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Document Coversheet

Document Description

N68936-04-D-0032 CONTRACT

- This document has been released in its entirety.**
- Portions of this document have been excised pursuant to the Freedom of Information Act. The applicable portions(s) excised and the exemption(s) applied are indicated below.**
- Exemption (b)(1) Information excised is properly and currently classified in the interest of national defense or foreign policy.
- Exemption (b)(2) Information excised is related solely to the internal rules and practices of the Agency.
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- Exemption (b)(4) Information excised is commercial or financial information received from outside the Government and is likely to cause substantial harm to the competitive position of the source providing the information.
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- Exemption (b)(6) Information excised is Personal information which if disclosed would result in an unwarranted invasion of personal privacy.
- Exemption (b)(7) Information excised is investigatory records or information compiled for law enforcement purposes.
- Exemption (b)(8) Information excised is records for the use of any agency responsible for the regulation or supervision of financial institutions.
- Exemption (b)(9) Information excised is records containing geological and geophysical information (including maps) concerning wells.

Please direct inquiries regarding this document to:

Commander (Code K00000D FOIA)
Naval Air Warfare Center Weapons Division
1 Administration Circle Stop 1009
China Lake, CA 93555-6100

AWARD/CONTRACT		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING DO-S1	PAGE OF PAGES 1 48	
2. CONTRACT (Proc. Inst. Ident.) NO. N68936-04-D-0032		3. EFFECTIVE DATE 01 Oct 2004		4. REQUISITION/PURCHASE REQUEST/PROJECT NO. 0010084275		
5. ISSUED BY CDR NAWCWD CODE 210000D ATTN: L ALDRIDGE (780) 939-2799 429 E BOWEN RD - STCP 4015 CHINA LAKE CA 93555-8108		CODE N68936	6. ADMINISTERED BY (If other than Item 5) DCMA LOS ANGELES 16111 PLUMMER STREET BLDG 10, 2ND FLOOR SEPULVEDA CA 91343		CODE S0512A	
7. NAME AND ADDRESS OF CONTRACTOR (No. street, city, county, state and zip code) SYSTEMS APPLICATION & TECHNOLOGIES INC GEOFF DEZAVALA DBA: SA-TECH 2230 STATHAM BLVD STE A Oxnard CA 93033			8. DELIVERY <input type="checkbox"/> FOB ORIGIN <input checked="" type="checkbox"/> OTHER (See below)			
			9. DISCOUNT FOR PROMPT PAYMENT			
			10. SUBMIT INVOICES (4 copies unless otherwise specified) TO THE ADDRESS SHOWN IN:		ITEM	
CODE 0KEB4		FACILITY CODE				
11. SHIP TO/MARK FOR See Schedule		CODE	12. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER WEST ENTITLEMENT OPERATIONS PO BOX 182381 COLUMBUS OH 43218-2381		CODE HQ0330	
13. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)			14. ACCOUNTING AND APPROPRIATION DATA See Schedule			
15A. ITEM NO.	15B. SUPPLIES/ SERVICES	15C. QUANTITY	15D. UNIT	15E. UNIT PRICE	15F. AMOUNT	
SEE SCHEDULE						
15G. TOTAL AMOUNT OF CONTRACT					\$8,678,440.00	
16. TABLE OF CONTENTS						
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CONTRACTING OFFICER WILL COMPLETE ITEM 17 OR 18 AS APPLICABLE						
17. <input checked="" type="checkbox"/> CONTRACTOR'S NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)			18. <input type="checkbox"/> AWARD (Contractor is not required to sign this document.) Your offer on Solicitation Number N68936-04-R-0017-0001 including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.			
19A. NAME AND TITLE OF SIGNER (Type or print)			20A. NAME AND TITLE OF CONTRACTING OFFICER DIANE E FOUCHER / PROCUREMENT CONTRACTING OFFICE TEL: (760) 939-8160 EMAIL: diane.foucher@navy.mil			
19B. NAME OF CONTRACTOR BY _____ (Signature of person authorized to sign)		19C. DATE SIGNED	20B. UNITED STATES OF AMERICA BY <i>Diane E. Foucher</i> (Signature of Contracting Officer)		20C. DATE SIGNED 29-Sep-2004	

Section A - Solicitation/Contract Form

CLAUSES INCORPORATED BY FULL TEXT

FOR YOUR INFORMATION: The following addresses and point of contacts are provided:

Name: Liz Aldridge
Phone: (760) 939-2799
DSN: 437-2799
FAX: (760) 939-9651
Email address: martha.aldridge@navy.mil

U.S. Postal Service Mailing Address:

COMMANDER
CODE 210000D (Liz Aldridge – 760-939-2799)
NAVAIRWARCENWPNDIV
429 E. BOWEN ROAD - STOP 4015
CHINA LAKE, CA 93555-6108

Direct Delivery Address (UPS, FedEx, etc):

COMMANDER
CODE 210000D (Liz Aldridge)
NAVAIRWARCENWPNDIV
BLDG 20259, RM 4-MAILROOM
CHINA LAKE, CA 93555-6100

CONTRACTING OFFICER

Name: Diane Foucher
Phone: (760) 939-8160
DSN: 437-8160
FAX: (760) 939-9651
Email address: diane.foucher@navy.mil

U.S. Postal Service Mailing Address:

COMMANDER
CODE 210000D (D. Foucher – 760-939-2799)
NAVAIRWARCENWPNDIV
429 E. BOWEN ROAD - STOP 4015
CHINA LAKE, CA 93555-6108

Direct Delivery Address (UPS, FedEx, etc):

COMMANDER
CODE 210000D (D. Foucher)
NAVAIRWARCENWPNDIV
BLDG 20259, RM 1-MAILROOM
CHINA LAKE, CA 93555-6100

NOTES TO OFFEROR

Notes to Offerors:

1. This procurement will be awarded as a Performance-Based Contract in accordance with FAR Part 37.6. Each individual task order awarded under this contract will identify measurable performance standards, quality assurance surveillance plans and procedures for reduction of fee if services are not performed or do not meet contract requirements.

2. The Government will consider any proposal that takes exception to any term or condition of the RFP, proposes additional terms or conditions, or otherwise fails to manifest your unconditional assent to a term or condition of the RFP to be unacceptable. Any failure to manifest unconditional assent to the terms and conditions of the RFP will constitute a deficiency (see FAR 15.301). The only way to correct a deficiency would be through discussions (see FAR 15.306 (d)).

However, the Government intends to award the contract without discussions as permitted by FAR 15.306(a) and 52.215-1. Therefore, do not submit an offer that takes exception to any term or condition of this RFP, proposes any additional terms or conditions, or omits any required information, unless permitted by an amendment to the solicitation. The Government encourages you to contact the Contracting Office by electronic mail in order to request an explanation of any aspect of these instructions. Comments and questions must reference the solicitation number. The Government reserves the right to conduct discussions and to permit you to revise your proposal if it is in the best interest of the Government.

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001		220,500	Labor Hours		
	Weapons Survivability Laboratory (WSL) Support				
	CPFF				
	Test & Evaluation Services				
	Period of Performance 10-1-04 through 9-30-07				
	CPFF				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: 0010084275				
				ESTIMATED COST	(b)(4)
				FIXED FEE	
				TOTAL EST COST + FEE	<u>\$8,678,440.00</u>
	ACRN AA				\$50,000.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002		1	Lot		NSP
	Data in accordance with Form DD 1423				
	FFP				
	Contract Data Requirements List (CDRL)				
	FOB: Destination				
				FUNDED AMOUNT	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		73,500	Labor Hours		
OPTION	OPTION YEAR 1				
	CPFF				
	Weapons Survivability Laboratory (WSL) Support				
	Test & Evaluation Services				
	Period of Performance 10-1-07 through 9-30-08				
	CPFF				
	FOB: Destination				
				ESTIMATED COST	(b)(4)
				FIXED FEE	
				TOTAL EST COST + FEE	<u>\$3,097,374.00</u>

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Data in accordance with DD Form 1423 FFP Contract Data Requirements List (CDRL) FOB: Destination	1	Lot		NSP

FUNDED AMOUNT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	OPTION YEAR 2 CPFF Weapons Survivability Laboratory (WSL) Support Test & Evaluation Services Period of Performance 10-1-08 through 9-30-09 CPFF FOB: Destination	73,500	Labor Hours		

ESTIMATED COST

(b)(4)

FIXED FEE

TOTAL EST COST + FEE

\$3,183,250.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Data in accordance with DD Form 1423 FFP Contract Data Requirements List (CDRL) FOB: Destination	1	Lot		NSP

FUNDED AMOUNT

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5252.211-9503 LEVEL OF EFFORT (COST REIMBURSEMENT) (SEP 1999)

(a) The level of effort estimated to be ordered during the term of this contract is 367,500 man-hours of direct labor if all options are exercised including authorized subcontract labor, if any. The contractor shall not, under any circumstances, exceed one hundred (100%) percent of the total level of effort specified in this basic contract. The estimated composition of the total man-hours of direct labor by classification is as follows:

<u>Labor Category</u>	<u>Man-hours</u>					<u>Total</u>
	<u>Year one (base)</u>	<u>Year Two (base)</u>	<u>Year Three (base)</u>	<u>Year Four (option)</u>	<u>Year Five (Option)</u>	<u>Man-hours</u>
	Hrs	Hrs	Hrs	Hrs	Hrs	Hrs
Government Labor Categories						
Chief Engineer Manager	1750	1750	1750	1750	1750	8750
Aerospace Engineer	1750	1750	1750	1750	1750	8750
Mechanical Engineer	1750	1750	1750	1750	1750	8750
Elec/Instrumentation Engineer	3500	3500	3500	3500	3500	17500
Program/Test Lead	3500	3500	3500	3500	3500	17500
Mechanical Technician IV	5250	5250	5250	5250	5250	26250
Mechanical Technician III	3500	3500	3500	3500	3500	17500
Aircraft Technician IV	7000	7000	7000	7000	7000	35000
Aircraft Technician III	5250	5250	5250	5250	5250	26250
Aircraft Technician II	3500	3500	3500	3500	3500	17500
General Fabrication Technician IV	5250	5250	5250	5250	5250	26250
General Fabrication Technician III	5250	5250	5250	5250	5250	26250
General Fabrication Technician II	5250	5250	5250	5250	5250	26250
Instrumentation Tech IV	3500	3500	3500	3500	3500	17500
Instrumentation Tech III	1750	1750	1750	1750	1750	8750
Instrumentation Tech II	1750	1750	1750	1750	1750	8750
Photographer IV	1750	1750	1750	1750	1750	8750
Photographer III	1750	1750	1750	1750	1750	8750
Photographer II	1750	1750	1750	1750	1750	8750
Maintenance Trades Helper	1750	1750	1750	1750	1750	8750
Logistics Technician	1750	1750	1750	1750	1750	8750
Inventory Specialist	1750	1750	1750	1750	1750	8750
Warehouse Specialist	1750	1750	1750	1750	1750	8750
Laborer	1750	1750	1750	1750	1750	8750
Total Hours	73500	73500	73500	73500	73500	367500

(b) Either FAR Clause 52.232-20, "Limitation of Cost" or FAR Clause 52.232-22, "Limitation of Funds", depending upon whether the order is fully funded, applies independently to each order under this contract and nothing in this clause amends the rights or responsibilities of the parties hereto under either of those two clauses. In addition, the notifications required by this clause are separate and distinct from any specified in either FAR Clause 52.232-20 or FAR Clause 52.232-22.

(c) In the event that less than one hundred (100%) percent of the established level of effort of the basic contract is actually expended by the completion date of the contract (or if said Level of Effort has been previously revised

upward, or the fee bearing portion of the additional hours by which the Level of Effort was last increased), the Government shall have the option of:

(1) Requiring the Contractor to continue performance, subject to the provisions of the FAR Clause 52.232-20 or 52.232-22, as applicable, until the effort expended equals 100% of the established Level of Effort; or

(2) Effecting a reduction in the fixed fee by the percentage by which the total expended man-hours is less than one hundred (100%) percent of the established Level of Effort (or the fee bearing portion of the last upward revision).

(d) Completion Form Task Orders.

(1) An estimated level of effort shall be established for each completion form task order. This estimated level of effort is established for the purpose of determining the amount of fixed fee payable on the task order and tracking the ceiling amount of the contract, it is not to be construed as a performance requirement. In the event the task(s) can not be completed within the estimated cost, the Government will require more effort without increase in fee, provided the Government increases the estimated cost.

(2) Within thirty days after completion of the work under each completion form task order, the Contractor shall submit the following information directly, in writing, to the ordering officer, with copies to the COR and the Defense Contract Audit Agency office to which vouchers are submitted:

(i) The Contractor's estimate of the total allowable cost incurred under the task order; and

(ii) In the case of a cost underrun, the amount by which the estimated cost of the task order may be reduced to recover excess funds.

(e) Term Form Task Orders.

(1) The Contractor shall notify the Procuring Contracting Officer immediately in writing whenever it has reason to believe that:

(i) The level of effort the Contractor expects to incur under any term form order in the next 60 days, when added to the level of effort previously expended in the performance of that order, will exceed seventy-five (75%) percent of the level of effort established for that order; or

(ii) The level of effort required to perform a particular term form order will be greater than the level of effort established for that order.

As part of the notification, the Contractor shall provide the Contracting Officer a revised estimate of the level of effort required to perform the order. As part of the notification, the Contractor also shall submit any proposal for adjustment to the estimated cost and fixed fee that it deems would be equitable if the Government were to increase the level of effort as proposed by the Contractor. Any such upward adjustment shall be prospective only, i.e., will apply only to effort expended after a modification (if any) is issued. However, whether an increase in fixed fee is appropriate shall depend on the circumstances involved, and, except as otherwise provided in the contract, shall be entirely within the discretion of the Contracting Officer. In performing term form task orders, the Contractor may use any combination of hours of the labor categories listed in the task order.

(2) In performing term form task orders, the contractor may use any combination of hours of the labor categories listed in the task order.

(3) Within thirty days after completion of the work under each term form task order, the Contractor shall submit the following information directly, in writing, to the ordering officer, with copies to the COR and the Defense Contract Audit Agency office to which vouchers are submitted:

(i) The total number of man-hours of direct labor, including subcontract labor, expended and a breakdown of this total showing the number of man-hours expended in each direct labor classification listed in the task order schedule, including the identification of the key employees utilized;

(ii) The Contractor's estimate of the total allowable cost incurred under the task order; and

(iii) In the case of a cost underrun, the amount by which the estimated cost of the task order may be reduced to recover excess funds.

(4) In the event that less than one hundred (100%) percent of the established level of effort of a term order (or if said level of effort has been previously revised upward, of the fee bearing portion of the additional hours by which the level of effort was last increased) is actually expended by the completion date of the contract, the Government shall have the option of:

(i) Requiring the Contractor to continue performance, subject to the provisions of the "Limitation of Cost" or the "Limitation of Funds" clause, as applicable, until the effort expended equals one hundred (100%) percent of the established Level of Effort (or of the fee-bearing portion of the last upward revision); or

(ii) Effecting a reduction in the fixed fee by the percentage by which the total expended man-hours is less than one hundred (100%) percent of the established Level of Effort (or the fee bearing portion of the last upward revision).

(5) In the event that the expended level of effort of a term order exceeds the established level of effort by ten (10%) percent or less, but does not exceed the estimated cost of the order; the contractor shall be entitled to cost reimbursement for actual hours expended, not to exceed the ceiling cost. The contractor shall not be paid fixed fee, however, on level of effort in excess of one hundred (100%) percent without complying with subsection (e)(1) above. This does not supersede or change subsection (e)(1) above, whereby the contractor and Government may agree on a change to the task order level of effort with an equitable adjustment for both cost and fee.

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B-TXT

Other Direct Costs and Materials

The Government's estimate of Other Direct Costs and Materials follows: These amounts do not include any loading.

The Government estimate of Other Direct Costs include, but are not limited to the cost of leasing and maintaining vehicles as required by the contract, training, travel, and physical examinations. The Government estimate for material includes the anticipated cost of materials that may be incorporated into or attached to a deliverable end item or that may be consumed or expended in performing this contract. It includes assemblies, components, parts, raw and processed materials and small tools and supplies that may be consumed in normal use in performing a contract.

	Year 1	Year 2	Year 3	Base POP	Option Year 1	Option Year 2	Total
ODCs	\$154,560	\$154,560	\$154,560	\$463,680	\$154,560	\$154,560	\$ 772,800
Material	\$220,500	\$220,500	\$283,500	\$724,500	\$283,500	\$283,500	\$1,291,500

Failure of the other direct cost categories/amounts, either as stated herein or proposed, to materialize during actual contract performance, shall not constitute a constructive change to or breach of the contract and shall not form the basis for any adjustment to fee whether pursuant to the changes clause or otherwise. Similarly, the fact that the ODC's in excess of those estimated or proposed are incurred, shall not form the basis for any fee adjustment, whether pursuant to the changes clause or otherwise.

SECTION B MIN MAX TEXT
B-TXT

In the event that the options are exercised for years 4 and 5 of the contract, the estimated maximum cost and labor hours for those options shall be added to the estimated costs and hours for the Base Period of the contract (CLIN 0001).

Section C - Descriptions and Specifications

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C.17 PROGRESS AND STATUS REPORT, IDIQ CONTRACTS WITH LEVEL OF EFFORT PROVISIONS

(a) The contractor shall prepare and submit a report as a supplement to each Standard Form 1034 presented for payment. The report shall cover the term for which the invoice is submitted and shall include the following information when applicable:

(1) Identification Elements

- (i) Contract, Invoice and Control Numbers
- (ii) Contractor's Name and Address
- (iii) Date of Report
- (iv) Reporting (invoicing) Period

(2) Delivery Order Description Elements. For each delivery order invoice, the report shall include:

- (i) Delivery order number
- (ii) Number of hours and labor categories as awarded in delivery order.
- (iii) Labor hours expended for the reporting period and cumulatively broken out to identify labor categories and specific individuals utilized and the amount of labor hours expended by each.
- (iv) Labor hours, by labor category anticipated to be required for completion of delivery order.
- (v) Extent of travel, including identification of individuals performing the travel, the labor categories of such individuals and total number of travelers.
- (vi) List of materials and other direct cost items expended in performance of the delivery order during the reporting period.
- (vii) The same information as specified in a. through f. above is required for any subcontractor performance on the delivery order.

(b) Each report shall address each element of paragraph (2) above. Where the element is not applicable, the report shall so state.

(c) Each period of performance and associated labor hours of the contract shall stand alone. Accordingly, when a new period begins (i.e., 1st option year, 2nd option year) the labor, travel, and material shall be reported for each performance period.

(d) Distribution of the report shall, as a minimum, be one (1) copy to Contracting Officer, and one (1) copy to the Contracting Officer's Representative (COR). Additional requirements may be established in a DD Form 1423, Contract Data Requirements List.

(e) COR will insure this report and copies of the invoice are retained.

C.33 CONTRACT DATA REQUIREMENTS LIST

Item CLIN 0002 shall be in accordance with the attached Contract Data Requirements List, CDRL, DD Form 1423, dated 2/05/04 Exhibit "A" of this contract.

C.34 CONTRACT DATA REQUIREMENTS LIST (OPTION)

Item CLIN 0004 and 0006, if the option is exercised, shall be in accordance with the attached Contract Data Requirements List, CDRL, DD Form 1423, dated 2/05/2004 Exhibit "A" of this contract.

TASK ORDER DEFINITION**C-TXT TASK ORDER DEFINITION**

In accordance with FAR 16-501 – Definitions, a “Task Order Contract” means a contract for services that does not procure or specify a firm quantity of services (other than a minimum and maximum quantity) and that provides for the issuance of orders for the performance of tasks during the period of the contract.

STATEMENT OF WORK**STATEMENT OF WORK**

1.0 SCOPE. Contractor shall support research, development, test, and evaluation programs under the cognizance of the Weapons Survivability Laboratory (WSL) in the Survivability Division of the Systems Engineering Department. Performance will normally be conducted at the Naval Air Warfare Center Weapons Division (NAWCWD), China Lake, CA.

2.0 APPLICABLE DOCUMENTS. The following documents of the revision and date shown are applicable in the performance of this Statement of Work (SOW) to the extent specified herein

- 2.1 Navy Occupational Safety and Health Program Manual, OPNAVINST 5100.23F
- 2.2 Occupational Safety and Health Manual, NAWS CL Instruction 5100.2 dated 14 May 1997
- 2.3 *PART 1910-OCCUPATIONAL SAFETY AND HEALTH STANDARDS*, Title 29: Chapter XVII, Code of Federal Regulations, Labor (29 CFR 1910)
- 2.4 Hazard Communication (HAZCOM) Program, NAWSCS Instruction 5100.3
- 2.5 Operational Risk Management, NAWSCS Instruction 5100.5
- 2.6 Vehicle and Equipment Operators Licensing and Training, NAWSCS Instruction 11240-1, dated 27 Feb 2003.
- 2.7 **Acquisition, Use and Maintenance of Government Vehicles and Miscellaneous Fuel and Consuming Equipment, NAWSCS Instruction 11240-14, dated 07 Nov 2000.**
- 2.8 WSL Preventive Maintenance Plan
- 2.9 WSL Test Asset Inventory Listing
- 2.10 Management of Civil Engineering Equipment, NAVFAC, P300, dated September 2003.
- 2.11 Management of Weight Handling Equipment, NAVFAC, P307, dated June 2003.
- 2.12 Mishap Investigation and Reporting OPNAVINST 5102.1C dated March 1989

3.0 REQUIREMENTS. The contractor shall provide technical support for the following types of test activities:

- a. Testing and evaluation of the survivability of U.S. aircraft and missiles against foreign threats.
- b. Testing and evaluation of the lethality of U.S. weapons against foreign aircraft and missiles.
- c. Safe separation testing of free fall and other weapons.
- d. Aerodynamic testing of weapons and recovery systems.

Test support systems and simulators developed, fabricated and/or installed by the contractor shall perform according to test program technical requirements as defined in the test plan while operating in an environment of explosive detonations, high-velocity projectiles and fragments, fires, airflow velocities up to 610 knots, water, oils, and fuels.

The Government will provide WSL project and facility program schedules. The Government reserves the right to make program schedule changes. Program and facility schedules will be discussed and/or reviewed weekly during the WSL scheduling meeting, normally held each Thursday morning at 0730 Pacific Time in the WSL Test Support Center conference room. Key personnel from the Government and contractor team will attend.

3.1 Test Support. The contractor shall perform the following tasks, which will be identified on individual task orders: In accordance with the test plans, the contractor shall build and or prepare test articles, test fixtures and stands and provide test support which includes planning, design, fabrication, preparation, instrumentation and testing. These efforts will result in successful completion of test programs where tests are completed on time, within budget and data acquired is complete and accurate. The Contractor shall perform logistics, maintenance, repair; test site clean up, which will enable efficient and smooth operations of the WSL.

3.1.1 Planning. The Contractor shall attend and participate in test planning and the weekly test-scheduling meeting held by the government. Contractor shall provide input for the development of the test plan for each test program. The Contractor shall schedule employee support to insure that program milestone requirements are satisfied without jeopardizing safety of operations. Contractor shall perform planning and scheduling of maintenance, repair and update of test support facilities, equipment and systems. Contractor plans shall be clear, concise and easy to understand.

3.1.2 Design and Documentation. The Contractor shall perform a wide range of instrumentation, electronics, electrical, software, mechanical and aerospace engineering design and documentation tasks relative to testing aircraft and missile simulators, structural support assemblies, special equipment, facilities and data acquisition systems. The Contractor shall design, develop and implement or utilize off the shelf wideband data acquisition systems and control systems. The Contractor shall develop and implement software programs and systems for data acquisition and data reduction. The Contractor shall perform computer aided design and stress analysis. The Contractor shall produce designs, which update test sites, test support facilities, equipment and systems unique to the WSL.

The Contractor shall document instrumentation, hardware and software designs, developments and implementations. Instrumentation documentation may include tables and schematics of data acquisition, control and power requirements. Hardware documentation may include engineering drawings and reports. Software documentation may include plans to meet requirements for tests or facility, source code and instructions for use. Review and/or recommend modifications to engineering designs submitted by contractor staff for technical adequacy and to insure safety requirements are satisfied. The contractor shall not implement any design change unless authorized by a test plan.

