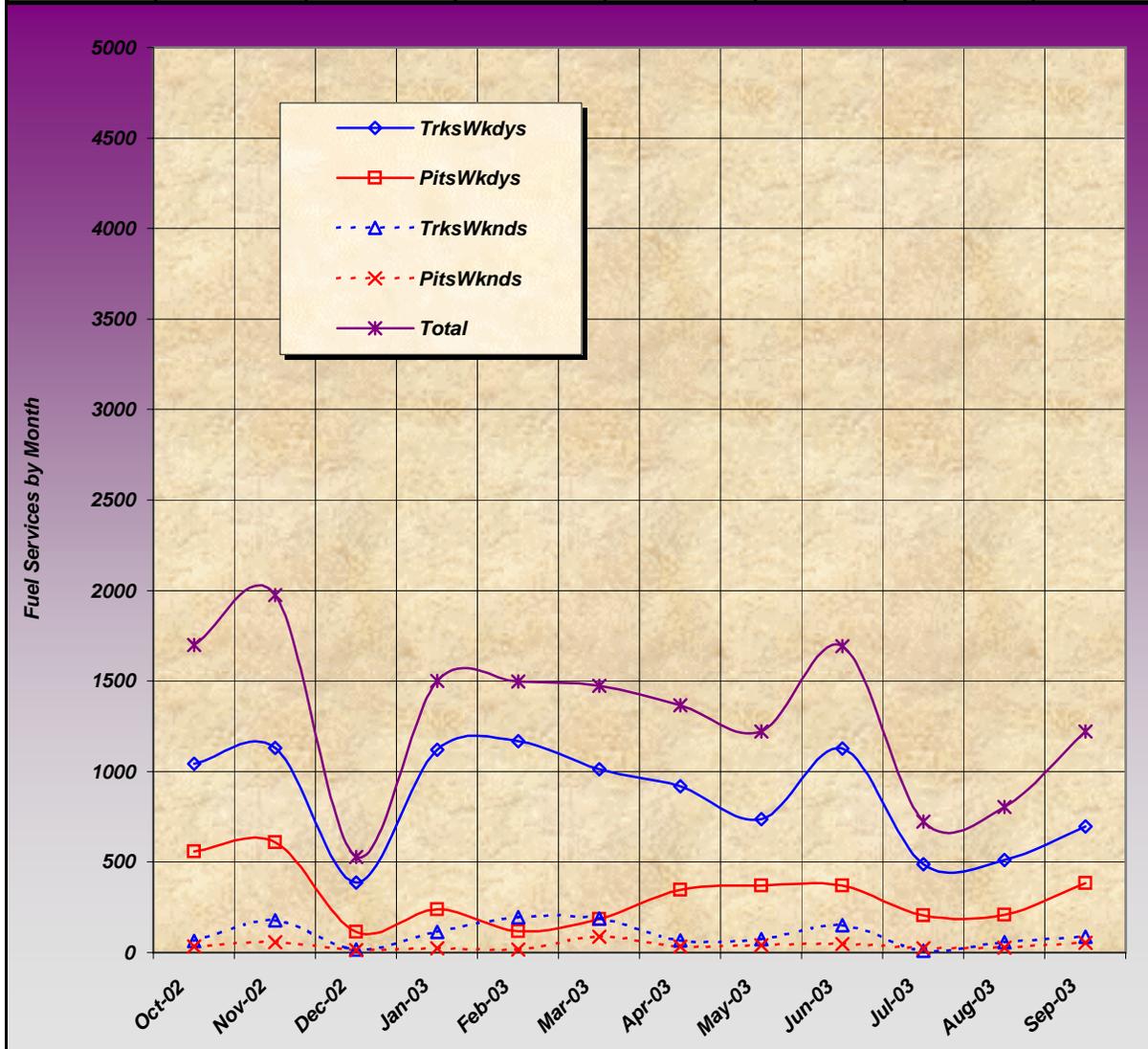
Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	15	56	60	47	30
Tuesday	0	13	65	71	57	32
Wednesday	0	13	72	71	57	32
Thursday	0	12	71	70	55	26
Friday	0	12	64	70	37	15
Saturday	1	16	59	53	12	19
Sun/Hol	0	2	12	14	10	7