With the concurrence of the COR, the contractor shall value engineer, correct and document any design characteristics that are found to inhibit or make instrumentation, assembly or fabrication unnecessarily costly but that do not otherwise alter performance or system effectiveness characteristics.

3.1.3 Fabrication. The contractor shall perform a wide range of general mechanical, aerospace and electronic fabrication tasks. The Contractor shall fabricate, modify, disassemble, repair, and reassemble aircraft and missile airframe and propulsion systems, simulators, structural support assemblies, fixtures, replicas, representative aerospace structural test panels, special test equipment, electronic components and data acquisition systems. The Contractor shall perform modifications to or construct special test support equipment, systems, and large-scale structures. The Contractor shall fabricate limited production runs of simulated aircraft structural assemblies.

Typical fabrication tasking requirements include but are not limited to machining, drilling, cutting, bending, sheet metal fabrication, steel and aluminum burning, welding operations, and mechanical assembly and modification of existing test article systems and test simulator assemblies or construct new systems to achieve test simulation requirements. These typical tasks often require the use of milling machines, lathes, saws, drills, punches, presses, shears, oxygen acetylene torches and welders, electric arc, metal inert gas (MIG) and tungsten inert gas (TIG) welders.

3.1.4 Test Article Preparation. The Contractor shall perform qualification, acceptance and pre-test operational checks on test articles such as aerospace vehicles, propulsion systems, and instrumentation setup for technical adequacy prior to test conduction. The Contractor shall perform modifications to existing test article systems and structural test simulator assemblies or construct new systems to achieve test requirements. The Contractor shall perform modifications to or construct special test support equipment and systems. The Contractor shall perform machining, cutting, drilling, burning and welding operations on these systems.

3.1.5 Instrumentation and Data Acquisition. The Contractor shall instrument test articles and test support equipment and capture and record data prior to, during and following test events. The Contractor shall photograph and record visual data prior to, during and following each test event with appropriate equipment. The Contractor shall develop test instrumentation and interfaces for test article specimen; test site and project test article preparations, setup, modifications and teardown. The Contractor shall design, fabricate, install, test, calibrate, modify, repair and operate control systems and electronic measurement systems for data acquisition and data reduction of experimental project data consisting of the following typical equipment components:

Magnetic Tape Recorders	Visicorders
Digital data acquisition recorders	Relays
Oscillographs	Recorders
PAM AND PCM	Digital annotation devices
A-D Converters	Sequencers
Micro-Processors	Micro and Minicomputers
Video Systems	Signal conditioning amplifiers
35mm Film Cameras	Digital Cameras
High Speed Film Cameras	VHS and DVCAM Recorders
High Speed Video Systems	Digital annotation devices

Examples of typical test instrumentation and data acquisition requirements are:

Linear Motion Measurement	Strain
Ballistic Velocities	RPM
Vibration	Optical flash detection
Pressures	Range timing
Temperatures	Standard Video

Fluid Flow
High Speed film

Still Photographs
High Speed Video

3.1.6 Testing. The Contractor shall prepare and set up test specimen, equipment, fixtures, hardware and instrumentation at test sites prior to testing. The Contractor shall conduct preparation, pre-test inspection, operational checks and operation of fixed and rotary wing aircraft, aerospace vehicles and missile systems; turbojet, turbofan, turboshaft, and reciprocating engines. Testing typically involves the utilization of data acquisition, data reduction and control systems; high speed and standard speed video systems; transducers and thermocouples; jet fuel and hydraulic pumps, fuel tanks, hydraulic reservoirs, shock struts, actuators, valves and related pumping and fittings. Typical test support equipment includes but is not limited to:

High velocity airflow system
Portable airflow system
65,000 lb. straddle crane
Light water fire extinguishing system

Fuel temperature conditioning system
Oil/water separator system
CO2 fire extinguishing system

Following completion of testing the contractor shall remove test articles, fixtures, components, instrumentation and equipment from the test site; prepare items for proper storage; and return items to appropriate storage location within the WSL.

3.1.7 Logistics. The Contractor shall perform market research and make recommendations regarding supplies and equipment best suited to meet program or facility requirements. The Contractor shall maintain and update the WSL test asset inventory list of government owned hand tools and equipment and library listing consisting of aerospace technical publications, product directories/catalogs and weapon systems maintenance logs. The Contractor shall maintain equipment inventory listing of WSL owned Weapons Division Property System (WDPS) items. The Contractor shall maintain inventory listing of government owned hand tools and equipment. The Contractor shall be required to access the WDPS on the NAVAIR network to track and update data. The Contractor shall update and revise WSL Inventory Control Management System inventories including:

WSL Test Asset Inventory
Government Property Inventory (WDPS)
WSL Metal Inventory
Materials Safety Data Sheets Log

3.1.8 Technical Materials and Equipment. The Contractor shall provide materials, supplies, or minor equipment to perform specific task order requirements. Typical examples of such procurements are structural steel, steel plate, aluminum extrusions, tooling, test support equipment or minor equipment such as electric or pneumatic tools. Ownership of any such materials or equipment procured will remain with the Government.

3.1.9 Shipping and Receiving. The Contractor shall remove material from storage and prepare for shipment according to Federal shipping guidelines and private carrier guidelines. The Contractor shall transport ready-to-ship materials to Government Shipping and Receiving dock. The Contractor shall verify incoming shipments of materials and merchandise against receiving documents, noting and reporting discrepancies and obvious damages, and record date of receipt. The Contractor shall route materials to prescribed shops, test sites or WSL storage locations. The Contractor shall store, stack or palletize materials in accordance with prescribed storage and safety methods. The Contractor shall pick up incoming shipments of materials and merchandise.

3.1.10 WSL Maintenance. The Contractor shall perform test facility and equipment maintenance according to the WSL Preventive Maintenance Plan.

3.1.11 Data Requirements.

3.1.11.1 Weekly Progress Report. The Contractor shall report project and facility program progress orally during the weekly test planning and test-scheduling meeting.

3.1.11.2 Labor Hour and Cost Reports. The Contractor shall submit a weekly report listing man-hours performed on each task order by labor category, employee name and WSL project number, total dollars charged per task order and task order balance by dollars and hours to the COR.

3.1.11.3 Material Cost Reports. The contractor shall submit a monthly accounting of all material charges incurred during the prior month. The report will include detailed costs for authorized purchases of equipment, materials, supplies, and other direct costs (ODC's). Cost details will include applicable task order and WSL project number, description of the item(s), quantity, dollar amount, and copies of applicable invoices, bill of materials or itemized supplier invoices, or other billing materials such as lease agreement invoices to the COR.

3.1.11.4 Workforce Change Reports. At contract effective date, the Contractor shall provide a list of personnel by labor classification to the COR. As changes in the workforce occur the contractor shall update the report within 24 hours of a new employee reporting to work.

3.2 Place of Performance. Work will be performed primarily at, but not limited to, the WSL, NAVAIR Weapons Division, China Lake, CA. Other potential sites include NAVAIR Weapons Division and Point Mugu, CA.

3.3 Tools. The Contractor shall establish a required tool listing for each labor position (tools of the trade). The Contractor shall either provide at no cost to the Government or ensure that employees acquire and have available for use at the worksite, a complete tool kit. Employee tool kits shall contain such items as socket sets, wrenches, pliers, screwdrivers, hammers, flashlight, awls, scribes, tape measures, allen wrenches, wire cutters, or soldering irons. The tool kits should allow a contract employee to meet the functions of their position.

The Government will make available on a shared access basis unique air and electric power tools and hand tools larger than those typically included in the employee tool kit.

4.0 General.

4.1 Official Travel. Travel to other government agencies and contractor sites may be required to accomplish tasks defined in specific task orders.

4.2 Safety. The contractor shall comply with all Federal, State and Local safety regulations in accordance with the following regulations and guidance at OPNAVINST 5100.23F, Navy Occupational Safety and Health Program Manual NAWSINST 5100.2, Occupational Safety and Health Manual: PART 1910-OCCUPATIONAL SAFETY AND HEALTH STANDARDS: Title 29; Chapter XVII, Code of Federal Regulations, Labor (29 CFR 1910); NAWSCL Instruction 5100.3, Hazard Communication (HAZCOM) Program, NAWSCL Instruction 5100.5, Operational Risk Management of Civil Engineering Equipment, P300; and Management of Weight Handling Equipment, P307. The contractor shall provide all personnel safety training and certification as required by safety instructions and regulations.

4.2.1 Contractor Safety Plan. The contractor shall develop and maintain a Safety Program that minimizes risk and ensures safety of personnel and equipment. The contractor shall provide the name of a single Point of Contact for all Contractor safety issues to the COR at time of contract award.

The point of contact shall coordinate with the Naval Air Weapons Station (NAWS) Safety Department and WSL Government Safety Representative on safety related activities in accordance with OSHA and CAL OSHA regulations, as well as NAWCWPNSINST 5100.2, Navy Occupational Safety and Health Manual. Any conflict between these directives shall be resolved by initiating the most stringent requirement.

The Contractor shall immediately notify the COR/TA of any accident. The Contractor shall support the investigation of and reporting on any accident. As required by OPNAVINST 5102.1C, Mishap Investigation and Reporting or other directive(s), the contractor shall submit inputs, draft(s), or a final Accident Investigation Report to Naval Air Weapons Station (NAWS) Safety Department's Commanding Officer.

4.2.2 Expendable Safety Materials. Expendable safety materials such as respirators and filters, disposable earplugs and disposable eye protection shall be charged to the individual task orders. Purchase of expendable safety materials requires COR approval prior to purchase.

4.2.3 Safety Gear. Contractor shall provide safety gear required to accomplish tasking per local, state and Federal regulations OPNAVINST 5100.23F Navy Occupational Safety and Health Manual; NAWSINST 5100.2, Occupational Safety and Health Manual; dated 14 May 1997 and documents listed in section 2.0 of this contract SOW.

4.2.4 Personal Safety Gear. Costs for individualized safety gear such as prescription safety eye wear; protective clothing, and safety shoes are the responsibility of the contractor or the contractor employee and shall not be charged to the Government.

4.3 Security. The contractor shall acquire personnel security clearances up to and including **SECRET** level for all key personnel and Confidential for all other employees for handling of documentation and hardware. The Government will provide secure storage facilities for classified Government hardware and documents.

4.4 Contractor Vehicles. The Contractor shall lease with an option to buy the vehicles required to accomplish required tasking on this contract. The government will reserve the right to purchase or transfer title to the leased vehicles at the end of the contract period. The vehicles shall be registered in the Contractor's name and the Lien Holder will be USN, NAWCWD-China Lake. At the end of the contract, all contractor-acquired vehicles (CAP) shall be transferred to the follow-on contract. The contractor shall ensure contractor personnel driving these vehicles have a valid California's driver's license as well as maintain vehicle insurance coverage in accordance with FAR 52.228-7. The contractor shall use the most cost-effective (economical) means to fuel vehicles using the NAVAIR-WD fuel farm or the Contractor's negotiated local gas station.

The government anticipates that the contractor will require a minimum of five compact-class 1/2-ton pickup trucks and four full-size pickup trucks equipped with a rear bumper for towing and one crew cab full sized pickup truck equipped with a rear bumper for towing. Additional vehicles may be required depending on level of work and testing requirements. These vehicles will be required for the contractor's sole use in performance of this contract. Each truck shall be operational and fully capable of supporting the performance of this contract 9 out of 10 working days. Not more than one truck at any one time will be out of service. Maintenance and servicing of contractor vehicles shall be the contractor's responsibility. The contractor shall perform required vehicle maintenance (including smog checks, registration, tire rotation, oil changes and lubrication for all vehicles every 3 months or 3,000 miles which ever occurs first). No Government equipment/materials/labor will be provided. Vehicle Maintenance Records for each vehicle shall be established per FAR Part 45.505 requirements

4.5 Contract Special Handling Equipment. The Contractor shall lease with an option to buy the special handling equipment required to accomplish required tasking on this contract. **The Contractor shall provide one rough terrain forklift with (4-Wheel Drive and Crab steering capability), a minimum 40 foot telescoping**

boom, 10,000 lb. lift capacity with load capacity of 9,000 lbs at 75-degree boom angle fully extended and a load capacity of 2,000 lbs at 0-degree boom angle fully extended, frame tilt control, automatic fork leveling, enclosed cab with heat and air conditioning, outriggers (stabilizers), fork dimensions of 2" x 4" x 60", side shift carriage fork tilt capability, diesel fuel, pneumatic or foam filled tires. The government will reserve the right to purchase the special handling equipment at the end of the contract period. The special handling equipment will be registered in the Contractor's name and the Lien Holder will be USN, NAWCWD-China Lake. At the end of the contract, the contractor shall transfer the special handling equipment to the follow on contract. The contractor shall ensure that contractor's employees driving this equipment are certified and maintain vehicle insurance coverage in accordance with 52.228-7. Maintenance and servicing of contractor special handling equipment shall be the contractor's responsibility in accordance with the original equipment manufacturer (OEM) guidelines. No Government equipment/materials/labor will be provided. The contractor shall be required to rent additional special handling equipment as needed to perform tasking in individual task orders. It is expected that rental periods would be one or two months at a time.

The contractor shall comply in accordance with the following regulations: NAWS Instruction 11240-1, Vehicle and Equipment Operators Licensing and Training, and, NAWS instruction 11240-14, Acquisition, Use and Maintenance of Government Vehicles and Miscellaneous Fuel and Consuming Equipment.

4.6 Contractor Vehicle Fuels/Lubricants. Fuel for contractor vehicles and contract special handling equipment, sections 4.4 and 4.5 of this contract SOW, used in the official use and performance of this contract SOW, will be provided using the most cost-effective (economical) means to fuel vehicles using the NAVAIR-WD fuel farm or the Contractor's negotiated local gas station. The Contractor shall provide all lubricants, servicing and maintenance for contractor vehicles and contract special handling equipment.

5.0 FACILITIES. The following Government facilities and equipment therein and in the area defined as the WSL, are jointly utilized and are not provided for the exclusive use of the contractor but are available on site to support the performance of this contract SOW.

5.1 Facilities.

Building	Function
31175	Office space (Note: the Government will provide office furniture, telephone systems and computer network access for up to 8 contractor personnel positions.)
31151	Assembly/Fabrication facility
31192	Machine shop
31196	Storage building
31197	Jet engine/Fabrication shop
31198	Paint booth/Coating facility
31150	Assembly building
31167	Test Control Building (Fire Control)
31162	Test Control Building (K-2 Fire Control)
31211	Fuel Farm Pump House

5.2 Equipment - General Information

Shared Access: Most of the tests to be performed under this contract are conducted by a joint government/contractor team. In accordance with paragraph 3.0, the contractor test program technical requirements are defined in each test plan. The contractor shall be provided access to the equipment/facilities shown below as required to perform that tasking and is not required to provide that equipment.

5.2.1 Fabrication Equipment. Fully equipped shops consisting of equipment such as saws, mills, shears, hydraulic break press, lathes, drill presses, gas, and arc welding equipment, heat treat oven, hydraulic press, and grinders are available on a shared access basis at the WSL for the contractor's use in the performance of this contract SOW.

5.2.2 Special Test Equipment. The following test equipment and facilities are available on a shared access basis at the WSL for the contractor's use in the performance of this contract SOW.

- High Velocity Airflow System
- Portable Airflow System
- Light Water Fire Extinguishing System
- CO2 Fire Extinguishing System
- Fuel Temperature Conditioning System
- Oil/Water Separator System
- 65,000 lb. Straddle Crane
- Aviation Support Equipment

5.2.3 Communication Equipment. Base and mobile radio, public address communications equipment are provided on a shared access basis for the contractor's use at the WSL for daily communications related to the performance of this contract.

5.2.4 Data Acquisition Equipment. WSL test control facilities are equipped with necessary electronics to support the contract requirements. The following representative types of equipment are provided on a shared access basis for the contractor's use in the performance of this contract SOW.

- Tape Recorders -- Video, Data
- Video cameras (High Speed and Normal Speed)
- Motion Picture Film Cameras (High Speed)
- Signal Conditioning Amps
- Oscilloscopes
- X-Y Plotters
- Strip Charts
- Power Supplies
- Digital Volt Meters
- Transducers
- Mini-Computers, Personal Computers (PC's)

5.2.5 Computer Equipment. The Government will provide computer hardware and software on a shared access basis for the contractor's use in the performance of this contract SOW.

5.3 Government Transportation. The following vehicles will be provided on a shared access basis for the contractor's use in the performance of this contract SOW. The Government will provide maintenance, servicing, lubricants and fuel.

- a. One (1) Five-ton Stake Truck
- b. One (1) 1/2-Jeep CJ-5
- c. One (1) General Purpose Utility Vehicle

5.4 Government Special Handling Equipment. The following Special Handling Equipment will be provided on a shared access basis for the contractor's use in the performance of this contract SOW. The Government will provide maintenance, servicing, lubricants and fuel. Contractor personnel shall obtain

necessary training and licenses necessary to meet NAWS, OSHA and WSL requirements as listed in Section 2.0 of this contract SOW prior to operating Special Handling Equipment such as:

- a. 20,000 lb. All Terrain Forklift (2)
- b. 65,000 lb. Straddle Crane
- c. Mobile 20,000 lb. Crane

Section D - Packaging and Marking

CLAUSES INCORPORATED BY FULL TEXT

5252.247-9509 PRESERVATION, PACKAGING, PACKING AND MARKING (NAVAIR) (JUL 1998)

(a) Preservation, packaging and packing shall conform to prevailing industry standards for the type of commodity purchased under this contract.

(b) All packages will be clearly marked with applicable contract number/delivery order number, and will contain appropriate packing slip. All deliveries will be marked for and/or consigned as follows:

Containers shall be marked as follows:

Receiving Officer

*Contract N68936-04-D-0032

Naval Air Warfare Center Weapons Division

1 Administration Circle

China Lake, CA 93555-6100

*Mark For N68936-04-D-0032

NOTE TO VENDORS: RECEIVING DOCK HOURS ARE MONDAY THROUGH THURSDAY, 0730-1530, AND EVERY OTHER FRIDAY. If you anticipate making a delivery on Friday please call Receiving at (760) 939-2185 to verify receiving dock hours.

(c) In the event of any discrepancy in material shipped (overage, technical rejection, damage), the contractor shall, immediately upon request of the Contracting Officer, furnish disposition instructions. Normally, such disposition instruction shall be a properly completed Commercial Bill of Lading which includes, but is not limited to, the mode of shipment, routing, special handling, and so forth.

(d) If the contractor is required to install equipment upon delivery, then the contractor shall inform the Government of the date of shipment from the contractor's facilities and the anticipated date of arrival at the site. This report shall be made no later than the actual date that the shipment is made from the contractor's facilities. The report may be made by facsimile or e-mail, to the point of contact listed in Section G. All transportation, rigging, drayage, packing, unpacking, and handling necessary to accomplish the installation shall be the responsibility of the contractor.

* to be completed at award.

5252.247-9514 TECHNICAL DATA PACKING INSTRUCTIONS (SEP 1999)

Technical Data and Information shall be packed and packaged for domestic shipment in accordance with best commercial practices. The package or envelope should be clearly marked with any special markings specified in this contract (or delivery/task order), e.g., Contract Number, CLIN, Device No., and document title must be on the outside of the package. Classified reports, data and documentation, if applicable, shall be prepared for shipment in accordance with Defense Industrial Manual for Safeguarding Classified Information, DoD 5520.22M.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government
0006	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY FULL TEXT

52.246-5 INSPECTION OF SERVICES--COST-REIMBURSEMENT (APR 1984)

- (a) Definition. "Services," as used in this clause, includes services performed, workmanship, and material furnished or used in performing services.
- (b) The Contractor shall provide and maintain an inspection system acceptable to the Government covering the services under this contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the Government during contract performance and for as long afterwards as the contract requires.
- (c) The Government has the right to inspect and test all services called for by the contract, to the extent practicable at all places and times during the term of the contract. The Government shall perform inspections and tests in a manner that will not unduly delay the work.
- (d) If any of the services performed do not conform with contract requirements, the Government may require the Contractor to perform the services again in conformity with contract requirements, for no additional fee. When the defects in services cannot be corrected by reperformance, the Government may (1) require the Contractor to take necessary action to ensure that future performance conforms to contract requirements and (2) reduce any fee payable under the contract to reflect the reduced value of the services performed.
- (e) If the Contractor fails to promptly perform the services again or take the action necessary to ensure future performance in conformity with contract requirements, the Government may (1) by contract or otherwise, perform the services and reduce any fee payable by an amount that is equitable under the circumstances or (2) terminate the contract for default.

5252.246-9512 INSPECTION AND ACCEPTANCE (DESTINATION) (NAVAIR) (MAR 1999)

- (a) Inspection and acceptance of the supplies or services to be furnished hereunder shall be performed at destination by Government
- (b) Acceptance of all Contract Line Items/Subcontract Line Items (CLINs/SLINs) shall be made by signature of the accepting authority on a DD Form 250, Material Inspection and Receiving Report. Acceptance will only occur when the accepting authority is sure that inspections performed demonstrate compliance with contract requirements.

5252.246-9529 SURVEILLANCE OF SERVICES AND TIME RECORDS (NAVAIR) (JUL 1998)

(a) The official(s) designated in paragraph (b) shall be responsible for appropriate surveillance of all services to be performed under this contract. In so doing, such official(s) shall (1) review the accuracy and approve or disapprove the contractor's time and attendance records of all workers assigned under the contract, and (2) make frequent periodic visits to the work site to check on the presence of workers whose time is charged thereto.

(b) Name: (b)(6)

Activity: NAWCWD Code 418300D

Address: 1 Administration Circle- Stop 1113, China Lake, CA 93555-6100

Phone: (760) 939-(b)(6)

(c) When performance is at a Government site, the contractor's representative shall contact the Government representative named above upon arrival and departure from the work site. If access to a security area is required, the designated Government representative will provide continuous escort service for the contractor's representative.

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 01-OCT-2004 TO 30-SEP-2007	N/A	N/A FOB: Destination	
0002	POP 01-OCT-2004 TO 30-SEP-2007	N/A	N/A FOB: Destination	
0003	POP 01-OCT-2007 TO 30-SEP-2008	N/A	N/A FOB: Destination	
0004	POP 01-OCT-2007 TO 30-SEP-2008	N/A	N/A FOB: Destination	
0005	POP 01-OCT-2008 TO 30-SEP-2009	N/A	N/A FOB: Destination	
0006	POP 01-OCT-2008 TO 30-SEP-2009	N/A	N/A FOB: Destination	

CLAUSES INCORPORATED BY FULL TEXT

252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (MAY 2002)

(a) Definitions. As used in this clause-

(1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

(2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.

(4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract.

(6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

- (b)(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.
- (2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if-
- (i) This contract is a construction contract; or
 - (ii) The supplies being transported are-
 - (A) Noncommercial items; or
 - (B) Commercial items that-
 - (1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);
 - (2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or
 - (3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.
- (c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that-
- (1) U.S.-flag vessels are not available for timely shipment;
 - (2) The freight charges are inordinately excessive or unreasonable; or
 - (3) Freight charges are higher than charges to private persons for transportation of like goods.
- (d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum-
- (1) Type, weight, and cube of cargo;
 - (2) Required shipping date;
 - (3) Special handling and discharge requirements;
 - (4) Loading and discharge points;
 - (5) Name of shipper and consignee;
 - (6) Prime contract number; and
 - (7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.
- (e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Maritime Administration, Office of Cargo Preference, U.S. Department of Transportation, 400 Seventh Street SW., Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information:
- (1) Prime contract number;
 - (2) Name of vessel;
 - (3) Vessel flag of registry;
 - (4) Date of loading;
 - (5) Port of loading;
 - (6) Port of final discharge;
 - (7) Description of commodity;
 - (8) Gross weight in pounds and cubic feet if available;
 - (9) Total ocean freight in U.S. dollars; and
 - (10) Name of steamship company.
- (f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--
- (1) No ocean transportation was used in the performance of this contract;
 - (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;
 - (3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

	ITEM	CONTRACT LINE DESCRIPTION	QUANTITY ITEMS
TOTAL	_____	_____	_____

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

(1) The Contractor shall insert the substance of this clause, including this paragraph (h), in subcontracts that exceed the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

5252.211-9507 PERIOD OF PERFORMANCE (NAVAIR) (MAR 1999)

(a) The contract shall commence on 01 October 2004 and shall continue through 30 Sep 2007. However, the period of performance may be extended in accordance with the option provisions contained herein.