### Exhibit of Refueling Services for FY03

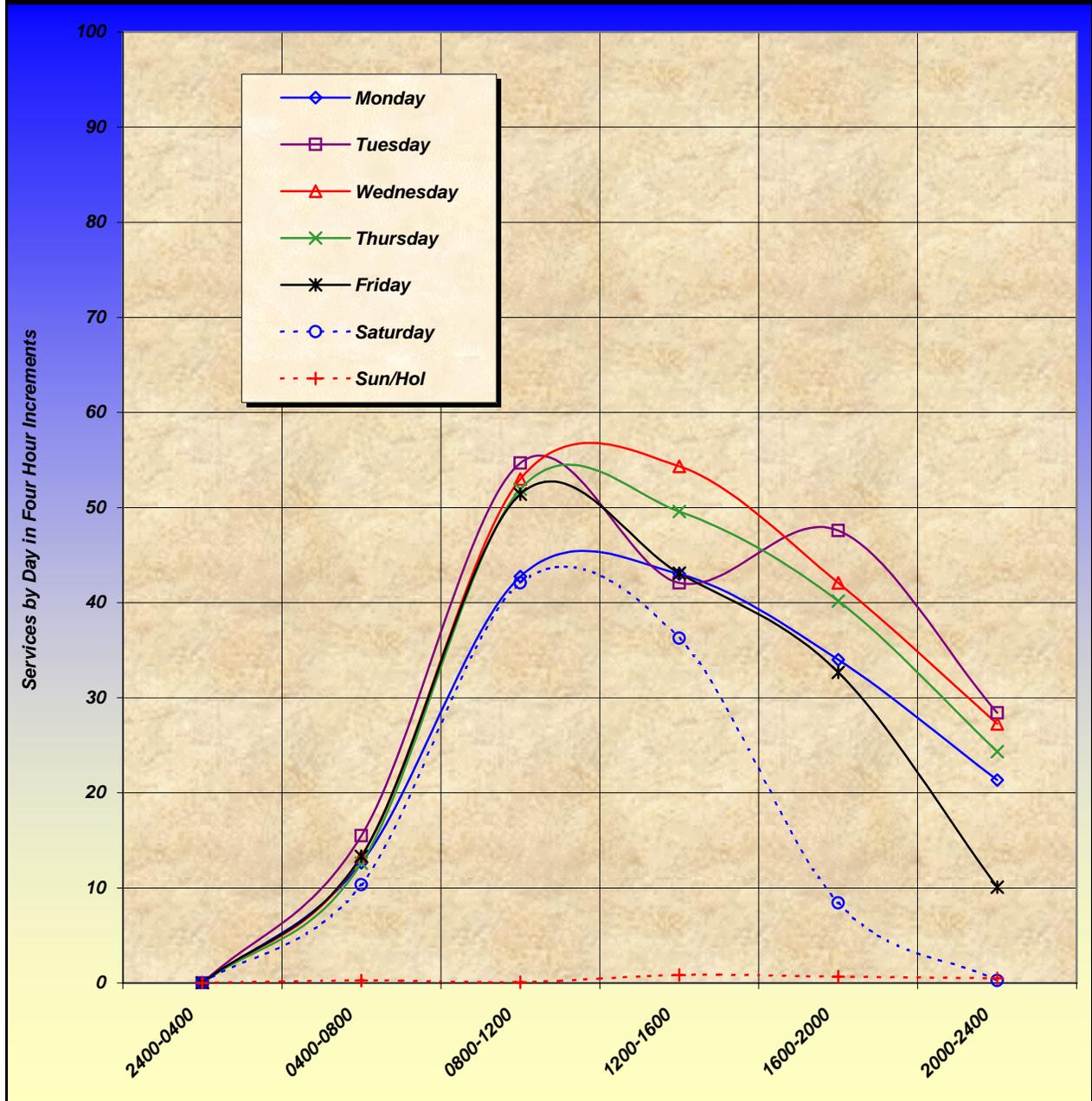
#### Type of Refueling Services and Total by Month

Month	TrksWkdys	PitsWkdys	TrksWknds	PitsWknds	TotalTrks	TotalPits	Total
Oct-02	1043	558	65	33	1108	591	1699
Nov-02	1129	609	179	58	1308	667	1975
Dec-02	386	114	17	12	403	126	529
Jan-03	1122	240	113	24	1235	264	1499
Feb-03	1166	118	196	16	1362	134	1496
Mar-03	1014	186	187	88	1201	274	1475
Apr-03	919	346	67	34	986	380	1366
May-03	737	369	73	42	810	411	1221
Jun-03	1126	370	151	47	1277	417	1694
Jul-03	487	204	10	22	497	226	723
Aug-03	511	209	57	26	568	235	803
Sep-03	698	382	89	53	787	435	1222
<b>Year Total</b>	<b>10338</b>	<b>3705</b>	<b>1204</b>	<b>455</b>	<b>11542</b>	<b>4160</b>	<b>15702</b>



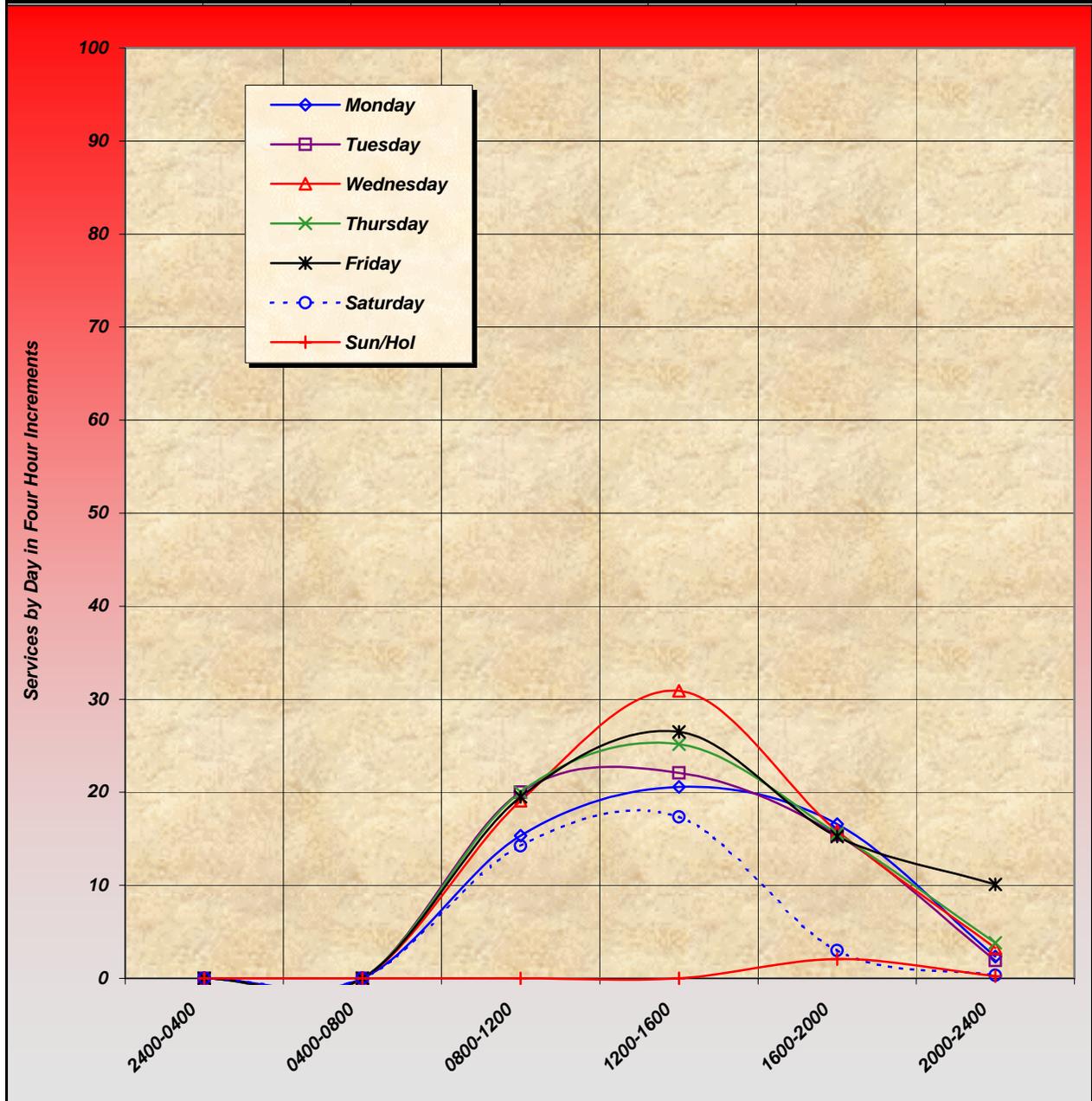
### Exhibit of Refueling Services for FY03 Typical Truck Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	13	43	43	34	21
Tuesday	0	16	55	42	48	28
Wednesday	0	13	53	54	42	27
Thursday	0	13	52	50	40	24
Friday	0	13	51	43	33	10
Saturday	0	10	42	36	8	0
Sun/Hol	0	0	0	1	1	1