(b) If FAR Clause 52.216-18, "Ordering", is incorporated into this contract, then the period in which the Government can issue orders under the contract will be extended at the exercise of an option, and extended to the end of that option period.

5252.216-9506 MINIMUM AND MAXIMUM QUANTITIES (MAR 1999) (NAVAIR)

As referred to in paragraph (b) of FAR 52.216-22 "Indefinite Quantity" of this contract, the contract minimum quantity is \$50,000.00; the maximum quantity is 367,500 man-hours if options are exercised.

F-TXT-01 OPTION PERIOD OF PERFORMANCE (MAR 2003)

(1) The period of performance for CLIN(s) 0003 and 0004 is 1 year, beginning on 01 October 2007 and ending 30 September 2008. The above period of performance shall apply only if the Government exercises the option as stated in Section I in accordance with the clause FAR 52.217-9 Option to extend the term of the Contract

(2) The period of performance for CLIN(s) CLIN 0005 and 0006 is 1 year beginning 01 October 2008 and ending 30 September 2009. The above period of performance shall apply only if the Government exercises the option as stated in Section B in accordance with the clause FAR 52.217-9 Option to extend the term of the Contract

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930 NH2C 252 77777 0 054219 2F 000000
 COST CODE: 000005035700
 AMOUNT: \$50,000.00
 CIN 00000000000000000000000000000000: \$50,000.00

CLAUSES INCORPORATED BY FULL TEXT

5252.232-9001 SUBMISSION OF INVOICES (COST-REIMBURSEMENT, TIME- AND-MATERIAL, LABOR-HOUR, OR FIXED PRICE INCENTIVE) (JUL 1992) (NAPS)

(a) "Invoice" as used in this clause includes contractor requests for interim payments using public vouchers (SF 1034) but does not include contractor requests for progress payments under fixed price incentive contracts.

(b) The Contractor shall submit invoices and any necessary supporting documentation, in an original and 4 copies, to Commander, Code J26000D at the following address: NAWCWD, 1 Administration Circle -STOP 1318, China Lake, CA 93555-6100, unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order. In addition, an information copy shall be submitted to Commander, Code 418300D, NAWCWD, 1 Administration Circle STOP 1113, China Lake, CA 93555-6100. Following verification, the COR will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clause(s) of this contract.

(c) Invoices requesting interim payments shall be submitted no more than once every two weeks, unless another time period is specified in the Payments clause of this contract. For indefinite delivery type contracts, interim payment invoices shall be submitted no more than once every two weeks for each delivery order. There shall be a lapse of no more than calendar days between performance and submission of an interim payment invoice.

(d) In addition to the information identified in the Prompt Payment clause herein, each invoice shall contain the following information, as applicable:

- (1) Contract line item number (CLIN)
- (2) Subline item number (SLIN)
- (3) Accounting Classification Reference Number (ACRN)
- (4) Payment terms
- (5) Procurement activity
- (6) Date supplies provided or services performed
- (7) Costs incurred and allowable under the contract
- (8) Vessel (e.g., ship, submarine or other craft) or system for which supply/service is provided

(e) A DD Form 250, "Material Inspection and Receiving Report",

X is required with each invoice submittal.

** is required only with the final invoice.

** is not required.

(f) A Certificate of Performance

** shall be provided with each invoice submittal.

X is not required

(g) The Contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.

(h) Costs of performance shall be segregated, accumulated and invoiced to the appropriate ACRN categories to the extent possible. When such segregation of costs by ACRN is not possible for invoices submitted with

CLINS/SLINS with more than one ACRN, an allocation ratio shall be established in the same ratio as the obligations cited in the accounting data so that costs are allocated on a proportional basis.

5252.232-9503 INVOICE INSTRUCTIONS (NAVAIR) (MAR 1999)

(a) General. Strict compliance with the invoice instructions will facilitate early payment of invoices. However, no payment can be made until the contract is returned, properly executed, to Commander, Code 210000D Attn: Diane Foucher, 429 E. Bowen Rd., Mail Stop 4015, China Lake, CA 93555-6108

(b) Assignments. Notwithstanding an assignment of money claims pursuant to authority contained in the contract, the contractor - not the assignee - is required to prepare invoices. Where such an assignment has been made, the original copy of the invoice must refer to the assignment and must show that payment of the invoice is to be made directly to the assignee as follows:

Pursuant to the instrument of assignment, dated _____, make payment of this invoice to (name and address of assignee).

(c) Contractor Request for Progress Payment. If the contract provides for progress payments, each contractor request for progress payment shall be submitted on Standard Form 1443, Contractor Request for Progress Payment, directly to the ACO with any additional information reasonably requested by the ACO. With regard to ceiling priced orders, each Contractor Progress Payment Request shall be made in accordance with paragraph (k) of the clause entitled "Ordering - Provisioned Items", if included in the contract, or paragraph (k) of the clause entitled "Orders (Fixed-Price)". If the contract includes Foreign Military Sales (FMS) requirements, request for progress payment shall be submitted in accordance with the procedures of DFARS Clause 252.232-7002, "Progress Payments for Foreign Military Sales Acquisitions".

5252.232-9504 INSTRUCTIONS TO PAYING OFFICE (NAVAIR) (MAY 1998)

(a) Invoices submitted for payment, which do not contain contract line item number (CLIN) (or subline item number (SLIN), if any) and the accounting classification references number (ACRN) information, will be returned for correction.

(b) The disbursement of funds will be by the CLIN/SLIN/ACRN designation or when multiple ACRNs are used, disbursements will be prorated in proportion to the unliquidated balance within a CLIN or SLIN, if assigned.

(c) Progress Payments will be prorated based upon the unliquidated balance of all ACRN(s) assigned.

5252.232-9510 PAYMENT OF FIXED FEE (AUG 2003)

(a) The fixed fee, as specified in Section B of this contract, subject to any adjustment required by other provisions of this contract, will be paid in installments. The fixed fee will be paid not more frequently than bi-weekly based on the allowable cost. The amount of each such installment shall be in the same ratio to the total fixed fee as the [X] net direct labor hours expended during the installment period is to direct labor hours specified in the clause entitled "Level of Effort" or (b)(4) hour (based on the fixed fee divided by the level of effort in hours. Payment shall be made in accordance with FAR Clauses 52.216-7, "Allowable Cost and Payment", and 52.216-8, "Fixed Fee".

(b) In the event of discontinuance of the work in accordance with the FAR Clause 52.232-22, "Limitation of Funds", the fixed fee shall be redetermined by mutual agreement equitably to reflect the reduction of the work performed. The amount by which such fixed fee is less than or exceeds payments previously made on account of fee, shall be paid to (or repaid by) the contractor.

(c) The balance of the fixed fee shall be payable in accordance with other clauses of this contract.

(d) For indefinite delivery type contracts the terms of this clause apply to each delivery/task order thereunder.

5252.232-9512 PAYMENT DEDUCTIONS AND DD FORMS 250 (NAVAIR) (JUN 1998)

During the preparation of periodic invoices, the contractor shall inquire in writing from the Contracting Officer, or his duly authorized representative, if any deductions for deficient services are applicable for that period. The contractor will receive a written response. When the contractor is informed that performance is deficient in any category, as specified in the Statement of Work, the contractor shall prepare the DD Form 250 reflecting any deductions before submitting it to the cognizant approving authority for acceptance. If the contractor disputes the deduction, the contractor may submit a DD Form 250 for the disputed amount to the Procuring Contracting Officer (PCO) with a copy to the approving authority. The submission shall contain documentation necessary to show why the deduction taken may be incorrect. The PCO shall review the documentation and make a determination. If the PCO concurs with the contractor, the PCO will sign the DD Form 250 and forward to the contractor for distribution. If the PCO does not concur, the contractor will be notified in writing.

G-TXT-01 ATTENTION! E-MAIL ADDRESS REQUIRED FOR DISTRIBUTION (APR 2002)

All Naval Air Warfare Center Weapons Division Contracts/ Purchase Orders and other related documents are now distributed by electronic mail.

Please provide the e-mail address to which distribution of contracts/purchase orders should be made.

E-Mail Address: (b)(6)

G-TXT-13 COURTESY COPY OF INVOICE/VOUCHER (SEP 2003)

A courtesy copies of each invoice/voucher processed for payment will be sent to:

COMMANDER
CODE J26000D
NAVAIRWARCENWPNDIV
1 ADMINISTRATION CIRCLE - STOP 1318
CHINA LAKE CA 93555-6100

COMMANDER
CODE 210000D (Attn: Liz Aldridge)
NAVAIRWARCENWPNDIV
429 E. Bowen RD. STOP 4015
CHINA LAKE. CA 93555-6108

Section H - Special Contract Requirements

CLAUSES INCORPORATED BY FULL TEXT

**5252.201-9501 DESIGNATION OF CONTRACTING OFFICER'S REPRESENTATIVE (COR)
(NAVAIR) (OCT 1994)**

(a) The Contracting Officer has designated:

NAME: (b)(6) Code 418300D
ADDRESS: COMMANDER
Code 418300D, (b)(6)
1 Administration Circle Mail Stop 1113
China Lake, CA 93555-6100
PHONE: (760) 939-(b)(6)

as the authorized Contracting Officer's Representative (COR) for this contract.

(b) The duties of the COR are limited to the following: The COR is responsible for monitoring the performance and progress, as well as overall technical management of the orders placed hereunder and should be contacted regarding any questions or problems of a technical nature. In no event, however, will any understanding or agreement, modification, change order, or other matter deviating from the terms of the contract between the Contractor and any person other than the Contracting Officer be effective or binding upon the Government, unless formalized by proper contractual documents executed by the Contracting Officer prior to completion to the completion of this contract.

(c) When, in the opinion of the Contractor, the COR requests effort outside the scope of the contract, the Contractor shall promptly notify the Contracting Officer in writing. No action will be taken by the Contractor under such technical instruction until the Contracting Officer has determined if such effort is within the contract scope, and, if not, has issued a contract change.

*To be completed at time of award.

5252.210-9501 AVAILABILITY OF UNIQUE DATA ITEM DESCRIPTIONS (UDIDs) AND DATA ITEM DESCRIPTIONS (DIDs) (JULY 2003)

Access Procedures for Acquisition Management System and Data Requirements Control List (AMSDL), DoD 5010.12-L, and DIDs listed therein. The AMSDL and all DIDs and UDIDs listed therein are available online via the Acquisition Streamlining and Standardization Information System located at <http://assist.daps.dla.mil>. To access these documents, select the Quick Search link on the site home page. For questions regarding the site, you may contact the Special Assistance Desk at (215) 697-2179. Requests may also be made by FAX and must contain each desired AMSDL, DID, or UDID listed by document identifier (e.g., AMSDL should be listed as DoD 5010.12-L) and the requestor's complete mailing address. A maximum of one (1) copy of each document will be issued. Requests should be faxed to (215) 697-1462.

5252.211-9502 GOVERNMENT INSTALLATION WORK SCHEDULE (DEV) (DEC 2001)

(a) The Holidays applicable to this contract are: New Year's Day, Martin Luther King's Birthday, President's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

(b) In the event that the contractor is prevented from performance as the result of an Executive Order or an administrative leave determination that applies to the using activity, such time may be charged to the contract as a direct cost provided such charges are consistent with the contractor's accounting practices. In the event that any of

the above holidays occur on a Saturday or Sunday, or alternate Friday, then such holiday shall be observed by the assigned Government employees at the using activity.

(c) The Naval Air Warfare Center Weapons Division works a 4/5/9 work schedule. Therefore alternate Fridays are not a part of the normal work week for work performed on-site at a Naval Air Warfare Center Weapons Division site. The majority of the Government offices are closed on alternate Fridays.

(d) No deviation in the normal work week will be permitted without express advance approval by the designated Contracting Officer with coordination of the using departments.

5252.216-9534 TASK ORDERS PROCEDURES (SEP 1999)

(a) The following activity(ies) or individual(s) is/are designated as Contracting Officer(s):

Diane Foucher, Code 210000D, 429 E. Bowen Rd. MAIL STOP 4015, China Lake, CA 93555-6108

The above activity(ies) or individual(s) is/are responsible for issuing and administering any orders placed hereunder. Ordering Officers may negotiate revisions/modifications to orders, but only within the scope of this contract. Ordering Officers have no authority to modify any provision of this basic contract. Any deviation from the terms of the basic contract must be submitted to the Procuring Contracting Officer (PCO) for contractual action. Ordering Officers may enter into mutual no cost cancellations of orders under this contract and may reduce the scope of orders/tasks, but a Termination for Convenience or Termination for Default may be issued by the PCO.

(b) Task orders. All orders issued hereunder are subject to the terms and conditions of this contract. The contract shall control in the event of conflict with any order. When mailed, an order shall be "issued" for purposes of this contract at the time the Government deposits the order in the mail, or, if transmitted by other means, when physically delivered to the contractor.

(c) A task order shall be issued for each order. In addition to any other data that may be called for in the contract, the following information shall be specified in each order, as applicable:

- (1) Date of order.
- (2) Contract and task order number.
- (3) Applicable contract line item number (CLIN).
- (4) Description of the task to be performed.
- (5) Description of the end item or service.
- (6) DD Form 254 (Contract Security Classification).
- (7) DD Form 1423 (Contract Data Requirements List).
- (8) Exact place of performance.
- (9) The inspecting and accepting codes.
- (10) Estimated cost and fee and level of effort by labor category (and billing rate if known).
- (11) List of Government furnished property and the estimated value of the property.
- (12) Invoice and payment provisions to the extent not covered by the contract.
- (13) Accounting and appropriation data.
- (14) Period of performance.
- (15) Organizational Conflict of Interest provisions.
- (16) Type of order (e.g., completion, term, FFP)

(d) Negotiated Agreement. For task orders with an estimated value of greater than \$100,000.00, the information contained in each task order with respect to labor categories, man-hours and delivery date shall be the result of a negotiated agreement reached by the parties in advance of issuance of the order.

(1) The Ordering Officer shall furnish the contractor with a written preliminary task order and request for proposal. The request shall include:

- (i) a description of the specified work required,
- (ii) the desired delivery schedule,
- (iii) the place and manner of inspection and acceptance, and

(2) The contractor shall, within the time specified by the preliminary task order, provide the Ordering Officer with a proposal to perform, which shall include:

(i) the required number of labor hours by labor classification and scheduled billing rates, for each end product or task,

- (ii) overtime hours by labor category,
- (iii) proposed completion or delivery dates,
- (iv) other direct costs (i.e., direct material, travel subsistence, and similar costs)
- (v) dollar amount and type of any proposed subcontracts, and
- (vi) total estimated cost/price.

The cost factors utilized in determining the estimated cost/price under any order shall be the rates applicable at time the order is issued.

(3) Upon receipt of the proposal, the Ordering Officer shall review the estimates therein to ensure acceptability to the Government, enter into such discussions with the contractor as may be necessary to correct and revise any discrepancies in the proposal, and effect whatever internal review procedures are required. Should the Ordering Officer and contractor be unable to reach agreement as to the terms of the order prior to its issuance, the conflict shall be referred to the Contracting Officer.

(4) For task orders under the dollar amount indicated in paragraph (d), the procedures for reaching agreement are as follows:

(i) The Ordering Officer shall issue a fully funded, unilaterally executed task order representing a firm order for the total requirement.

(ii) In the event the contractor cannot perform in accordance with the terms and conditions and within the estimated cost of the task order, he shall:

- (A) notify the Ordering Officer immediately,
- (B) submit a proposal for the work requested in the task order,
- (C) not commence performance until such time that differences between the task order and the contractor's

proposal are resolved and a modification, if necessary, is issued.

(e) Total Estimated Dollar Amount. The total estimated dollar amount of each order constitutes a ceiling price for that order. The requirements for notification set forth in Federal Acquisition Regulation paragraphs (b) and (c) of FAR Clause 52.232-20, Limitation of Cost and paragraph (c) of FAR 52.232-22, Limitation of Funds are applicable to individual task orders. The ceiling amount for each order may not be exceeded unless authorized by a modification to the order. All revisions providing additional funds to a task order will include fee in the same manner as established in the basic task order.

(f) Oral Orders. Oral orders may be placed hereunder only in emergency circumstances. Information described above shall be furnished to the contractor at the time of placing an oral order and shall be confirmed by issuance of a written task order within 30 working days of the oral order.

(g) Modifications. Modifications to orders shall be issued using a Standard Form 30 and shall include the information set forth in paragraph (c) above, as applicable. Orders may be modified orally by the Ordering Officer in emergency circumstances. (Oral modifications shall be confirmed by issuance of a written modification on Standard Form 30 within 15 working days from the time of the oral communication amending the order.)

5252.228-9501 LIABILITY INSURANCE (MAR 1999)

The following types of insurance are required in accordance with the clause entitled, 52.228-7, Insurance-- Liability to Third Persons, and shall be maintained in the minimum amounts shown:

- (a) Comprehensive General Liability: \$200,000 per person and \$500,000 per accident for bodily injury.
- (b) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$500,000 per accident for property damage.
- (c) Standard Workman's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.
- (d) Aircraft public and passenger liability: \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability; \$200,000 per occurrence for property damage. Passenger bodily injury liability limits of \$200,000 per passenger, multiplied by the number of seats or number of passengers, whichever is greater.

5252.237-9501 ADDITION OR SUBSTITUTION OF KEY PERSONNEL (SERVICES)(SEP 1999)

(a) A requirement of this contract is to maintain stability of personnel proposed in order to provide quality services. The contractor agrees to assign only those key personnel whose resumes were submitted and approved, and who are necessary to fulfill the requirements of the effort. The contractor agrees to assign to any effort requiring non-key personnel only personnel who meet or exceed the applicable labor category descriptions. No substitution or addition of personnel shall be made except in accordance with this clause.

(b) If personnel for whatever reason become unavailable for work under the contract for a continuous period exceeding thirty (30) working days, or are expected to devote substantially less effort to the work than indicated in the proposal, the contractor shall propose a substitution to such personnel, in accordance with paragraph (d) below.

(c) The contractor agrees that during the term of the contract no key personnel substitutions or additions will be made unless necessitated by compelling reasons including, but not limited to: an individual's illness, death, termination of employment, declining an offer of employment (for those individuals proposed as contingent hires), or maternity leave. In such an event, the contractor must promptly provide the information required by paragraph (d) below to the Contracting Officer for approval prior to the substitution or addition of key personnel.

(d) All proposed substitutions shall be submitted, in writing, to the Contracting Officer at least fifteen (15) days (thirty (30) days if a security clearance must be obtained) prior to the proposed substitution. Each request shall provide a detailed explanation of the circumstances necessitating the proposed substitution, a complete resume for the proposed substitute, information regarding the full financial impact of the change, and any other information required by the Contracting Officer to approve or disapprove the proposed substitution. All proposed substitutes (no matter when they are proposed during the performance period) shall have qualifications that are equal to or higher than the qualifications of the person being replaced.

(e) In the event a requirement to increase the specified level of effort for a designated labor category, but not the overall level of effort of the contract occurs, the offeror shall submit to the Contracting Officer a written request for approval to add personnel to the designated labor category. The information required is the same as that required in paragraph (d) above. The additional personnel shall have qualifications greater than or equal to at least one (1) of the individuals proposed for the designated labor category.

(f) The Contracting Officer shall evaluate requests for substitution and addition of personnel and promptly notify the offeror, in writing, of whether the request is approved or disapproved.

(g) If the Contracting Officer determines that suitable and timely replacement of personnel who have been reassigned, terminated or have otherwise become unavailable to perform under the contract is not reasonably forthcoming or that the resultant reduction of productive effort would impair the successful completion of the contract or the task order, the contract may be terminated by the Contracting Officer for default or for the convenience of the Government, as appropriate. Alternatively, at the Contracting Officer's discretion, if the Contracting Officer finds the contractor to be at fault for the condition, he may equitably adjust (downward) the contract price or fixed fee to compensate the Government for any delay, loss or damage as a result of the contractor's action.

(h) Noncompliance with the provisions of this clause will be considered a material breach of the terms and conditions of the contract for which the Government may seek any and all appropriate remedies including Termination for Default pursuant to FAR Clause 52.249-6, Alt IV, "Termination (Cost-Reimbursement)".

5252.237-9503 ORDERING PROCEDURES FOR NAVY MARINE CORPS INTRANET (NMCI) SERVICES (SEP 2000)

(a) This Support Services contract may require the use of and/or access to Department of Navy (DoN) Information Technology (IT) Resources by contractor personnel for contract performance. Applicable DoN IT Resources for performance of this contract shall be procured from the NMCI Contractor pursuant to the authority of NMCI Contract # N00024-00-D-6000, clause 5.2 "Ordering."

(b) The Support Services contractor shall obtain written authorization from the Contracting Officer executing this contract, prior to ordering directly from the NMCI Contractor. No NMCI Order may be placed without the prior written authorization of the Contracting Officer. Any NMCI Order exceeding the written authorization of the Contracting Officer shall be treated as an unallowable cost pursuant to FAR Part 31.

(c) The Government shall reimburse the contractor for the placement of NMCI Orders including applicable indirect burdens (general & administrative, etc.), excluding profit or fee.

5252.242-9515 RESTRICTION ON THE DIRECT CHARGING OF MATERIAL (NAVAIR) (JUL 1998)

(a) The term "material" includes supplies, materials, parts, equipment, hardware and Information Technology (IT) resources including equipment, services and software. This is a service contract and the procurement of material of any kind that are not incidental to and necessary for contract performance may be determined to be unallowable costs pursuant to FAR Part 31. No materials may be acquired under the contract without the prior written authorization of the Contracting Officer's Representative (COR). IT resources may not be procured under the material line item of this contract unless the approvals required by Department of Defense purchasing procedures have been obtained. Any material provided by the contractor is subject to the requirements of the Federal Acquisition Regulation (FAR), the Defense Federal Acquisition Regulation Supplement (DFARS), and applicable Department of the Navy regulations and instructions.

(b) Prior written approval of the COR shall be required for all purchases of materials. If the contractor's proposal submitted for a task order includes a list of materials with associated prices, then the COR's acceptance of the contractor's proposal shall constitute written approval of those purchases.

(c) The costs of general purpose business expenses required for the conduct of the contractor's normal business operations will not be considered an allowable direct cost in the performance of this contract. General purpose business expenses include, but are not limited to, the cost for items such as telephones and telephone charges, reproduction machines, word processing equipment, personal computers and other office equipment and office supplies.

5252.243-9504 AUTHORIZED CHANGES ONLY BY THE CONTRACTING OFFICER (NAVAIR) (JAN 1992)

(a) Except as specified in paragraph (b) below, no order, statement, or conduct of Government personnel who visit the contractor's facilities or in any other manner communicates with contractor personnel during the performance of this contract shall constitute a change under the "Changes" clause of this contract.

(b) The contractor shall not comply with any order, direction or request of Government personnel unless it is issued in writing and signed by the Contracting Officer, or is pursuant to specific authority otherwise included as a part of this contract.