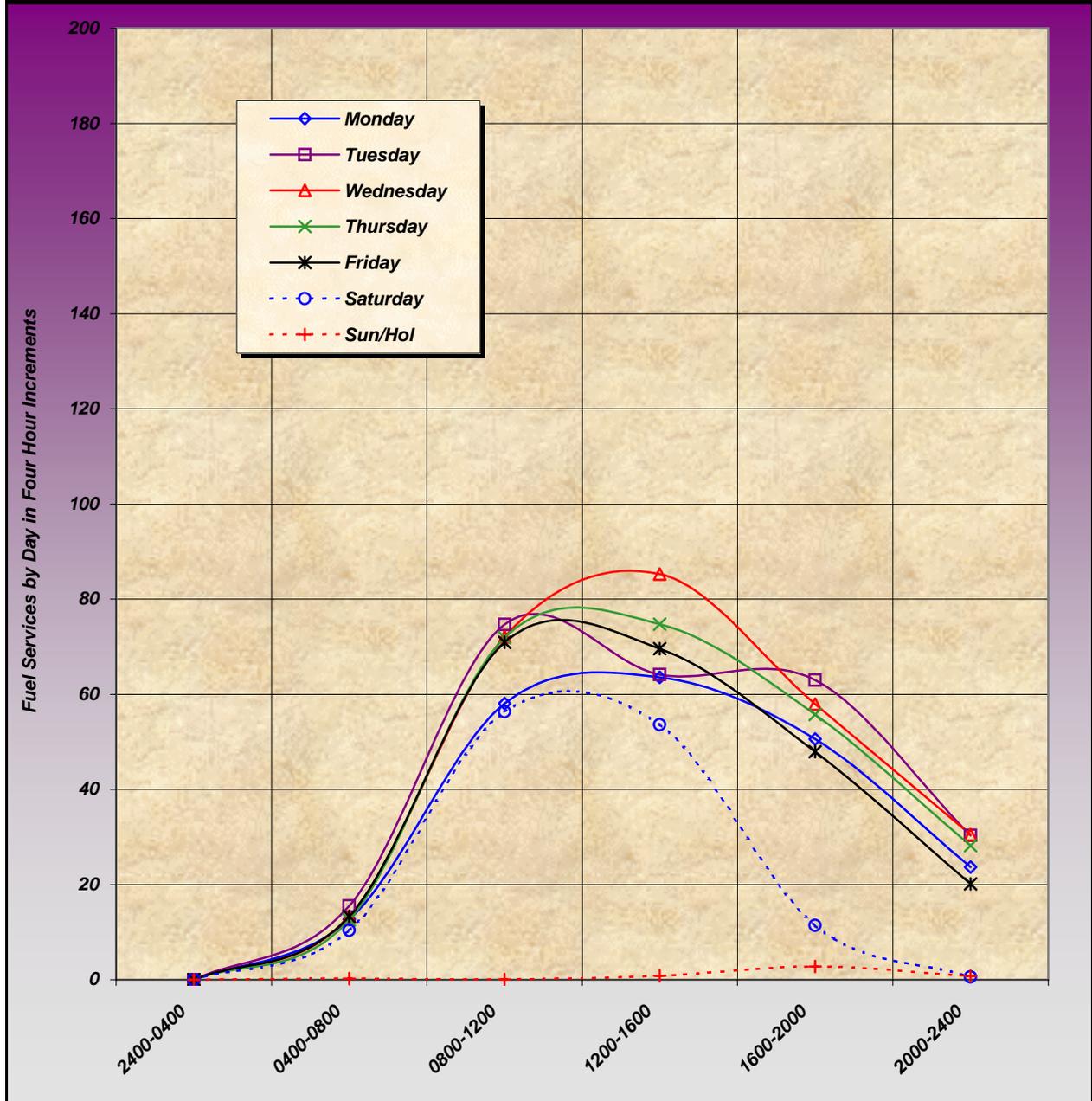
### Exhibit of Refueling Services for FY03 Typical Pit Services Workload by Day of the Week

Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	0	15	21	17	2
Tuesday	0	0	20	22	15	2
Wednesday	0	0	19	31	16	3
Thursday	0	0	20	25	16	4
Friday	0	0	20	27	15	10
Saturday	0	0	14	17	3	0
Sun/Hol	0	0	0	0	2	0