(c) The Contracting Officer is the only person authorized to approve changes in any of the requirements of this contract and notwithstanding provisions contained elsewhere in this contract, the said authority remains solely the Contracting Officer's. In the event the contractor effects any change at the direction of any person other than the Contracting Officer, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any increase in charges incurred as a result thereof. The address and telephone number of the Contracting Officer is:

Diane Foucher
429 E. Bowen Rd. Stop 4015
China Lake, CA 93555-6108
Phone: (760) 939-8160
Diane.Foucher@navy.mil

Section 1 - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	DEC 2001
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	JUL 1995
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 2003
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	JUL 1995
52.215-2	Audit and Records--Negotiation	JUN 1999
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-11	Price Reduction for Defective Cost or Pricing Data--Modifications	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data--Modifications	OCT 1997
52.215-14	Integrity of Unit Prices	OCT 1997
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	OCT 1997
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.219-6	Notice Of Total Small Business Set-Aside	JUN 2003
52.219-8	Utilization of Small Business Concerns	OCT 2000
52.219-14	Limitations On Subcontracting	DEC 1996
52.222-1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	SEP 2000
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	DEC 2001
52.222-41	Service Contract Act Of 1965, As Amended	MAY 1989
52.223-5	Pollution Prevention and Right-to-Know Information	AUG 2003
52.223-6	Drug-Free Workplace	MAY 2001
52.223-10	Waste Reduction Program	AUG 2000
52.225-13	Restrictions on Certain Foreign Purchases	OCT 2003
52.229-3	Federal, State And Local Taxes	APR 2003
52.232-8	Discounts For Prompt Payment	FEB 2002
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	JUN 1996

52.232-20	Limitation Of Cost	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-25	Prompt Payment	OCT 2003
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.237-2	Protection Of Government Buildings, Equipment, And Vegetation	APR 1984
52.237-3	Continuity Of Services	JAN 1991
52.242-13	Bankruptcy	JUL 1995
52.243-2	Changes--Cost-Reimbursement	AUG 1987
52.245-5	Government Property (Cost-Reimbursement Time-And-Materials, Or Labor Hour Contracts)	JUN 2003
52.253-1	Computer Generated Forms	JAN 1991
252.215-7000	Pricing Adjustments	DEC 1991
252.223-7004	Drug Free Work Force	SEP 1988
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7012	Preference For Certain Domestic Commodities	FEB 2003
252.225-7013	Duty-Free Entry	APR 2003
252.225-7016	Restriction On Acquisition Of Ball and Roller Bearings	APR 2003
252.225-7031	Secondary Arab Boycott Of Israel	APR 2003
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7025	Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends	JUN 1995
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.231-7000	Supplemental Cost Principles	DEC 1991
252.243-7001	Pricing Of Contract Modifications	DEC 1991

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52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

52.216-7 ALLOWABLE COST AND PAYMENT (DEC 2002)**(a) Invoicing.**

(1) The Government will make payments to the Contractor when requested as work progresses, but (except for small business concerns) not more often than once every 2 weeks, in amounts determined to be allowable by the Contracting Officer in accordance with Federal Acquisition Regulation (FAR) Subpart 31.2 in effect on the date of this contract and the terms of this contract. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as the representative may require, an invoice or voucher supported by a statement of the claimed allowable cost for performing this contract.

(2) Contract financing payments are not subject to the interest penalty provisions of the Prompt Payment Act. Interim payments made prior to the final payment under the contract are contract financing payments, except interim payments if this contract contains Alternate I to the clause at 52.232-25.

(3) The designated payment office will make interim payments for contract financing on the _____ [Contracting Officer insert day as prescribed by agency head; if not prescribed, insert "30th"] day after the designated billing office receives a proper payment request. In the event that the Government requires an audit or other review of a specific payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the specified due date.

(b) Reimbursing costs.

(1) For the purpose of reimbursing allowable costs (except as provided in subparagraph (b)(2) of this section, with respect to pension, deferred profit sharing, and employee stock ownership plan contributions), the term "costs" includes only --

(i) Those recorded costs that, at the time of the request for reimbursement, the Contractor has paid by cash, check, or other form of actual payment for items or services purchased directly for the contract;

(ii) When the Contractor is not delinquent in paying costs of contract performance in the ordinary course of business, costs incurred, but not necessarily paid, for --

(A) Supplies and services purchased directly for the contract and associated financing payments to subcontractors, provided payments determined due will be made-

(1) In accordance with the terms and conditions of a subcontract or invoice; and

(2) Ordinarily within 30 days of the submission of the Contractor's payment request to the Government;

(B) Materials issued from the Contractor's inventory and placed in the production process for use on the contract;

(C) Direct labor;

(D) Direct travel;

(E) Other direct in-house costs; and

(F) Properly allocable and allowable indirect costs, as shown in the records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts; and

(iii) The amount of financing payments that have been paid by cash, check or other form of payment to subcontractors.

(2) Accrued costs of Contractor contributions under employee pension plans shall be excluded until actually paid unless-

(i) The Contractor's practice is to make contributions to the retirement fund quarterly or more frequently; and

(ii) The contribution does not remain unpaid 30 days after the end of the applicable quarter or shorter payment period (any contribution remaining unpaid shall be excluded from the Contractor's indirect costs for payment purposes).

(3) Notwithstanding the audit and adjustment of invoices or vouchers under paragraph (g) of this clause, allowable indirect costs under this contract shall be obtained by applying indirect cost rates established in accordance with paragraph (d) of this clause.

(4) Any statements in specifications or other documents incorporated in this contract by reference designating performance of services or furnishing of materials at the Contractor's expense or at no cost to the Government shall be disregarded for purposes of cost-reimbursement under this clause.

(c) Small business concerns. A small business concern may receive more frequent payments than every 2 weeks

(d) Final indirect cost rates.

(1) Final annual indirect cost rates and the appropriate bases shall be established in accordance with Subpart 42.7 of the Federal Acquisition Regulation (FAR) in effect for the period covered by the indirect cost rate proposal.

(2)(i) The Contractor shall submit an adequate final indirect cost rate proposal to the Contracting Officer (or cognizant Federal agency official) and auditor within the 6-month period following the expiration of each of its fiscal years. Reasonable extensions, for exceptional circumstances only, may be requested in writing by the Contractor and granted in writing by the Contracting Officer. The Contractor shall support its proposal with adequate supporting data.

(ii) The proposed rates shall be based on the Contractor's actual cost experience for that period. The appropriate Government representative and the Contractor shall establish the final indirect cost rates as promptly as practical after receipt of the Contractor's proposal.

(3) The Contractor and the appropriate Government representative shall execute a written understanding setting forth the final indirect cost rates. The understanding shall specify

- (i) the agreed-upon final annual indirect cost rates,
- (ii) the bases to which the rates apply,
- (iii) the periods for which the rates apply,
- (iv) any specific indirect cost items treated as direct costs in the settlement, and
- (v) the affected contract and/or subcontract, identifying any with advance agreements or special terms and the applicable rates.

The understanding shall not change any monetary ceiling, contract obligation, or specific cost allowance or disallowance provided for in this contract. The understanding is incorporated into this contract upon execution.

(4) Failure by the parties to agree on a final annual indirect cost rate shall be a dispute within the meaning of the Disputes clause.

(5) Within 120 days (or longer period if approved in writing by the Contracting Officer) after settlement of the final annual indirect cost rates for all years of a physically complete contract, Contractor shall submit a completion invoice or voucher to reflect the settled amounts and rates.

(6)(i) If the Contractor fails to submit a completion invoice or voucher within the time specified in paragraph (d)(5) of this clause, the Contracting Officer may--

- (A) Determine the amounts due to the Contractor under the contract; and
- (B) Record this determination in a unilateral modification to the contract.

(ii) This determination constitutes the final decision of the Contracting Officer in accordance with the Disputes clause.

(e) Billing rates. Until final annual indirect cost rates are established for any period, the Government shall reimburse the Contractor at billing rates established by the Contracting Officer or by an authorized representative (the cognizant auditor), subject to adjustment when the final rates are established. These billing rates --

(1) Shall be the anticipated final rates; and

(2) May be prospectively or retroactively revised by mutual agreement, at either party's request, to prevent substantial overpayment or underpayment.

(f) Quick-closeout procedures. Quick-closeout procedures are applicable when the conditions in FAR 42.708(a) are satisfied.

(g) Audit. At any time or times before final payment, the Contracting Officer may have the Contractor's invoices or vouchers and statements of cost audited. Any payment may be --

- (1) Reduced by amounts found by the Contracting Officer not to constitute allowable costs; or
- (2) Adjusted for prior overpayments or underpayments.

(h) Final payment.

(1) Upon approval of a completion invoice or voucher submitted by the Contractor in accordance with paragraph (d)(5) of this clause, and upon the Contractor's compliance with all terms of this contract, the Government shall promptly pay any balance of allowable costs and that part of the fee (if any) not previously paid.

(2) The Contractor shall pay to the Government any refunds, rebates, credits, or other amounts (including interest, if any) accruing to or received by the Contractor or any assignee under this contract, to the extent that those amounts are properly allocable to costs for which the Contractor has been reimbursed by the Government. Reasonable expenses incurred by the Contractor for securing refunds, rebates, credits, or other amounts shall be allowable costs if approved by the Contracting Officer. Before final payment under this contract, the Contractor and each assignee whose assignment is in effect at the time of final payment shall execute and deliver --

- (i) An assignment to the Government, in form and substance satisfactory to the Contracting Officer, of refunds, rebates, credits, or other amounts (including interest, if any) properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract; and
- (ii) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract, except --
 - (A) Specified claims stated in exact amounts, or in estimated amounts when the exact amounts are not known;
 - (B) Claims (including reasonable incidental expenses) based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided, that the claims are not known to the Contractor on the date of the execution of the release, and that the Contractor gives notice of the claims in writing to the Contracting Officer within 6 years following the release date or notice of final payment date, whichever is earlier; and
 - (C) Claims for reimbursement of costs, including reasonable incidental expenses, incurred by the Contractor under the patent clauses of this contract, excluding, however, any expenses arising from the Contractor's indemnification of the Government against patent liability.

52.216-8 FIXED FEE (MAR 1997)

- (a) The Government shall pay the Contractor for performing this contract the fixed fee specified in the Schedule.
- (b) Payment of the fixed fee shall be made as specified in the Schedule; provided, that after payment of 85 percent of the fixed fee, the Contracting Officer may withhold further payment of fee until a reserve is set aside in an amount that the Contracting Officer considers necessary to protect the Government's interest. This reserve shall not exceed 15 percent of the total fixed fee or \$100,000, whichever is less. The Contracting Officer shall release 75 percent of all fee withholds under this contract after receipt of the certified final indirect cost rate proposal covering the year of physical completion of this contract, provided the Contractor has satisfied all other contract terms and conditions, including the submission of the final patent and royalty reports, and is not delinquent in submitting final vouchers on prior years' settlements. The Contracting Officer may release up to 90 percent of the fee withholds under this contract based on the Contractor's past performance related to the submission and settlement of final indirect cost rate proposals.

52.216-18 ORDERING (OCT 1995)

- (a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from Award through Contract Expiration. All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.
- (c) If mailed, a delivery order or task order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

52.216-19 ORDER LIMITATIONS (OCT 1995)

- (a) Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than \$2,500.00, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.
- (b) Maximum order. The Contractor is not obligated to honor--
 - (1) Any order for a single item in excess of \$3,000,000.00;
 - (2) Any order for a combination of items in excess of \$3,000,000.00; or

(3) A series of orders from the same ordering office within 10 days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

(c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) above.

(d) Notwithstanding paragraphs (b) and (c) above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within 5 days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

52.216-22 INDEFINITE QUANTITY (OCT 1995)

(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum." The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum."

(c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after September 30, 2009.

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor prior to contract expiration provided, that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 5 years.

52.222-2 PAYMENT FOR OVERTIME PREMIUMS (JUL 1990)

(a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed \$0.00 or the overtime premium is paid for work --

(1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdowns of production equipment, or occasional production bottlenecks of a sporadic nature;

(2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

(3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

(4) That will result in lower overall costs to the Government.

(b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

(1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

(2) Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

(3) Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

(4) Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 1989)

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION

Employee Class	Monetary Wage
Chief Engineer Manager	\$42.61
Electronic Instrumentation Engineer	\$42.61
Engineering Tech V	\$33.61
Mechanical Tech IV	\$30.82
Mechanical Tech III	\$22.89
Aircraft Tech IV	\$30.82
Aircraft Tech III	\$22.89
Aircraft Tech II	\$16.48
General Fab Tech IV	\$30.82
General Fab Tech III	\$22.89
General Fab Tech II	\$16.48
Photographer IV	\$30.82
Instrumentation Tech IV	\$30.83
Maint Trades Helper	\$13.74
Logistic Tech	\$20.34
Inventory Spec	\$16.27
Warehouse Specialist	\$14.88
Laborer	\$12.17

52.228-7 INSURANCE--LIABILITY TO THIRD PERSONS (MAR 1996)

(a)(1) Except as provided in subparagraph (a)(2) of this clause, the Contractor shall provide and maintain workers' compensation, employer's liability, comprehensive general liability (bodily injury), comprehensive automobile liability (bodily injury and property damage) insurance, and such other insurance as the Contracting Officer may require under this contract.

(2) The Contractor may, with the approval of the Contracting Officer, maintain a self-insurance program; provided that, with respect to workers' compensation, the Contractor is qualified pursuant to statutory authority.

(3) All insurance required by this paragraph shall be in a form and amount and for those periods as the Contracting Officer may require or approve and with insurers approved by the Contracting Officer.

(b) The Contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other insurance that is maintained by the Contractor in connection with the performance of this contract and for which the Contractor seeks reimbursement.

(c) The Contractor shall be reimbursed-

(1) For that portion (i) of the reasonable cost of insurance allocable to this contract, and (ii) required or approved under this clause; and

(2) For certain liabilities (and expenses incidental to such liabilities) to third persons not compensated by insurance or otherwise without regard to and as an exception to the limitation of cost or the limitation of funds clause of this contract. These liabilities must arise out of the performance of this contract, whether or not caused by the negligence of the Contractor or of the Contractor's agents, servants, or employees, and must be represented by final judgments or settlements approved in writing by the Government. These liabilities are for-

(i) Loss of or damage to property (other than property owned, occupied, or used by the Contractor, rented to the Contractor, or in the care, custody, or control of the Contractor); or

(ii) Death or bodily injury.

(d) The Government's liability under paragraph (c) of this clause is subject to the availability of appropriated funds at the time a contingency occurs. Nothing in this contract shall be construed as implying that the Congress will, at a later date, appropriate funds sufficient to meet deficiencies.

(e) The Contractor shall not be reimbursed for liabilities (and expenses incidental to such liabilities)-

(1) For which the Contractor is otherwise responsible under the express terms of any clause specified in the Schedule or elsewhere in the contract;

(2) For which the Contractor has failed to insure or to maintain insurance as required by the Contracting Officer; or

(3) That result from willful misconduct or lack of good faith on the part of any of the Contractor's directors, officers, managers, superintendents, or other representatives who have supervision or direction of-

(i) All or substantially all of the Contractor's business;

(ii) All or substantially all of the Contractor's operations at any one plant or separate location in which this contract is being performed; or

(iii) A separate and complete major industrial operation in connection with the performance of this contract.

(f) The provisions of paragraph (e) of this clause shall not restrict the right of the Contractor to be reimbursed for the cost of insurance maintained by the Contractor in connection with the performance of this contract, other than insurance required in accordance with this clause; provided, that such cost is allowable under the Allowable Cost and Payment clause of this contract.

(g) If any suit or action is filed or any claim is made against the Contractor, the cost and expense of which may be reimbursable to the Contractor under this contract, and the risk of which is then uninsured or is insured for less than the amount claimed, the Contractor shall-

(1) Immediately notify the Contracting Officer and promptly furnish copies of all pertinent papers received;

(2) Authorize Government representatives to collaborate with counsel for the insurance carrier in settling or defending the claim when the amount of the liability claimed exceeds the amount of coverage; and

(3) Authorize Government representatives to settle or defend the claim and to represent the Contractor in or to take charge of any litigation, if required by the Government, when the liability is not insured or covered by bond. The Contractor may, at its own expense, be associated with the Government representatives in any such claim or litigation.

52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION (OCT 2003)

(a) Method of payment.

(1) All payments by the Government under this contract, shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.

(2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--

(i) Accept payment by check or some other mutually agreeable method of payment; or

(ii) Request the Government to extend the payment due date until such time as the Government can make payment by EFT (but see paragraph (d) of this clause).

(b) Contractor's EFT information. The Government shall make payment to the Contractor using the EFT information contained in the Central Contractor Registration (CCR) database. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the CCR database.

(c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.

(d) Suspension of payment. If the Contractor's EFT information in the CCR database is incorrect, then the Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.

(e) Liability for uncompleted or erroneous transfers.

(1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--

(i) Making a correct payment;

(ii) Paying any prompt payment penalty due; and

(iii) Recovering any erroneously directed funds.

(2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--

(i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or

(ii) If the funds remain under the control of the payment office, the Government shall not make payment, and the provisions of paragraph (d) of this clause shall apply.

(f) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.

(g) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall register separately in the CCR database and shall be paid by EFT in accordance with the terms of this clause. Notwithstanding any other requirement of this contract, payment to an ultimate recipient other than the Contractor, or a financial institution properly recognized under an assignment of claims pursuant to subpart 32.8, is not permitted. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.

(h) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information made by the Contractor's financial agent.

(i) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve

System. The Government may request the Contractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address contained in the CCR database.

52.244-2 SUBCONTRACTS (AUG 1998) ALT I (AUG 1998)

(a) Definitions. As used in this clause--

“Approved purchasing system” means a Contractor's purchasing system that has been reviewed and approved in accordance with Part 44 of the Federal Acquisition Regulation (FAR).

“Consent to subcontract” means the Contracting Officer's written consent for the Contractor to enter into a particular subcontract.

“Subcontract” means any contract, as defined in FAR Subpart 2.1, entered into by a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

(b) This clause does not apply to subcontracts for special test equipment when the contract contains the clause at FAR 52.245-18, Special Test Equipment.

(c) When this clause is included in a fixed-price type contract, consent to subcontract is required only on unpriced contract actions (including unpriced modifications or unpriced delivery orders), and only if required in accordance with paragraph (d) or (e) of this clause.

(d) If the Contractor does not have an approved purchasing system, consent to subcontract is required for any subcontract that--

- (1) Is of the cost-reimbursement, time-and-materials, or labor- hour type; or
- (2) Is fixed-price and exceeds--

(i) For a contract awarded by the Department of Defense, the Coast Guard, or the National Aeronautics and Space Administration, the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of the contract; or

(ii) For a contract awarded by a civilian agency other than the Coast Guard and the National Aeronautics and Space Administration, either the simplified acquisition threshold or 5 percent of the total estimated cost of the contract.

(e) If the Contractor has an approved purchasing system, the Contractor nevertheless shall obtain the Contracting Officer's written consent before placing the following subcontracts:

(f)(1) The Contractor shall notify the Contracting Officer reasonably in advance of placing any subcontract or modification thereof for which consent is required under paragraph (c), (d), or (e) of this clause, including the following information:

- (i) A description of the supplies or services to be subcontracted.
- (ii) Identification of the type of subcontract to be used.
- (iii) Identification of the proposed subcontractor.
- (iv) The proposed subcontract price.

(v) The subcontractor's current, complete, and accurate cost or pricing data and Certificate of Current Cost or Pricing Data, if required by other contract provisions.

(vi) The subcontractor's Disclosure Statement or Certificate relating to Cost Accounting Standards when such data are required by other provisions of this contract.

(vii) A negotiation memorandum reflecting--

- (A) The principal elements of the subcontract price negotiations;
- (B) The most significant considerations controlling establishment of initial or revised prices;
- (C) The reason cost or pricing data were or were not required;
- (D) The extent, if any, to which the Contractor did not rely on the subcontractor's cost or pricing data in determining the price objective and in negotiating the final price;

(E) The extent to which it was recognized in the negotiation that the subcontractor's cost or pricing data were not accurate, complete, or current; the action taken by the Contractor and the subcontractor; and the effect of any such defective data on the total price negotiated;

(F) The reasons for any significant difference between the Contractor's price objective and the price negotiated; and

(G) A complete explanation of the incentive fee or profit plan when incentives are used. The explanation shall identify each critical performance element, management decisions used to quantify each incentive element, reasons for the incentives, and a summary of all trade-off possibilities considered.

(2) If the Contractor has an approved purchasing system and consent is not required under paragraph (c), (d), or (e) of this clause, the Contractor nevertheless shall notify the Contracting Officer reasonably in advance of entering into any (i) cost-plus-fixed-fee subcontract, or (ii) fixed-price subcontract that exceeds the greater of the simplified acquisition threshold or 5 percent of the total estimated cost of this contract. The notification shall include the information required by paragraphs (f)(1)(i) through (f)(1)(iv) of this clause.

(g) Unless the consent or approval specifically provides otherwise, neither consent by the Contracting Officer to any subcontract nor approval of the Contractor's purchasing system shall constitute a determination--

(1) Of the acceptability of any subcontract terms or conditions;

(2) Of the allowability of any cost under this contract; or

(3) To relieve the Contractor of any responsibility for performing this contract.

(h) No subcontract or modification thereof placed under this contract shall provide for payment on a cost-plus-a-percentage-of-cost basis, and any fee payable under cost-reimbursement type subcontracts shall not exceed the fee limitations in FAR 15.404-4(c)(4)(i).

(i) The Contractor shall give the Contracting Officer immediate written notice of any action or suit filed and prompt notice of any claim made against the Contractor by any subcontractor or vendor that, in the opinion of the Contractor, may result in litigation related in any way to this contract, with respect to which the Contractor may be entitled to reimbursement from the Government.

(j) The Government reserves the right to review the Contractor's purchasing system as set forth in FAR Subpart 44.3.

(k) Paragraphs (d) and (f) of this clause do not apply to the following subcontracts, which were evaluated during negotiations:

52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (APR 2003)

(a) Definitions. As used in this clause--

"Commercial item" has the meaning contained in the clause at 52.202-1, Definitions.

"Subcontract" includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)(1) The Contractor shall insert the following clauses in subcontracts for commercial items:

(i) 52.21908, Utilization of Small Business Concerns (Oct 200) (15 U.S.C.637(d)(2)(3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceed \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212(a));

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29U.S.C. 793).

(v) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631) (flow down required in accordance with paragraph (d) of FAR clause 52.247-64).

(2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

52.246-25 LIMITATION OF LIABILITY--SERVICES (FEB 1997)

(a) Except as provided in paragraphs (b) and (c) below, and except to the extent that the Contractor is expressly responsible under this contract for deficiencies in the services required to be performed under it (including any materials furnished in conjunction with those services), the Contractor shall not be liable for loss of or damage to property of the Government that (1) occurs after Government acceptance of services performed under this contract, and (2) results from any defects or deficiencies in the services performed or materials furnished.

(b) The limitation of liability under paragraph (a) above shall not apply when a defect or deficiency in, or the Government's acceptance of, services performed or materials furnished results from willful misconduct or lack of good faith on the part of any of the Contractor's managerial personnel. The term "Contractor's managerial personnel," as used in this clause, means the Contractor's directors, officers, and any of the Contractor's managers, superintendents, or equivalent representatives who have supervision or direction of-

(1) All or substantially all of the Contractor's business;

(2) All or substantially all of the Contractor's operations at any one plant, laboratory, or separate location at which the contract is being performed; or

(3) A separate and complete major industrial operation connected with the performance of this contract.

(c) If the Contractor carries insurance, or has established a reserve for self-insurance, covering liability for loss or damage suffered by the Government through the Contractor's performance of services or furnishing of materials under this contract, the Contractor shall be liable to the Government, to the extent of such insurance or reserve, for loss of or damage to property of the Government occurring after Government acceptance of, and resulting from any defects and deficiencies in, services performed or materials furnished under this contract.

52.249-6 TERMINATION (COST-REIMBURSEMENT) (SEP 1996)

(a) The Government may terminate performance of work under this contract in whole or, from time to time, in part, if--

(1) The Contracting Officer determines that a termination is in the Government's interest; or

(2) The Contractor defaults in performing this contract and fails to cure the default within 10 days (unless extended by the Contracting Officer) after receiving a notice specifying the default. "Default" includes failure to make progress in the work so as to endanger performance.

(b) The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying whether termination is for default of the Contractor or for convenience of the Government, the extent of termination, and the effective date. If, after termination for default, it is determined that the Contractor was not in default or that the Contractor's failure to perform or to make progress in performance is due to causes beyond the control and without the fault or negligence of the Contractor as set forth in the Excusable Delays clause, the rights and obligations of the parties will be the same as if the termination was for the convenience of the Government.