### Exhibit of Refueling Services for FY03 Total Fuel Services Workload by Day of the Week

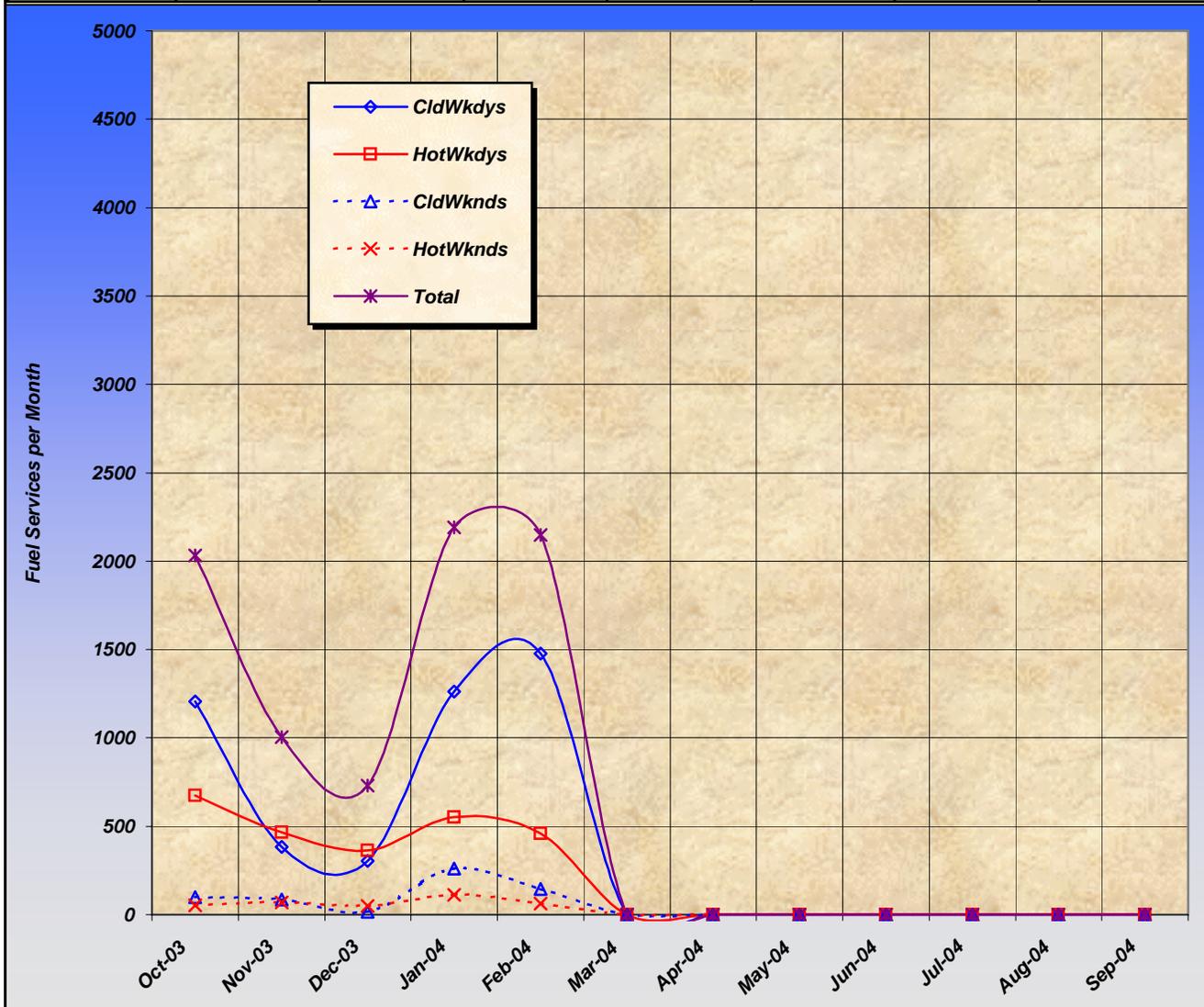
Day	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400
Monday	0	13	58	64	51	24
Tuesday	0	16	75	64	63	30
Wednesday	0	13	72	85	58	31
Thursday	0	13	72	75	56	28
Friday	0	13	71	70	48	20
Saturday	0	10	56	54	11	1
Sun/Hol	0	0	0	1	3	1