(c) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:

(1) Stop work as specified in the notice.

(2) Place no further subcontracts or orders (referred to as subcontracts in this clause), except as necessary to complete the continued portion of the contract.

(3) Terminate all subcontracts to the extent they relate to the work terminated.

(4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or to pay any termination settlement proposal arising out of those terminations.

(5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts, the cost of which would be reimbursable in whole or in part, under this contract; approval or ratification will be final for purposes of this clause.

(6) Transfer title (if not already transferred) and, as directed by the Contracting Officer, deliver to the Government (i) the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated, (ii) the completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Government, and (iii) the jigs, dies, fixtures, and other special tools and tooling acquired or manufactured for this contract, the cost of which the Contractor has been or will be reimbursed under this contract.

(7) Complete performance of the work not terminated.

(8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.

(9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (c)(6) of this clause; provided, however, that the Contractor (i) is not required to extend credit to any purchaser and (ii) may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.

(d) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.

(e) After expiration of the plant clearance period as defined in Subpart 45.6 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept the items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.

(f) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1-year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.

(g) Subject to paragraph (f) of this clause, the Contractor and the Contracting Officer may agree on the whole or any part of the amount to be paid (including an allowance for fee) because of the termination. The contract shall be amended, and the Contractor paid the agreed amount.

(h) If the Contractor and the Contracting Officer fail to agree in whole or in part on the amount of costs and/or fee to be paid because of the termination of work, the Contracting Officer shall determine, on the basis of information available, the amount, if any, due the Contractor, and shall pay that amount, which shall include the following:

(1) All costs reimbursable under this contract, not previously paid, for the performance of this contract before the effective date of the termination, and those costs that may continue for a reasonable time with the approval of or as directed by the Contracting Officer; however, the Contractor shall discontinue those costs as rapidly as practicable.

- (2) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subparagraph (h)(1) of this clause.
- (3) The reasonable costs of settlement of the work terminated, including--
- (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
 - (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
 - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory. If the termination is for default, no amounts for the preparation of the Contractor's termination settlement proposal may be included.
- (4) A portion of the fee payable under the contract, determined as follows:
- (i) If the contract is terminated for the convenience of the Government, the settlement shall include a percentage of the fee equal to the percentage of completion of work contemplated under the contract, but excluding subcontract effort included in subcontractors' termination proposals, less previous payments for fee.
 - (ii) If the contract is terminated for default, the total fee payable shall be such proportionate part of the fee as the total number of articles (or amount of services) delivered to and accepted by the Government is to the total number of articles (or amount of services) of a like kind required by the contract.
- (5) If the settlement includes only fee, it will be determined under subparagraph (h)(4) of this clause.
- (i) The cost principles and procedures in Part 31 of the Federal Acquisition Regulation, in effect on the date of this contract, shall govern all costs claimed, agreed to, or determined under this clause.
 - (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (f), (h), or (l) of this clause, except that if the Contractor failed to submit the termination settlement proposal within the time provided in paragraph (f) and failed to request a time extension, there is no right of appeal. If the Contracting Officer has made a determination of the amount due under paragraph (f), (h) or (l) of this clause, the Government shall pay the Contractor (1) The amount determined by the Contracting Officer if there is no right of appeal or if no timely appeal has been taken, or (2) The amount finally determined on an appeal.
 - (k) In arriving at the amount due the Contractor under this clause, there shall be deducted--
 - (1) All unliquidated advance or other payments to the Contractor, under the terminated portion of this contract;
 - (2) Any claim which the Government has against the Contractor under this contract; and
 - (3) The agreed price for, or the proceeds of sale of materials, supplies, or other things acquired by the Contractor or sold under this clause and not recovered by or credited to the Government.
 - (l) The Contractor and Contracting Officer must agree to any equitable adjustment in fee for the continued portion of the contract when there is a partial termination. The Contracting Officer shall amend the contract to reflect the agreement.
 - (m)(1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.
 - (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charged on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.
 - (n) The provisions of this clause relating to fee are inapplicable if this contract does not include a fee.

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): www.arnet.gov/far/ or www.farsite.hill.af.mil/

52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any Defense Federal Acquisition Regulation (48 CFR Chapter 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

252.243-7002 REQUESTS FOR EQUITABLE ADJUSTMENT (MAR 1998)

(a) The amount of any request for equitable adjustment to contract terms shall accurately reflect the contract adjustment for which the Contractor believes the Government is liable. The request shall include only costs for performing the change, and shall not include any costs that already have been reimbursed or that have been separately claimed. All indirect costs included in the request shall be properly allocable to the change in accordance with applicable acquisition regulations.

(b) In accordance with 10 U.S.C. 2410(a), any request for equitable adjustment to contract terms that exceeds the simplified acquisition threshold shall bear, at the time of submission, the following certificate executed by an individual authorized to certify the request on behalf of the Contractor:

I certify that the request is made in good faith, and that the supporting data are accurate and complete to the best of my knowledge and belief.

(Official's Name)

(Title)

(c) The certification in paragraph (b) of this clause requires full disclosure of all relevant facts, including--

(1) Cost or pricing data if required in accordance with subsection 15.403-4 of the Federal Acquisition Regulation; and

(2) Information other than cost or pricing data, in accordance with subsection 15.403-3 of the FAR, including actual cost data and data to support any estimated costs, even if cost or pricing data are not required.

(d) The certification requirement in paragraph (b) of this clause does not apply to---

(1) Requests for routine contract payments; for example, requests for payment for accepted supplies and services, routine vouchers under a cost-reimbursement type contract, or progress payment invoices; or

(2) Final adjustment under an incentive provision of the contract.

Section J - List of Documents, Exhibits and Other Attachments

LIST OF ATTACHMENTS

SECTION J – List of Attachments

	Title	Date	No. of Pages
Exhibit A	Contract Data Requirements List CDRL, DD Form 1423-1 & DID's	3/25/04	20
Attachment 1	SPECIMEN DD FORM 254	2/10/04	4
Attachment 2	WSL Preventative Maintenance Plan	2/05/04	31
Attachment 3	WSL Inventory Listing	N/A	40
Attachment 4	NAVFAC P-300 "Management of Transportation Equipment:	9/1992	3
Attachment 5	Wage Determination 94-2053 revision 23	6/03/03	9

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 10 hours per response, including the review of existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed forms to the appropriate agency collecting the information.</small>					
A. CONTRACT LINE ITEMING		B. CHARIT		C. CATEGORY: TOP TM OTHER: MISC	
D. SYSTEM/PMN WSL Program Support			E. CONTRACT/PRNO.		F. CONTRACTOR
1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM TECHNICAL REPORT - STUDY/SERVICES		3. SERVICE Hardware Design Definition	
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-90588A			5. CONTRACT REFERENCE SOW Para 3.1.2		6. REQUISITE OFFICE NAVAIRWD CODE 418000D
7. DOWNSHIFT LT		8. DOWNSHIFT STATEMENT REQUIRED SEE BLK 16		9. FREQUENCY ASREQ	
10. APP CODE A		11. AS OF DATE N/A		12. DATE OF FIRST SUBMISSION SEE BLK 16	
13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		14. DISTRIBUTION			
A. ADDRESSEE		Dist		B. COPIES	
Code 418000D		0		1 0	
Code 218000D		LTR		ONLY	
<p>Block 16: Remarks</p> <p>Block 4: May be in contractor format as long as DID is used for guidance.</p> <p>Block 9: Distribution Statement will be provided by the Government prior to 1st submittal.</p> <p>Blocks 12 & 13: Documents shall be delivered NLT 30 DA identification of design. Final submittal shall be 15 DA receipt of Government comments with comments incorporated.</p> <p>Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to 1st submittal.</p>					
15. TOTAL		0		1 0	
G. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 93555-6100		H. DATE 040295		I. APPROVED BY (b)(6) DRRB Chairperson	
J. NAME 040325					

DD Form 1423-1, 1 Jun 9090

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)				Form Approved OMB No. 0704-0188	
<small>Public Reporting Burden for this collection of information is estimated to average 170 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send complete form to the appropriate agency collection office or contractor as listed in Block 5.</small>					
A. CONTRACT LINE ITEM NO.		B. LINE NO.	C. CATEGORY TOP TM OTHER MCCR		
D. SYSTEM ITEM WSL Program Support		E. CONTRACT PR NO.		F. CONTRACTOR	
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM COMPUTER SOFTWARE PRODUCTS END ITEM		3. SUBTITLE Test/Facility requirements, Source Code & Instructions		
4. AUTHORITY (State Acquisition Document No.) DI-MCCR-88708		5. AUTHORITY REFERENCE SOW Para 3.1,2		6. RECORDS OFFICE NAVAIRWD CODE 41E300D	
7. DO NOT REQ LT	8. STATEMENT REQUIRED SEE BLK 16	9. FREQUENCY ASREQ	10. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION	
11. APP CODE A	12. DATE OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	14. ADDRESS	15. COPIES	
Block 16: Remarks Block 4: May be in contractor format as long as DID is used for guidance. Block 9: Distribution Statement will be provided by the Government prior to 1 st submittal. Blocks 12 & 13: Data shall be delivered NLT 30 DA identification of design. Final submittal shall be 15 DA receipt of Government comments with comments incorporated. Block 14: Shall be delivered in an electronic format agreed upon by both Government and Contractor prior to 1 st submittal.			Dist	Reg	Spec
			0	1	0
16. TOTAL			0	1	0
9. PREPARED BY Naval Air Warfare Center, Weapons Division, China Lake, CA 91544-4100		10. DATE 040205	11. APPROVED BY (b)(6) DRRB Chairperson		12. DATE 040325

DD Form 1423-1, 1 Jun 9090

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION		1. CLEARANCE AND REQUIREMENTS	
(The requirements of the DoD National Industrial Security Program Operating Manual apply to all security aspects of this effort.)		a. FACILITY CLEARANCE REQUIRED	
		SECRET	
		b. LEVEL OF SUPERVISORS REQUIRED	
		NONE	
2. THIS SPECIFICATION IS FOR: a. and complete or modified		3. THIS SPECIFICATION IS FOR: a. and complete or modified	
a. PRIME CONTRACT NUMBER N68838-04-D-0032		a. ORIGINAL (complete date in all cases)	
b. SUBCONTRACT NUMBER		b. REVISED (specify date of product issue)	
c. SOLICITATION OR OTHER NUMBER		c. FINAL (complete item # in all cases)	
DATE DATE (YYYYMMDD)		DATE (YYYYMMDD)	
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If YES, complete the following:			
Classified records received or generated under this contract number is transferred to this follow-on contract.			
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If YES, complete the following:			
In response to the contractor's request, the information of the identified classified material is authorized for the benefit of:			
a. SYSTEMS APPLICATION & TECHNOLOGIES INC. 2230 STRATHAM BLVD., SUITE A COLUMBIA, PA 17304-9914		b. NAME CODE OKE94	
c. COORDINATE SECURITY OFFICE (Name, Address, and Zip Code) DEFENSE SECURITY SERVICE 1140 W. 190th ST., #2028 GARDENA, CA 90248			
6. IDENTIFICATION			
a. NAME, ADDRESS, AND ZIP CODE		b. NAME CODE	
		c. COORDINATE SECURITY OFFICE (Name, Address, and Zip Code)	
7. ACRONYM PERFORMANCE			
a. LOCATION		b. NAME CODE	
		c. COORDINATE SECURITY OFFICE (Name, Address, and Zip Code)	
8. SUMMARY DESCRIPTION OF THE PROGRAM SUPPORT RESEARCH, DEVELOPMENT, TEST AND EVALUATION PROGRAMS UNDER THE COGNIZANCE OF THE WEAPONS SURVIVABILITY LABORATORY (WSL), NAVAL AIR WARFARE CENTER WEAPONS DIVISION (NANCAWD), CHINA LAKE, CA TPOC: MR. JAY COVAR, CODE 418308D, 790-626-6173			
9. THIS CONTRACT WILL REQUIRE ACCESS TO:			
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		b. IN PERFORMING THE CONTRACT, THE CONTRACTOR WILL:	
YES NO		YES NO	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> <input type="checkbox"/>	
b. RESTRICTED DATA		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		b. RECEIVE CLASSIFIED DOCUMENTS ONLY	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
d. FORMERLY RESTRICTED DATA		c. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
a. INTELLIGENCE INFORMATION		d. FABRICATE, RECOPY, OR STORE CLASSIFIED HARDWARE	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
(1) SENSITIVE COMPARTMENT INFORMATION (SCI)		e. PERFORM SERVICES ONLY	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
(2) NON-SCI		f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
g. SPECIAL ACCESS INFORMATION		g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECURITY INFORMATION CENTER	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
h. INFO INFORMATION		h. RECEIVE A GORRILL MESSAGE	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
i. FOREIGN GOVERNMENT INFORMATION		i. HAVE TRUST RECOMMENDATIONS	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
j. LIMITED DISTRIBUTION INFORMATION		j. HAVE OPERATIONS SECURITY (OPSEC) RECOMMENDATIONS	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
k. PDB OFFICIAL USE ONLY INFORMATION		k. BE AUTHORIZED TO USE THE DEFENSE COUNCIL SERVICE	
<input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input checked="" type="checkbox"/>	
l. OTHER (Specify)		l. OTHER (Specify)	

1. PUBLIC RELEASE: Any information identified or controlled as such by this contract shall remain classified for public release until the receipt of a declassification authority. Request public release shall be submitted to appropriate authority.

Direct Through (Specify) _____
COMMANDER, NAVAL AIR WARFARE CENTER, WEAPONS DIV (74118SD), CHINA LAKE, CA 93556

to the Director for Protection of Information and Security Center, Office of the Assistant Secretary of Defense (Public Affairs) for review.

2. SECURITY CLASSIFICATION: The security classification guidance applies to the classification of information. If any difficulty is encountered in applying this guidance or if any other information later becomes known or changes in this guidance, the contractor is authorized and encouraged to provide recommendations for changes to the guidance. The contractor is authorized to request a change to the classification assigned to any information or material furnished or generated under this contract, and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information furnished shall be handled and protected at the highest level of classification assigned or recommended. (It is an appropriate for the classified effort. Attach, or describe, any special circumstances, any dissemination restrictions, etc. Attach additional pages or copies to public release guidance.)

FOR ALL WORK PERFORMED ABOARD MANCOWNS, THE REFERENCE SECURITY REGULATION WILL BE SECNAVINST 8016.36 AND LOCAL SECURITY INSTRUCTIONS

WORK WILL BE PERFORMED PRIMARILY AT, BUT NOT LIMITED TO, THE WFL, MANCOWNS, CHINA LAKE, CA. OTHER POTENTIAL SITES INCLUDE NAVAL WEAPONS DIVISION WHITE SANDS, NM AND MANCOWNS, CHINA LAKE, CA.

NAVAL AIR WARFARE CENTER WEAPONS DIVISION, CHINA LAKE, CA WILL PROVIDE SECURITY CLASSIFICATION GUIDANCE FOR PERFORMANCE OF THIS CONTRACT.

10g: There is no valid requirement for access to NATO for performance on this contract, however in order to facilitate future potential access to NATO classified information, all DoD military, civilian and contractor personnel who are briefed on their responsibilities for protecting U.S. classified military information shall be briefed on the requirements for protecting NATO information, per Deputy Under Secretary of Defense (Security Policy) memo of 5 Dec 01. A final U.S. Government clearance, at the appropriate level, is required for access to NATO information. Written approval of the Contracting Officer is required prior to subcontracting.

18J: THE "FOR OFFICIAL USE ONLY" INFORMATION PROVIDED UNDER THIS CONTRACT SHALL BE SAFEGUARDED IN ACCORDANCE WITH ATTACHMENT #1.

Distribution Statements must be on all classified and unclassified technical documents. Refer to the Contract Data Requirements List (CDRL) Block 8 for the required Distribution Statement for your data, or contact the TPOC shown in item 9 of this DD254.

14j: The contractor is required to provide OPERATIONS SECURITY (OPSEC) protection for all classified information (as defined by the FAR 4.401) and sensitive information. While performing aboard MANCOWNS sites, the contractor will comply with the provisions of OPNAV 3432.1 and local command OPSEC instructions; at all other sites the contractor shall comply with the local command and/or program OPSEC plans.

11. ADDITIONAL SECURITY REQUIREMENTS: Requirements, in addition to FAR 48.204 requirements, are established for this contract. If Yes, identify the pertinent contract clause in the contract document level, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognate security office. Use item 10 if additional space is needed.

Yes No

See item 13 above

12. REPORTING: Methods of this contract are subject to the inspection responsibility of the cognate security office. If Yes, specify reporting schedule areas or elements covered and the entity responsible for inspection. Use item 10 if additional space is needed.

Yes No

13. CONTRACTOR AND PERSONNEL: Security requirements establish an complete and complete for safeguarding the classified information to be released or provided under this contract. If necessary, shall be placed in the final contract.

Yes No

JOYCE K. FOCA a. REPORTING (attach to each) COMMANDER ATT: 7.4.1, 8405, R103 NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION 22914 MC COY ROAD, UNIT 10 NAVAL WEAPONS DIVISION, WHITE SANDS, NM 87199-1000	CONTRACTING OFFICER'S SECURITY REPRESENTATIVE (COSR)	a. TELEPHONE (include Area Code) 301-757-6988												
<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>a. CONTRACTOR</td> </tr> <tr> <td><input type="checkbox"/></td> <td>b. SUBCONTRACTOR</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>c. CONTRACTOR SECURITY OFFICER FOR PUBLIC AIR OPERATIONS</td> </tr> <tr> <td><input type="checkbox"/></td> <td>d. MILITARY RESPONSIBILITY FOR SECURITY SENSITIVE INFORMATION</td> </tr> <tr> <td><input type="checkbox"/></td> <td>e. ADDITIONAL CONTRACTOR OFFICER</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>f. OTHER AUTHORITY</td> </tr> </table>			<input checked="" type="checkbox"/>	a. CONTRACTOR	<input type="checkbox"/>	b. SUBCONTRACTOR	<input checked="" type="checkbox"/>	c. CONTRACTOR SECURITY OFFICER FOR PUBLIC AIR OPERATIONS	<input type="checkbox"/>	d. MILITARY RESPONSIBILITY FOR SECURITY SENSITIVE INFORMATION	<input type="checkbox"/>	e. ADDITIONAL CONTRACTOR OFFICER	<input checked="" type="checkbox"/>	f. OTHER AUTHORITY
<input checked="" type="checkbox"/>	a. CONTRACTOR													
<input type="checkbox"/>	b. SUBCONTRACTOR													
<input checked="" type="checkbox"/>	c. CONTRACTOR SECURITY OFFICER FOR PUBLIC AIR OPERATIONS													
<input type="checkbox"/>	d. MILITARY RESPONSIBILITY FOR SECURITY SENSITIVE INFORMATION													
<input type="checkbox"/>	e. ADDITIONAL CONTRACTOR OFFICER													
<input checked="" type="checkbox"/>	f. OTHER AUTHORITY													
TPOC, COSR														

(b)(6)

(b)(6) Form 254 DEC 99

FOR OFFICIAL USE ONLY INFORMATION

The "For Official Use Only" (FOUO) marking is assigned to information at the time of its creation in a DOD User Agency. It is not authorized as a substitute for a security classification marking but is used on official government information that may be withheld from the public under exemption 2 through 9 of the Freedom of Information Act.

Other non-security markings, such as "Limited Official Use" and "Official Use Only" are used by non-DOD User Agencies for the same type of information and should be safeguarded and handled in accordance with instruction received from such agencies.

Use of the above markings does not mean that the information cannot be released to the public, only that it must be reviewed by the government prior to its release to determine whether a significant and legitimate government purpose is served by withholding the information or portions of it.

Identification Markings. An unclassified document containing FOUO information will be marked "For Official Use Only" at the bottom of the front cover (if any), on the first page, on each page containing FOUO information on the back page, and on the outside of the back cover (if any). No portion markings will be shown. Within a classified document, an individual page contains both FOUO and classified information will be marked at the top and bottom with the highest security classification of information appearing on the page. If an individual portion contains FOUO information but no classified information, the portion will be marked. "FOUO."

Removal of the "For Official Use Only" marking can only be accomplished by the originator or other competent authority. When the "For Official Use Only" status is terminated, all known holders will be notified to the extent practical.

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WEAPONS SURVIVABILITY LABORATORY **PREVENTIVE MAINTENANCE PLAN**

Updated 2-05-2004

I. PURPOSE

To establish a maintenance plan for the upkeep of the Weapons Survivability Laboratory facilities and equipment to achieve a safer and more reliable operation of the WSL and its equipment. (WSL)

II. GENERAL

A. The maintenance functions covered in this plan include minor repairs and general housekeeping of the WSL facilities, upkeep, cleaning and regular inspection of WSL equipment. These functions are preventive in nature and are not intended to replace the maintenance performed by the Equipment Maintenance Branch, Public Works Department (PWD) or their designated contractor(s).

B. An attempt has been made to organize the maintenance duties into areas of responsibility, wherever possible. This will make it easier to delineate who is responsible for performing the required maintenance.

C. Appendix A provides a list of maintenance functions covered under this plan.

III. PROCEDURES

A. The contractor designated task leaders/Supervisors shall be responsible for assigning tasks, monitoring performance, and keeping records of all the maintenance activities.

B. Equipment Record Sheets (ERS) shall be used for repair, inspection and maintenance check off. ERS' will be maintained in three ring binders for recording routine inspections and discrepancies. The following information shall be recorded on the ERS:

1) Equipment name, positive identifier (Serial Number, Bar Code Number, applicable; Plant Account Number, if applicable; etc.) if

2) Date of inspection, hour-meter reading, mileage, if applicable.

Include parameter readings obtained during the operational checks.

3) Initials of person doing the inspection/check.

C. Discrepancies will be noted on an attachment to the record card to be maintained with the respective equipment record. The responsible individual/supervisor will record equipment faults, problems, discrepancies and "repairs" and will ensure that the Facilities Coordinator for Code 418300D is notified. The individual will also initial the record entry. Records will be maintained in the contractor office or in the individual shop where the equipment is located. Record sheets and attachments will be updated at all inspections. The introduction of fluids, (i.e. lubricants, antifreeze, air filters etc.), will be noted in the record.

D. When repairs exceeding 6-8 hours are necessary, the responsible individual will notify the Facilities Coordinator. Repairs shall not be made by contractor personnel on equipment maintained by the PWD or their designated contractor(s) unless approved by the WSL/COR.

E. Where applicable, the manufacturer's recommended maintenance intervals shall be used. In the absence of such information, the intervals shall be based upon mileage, operating time, cycles or past experience, as appropriate.

F. In order to avoid conflicts and downed test support equipment, the coordination of Maintenance efforts, and or repairs is required. In the event of a conflict between maintenance and project schedules, the Program Manager will, in coordination with the WSL/COR, set the priority.

G. The following procedures shall be used for any contractor proposed major improvement and/or modification to the WSL facilities or equipment:

1) The responsible individual shall prepare and submit proposed improvements/ modification plans to the contractor Program Manager for review and approval.

2) Proposed plans shall describe in detail the purpose, estimated cost (man-hour and materials), and proposed schedule to allow for the WSL Branch approval. Head/COR

3) The contractor Program Manager will review and submit the proposed plan to the WSL Branch Head/COR for approval.

4) Any changes to the approved plan shall require concurrence of the contractor Program Manager and the WSL Branch Head/COR.

H. WSL Facility and equipment discrepancies or damage will be reported to the Facilities Coordinator for Code 418300D.

I. WSL and Contractor vehicle discrepancies will be reported to the Maintenance Plan Supervisor/Coordinator.

J. Winter Preparation:

1) All water cooled internal combustion engines must be prepared for winter. This includes vehicles, stationary engines (i.e. Chrysler, etc.), generators and welders. This will include the adding of anti-freeze, changing of oil, etc. The above equipment will have coolant systems drained, flushed and serviced on a 24 month cycle.