### Exhibit of Refueling Services for FY04

#### Type of Refueling Services and Total by Month

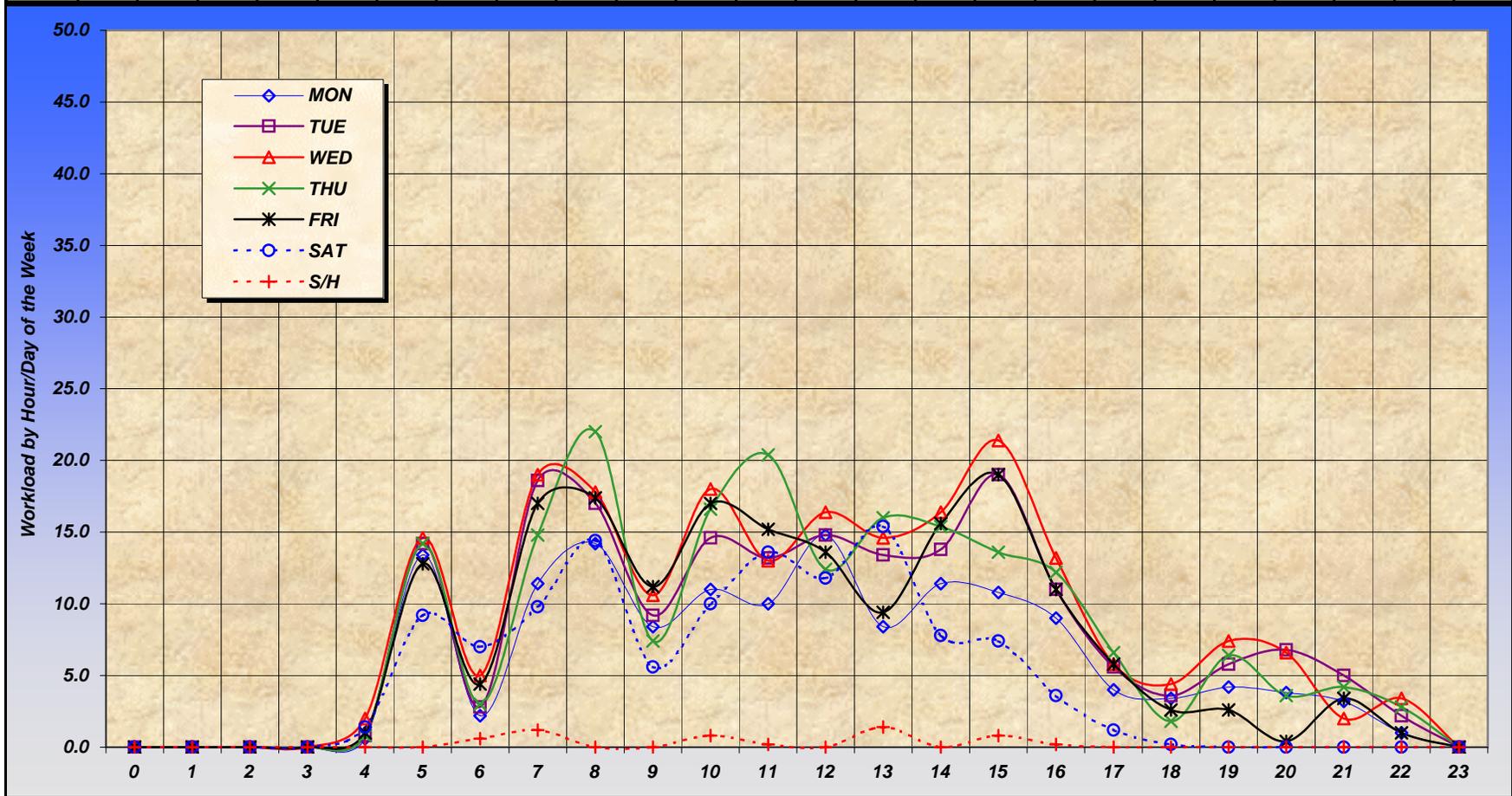
Month	CldWkdys	HotWkdys	CldWknds	HotWknds	TotalCold	TotalHot	Total
Oct-03	1207	673	98	53	1305	726	2031
Nov-03	382	465	87	71	469	536	1005
Dec-03	303	363	17	48	320	411	731
Jan-04	1264	552	261	113	1525	665	2190
Feb-04	1478	459	147	64	1625	523	2148
Mar-04	0	0	0	0	0	0	0
Apr-04	0	0	0	0	0	0	0
May-04	0	0	0	0	0	0	0
Jun-04	0	0	0	0	0	0	0
Jul-04	0	0	0	0	0	0	0
Aug-04	0	0	0	0	0	0	0
Sep-04	0	0	0	0	0	0	0
<b>Year Total</b>	<b>4634</b>	<b>2512</b>	<b>610</b>	<b>349</b>	<b>5244</b>	<b>2861</b>	<b>8105</b>