2) Water systems must be inspected and prepared for winter. This may include wrapping of pipes, unions, valves, faucets, etc.

3) Portable Pumps must be inspected for leaks and prepared for winter conditions.

4) Exterior eye wash and shower stations must be inspected and winterized.

NOTE: 1. The winterization may be accomplished by use of lagging, heat tape, heaters or heat lamps.

2. All equipment, containing water or water-solutions, that are operated when day or night ambient temperature drops to, or below 32^o F, must be completely drained, or stored in weather protected buildings. (i.e., pumps, monitors, hoses, etc.)

IV. WSL Maintenance Activities

A. Check(s): Checks are to include refilling to proper levels all lubricating, cooling, pressure and hydraulic systems. De-winterize or winterize cooling and lubrication systems as season dictates. Clean equipment of sand debris, and accumulated grease/oil. Perform an operational check. Record noted operating parameters, include: temperature, oil pressure, cooling, charging systems, and other pertinent values for each respective system. Note discrepancies and repair accordingly, or report major problems to WSL/COR for further action.

B. Minor Repairs: Repairs requiring less than 6-8 man hours of labor or costing less than \$200.00.

C. Discrepancies: Abnormal status including lubrication, coolant and pressure systems, hard-to-operate control/drive/stop systems and other system deviations from applicable specifications.

MAINTENANCE ACTIVITIES

ALL EQUIPMENT IN GENERAL: Support Equipment will be maintained such that it remains clean, free of rust, and free of accumulations of debris. It will be properly maintained so that it remains in good operating condition.

I. MACHINE SHOP (Building 31192)

FREQUENCY

NOTE: 1. The responsibility for maintenance and operation of the equipment in the Machine Shop rests with the Shop Supervisor.

2. Protective guards on machines may be removed only to facilitate adjustments and/or machine setup procedures prior using the machinery, or during periods of machinery servicing and/or repairs to the equipment. All guards must be in place before/during equipment operation periods.

- | | | |
|----|--|------------------|
| A. | Clean floor and workbenches. | Daily |
| B. | Clean and store away all shop tools at the end of the day. | Daily |
| C. | Sharpen all necessary equipment. | Before Use |
| D. | ADRIA SHEAR (BC 082807) | |
| 1) | Keep machined surfaces protected with a light film of oil. | weekly |
| 2) | Keep the machine clean, free of swarf, mill scale, and foreign matter. | Before/After Use |

3)	Clean and oil blades.	Weekly/As Required
4)	Check blades for wear.	Bi-monthly
5)	Check hydraulic system for leakage.	Weekly
6)	Check general condition of the the machine for correct tightness. of screws and nuts	Bi-monthly
E. MILLS- INDEX (BC 449079), LAGUN (BC 720263) VAN NORMAN (BC 010278)		
1)	Lightly oil ways after removal of dust/grit.	Weekly/ Before Use
2)	During operation, operate single shot plunger to lubricate table and saddle.	Every Hour
3)	Check for proper movement on all controls; X, Y, and Z. Check that table movement stops when feed levers are placed in neutral.	Before Use
4)	Clean up chips, wipe the ways, feed shaft splines and exposed surfaces with lightly oiled rag.	Weekly/ After Use
F. Drill Press (BC 053265) Radial Drill Press (BC 410429)		
1)	Check spindle for freedom of operation.	Before Use
2)	Check oil level in gear box sight gage, turn on machine, observe that oil is pumping as viewed in sight glass.	Before Use
<u>CAUTION: If pumping pulses are not present shut off machine for repair. prior to further use</u>		
3)	Check operation of auto feed.	Before Use
4)	Clean machine and wipe exposed surfaces with lightly oiled rag.	weekly
5)	Apply oil to sliding surfaces on spindle, spindle splines and auto feed shaft slide.	Weekly After Use
G. LATHES- MONARCH 13.5"(BC 504567), MONARCH 10" (BC 038454), CHEVELIER 1840 (BC)		
1)	Clean and lightly oil ways, cross-feed, compound, and	Weekly/ After Use

	tail-stock saddle.	
2)	Check gear box oil levels, add oil as needed.	before use
3)	Clean all chips from machine and chip tray.	After Use
4)	Check lead screws for accumulation of debris, clean as required	Weekly/Before/After Use
5)	Check oil level in head-stock, add oil to restore it the proper level.	Monthly
6)	Check gib adjustment in cross and compound feeds, adjust as required.	Monthly
H.	STATE 16" DISC GRINDER (BC621283)	
1)	Check condition of sanding disc; replace if necessary.	Before Use
2)	Clean and wipe all exposed surfaces with lightly oiled rag.	Daily/after use
I.	STRIPPET PUNCH (BC 064377)	
1)	Clean punch and stripping guide; apply molybdenum-disulfide ("Moly-B") lubricant to moving parts. Re-grind punches to maintain cutting edges as needed.	Before Use/ As Required
2)	Inspect dies for damage, re-grind if damaged	Before Use/ As Required
	NOTE: Measure punches and Dies after grinding with proper gage for length as indicated. Replace punches and dies when they become to short for safe use.	
3)	Inspect Punch holder and die base, remove burrs and nicks in bores and slots to prevent sticking. Lightly oil bore.	Before Use/ As Required
4)	Clean all working surfaces and moving parts, wipe exposed surfaces down with lightly oiled rag.	Weekly/Before/ After Use
5)	Remove front cover from Hydro-mechanical punch drive unit. Remove excess grease accumulation around hydraulic	Monthly

cylinder louvers. Check oil level in reservoir with special dipstick, add gear oil as needed.

J. IRON CRAFTER (BC 627714) & (BC 621284)

- | | | |
|-----|---|-----------------------|
| 1) | Check punch and die for proper alignment. | Before Use |
| 2) | Lubricate punch with lube oil. | Before/
During Use |
| 3) | Ensure wedge is tight on punch station base. | Before Use |
| 4) | Ensure punch coupling nut is tight. | Before Use |
| 5) | Check blade alignment on shear station. | Before Use |
| 6) | Inspect blades on shear station for damage. | Before Use |
| 7) | Check shear station operation | Before Use |
| 8) | Wipe down machine. | After Use |
| 9) | Check hoses and fittings for leaks. | Weekly |
| 10) | Check shear ways for looseness. | Monthly |
| 11) | Check add-a-stations for alignment and freedom of movement. | Before Use |

NOTE: Do not remove guards during use.

K. MARVEL SAW (BC 640935)

- | | | |
|----|--|-----------------|
| 1) | Check blade for damage, alignment, and tension setting, insure detent is felt when tensioning blade. If not felt, adjust accordingly. | Before Use |
| 2) | Check operation: Proper cutting fluid flow, proper feed engagement, red emergency stop switch function, and auto shut off functions. Ensure column travel and hand wheel works smoothly. | Daily/After Use |
| 3) | Remove chips from pan and add cutting fluid/coolant as needed. | After Use |

	4)	Clean carriage support rails.	After Use
	5)	Clean coolant pump inlet screen.	Monthly/ as needed
	6)	Realign band wheels.	Monthly / as needed
	7)	Check blade guides for wear.	Monthly/ as needed
	8)	Check adjustment of pressure blocks.	Monthly/ as needed
	9)	Clean and lightly oil table surface.	After use
L.	ATLANTIC PRESS BRAKE (BC 082807)		
	1)	Check operation. Check for loose or broken parts prior to operating the machine.	Before Use
	2)	Check tightness of screws that hold punches and dies to ram and platen.	Before Use
	3)	Check back stop for proper operation.	Before Use
	4)	Clean machine and lightly oil exposed surfaces.	After Use
	5)	Lower ram to rest on cylinder stops at end of job.	After Use
	6)	Ensure automatic lubrication system has operated.	weekly
	7)	Check oil level in hydraulic reservoir.	Weekly
	8)	Wipe down surfaces of punches, dies and platen to prevent rust.	Monthly/as needed
M.	BAND SAW, DoAll V-36, (BC018665)		
	1)	Check condition/adjustment of drive and idler wheels, tires, blade rollers/guides, and blade tensioner. Clean or lube as required.	Monthly/as needed
	2)	Check operation.	Before Use
	3)	Check operation and adjustment of blade welder unit.	Before Use

- | | | |
|----|--|----------------------|
| 4) | Clean Machine, lightly oil exposed surfaces. | Weekly/
After Use |
|----|--|----------------------|

N.	GRINDERS: PEDESTAL GRINDER, MILLERS FALLS (461202), DAREX SHARPENER (S/N 50212), DAREX END MILL SHARPENER (S/N 90356), STRIPPET PUNCH AND DIE GRINDER, AND MILWAUKEE PEDESTAL GRINDER (S/N W-93).	DRII 6"
----	---	------------

- | | | |
|----|--|----------------------|
| 1) | Check condition of wheel guards and eye shields; replace eye shields and light bulbs if their condition obscures operators view of work. | Weekly/
as needed |
| 2) | Adjust tool rests. | Before Use |
| 3) | Dress or replace wheels. | As Needed |

O. HOBART TIG/ELECTRIC ARC WELDER (CYBER-WAVE)

- | | | |
|----|--|------------|
| 1) | Check condition of leads, electrode, ground clamp, torch, and attached hoses | Daily |
| 2) | Check flow of fluid and level of coolant in supply tank. | Before Use |
| 3) | Check operation of flow meter and Argon volume. | Before Use |

P.

ELECTRIC AND AIR OPERATED PORTABLE TOOLS.

NOTE: The responsibility for air and portable tools rests with the individual operator.

- | | | |
|----|---|------------|
| 1) | Check and add tool oil every four hours of operation. | Daily |
| 2) | Add air tool oil at the end of work day and store. | Daily |
| 3) | Check condition of cords, blades, etc. | Before Use |
| 4) | Check condition of guards when applicable. | Before Use |

Q.	HYDRAULIC LIFT TABLES: PRESTO LIFT, 1,000 LBS. CAP. (3 ea); DANDY	1,760 LBS. CA
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NOTE: The responsibility for the lift tables rests with the operator.

- | | | |
|----|-------------------|------------|
| 1) | Check operation . | Before Use |
|----|-------------------|------------|

	2)	Check fluid level and lubricate moving parts as needed.	Before Use	
	3)	Clean table.	After Use	
R.		MIG WELDERS: (1. Hobart-Beta LF w/17 feeder) (2. Hobart BetaMig 250) (3. Hobart BetaMig 251)		
		<u>NOTE: The responsibility for operation and maintenance of the Welder rests with the operator.</u>		
	1)	Check operation.	Before Use	
	2)	Check cables, torch assembly and gas hoses for deterioration.	Before Use	
S.		MONTGOMERY ROLLER		
	1)	Check operation of hydraulic system/ controls and emergency-off lanyard switch assembly.	Before Use	
	2)	Clean rolls and oil lightly.	As prescribed in manual; do not over grease.	
	3)	Lubricate all zerk fittings using lithium base moly-disulfide base grease.	Before Use	
		<u>NOTE: During periods of continuous use, grease twice daily and check gears for damage/excessive wear. In addition, check for looseness in gears linkages and bolts on a weekly basis.</u>		
T.		SHEET METAL TOOLS: #100 ROPER/WHITNEY CORNER NOTCHER; ARCO 12" SHEAR; DI-ARCO 12" FINGER BRAKE THROATLESS SHEAR.		DI-
			AND B3 BEVERLY	
	1)	Lubricant all moving surfaces and wipe down exposed surfaces with a lightly oiled rag.	Weekly	
	2.	Check adjustments of machines.	As required	
U.		DAYTON COMPRESSOR (BC 018661)		
	1)	Drain water from trap.	Daily	
	2)	Check belts and operation.	Bi-Weekly	
	3)	Check Air Filters, (clean with		

compressed air or replace element as needed).

Bi-Weekly

4) Check Oil.

Weekly

5) Change Oil.

Semi-Annually

V. CUTOFF SAW AND BELT SANDER

1) Check conditions of wheel guards.

Before Use

2) Adjust tool rests.

Before Use

3) Clean machines and properly store.

After use

II. ASSEMBLY BUILDING (Building 31150)

NOTE: The responsibility for maintenance and operation of the equipment in the Assembly Building rests with the Machine Shop Supervisor

1) Store away any items that are not used on a daily basis.

daily

2) Properly stow loose items.

Daily

3) Clean floor and empty trash cans.

Weekly/
As Required

4) Clean and store away tools at the end of work day.

Daily

5) Properly stow hoses and electrical cables.

Daily

A. RIGID THREADING MACHINE (BC 504559)

1) Check operation and oil level.

Before Use

2) Clean machine and properly store.

After Use

3) Clean machine and change cutting oil.

Annually/as
needed.

B. SPOT WELDER: MILLER 200 AMP

NOTE: The responsibility for operation and maintenance of the Spot Welder rests with the operator.

1) Disconnect power during inspection.

Before Use

2) Inspect cords for wear, cracks, or

Before/

damage.

After Use

- | | | |
|----|--|----------------------|
| 3) | Check tong tip alignment. | Before/
After Use |
| 4) | Check tong pressure. | Before/
After Use |
| 5) | Examine tong tips for dents, nicks,
or mushrooming. | Before/
After Use |
| 6) | Wipe tong and tong holders clean. | Before/
After Use |
| 7) | Disable equipment (Turn off). | After Use |
| 8) | Clean Machine and properly stow. | After Use |

C. ENERPAC GEAR; HYDRAULIC PRESS (BC 018661) AND VARIOUS ENERPAC HYDRAULIC CYLINDERS, PUMPS, (manual and electric), AND ASSOCIATED GEAR (Building 31150)

NOTE: The responsibility for the operation of the Enerpac rests with the individual operator.

- | | | |
|----|---|----------------------|
| 1) | Check fluid level. | Before Use |
| 2) | Check hoses. | Before Use |
| 3) | Clean exposed surface of cylinder
pistons and check operation. | Before Use |
| 4) | Clean up spilled oil and put equipment
in proper place. | Monthly/as
needed |

D. THERMODYNAMIC PLASMA ARC TORCH (PAK-10XR)

NOTE: The responsibility for Plasma torch rests with the individual operator.

- | | | |
|----|--|------------|
| 1) | Check hose and handle for cracks
and holes. Check condition of nozzle
and ceramic cup. | Before Use |
| 2) | Check electrical plug and wiring for
damage. | Before Use |
| 3) | Check air supply for contaminants,
and proper pressure/flow rate. | Before Use |

E. ECONOLINE SAND BLASTING MACHINE
(BC 496918, S/N 96-0334)

- | | | |
|----|-----------------------------|------------|
| 1) | Check for proper operation | Before Use |
| 2) | Sweep up any spilled media. | After Use |

III. FIRE CONTROL BUILDING (Building 31167)

NOTE: The responsibility for maintenance and operation of the equipment in the Fire Control Building area rests with the Shop Supervisor and equipment operator.

A. AIR COMPRESSOR

- | | | |
|----|----------------------------|-----------|
| 1) | Drain water from trap. | Weekly |
| 2) | Check belts and operation. | Weekly |
| 3) | Check Air Filters. | Bi-Weekly |
| 4) | Check Oil. | Weekly |
| 5) | Change Oil. | Annually |

B. DRILL AND CORNER PUNCH (BC 7812266)

- | | | |
|----|---|----------------------|
| 1) | Check condition of tooling and fixture. | Before Use |
| 2) | Check Operation. | Before Use |
| 3) | Clean and coat exposed surfaces with light oil. | Weekly/
After Use |

C. STATE 16" DISC GRINDER (BC 714007)

- | | | |
|----|--|------------|
| 1) | Check condition of sanding disc, replace if necessary. | Before Use |
| 2) | Clean, wipe exposed surfaces with lightly oiled rag. | After Use |

D. SHEARS, FINGER BRAKE

- | | | |
|----|-------------------------------------|------------|
| 1) | Lubricate working surfaces. | Before Use |
| 2) | Check condition of cutting surface. | Before Use |
| 3) | Clean with solvents and lightly oil | |

M. BAND SAW, DoAll V-36, (BC440607)

- | | | |
|----|--|-------------------|
| 1) | Check condition/adjustment of drive and idler wheels, tires, blade rollers/guides, and blade tensioner. Clean or lube as required. | Monthly/as needed |
|----|--|-------------------|

- | | | |
|----|--|----------------------|
| 2) | Check operation. | Before Use |
| 3) | Check operation and adjustment of blade welder unit. | Before Use |
| 4) | Clean Machine, lightly oil exposed surfaces. | Weekly/
After Use |

IV. SAFETY EQUIPMENT

**A. SAFETY SHOWER AND EYE WASH STATIONS(Mercury Bldg.)
(Machine Shop)(Fire control)(Paint booth)(LFT test pad and fuel farm)**

- | | | |
|----|--|---------|
| 1) | Check operation. | Weekly |
| 2) | Lubricate handles. | Monthly |
| 3) | Operate shower for a minimum of 3 minutes. | Weekly |
| 4) | Flush eyewash for a period of 3 minutes. | Weekly |
| 5) | Date and initial attached cards. | Weekly |
| 6) | Check operation of overhead door. | Weekly |

B. PORTABLE EYE WASH (2 UNITS)

- | | | |
|----|----------------------------|-----------|
| 1) | Check air pressure | Weekly |
| 2) | Replace water add Hydrosep | Quarterly |

C. FIRE EXTINGUISHERS (Dry Chemical)

- | | | |
|----|------------------------|---------|
| 1) | Check for full charge. | Monthly |
|----|------------------------|---------|

D. FIRE EXTINGUISHERS (Water)

- | | | |
|----|---------------------------------------|---------|
| 1) | Check for full charge and anti-freeze | Monthly |
|----|---------------------------------------|---------|

E. FIRE EXTINGUISHERS (CO2)

- | | | |
|----|-----------------------|---------|
| 1) | Check for full charge | Monthly |
|----|-----------------------|---------|

F. PAINT LOCKER

- | | | |
|----|--|--------|
| 1) | Check for spills or leaks and housekeeping | Weekly |
| 2) | Check for functioning temperature control. | Weekly |

- 3) Replace light bulbs as needed
- G. FLAMMABLE LOCKERS (Machine Shop)(Jet shop)
(Fire control)(Main test pad)(K2 test pad)

- 1) Check for spills, leaks and housekeeping Weekly

V. GENERAL AREA AND COMPOUND

NOTE: GENERAL HOUSEKEEPING Daily

- 1) Remove and dispose of debris as necessary. Bi-Weekly
- 2) Remove sand, drag access areas. Annually/As Required

A. CEMENT MIXER(Stored in Lock-up cage)

- 1) Check oil, air filter and spark plug. Before Use
- 2) Change oil and lubricate. Annually
- 3) Run and warm up Monthly
- 4) Clean thoroughly, oil if needed, shut of gas, run gas out of carburetor. After use

B. POST HOLE DIGGER (Little Beaver, stored in lock up cage)

- 1) Clean and grease transmission shaft, shut off gas, run gas out of carburetor After Use
- 2) Clean lubricate and adjust throttle cable for proper carburetor operations, check oil level. Before Use
- 3) Sharpen or replace blade inserts. Before/ After Use
- 4) Change crankcase oil. Annually

C. CHAIN SAW

- 1) Clean and store in oil locker, shut off gas, run gas out of carburetor. After Use
- 2) Check saw chain for proper adjustment and sharpness. Clean spark plug. Before Use
- 3) Check and clean air filter. Before Use
- 4) Insure proper mixture of fuel. Before Use

D. STEAM CLEANER/HIGH PRESSURE WATER SPRAYER
(BC 648289)

- | | | |
|----|--------------------------------------|------------|
| 1) | Check operation. | Before Use |
| 2) | Oil and grease. | Quarterly |
| 3) | Clean and store. | After Use |
| 4) | Change Oil in High Pressure Sprayer. | Annually |

NOTE: Drain nightly during freezing conditions.

E. STORED EQUIPMENT, Fences, Gates and Pads

- | | | |
|----|------------------|-------------|
| 1) | Check condition. | Monthly |
| 2) | Lubricate gates. | As Required |
| 3) | Touch up paint | As Needed |

F. ROADS, DIRT ACCESS AREAS

- | | | |
|----|---|-----------|
| 1) | Check for dirt undercut or excessive washing, repair as needed. | Monthly |
| 2) | Drag dirt access areas, i.e., magazines, K2 | As Needed |

G. PORTABLE PUMPS (two Briggs and Stratton and two Honda)

- | | | |
|----|--|------------|
| 1) | Check operation. | Before Use |
| 2) | Check oil and fuel. | Before Use |
| 3) | Change oil. | Annually |
| 4) | Drain water lines and pump from 1 December to 15 March to prevent freeze damage. | After Use |

H. GAS OPERATED ABRASIVE SAWS (BC736545),(461200)

- | | | |
|----|--|------------------|
| 1) | Fuel with properly mixed fuel. | Before Use |
| 2) | Clean saw and air filter. | Before/after use |
| 3) | Shut off gas, run gas out of carburetor | After use |
| 4) | Check air filter, spark plug and operate | Quarterly |

I. 5K HONDA PORTABLE GENERATOR; 120/220 V.A.C.;

- | | | |
|----|------------------------------------|------------|
| 1) | Check Fuel, oil level, air filter. | Before Use |
| 2) | Start as per listed procedures and | Before Use |

	verify proper operation, both manual and auto modes.	
	2) Clean, check thoroughly and store, shut off gas, run gas out of carburetor.	
service spark plug.	3) Change oil, service air filter and Required	Annually/ as
J.	PALLET JACKS: LIFT RITE, 10K LBS. CAP.; DAYTON, 4.5K LBS. CAP. ROLLRITE 5K	
	1. Check for leaks, damage and general condition.	Before use
	2. Grease and wipe down with light oil	Monthly
K.	Parker Vacuum (Stored in Lock-up cage)	
	1) Check oil, air filter and spark plug.	Before Use
	2) Change oil and lubricate.	Annually
	3) Run and warm up	Monthly
	4) Clean thoroughly, oil if needed, shut of gas, run gas out of carburetor.	After use
VI.	STORAGE AREAS (DSSU, bldg. 31166 Sea Vans and Trailers)	
A.	General housekeeping.	Monthly/ As Required
B.	Spot Check Condition and Inventory.	Monthly
C.	Check Roof for Leaks.	During Rain
VII.	TEST SITES	
A.	TEST AREA	
	1. Check gate operation and grease.	Check monthly/ Grease Annually As Necessary
	2. Touch up paint/signs	
B.	TEST PADS	
	1) Ensure guard rails are in place	Before use
	2) Ensure all grates are properly installed	Before use
	3) Clean drain troughs	As Required
	4) Clear of debris	After Use

C. C-5 PAD (burn pad)

- | | | |
|----|--------------------------------------|------------------------|
| 1) | Remove debris from surrounding area. | Weekly/
As Required |
| 2) | Clean pad after each test program. | As Required |
| 3) | Check tunnel for water and lights. | Monthly |
| 4) | Check Sump Pump for proper operation | Quarterly |
| 5) | Clear pump drain channel. | Annually |

D. OIL AND WATER SEPARATORS (Sep 6a and 6B)

NOTE: These procedures are to be followed on a daily basis when the system is in operation, otherwise perform as indicated.

- | | | |
|----|--|-------------|
| 1) | Check all tanks and plumbing for cracks, corrosion or leaks, including dual containment under ground poly-ethylene piping. | Weekly |
| 2) | Check that all secondary concrete containment structures are free of cracks or damage. | Weekly |
| 3) | Check that all secondary concrete containment structures are free of accumulated liquids. | Weekly |
| 4) | Check all drainage systems for contamination, cracks or other damage. | Weekly |
| 5) | Check for proper operation of pumps, including proper operation when cycling between the auto and manual modes. | Weekly |
| 6) | Check that "high-level" lights and audible alarm actuate when "lamp-test" button is depressed. | Weekly |
| 7) | Pump out and properly dispose of waste materials as need arises. | As required |

E. HIVAS

- | | | |
|----|---|---------------|
| 1) | Wash or steam clean engines and HIVAS sub-frame. (Includes interior and exterior of the sub-frame). | Annually |
| 2) | Check gear box oil level and | Semi-annually |

lubricate turntable.