### Exhibit of Truck (Cold Refueling) Services for FY04

SP0600-04-R-0011

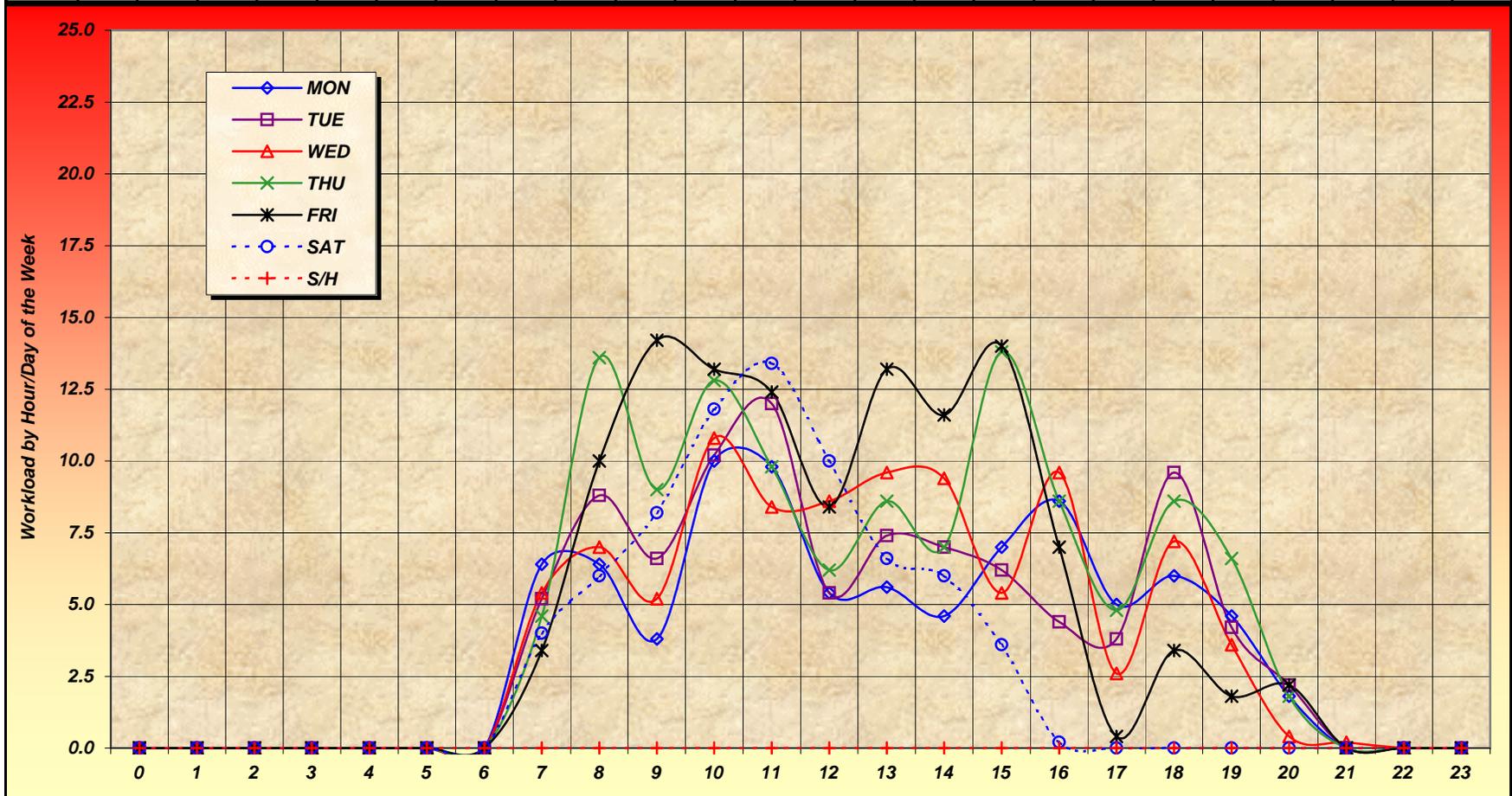
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
<b>MON</b>	0.0	0.0	0.0	0.0	0.6	13.4	2.2	11.4	14.2	8.4	11.0	10.0	14.8	8.4	11.4	10.8	9.0	4.0	3.4	4.2	3.8	3.2	1.0	0.0
<b>TUE</b>	0.0	0.0	0.0	0.0	0.8	14.2	2.8	18.6	17.0	9.2	14.6	13.2	14.8	13.4	13.8	19.0	11.0	5.6	3.6	5.8	6.8	5.0	2.2	0.0
<b>WED</b>	0.0	0.0	0.0	0.0	2.0	14.6	5.0	19.0	17.8	10.6	18.0	13.0	16.4	14.6	16.4	21.4	13.2	5.8	4.4	7.4	6.6	2.0	3.4	0.0
<b>THU</b>	0.0	0.0	0.0	0.0	0.8	14.2	3.0	14.8	22.0	7.4	16.6	20.4	12.4	16.0	15.4	13.6	12.2	6.6	1.8	6.4	3.6	4.2	2.8	0.0
<b>FRI</b>	0.0	0.0	0.0	0.0	1.0	12.8	4.4	17.0	17.4	11.2	17.0	15.2	13.6	9.4	15.6	19.0	11.0	5.8	2.6	2.6	0.4	3.4	1.0	0.0
<b>SAT</b>	0.0	0.0	0.0	0.0	1.4	9.2	7.0	9.8	14.4	5.6	10.0	13.6	11.8	15.4	7.8	7.4	3.6	1.2	0.2	0.0	0.0	0.0	0.0	0.0
<b>S/H</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	0.0	0.0	0.8	0.2	0.0	1.4	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0



### Exhibit of Pit (Hot Refueling) Services for FY04

SP0600-04-R-0011

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
<b>MON</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	6.4	3.8	10.0	9.8	5.4	5.6	4.6	7.0	8.6	5.0	6.0	4.6	1.8	0.0	0.0	0.0
<b>TUE</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.8	6.6	10.2	12.0	5.4	7.4	7.0	6.2	4.4	3.8	9.6	4.2	2.2	0.0	0.0	0.0
<b>WED</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	7.0	5.2	10.8	8.4	8.6	9.6	9.4	5.4	9.6	2.6	7.2	3.6	0.4	0.2	0.0	0.0
<b>THU</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	13.6	9.0	12.8	9.8	6.2	8.6	7.0	13.8	8.6	4.8	8.6	6.6	1.8	0.0	0.0	0.0
<b>FRI</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	10.0	14.2	13.2	12.4	8.4	13.2	11.6	14.0	7.0	0.4	3.4	1.8	2.2	0.0	0.0	0.0
<b>SAT</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	6.0	8.2	11.8	13.4	10.0	6.6	6.0	3.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>S/H</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



### Exhibit of All Refueling Services for FY04

SP0600-04-R-0011

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
<b>MON</b>	0.0	0.0	0.0	0.0	0.6	13.4	2.2	17.8	20.6	12.2	21.0	19.8	20.2	14.0	16.0	17.8	17.6	9.0	9.4	8.8	5.6	3.2	1.0	0.0
<b>TUE</b>	0.0	0.0	0.0	0.0	0.8	14.2	2.8	23.8	25.8	15.8	24.8	25.2	20.2	20.8	20.8	25.2	15.4	9.4	13.2	10.0	9.0	5.0	2.2	0.0
<b>WED</b>	0.0	0.0	0.0	0.0	2.0	14.6	5.0	24.4	24.8	15.8	28.8	21.4	25.0	24.2	25.8	26.8	22.8	8.4	11.6	11.0	7.0	2.2	3.4	0.0
<b>THU</b>	0.0	0.0	0.0	0.0	0.8	14.2	3.0	19.4	35.6	16.4	29.4	30.2	18.6	24.6	22.4	27.4	20.8	11.4	10.4	13.0	5.4	4.2	2.8	0.0
<b>FRI</b>	0.0	0.0	0.0	0.0	1.0	12.8	4.4	20.4	27.4	25.4	30.2	27.6	22.0	22.6	27.2	33.0	18.0	6.2	6.0	4.4	2.6	3.4	1.0	0.0
<b>SAT</b>	0.0	0.0	0.0	0.0	1.4	9.2	7.0	13.8	20.4	13.8	21.8	27.0	21.8	22.0	13.8	11.0	3.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0
<b>S/H</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	0.0	0.0	0.8	0.2	0.0	1.4	0.0	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