- | | | |
|----|---|-------------------|
| 3) | Check engines for bird nests. | Each Spring |
| 4) | Perform operational check. | Monthly |
| 5) | Inspect and clean engine oil strainers. | Annually |
| 6) | Check fuel filter system, drain water. | Prior to each run |
| 7) | Check for fuel leaks, repair as required. | Prior to each run |

F. CO² STORAGE TANKS

- | | | |
|----|---|-----------|
| 1) | Check belts, motor, and compressor tank level. Record quantity. | Monthly |
| 2) | Check valves for operation (open-close) | Quarterly |
| 3) | Check and record tank pressure and quantity. | Monthly |

NOTE: Oil changes performed by PW

G. GUN MOUNTS

- | | | |
|----|------------------------------------|-------------------------|
| 1) | Check operation, clean, lubricate. | Monthly/
As Required |
|----|------------------------------------|-------------------------|

H. LIGHT WATER SYSTEM

- | | | |
|----|--|-------------------------|
| 1) | ENGINE: Check coolant, oil, fuel, and check battery with a Hydrometer; charge battery as needed. Start and run engine for 15 minutes or until batteries are fully charged. | Weekly |
| 2) | WATER SYSTEM: Check water level and open and close all valves. | Monthly/
As required |
| 3) | Change oil and filter in Chrysler engine. | Annually |
| 4) | Flush Chrysler cooling system | Annually |
| 5) | Check electric pump motor operation and automatic oiler level (hydraulic/ transmission oil (red ATF). | Weekly/before use |
| 6) | Check water level and mixture utilizing monitor panel. | Weekly/before use |
| 7) | Check "concentrated AFFF filling pump" for operation and oil level.* | Weekly/before use |

	8) Change oil in "concentrated AFFF filling pump" gear box.	Annually
	9) Winterize system prior to freezing temperatures.	As conditions dictate.
I.	PUMP HOUSE Bldg. 31171	
storage tank.	1) Drain water from air compressor	Weekly/
	2) Check air compressor's operation.	Weekly
	3) Change oil in compressor crankcase.	Annually
	4) Check for water leaks.	Weekly
	5) Winterize system prior to freezing temperatures.	As conditions dictate.

VIII. K-2 Test Site

A. OIL AND WATER SEPARATOR (Sep 10)

NOTE: These procedures are to be followed on a daily basis when the system is in operation, otherwise perform as indicated.

1)	Check all tanks and plumbing for cracks, corrosion or leaks, including dual containment under ground poly-ethylene piping.	Weekly
2)	Check that all secondary concrete containment structures are free of cracks or damage.	Weekly
3)	Check that all secondary concrete containment structures are free of accumulated liquids.	Weekly
4)	Check all drainage systems for contamination, cracks or other damage.	Weekly
5)	Check for proper operation of pumps, including proper operation when cycling between the auto and manual modes.	Weekly
6)	Check that "high-level" lights and audible alarm actuate when "lamp-test" button is depressed.	Weekly

- 7) Pump out and properly dispose of waste materials as need arises. As required
- 8) Close pad drain valve during rain if pad is not in use.

IV. STORED AIRCRAFT AND ENGINES

- 1) Canopy, intake, exhausts, panels, tape, and paint. Check Quarterly
- 2) Keep folded wings and tails locked in position. Check Quarterly
- 3) All engines stored up off sand; if possible, and sealed (lines, intakes, exhausts). Check Quarterly
- 4) Tire air pressure (if possible). Check Quarterly

XI. A/UH-1B/E/S HELICOPTERS

- 1) Check and secure rotors. As Required
- 2) Check and secure doors and panels. As Required
- 3) Preserve rotor heads, intakes, exhausts (taped, painted and rubberized). As Required
- 4) Re-position skids on wooden blocks (if applicable). As Required

XII. TRUCKS AND SUPPORT VEHICLES/PORTABLE GAS DRIVEN D.C. ARC

WELDERS (LINCOLN

A. D.C. ARC Welders (3 units; BC086745, BC625274 & BC007624)

- 1) Clean generator/exciter and rear side of the amperage control monitor panel with compressed air. Weekly
- NOTE: Safety glasses will be worn during this operation!
- 2) Check oil, fuel, battery and coolant levels. Weekly/ before use
 - 3) Change oil and oil filters, also clean clean oil bath air cleaner as needed and add oil as per engine manual. Quarterly/or as use Dictates
 - 4) Check cooling system for sufficient anti-freeze. Semi-Annually
 - 5) Service ignition system. Semi-Annually/

		as needed
6)	Check tire pressure.	Weekly/before use
<p>*NOTE: Perform seasonal adjustments to air intake system as noted in Teledyne-Continental engine manual:</p> <p>To prevent an overly rich/lean mixture: Change the position of the heat riser lever on the intake manifold and install/remove rubber "heat stove" to inlet side of air cleaner as ambient air temperature dictates, as per engine manual.*</p>		
B.	<p>FORKLIFTS 20,000 pound (13-10824 & 13-10840) 15,000 lb (13-67528)</p>	
1)	Check lift hoses and hydraulic fitting for leaks.	Daily/Before use Before Use
2)	Check oil, battery, fuel, hydraulic level and hoses, tire pressure and coolant level (General Condition).	Weekly
3)	Start and run above idle for 30 minutes.	Weekly
4)	Change oil, oil filter and fuel filters	Semi-Annually
5)	Contact PWD for repair or service,	As Required
6)	Contact PWD for weight check,	Annually
C.	DROTT TRAVELIFT (BC 086215)	
1)	Check oil, water, gas, battery, and hydraulic fluid levels.	Before Use
2)	Check tire pressure (125 PSI).	Weekly
3)	Perform preventive maintenance in accordance with applicable manuals.	As Required
4)	Change oil and oil filters.	Annually
5)	Check cooling system for sufficient anti-freeze.	Semi-Annually
6)	Change hydraulic filters.	Annually
7)	Contact PWD for weight check.	Annually

D. MANLIFTS (BC 071748-071749)

- | | | |
|----|---|--------------------------|
| 1) | Check for leaks, frayed, or cut power cord and general condition. | Bi-Weekly/
Before Use |
| 2) | Check oil level and tire pressure. | Bi-Weekly/
Before Use |
| 3) | Change fluid and service filter. | Every 5 years |

E. JLG SCISSOR LIFTS

- | | | |
|----|--|----------------|
| 1) | Check for leaks and condition; controls & switches. Hand rails, chain, battery, hydraulic pump, valves, hoses, lines, cylinder, tires, wheels, brakes and steering | Before use |
| 2) | Inspect fluid level in Hydraulic oil tank, lift cylinder, drive system, steering system and sliding wear pads, pivot points and attaching hardware | Monthly |
| 3) | Lube Wheel bearings | every 6 months |
| 4) | Change hydraulic fluid and filters | Annually |

XI. TEST SITE FUEL FARM SYSTEM

FUEL FARM MAINTENANCE REQUIREMENTS
BUILDING 31211

A. DURING OPERATIONAL CHECKS:

1. In the event of a fuel spill notify the WSL Environmental Compliance Coordinator and if equipment related notify the Facilities Coordinator.
2. Notify Facilities Coordinator of any system equipment or performance deficiencies.
3. Autostik Jr. status reports may/should be generated before and after each system use or delivery. Drop and System status reports should go to the WSL AO via the Firing Officer or Facilities Coordinator.
4. After fuel use or tank filling, record the following information in the Fuel Farm log book name, date, fuel quantities, pump and filter pressures and any problems.
5. Verify fuel quantities by "dipping" the tanks after deliveries or after each major operation.

B. MAINTENANCE REQUIREMENTS:

1. Refer to System O&M manuals and Technical Bulletins in maintaining or operating this facility and its equipment/subsystems. Notify Facilities Coordinator of deficiencies.
2. Cleanup leaks and seepage and properly tighten bolts and fasteners.
3. Coordinate an operational check with Fire Control and Test Pad Personal during operational checks.
4. Check the fuel filter units following their O&M manuals. Bleed trapped air and drain water as required. When water is detected in filters, Identify water accumulations in fuel tanks by dip stick and water detection compound (available from Airfield fuel farm). Change filters when differential pressures exceed rated capacities (see labels on tank).

5. Check accumulator pressure precharge annually. If system hammering occurs, recharge or overhaul of accumulator(s) following O&M manuals may be required.
6. Check waste fuel collection drum monthly during use and empty as required.
7. Service main strainers upstream of pumps bi-annually.
8. Replace light bulbs as required.
9. Clean Autostik Jr. Cabinet of sand monthly and building of accumulated debris (monthly) and sand (semi annually) or as required.

XII.	INDUSTRIAL PLANT EQUIPMENT (Stored)	TBD
XIII.	PORTABLE AIR FLOW SYSTEM (HUFF AND PUFF) Perform required Preventative Maintenance in accordance with operating procedures and TF-30 P6 Maintenance Manual.	As Required/ When Required
XIV.	GSE EQUIPMENT (AIRFIELD OWNED)	
A.	Perform required preventative maintenance in accordance with operating procedures.	As Required
XV.	GROUND SUPPORT EQUIPMENT (WSL CODE OWNED)	
A.	Nitrogen Carts: NAN-1 (1 ea.) and NAN-2 (1 ea.)	
	1. Check high pressure hoses for deterioration, tires for proper inflation, and general condition of regulators, valves and associated tubing.	Weekly
	2. Perform operational check, for normal conditions, and leaks. Adjust or repair as needed. *	Before use
B.	M-37 and A-3 FUEL TANKS; (self contained, portable fuel feed tanks) (M37 1,2 and 3; A3 1,2,3 and 4)	
	1) Check for leaks and general condition.	Weekly/ Before Use
	2) Check tires for condition and air pressure.	Bi-Weekly
	3) Clean Strainer and replace filters, (M37).	Annually
C.	MAINTENANCE WORK STANDS (B4)	
	1) Check operation.	Monthly/ Before Use
	2) Check condition.	Monthly/ Before Use

	3)	Clean and lubricate.	Monthly
D.	FUEL CONDITIONING UNIT (Bldg. 31176) (BC 074977)		
	1)	Check for Leaks - record levels/ discrepancies.	Monthly
	2)	Operate in accordance with the Operating Procedures and inspect for defects/problems.	Annually
	3)	Clean thoroughly.	Annually
	4)	Winterize fuel heating system.	As required
E.	AIR COMPRESSOR (1. Bldg 31197-Jet Shop)(2. Bldg 31151-Machine Shop)(3. Bldg 31192- Fab Shop)(4. Bldg 31167- Fire Control) (5. Bldg 31171- Pump House)(6. Bldg 31124- K2) (LFT site)		
	1)	Drain water from trap.	Weekly
	2)	Check belts and operation.	Weekly
	3)	Check Air Filters.	Bi-Weekly
	4)	Change Air Filters	As Required/Annually
	5)	Check Oil.	Weekly
	6)	Change Oil.	As Required/Annually
F.	PORTABLE HIGH VOLUME AIR COMPRESSORS (1. PA 081329) (2. PA 081330)		
	1)	Drain water from trap	Before Use
	2)	Check belts and operation	Before Use
	3)	Check air filters	Before Use
	4)	Check oil	Before use
	5)	Check tires	Before Use
G.	PORTABLE AIR COMPRESSORS (Honda SN 439134)		
	1.	Check oil level and filters	Before Use
	2.	Drain water from tap	Before / After Use
	3.	Check belts and operation	Bi-weekly

4.	Check safety valves and tank for cracks and leaks.	Bi-weekly
5.	Change oil and air filters	Annually
H. HOSE, ASSEMBLY MACHINE MAGNUM, TYPE A/U 320-1 (Building 31151)		
NOTE: <u>The responsibility for operation and maintenance of the Hose Assembly Machine rests with the operator.</u>		
1)	Check for proper operation.	Before Use
2)	Clean and wipe down with a light coat of oil.	After Use
3)	Check gear box oil level.	Before Use
I. WALLACE PORTABLE GANTRIES (Short and Tall)		
1)	Lube wheel assemblies.	Quarterly
2)	Lube hook swivel and sheaves.	Quarterly
3)	Weight Test	Yearly
J. HYDRAULIC SERVICING UNITS (3)		
1)	Check for cleanliness & Security	Bi-weekly
2)	Service reservoirs	As Required
3)	Service wheels	As Required
K. AIRCRAFT AXLE JACKS		
1)	Check fluid level and operation	Monthly
2)	Clean and check security	After use
L. PETTIBONE CRANE		
1)	Check tires, oil, hydraulic fluid, brake reservoir hoses, belts, radiator coolant, battery, Hyd fittings hoses	Before Use
2)	Grease	As required
M. PON-6		

	1)	check for security and cleanliness	Bi weekly
	2)	service reservoirs	As required
N.	TA-18 TOW TRACTOR (BUDDA)		
	1)	Check engine oil, belts, tires, and service	Before use
	2)	Inspect battery, terminals and cables	Annually
	3)	check transmission oil, pwr steering fluid, brake fluid, coolant level	Before use
	4)	Start and run engine for 30 minutes	Weekly
	5)	Change coolant	24 months

NOMENCLATURE	MANUFACTURER	MODEL	SERIAL NUMBER
Disk Sander	State	D-16	5143
Band Saw	Marvel	Mark 1	824161-W
Do All Saw	Do All	V-36	36525377
Atlantic Press Brake	Atlantic	LHD 165.8.6	50894
Iron Crafter	IC Iron Crafter	HMW 50-50	60531621284
Rolls	Montgomery	825	42513
Stripit Sheet Metal Fabricator	Stripit	Super 30	2746363
Drill Press	Fosdick		
Radial Drill	Calton	1-A	1A3066
Hydraulic Shears	ADTRA	GHO-0625	1385-4080
Lathe	Monarch	Model 13"	37612
Index	Monarch	Model 10"	30557
Mill	Machine And Tool		40-4600
Drill Press	National Machine and Tool	FU-205	6509-15-UT
Van Norman	Burgmaster	2-A	2218
200 Ton Press	Van Norman	2RG3	2218
Drill Press	Enerpac	200	1PE20065
Belt Sander	Buffalo Forge	15	60530461616
Punch	Baldor		F673
Spot Welder	Rotex	18A51	10222
Grinder	Miller	WT2508	J6068399
Rivit Machine	Miller Falls		815185KC26001
Drill Sharpener	Chicago Pneumatic		0170C001
Bench Grinder	Darex	E-90	90356
Drill Sharpener	Milwaukee	483	W10-93
Lathe	Darex	1/2 HP	500654
Mill	Darex	1/2 HP	50212
Mig Welder	Chevalier	SCL1340 A	X1857003
Mig Welder	Grizzly	G4029	
Mig Welder	Miller		23856
Mig Welder	Miller	251	LC883495
Mig Welder	Miller	251	LC883565
Mig Welder	Miller	251	LC275210
Plasma Cutter	Miller	251	LC883494
Arc Welder	Hypertherm	600	PMX600-028111
Plasma Cutter	Lincoln	R35-325	AC876456
Pipe Machine	Thermal Dynamics	PAX 10 XR	M80315A183501C
Hose Assemble Machine	Ridgid	802	9100847
Welder	Magnum	31000	
Welder	L-Tec	Heliam: 300	C87A73238
Welder	Miller	Tig	J6754851
Welder	Miller	Tig	J6754835

WBL #	MOD/PI	SERIAL NO	LOCATION	CONDITION
16		61971	CC-B	UNK
17		61982	CC-B	UNK
18		62004	3125	SERVICABLE
19		62025	3125	UNK
20		62005	CC-B	UNK
21		447948	CC-B	UNK
22		447937	CC-B	UNK
23		62007	CC-B	UNK
24		61915	CC-B	GOOD IFR
25		447261	31110, OUTSIDE	WEATHERED
26		62048	CC-B	GOOD IFR
27		61828	CC-B	GOOD IFR
28		61919	CC-B	GOOD IFR
29		62058	31186	GOOD IFR
30		62070	CC-B	SHOT
31		62035	31125	GOOD IFR
32		62031	CC-B	GOOD IFR
33		62048	CC-B	GOOD IFR
34		62015	31110, OUTSIDE	UNK
35		61942	CC-B	GOOD IFR
36		62014	CC-B	GOOD IFR
37		447216	OUTSIDE COMPOUND BACK FENCE	GOOD
38		447216	HWAS INSTALLED LOWER LEFT ENG	GOOD
39		447216	HWAS INSTALLED UPPER RIGHT ENG	GOOD
40		447216	HWAS INSTALLED LOWER RIGHT ENG	GOOD
41		447216	HWAS INSTALLED LOWER RIGHT ENG	GOOD
42		62044	CC-A6	UNK
43		62047	CC-B	UNK
44		62078	CC-B	UNK
45		62091	CC-B	UNK
46		62079	CC-B	UNK
47		62087	CC-A6	UNK
48		62040	CC-B	UNK
49		62088	CC-B	UNK
50		62024	CC-B	UNK
51		62025	CC-B	UNK
52		62026	CC-B	UNK
53		62027	CC-B	UNK
54		62028	CC-B	UNK
55		62029	CC-B	UNK
56		62030	CC-B	UNK
57		62031	CC-B	UNK
58		62032	CC-B	UNK
59		62033	CC-B	UNK
60		62034	CC-B	UNK
61		62035	CC-B	UNK
62		62036	CC-B	UNK
63		62037	CC-B	UNK
64		62038	CC-B	UNK
65		62039	CC-B	UNK
66		62040	CC-B	UNK
67		62041	CC-B	UNK
68		62042	CC-B	UNK
69		62043	CC-B	UNK
70		62044	CC-B	UNK
71		62045	CC-B	UNK
72		62046	CC-B	UNK
73		62047	CC-B	UNK
74		62048	CC-B	UNK
75		62049	CC-B	UNK
76		62050	CC-B	UNK
77		62051	CC-B	UNK
78		62052	CC-B	UNK
79		62053	CC-B	UNK
80		62054	CC-B	UNK
81		62055	CC-B	UNK
82		62056	CC-B	UNK
83		62057	CC-B	UNK
84		62058	CC-B	UNK
85		62059	CC-B	UNK
86		62060	CC-B	UNK
87		62061	CC-B	UNK
88		62062	CC-B	UNK
89		62063	CC-B	UNK
90		62064	CC-B	UNK
91		62065	CC-B	UNK
92		62066	CC-B	UNK
93		62067	CC-B	UNK
94		62068	CC-B	UNK
95		62069	CC-B	UNK
96		62070	CC-B	UNK
97		62071	CC-B	UNK
98		62072	CC-B	UNK
99		62073	CC-B	UNK
100		62074	CC-B	UNK
101		62075	CC-B	UNK
102		62076	CC-B	UNK
103		62077	CC-B	UNK
104		62078	CC-B	UNK
105		62079	CC-B	UNK
106		62080	CC-B	UNK
107		62081	CC-B	UNK
108		62082	CC-B	UNK
109		62083	CC-B	UNK
110		62084	CC-B	UNK
111		62085	CC-B	UNK
112		62086	CC-B	UNK
113		62087	CC-B	UNK
114		62088	CC-B	UNK
115		62089	CC-B	UNK
116		62090	CC-B	UNK
117		62091	CC-B	UNK
118		62092	CC-B	UNK
119		62093	CC-B	UNK
120		62094	CC-B	UNK
121		62095	CC-B	UNK
122		62096	CC-B	UNK
123		62097	CC-B	UNK
124		62098	CC-B	UNK
125		62099	CC-B	UNK
126		62100	CC-B	UNK
127		62101	CC-B	UNK
128		62102	CC-B	UNK
129		62103	CC-B	UNK
130		62104	CC-B	UNK
131		62105	CC-B	UNK
132		62106	CC-B	UNK
133		62107	CC-B	UNK
134		62108	CC-B	UNK
135		62109	CC-B	UNK
136		62110	CC-B	UNK
137		62111	CC-B	UNK
138		62112	CC-B	UNK
139		62113	CC-B	UNK
140		62114	CC-B	UNK
141		62115	CC-B	UNK
142		62116	CC-B	UNK
143		62117	CC-B	UNK
144		62118	CC-B	UNK
145		62119	CC-B	UNK
146		62120	CC-B	UNK
147		62121	CC-B	UNK
148		62122	CC-B	UNK
149		62123	CC-B	UNK
150		62124	CC-B	UNK
151		62125	CC-B	UNK
152		62126	CC-B	UNK
153		62127	CC-B	UNK
154		62128	CC-B	UNK
155		62129	CC-B	UNK
156		62130	CC-B	UNK
157		62131	CC-B	UNK
158		62132	CC-B	UNK
159		62133	CC-B	UNK
160		62134	CC-B	UNK
161		62135	CC-B	UNK
162		62136	CC-B	UNK
163		62137	CC-B	UNK
164		62138	CC-B	UNK
165		62139	CC-B	UNK
166		62140	CC-B	UNK
167		62141	CC-B	UNK
168		62142	CC-B	UNK
169		62143	CC-B	UNK
170		62144	CC-B	UNK
171		62145	CC-B	UNK
172		62146	CC-B	UNK
173		62147	CC-B	UNK
174		62148	CC-B	UNK
175		62149	CC-B	UNK
176		62150	CC-B	UNK
177		62151	CC-B	UNK
178		62152	CC-B	UNK
179		62153	CC-B	UNK
180		62154	CC-B	UNK
181		62155	CC-B	UNK
182		62156	CC-B	UNK
183		62157	CC-B	UNK
184		62158	CC-B	UNK
185		62159	CC-B	UNK
186		62160	CC-B	UNK
187		62161	CC-B	UNK
188		62162	CC-B	UNK
189		62163	CC-B	UNK
190		62164	CC-B	UNK
191		62165	CC-B	UNK
192		62166	CC-B	UNK
193		62167	CC-B	UNK
194		62168	CC-B	UNK
195		62169	CC-B	UNK
196		62170	CC-B	UNK
197		62171	CC-B	UNK
198		62172	CC-B	UNK
199		62173	CC-B	UNK
200		62174	CC-B	UNK
201		62175	CC-B	UNK
202		62176	CC-B	UNK
203		62177	CC-B	UNK
204		62178	CC-B	UNK
205		62179	CC-B	UNK
206		62180	CC-B	UNK
207		62181	CC-B	UNK
208		62182	CC-B	UNK
209		62183	CC-B	UNK
210		62184	CC-B	UNK
211		62185	CC-B	UNK
212		62186	CC-B	UNK
213		62187	CC-B	UNK
214		62188	CC-B	UNK
215		62189	CC-B	UNK
216		62190	CC-B	UNK
217		62191	CC-B	UNK
218		62192	CC-B	UNK
219		62193	CC-B	UNK
220		62194	CC-B	UNK
221		62195	CC-B	UNK
222		62196	CC-B	UNK
223		62197	CC-B	UNK
224		62198	CC-B	UNK
225		62199	CC-B	UNK
226		62200	CC-B	UNK
227		62201	CC-B	UNK
228		62202	CC-B	UNK
229		62203	CC-B	UNK
230		62204	CC-B	UNK
231		62205	CC-B	UNK
232		62206	CC-B	UNK
233		62207	CC-B	UNK
234		62208	CC-B	UNK
235		62209	CC-B	UNK
236		62210	CC-B	UNK
237		62211	CC-B	UNK
238		62212	CC-B	UNK
239		62213	CC-B	UNK
240		62214	CC-B	UNK
241		62215	CC-B	UNK
242		62216	CC-B	UNK
243		62217	CC-B	UNK
244		62218	CC-B	UNK
245		62219	CC-B	UNK
246		62220	CC-B	UNK
247		62221	CC-B	UNK
248		62222	CC-B	UNK
249		62223	CC-B	UNK
250		62224	CC-B	UNK
251		62225	CC-B	UNK
252		62226	CC-B	UNK
253		62227	CC-B	UNK
254		62228	CC-B	UNK
255		62229	CC-B	UNK
256		62230	CC-B	UNK
257		62231	CC-B	UNK
258		62232	CC-B	UNK
259		62233	CC-B	UNK
260		62234	CC-B	UNK
261		62235	CC-B	UNK
262		62236	CC-B	UNK
263		62237	CC-B	UNK
264		62238	CC-B	UNK
265		62239	CC-B	UNK
266		62240	CC-B	UNK
267		62241	CC-B	UNK
268		62242	CC-B	UNK
269		62243	CC-B	UNK
270		62244	CC-B	UNK
271		62245	CC-B	UNK
272		62246	CC-B	UNK
273		62247	CC-B	UNK
274		62248	CC-B	UNK
275		62249	CC-B	UNK
276		62250	CC-B	UNK
277		62251	CC-B	UNK
278		62252	CC-B	UNK
279		62253	CC-B	UNK
280		62254	CC-B	UNK
281		62255	CC-B	UNK
282		62256	CC-B	UNK
283		62257	CC-B	UNK
284		62258	CC-B	UNK
285		62259	CC-B	UNK
286		62260	CC-B	UNK
287		62261	CC-B	UNK
288		62262	CC-B	UNK
289		62263	CC-B	UNK
290		62264	CC-B	UNK
291		62265	CC-B	UNK
292		62266	CC-B	UNK
293		62267	CC-B	UNK
294		62268	CC-B	UNK
295		62269	CC-B	UNK
296		62270	CC-B	UNK
297		62271	CC-B	UNK
298		62272	CC-B	UNK
299		62273	CC-B	UNK
300		62274	CC-B	UNK
301		62275	CC-B	UNK
302		62276	CC-B	UNK
303		62277	CC-B	UNK
304		62278	CC-B	UNK
305		62279	CC-B	UNK
306		62280	CC-B	UNK
307		62281	CC-B	UNK
308		62282	CC-B	UNK
309		62283	CC-B	UNK
310		62284	CC-B	UNK
311		62285	CC-B	UNK
312		62286	CC-B	UNK
313		62287	CC-B	UNK
314		62288	CC-B	UNK
315		62289	CC-B	UNK
316		62290	CC-B	UNK
317		62291	CC-B	UNK
318		62292	CC-B	UNK
319		62293	CC-B	UNK
320		62294	CC-B	UNK
321		62295	CC-B	UNK
322		62296	CC-B	UNK
323				

ENGINE, AIRCRAFT, T70
ENGINE, AIRCRAFT, T70
ENGINE, AIRCRAFT, T70

04
05
06

41575
41580
65420

CC-44
CC-51
CC-48

CASE CRACKED (NON-HF)
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UNK

Attachment ()



Item No.	Description	Quantity	Unit	Condition	Notes
25	WATER TANK FOR CATCHING BO				
26	DUCT ASSY	18	FEW MISSING PARTS	GOOD	
27	DUCT ASSY	18	FEW MISSING PARTS	UNK	
28	TANK FUEL SQUARE	18	FEW MISSING PARTS	UNK	
29	TANK FUEL SQUARE	18	FEW MISSING PARTS	UNK	
30	TANK FUEL SQUARE	18	FEW MISSING PARTS	UNK	
31	TANK FUEL SQUARE	18	FEW MISSING PARTS	UNK	
32	TANK FUEL SQUARE	18	FEW MISSING PARTS	UNK	
33	VALVES 3/4" GATE	18	FEW MISSING PARTS	UNK	
34	TIRE TRUCK 600-20	18	FEW MISSING PARTS	UNK	
35	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
36	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
37	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
38	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
39	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
40	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
41	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
42	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
43	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
44	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
45	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
46	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
47	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
48	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
49	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
50	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
51	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
52	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
53	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
54	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
55	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
56	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
57	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
58	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
59	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
60	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
61	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
62	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
63	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
64	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
65	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
66	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
67	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
68	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
69	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
70	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
71	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
72	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
73	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
74	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
75	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
76	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
77	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
78	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
79	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
80	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
81	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
82	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
83	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
84	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
85	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
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87	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
88	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
89	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
90	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
91	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
92	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
93	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
94	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
95	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
96	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
97	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
98	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
99	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	
100	ENGINE AIRCRAFT .57	18	FEW MISSING PARTS	UNK	

Item ID	Description	Quantity	Unit	Remarks
41	TRAILER STAND			
42	AIRCRAFT, JET, A7	2		
43	ENGINE STAND			
44	ENGINE STAND	2		
45	ENGINE STAND			
46	TAIL STAND			
47	ACCELERATOR, HYDRAULIC			
48	TRAILER			
49	WATER TANK (YELLOW)			
50	PAVECO MAPPING FRAME			
51	OIL TANK			
52	GRAY WATER TANK			
53	AIRCRAFT, JET, A7			
54	AIRCRAFT, JET, F10			
55	AIRCRAFT, JET, F10			
56	TAIL SECTION, JET, F10			
57	STAND, TEST			
58	CONTAINER, ENGINE			
59	CONTAINER, ENGINE			
60	CONTAINER, ENGINE			
61	CONTAINER, ENGINE			
62	CONTAINER, ENGINE			
63	CONTAINER, ENGINE			
64	TAIL ASSEMBLY, F8			
65	TAIL ASSEMBLY, F8			
66	TAIL ASSEMBLY, F8			
67	TAIL ASSEMBLY, F8			
68	TAIL ASSEMBLY, F8			
69	TAIL ASSEMBLY, F8			
70	TAIL ASSEMBLY, F8			
71	AIRCRAFT, JET, F8 FUSELAGE			
72	TEXT FUTURE			
73	TEXT FUTURE			
74	TEXT FUTURE			
75	TEXT FUTURE			
76	TURN TABLE			
77	TEST STAND			
78	TEST FUTURE			
79	TEST FUTURE			
80	TEST FUTURE			
81	BELLMOUTH, J79			
82	TEST FUTURE			
83	TEST FUTURE			
84	TEST FUTURE			
85	TEST STAND			
86	BAILEY BRIDGE DOUBLE, TEST F8			
87	BAILEY BRIDGE SINGLE, TEST F8			
88	GENERATOR, 400V			
89	EXHAUST SYSTEM			
90	COMPRESSOR WESTINGHOUSE			
91	TANK, WATER (TEST TRACER)			
92	CAMERA STAND			
93	INLET ADAPTER			
94	INLET ADAPTER			
95	TEST STAND			
96	TURN TABLE STAND			
97	TEST TABLE, IRAD ADAPTER BOX			
98	ENGINE BLOCK SPREADER BAR			
99	ENGINE TEST STAND			
100	ENTER WING TEST			
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56	RIFLE GUN	GR-1	
57	NEW UNIVERSAL MT.	GR-2	
58	STAND, NOSE	AZ TEST PAD	
59	STAND, AIR RAKE	CC-Q	18 FEW MISSING PARTS
60	AIR INLET HOUND DOG	CC-Q	18 FEW MISSING PARTS
61	HOUND DOG INLET, CENTER SEC	CC-U	18 FEW MISSING PARTS
62	DUCT, AIR	SCRAP YARD	18 FEW MISSING PARTS
63	HOIST, CHAIR, TROLLEY	CC-B	
64	MOUNTING EQUIP	C-2	
65	DROP TANK	CC-E	GOOD-WT #10
66	JACKS	CC-C	NON-REF
67	TRANSFORMER & SPOT LIGHT	CC-F	
68	INTAKE SCREENS	CC-D	
69	DUCT HWAS	CC-D	
70	ANTENNA TOWER	\$1110	
71	ACCESS DOOR	CC-F	CRATED
72	PALET ASSEMBLER, JST	CC-E	CRATED
73	FRANKFORD MOUNT	CC-E	
74	KEYLAR MATERIAL	\$1198	
75	AMMO BELTING MACHINE	CC-E	GOOD CRATED
76	INTAKE DUCT	38-48 B-E	CRATED
77	BEARING REMOVAL TOOL	CC-E	
78	ENGINE AIRCRAFT	CC-E	
79	ENGINE AIRCRAFT, T730	CC-F	
80	ENGINE AIRCRAFT, F100	\$1110, OUTSIDE	
81	ENGINE AIRCRAFT	68011	
82	FLUXA, WING RACK	68014	
83	WING TEST FIXTURE, AV8	CC-Q	1A ALL THERE
84	MISSILE LAUNCHER	HC	
85	MISSILE RACK	CC-Q	
86	MISSILE CONTAINER	CC-Q	
87	PRACTICE BOMB INERT	CPT-3	
88	ROCKET MOTOR CONTAINER	CC-Q	
89	BOMB FN ASSY	CC-Q	
90	INERT BOMB	CC-Q	GOOD
91	INERT BOMB, FILLED W/CONCRETE	CC-Q	
92	INERT BOMB	CC-Q	
93	BOMB RACK ASSY	CC-Q	
94	WATER TANK	7-80-84	
95	GENERATOR	4-57-85	
96	ELECT CONTROL PANEL	LINK	
97	FUEL TANK	1816	
98	RADIATOR & MOTOR 280 KW	MOD 3480	
99	MOTOR WAREHOUSE		
100	TEST STAND, TURNTABLE FIXTURE		
101	TEST FIXTURE		
102	TEST STINGER HOLDER		
103	TEST STAND		
104	INSTRUMENTATION BOX		
105	BARREL RACK		
106	LIGHT CART		
107	HOUND DOG MISSILE STAND		
108	TRAILER, DRIVE ON		
109	HYDRAULIC TEST STAND		
110	HYDRAULIC TEST STAND		
111	AIR COMPRESSOR		
112	MACAIR WING SUPPORTS FOR BK		
113	WELDER		
114	LITHIUM BURN SUPPORTS		
115	PROPANE TANK		
116	CONTROL UNIT & TEST CELL		
117	ENGINE AIRCRAFT, F4U		
118	ENGINE AIRCRAFT, T730		
119	DROP TANK, FUEL		
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163	HELICOPTER BLADES	UNK	CC-K	GOOD
164	HELICOPTER BLADES	1271102-5	CC-A	STOWED IN WEATHER
165	FLOUNDER ASST	UNK	CC-A	WEATHERED
166	STRIPPER STAND	K-5-12-08	CC-K	WEATHERED
167	STORAGE TANK	UNK	CC-O	WEATHERED
168	AIR BAG HOLDERS	50072M	CC-O	WEATHERED
169	TOOL BOX	HC	HC	WEATHERED
170	SHIELD PHOTO		CC-P	WEATHERED
171	STAND		CC-P	WEATHERED
172	ADAPTER RING	UNK	CC-P	WEATHERED
173	MOTOR & FAN		CC-P	WEATHERED
174	TURN TABLE ADAPTERS	J06114647	CC-P	WEATHERED
175	TEST STAND	UNK	CC-Q	
176	WING TEST	UNK	CC-R	
177	BOMB CATCH BOX	UNK	CC-R	
178	COVER AFFX	UNK	CC-R	
179	HYDAS DUCT	UNK	CC-R	
180	CAMERA SHIELD	UNK	CC-S	
181	BURN BOX	UNK	CC-M	
182	MISSILE RNS		CC-U	
183	MISSILE STAND		CC-U	
184	MISSILE STAND		CC-U	
185	MISSILE STAND		CC-U	
186	BELLAOUTH, MS		CC-Y	
187	TEST TABLE (BT/AND)		CC-Y	
188	THALPPE SUPPORT SYSTEM		CC-Y	
189	WEIGHTS	UNK	CC-Y	
190	WING TEST FIXTURE		CC-Y	
191	WING ADAPTER		CC-Y	
192	CLEARANCE TILT HEAD		CC-Y	
193	TAIL HOOK	284-HCS	CC-U	
194	CONTAINER, ENGINE	UNK	CC-Y	
195	CONTAINER, ENGINE	UNK	RC	
196	CONTAINER, ENGINE	UNK	RC	
197	TEST FIXTURE		CC-EB	
198	BELLY TANK		CC-Z	
199	EJECTOR NOZZLE, DUCT		CC-Z	
200	TEST STAND		CC-Z	
201	SAMPLING BOX		CC-Z	
202	MOTOR	UNK	CC-Z	
203	COMPRESSOR CASE	1220118	CC-Z	
204	STARTING UNIT		CC-Z	
205	MOTOR	532	CC-Z	
206	AIR RECEIVER		CC-Z	
207	GAS GENERATOR	626-SC-08	CC-A1	
208	BURNER CHAM FOR JET ENGINES	84-211-46	CC-A1	
209	ENGINE STARTER		CC-A1	
210	OIL BURNER MOTORS & BLOWER		CC-L	
211	PLASTIC, CLEAR, HEAVY DUTY		CC-A1	
212	TEST FIXTURE		CC-A1	
213	FRY TEST BRDTS		CC-A1	
214	A4-JACKS	UNK	CC-A1	
215	ARCHAFT, JET, A7		CC	
216	LOAD TABLE	56776	CC-DM	
217	WOODEN CONTAINERS		CC-A1	
218	FORGLET OIL DRUM STAND		CC-A1	
219	MODAS STAND	UNK	CC-A2	
220	CONTAINER, ENGINE		CC-A3	
221	CONTAINER, ENGINE		HC	
222	CONTAINER W/TELESCOPE TOWE		FLAMMABLE AREA	
223	CONTAINER, ENGINE	UNK	CC-A1	
224	CONTAINER, ENGINE	UNK	CC-A1	
225	CONTAINER, ENGINE	UNK	CC-A1	
226	CONTAINER, ENGINE		CC-A1	
227	CONTAINER, ENGINE		CC-A1	
228	CONTAINER, ENGINE		CC-A1	
229	CONTAINER, ENGINE		CC-A1	
230	CONTAINER, ENGINE		CC-A1	
231	PUMP PRECISION		CC-A1	
232	ENGINE, AIRCRAFT		31128 FIRST DOOR	



TAIL ASSY TEST	02	UNK	HC-17	WEATHERED ON TIMBER	1
TAIL ASSY TEST	03	UNK	HC-17	WEATHERED ON TIMBER	1
TAIL ASSY	04	UNK	HC-17	WEATHERED ON TIMBER	1
TAIL ASSY TEST	05	UNK	HC-17	WEATHERED ON TIMBER	1
TAIL ASSY TEST	06	UNK	HC-17	WEATHERED ON TIMBER	1
VERTICAL STABILIZER	07	UNK	HC-17	WEATHERED ON TIMBER	1
WING TEST	08	UNK	HC-17	WEATHERED ON TIMBER	1
RUDDER TEST	09	UNK	HC-18	WEATHERED ON TIMBER	1
WING TEST	10	UNK	HC-18	WEATHERED ON TIMBER	1
VERTICAL STABILIZER	11	UNK	HC-18	WEATHERED ON TIMBER	1
VERTICAL STABILIZER TEST	12	UNK	HC-18	WEATHERED ON TIMBER	1
TANK FUEL TEST	13	UNK	HC-18	WEATHERED ON TIMBER	1
TANK FUEL TEST	14	UNK	HC-18	WEATHERED ON TIMBER	1
TANK FUEL TEST	15	UNK	HC-18	WEATHERED ON TIMBER	1
HORIZONTAL STABILIZER TEST	16	UNK	HC-18	WEATHERED ON TIMBER	1
HORIZONTAL STABILIZER TEST	17	UNK	HC-18	WEATHERED ON TIMBER	1
HORIZONTAL STABILIZER TEST	18	UNK	HC-18	WEATHERED ON TIMBER	1
HORIZONTAL STABILIZER TEST	19	UNK	HC-19	WEATHERED ON TIMBER	1
WING TEST	20	UNK	HC-19	WEATHERED ON TIMBER	1
WING OUTBOARD TEST	21	UNK	HC-20	WEATHERED ON TIMBER	1
WING TEST	22	UNK	HC-20	WEATHERED ON TIMBER	1
WING OUTBOARD	23	UNK	HC-20	WEATHERED ON WOOD	1
WING TEST	24	UNK	HC-20	WEATHERED ON WOOD	1
WING	25	UNK	HC-20	WEATHERED ON WOOD	1
WING TEST	26	UNK	HC-20	WEATHERED ON WOOD	1
WING TEST	27	UNK	HC-21	WEATHERED ON WOOD	1
WING TEST	28	UNK	HC-21	WEATHERED ON WOOD	1
WING TEST	29	UNK	HC-21	WEATHERED ON WOOD	1
WING TEST	30	UNK	HC-21	WEATHERED ON WOOD	1
WING TEST	31	UNK	HC-21	WEATHERED ON WOOD	1
WING TEST	32	UNK	HC-22	WEATHERED ON WOOD	1
WING TEST	33	UNK	HC-22	WEATHERED ON WOOD	1
WING TEST	34	UNK	HC-22	WEATHERED ON WOOD	1
ARCHAFT, JET, F11, FUSELAGE	35	UNK	HC-22	WEATHERED ON WOOD	1
ARCHAFT, JET, F1X, FUSELAGE	36	11814	HC-22	WEATHERED ON WOOD	1
ARCHAFT, JET, F11, FUSELAGE	37	80147	HC-22	WEATHERED ON WOOD	1
TAIL ASSY	38	UNK	CC-58	WEATHERED ON WOOD	1
WING TEST	39	UNK	HC-32	WEATHERED ON WOOD	1
WING STAIRBOARD INLET ASSY	40	UNK	HC-32	WEATHERED ON WOOD	1
WING	41	UNK	HC-34	WEATHERED ON WOOD	1
WING	42	UNK	HC-34	WEATHERED ON WOOD	1
WING	43	UNK	HC-35	WEATHERED ON WOOD	1
WING	44	UNK	HC-35	WEATHERED ON WOOD	1
VERTICAL STABILIZER	45	UNK	HC-37	WEATHERED ON WOOD	1
ARCHAFT, JET, A6, FUSELAGE	46	UNK	HC-38	WEATHERED ON WOOD	1
VERTICAL STABILIZER	47	UNK	HC-38	WEATHERED ON WOOD	1
HOIST, FRAME	48	UNK	CC-1	WEATHERED ON WOOD	1
SEA VANS	49	NONE	DC	WEATHERED ON WOOD	1
INSTRUMENTATION BOX	50	UNK	CCP	WEATHERED ON WOOD	1
BLOWER, RADIAL BLADE	51	UNK	31193-1	WEATHERED ON WOOD	1
BLOWER TUBE	52	UNK	OCH	WEATHERED ON WOOD	1
PRESS BRAKE	53	UNK	BEHND OC FENCE	WEATHERED ON WOOD	1
ENGINE STAND	54	UNK	OCH	WEATHERED ON WOOD	1
WING / PORT	55	UNK	OCF	WEATHERED ON WOOD	1
WING	56	UNK	OCF	WEATHERED ON WOOD	1
SMALLATOR	57	UNK	OCF	WEATHERED ON WOOD	1
ARCHAFT, JET, F10	58	UNK	OCF	WEATHERED ON WOOD	1
A-13 TEST ARTICLES	59	11126	OCF	WEATHERED ON WOOD	1
BOMB TEST VEHICLE, ADJUSTABLE	60	UNK	OCF	WEATHERED ON WOOD	1
ENGINE, AIRCRAFT, T41	61	11780	OCF	WEATHERED ON WOOD	1
ENGINE, AIRCRAFT, J78	62	14719	OCF	WEATHERED ON WOOD	1
ENGINE, AIRCRAFT, J78	63	44382	OCF	WEATHERED ON WOOD	1
ENGINE, AIRCRAFT, J78	64	45787	OCF	WEATHERED ON WOOD	1
COMPRESSOR	65	44874	OCF	WEATHERED ON WOOD	1
ARCHAFT, HELICOPTER, HH1K	66	A4-00224	OCF	WEATHERED ON WOOD	1
ARCHAFT, HELICOPTER, HH1K	67	17181	OCF	WEATHERED ON WOOD	1

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Part No.	Description	Quantity	Unit	Notes
115	TANK, HEATING			
116	STAND, ENGINE, T88			
143	STAND, ENGINE, T88			
144	STAND, ENGINE, T88			
145	STAND, ENGINE, T88			
146	STAND, ENGINE, T88			
147	DOLLY, PROPELLER			
148	TRAILER, ENGINE TEST CELL (T88)			
149	TRAILER, TRANSPORT, LARGE EN			
151	FRAME DUCTING, RWIS			
152	FRAME DUCTING, RWIS			
153	BOGIE			
154	ENGINE, AIRCRAFT, T88			
155	ENGINE, AIRCRAFT, T88			
156	SAFETY CAGE FOR TIRE TESTING			
157	LIQUID NITROGEN STORAGE TANK			
158	OUTLAW AQUA			
159	ENGINE, AIRCRAFT, T88			
160	WING PYLONS			
161	HYD LINES & DUCTING			
162	TAIL ASSY			
163	LEADING EDGE			
164	AIR CONDITION DUCTING			
165	BOMB RACKS			
166	FLAPS-TRAILING EDGE			
167	AIR COMPRESSOR			
168	WING, VZ2/D/D/D			
169	SPINDLE, VZ2			
170	FRONTURE, VZ2 WING TEST			
171	ENGINE, AIRCRAFT, T88			
172	STAND, BREAK PAPER			
173	STAND, BREAK PAPER			
174	ELECTION SEAT			
175	ENGINE, AIRCRAFT, T88			
176	ENGINE, AIRCRAFT, T88			
177	CONTAINER, ENGINE, T88			
178	ENGINE, AIRCRAFT, T88			
179	FRONTURE, 67 HALON BOTTLE RECH			
180	HUB GRIP YOKE ASSY/PENDULUM			
181	PROP ROTOR GEAR BOX, VZ2			
182	NITROGEN BOOSTING UNIT			
183	FARING ASSEMBLY, VZ2			
184	INSTRUMENTATION TERMINAL, BO			
185	SMALLATOR, F18 ENGINE BAY TEE			
186	TANK, PROPANE STORAGE			
187	TUBE, AIR			
188	DOLLY, WING			
189	PROP ROTOR GEAR BOX, LH, VZ2			
190	PROP ROTOR GEAR BOX, RH, VZ2			
191	TILT AND GEAR BOX, RH, VZ2			
192	TILT AND GEAR BOX, RH, VZ2			
193	PARTS, 901, VZ2			
194	FRONTURE, MOUNTING OUTER WRK			
195	FUELSAGE LIFT/LOAD HARNESS			
196	PROP GEAR BOX WORK STAND, T			
197	FUELSAGE, COORDINATE SECTION, V			
198	MACELLE, ENGINE, VZ2			
199	PROP ROTOR GEAR BOX, VZ2			
100	1A ALL THERE			
101	18 FEW MISSING PARTS			
102	1A ALL THERE			
103	1A ALL THERE			
104	1A ALL THERE			
105	1A ALL THERE			
106	1A ALL THERE			
107	1A			
108	3 BURNIT & OR IN PIECES			
109	3 BURNIT & OR IN PIECES			
110	3 BURNIT & OR IN PIECES			
111	OLD, NEEDS WORK & NEW HYD DIRECTIONAL VAL			
112	LINK			
113	1C MANY MISSING PARTS			
114	CRATED			
115	CRATED			
116	CRATED			
117	CRATED			
118	CRATED			
119	CRATED			
120	ELECT MOTOR 1/2 HP 1400T/760 RPM 8 3/4" 208-220			
121	COMPLETE CENTER WING			
122	18 FEW MISSING PARTS			
123	18 FEW MISSING PARTS			
124	NON SERVICEABLE			
125	WEATHERED			
126	18 FEW MISSING PARTS			
127	1A ALL THERE			
128	NON IPI			
129	18 FEW MISSING PARTS			
130	1A ALL THERE			
131	1A ALL THERE			
132	3 BURNIT & OR IN PIECES			
133	3 BURNIT & OR IN PIECES			
134	18 FEW MISSING PARTS			
135	18 FEW MISSING PARTS			
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141	1A ALL THERE			
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Part Number	Description	Part Number	Description	Part Number	Description
162	WING STAND, TEST	WSLJ1030			
163	NOSE STAND, TEST	C2			
164	STAND, ROCKET MOTOR	CC-81			
165	BLOWER, RADIAL BLADE	K2 ARSWA			
166	WEAPONS CATCH CONTAINER	31128-1			
167	WIRE PROTECTION / INSTR STAM	31128-1			
168	INSTRUMENTATION PROTECTION	C-2			
169	CONTAINER, ENGINE, TH	31128 1			
170	CONTAINER, ENGINE, TH	CC-48			
171	CONTAINER, ENGINE, TH	CC-48			
172	CONTAINER, ENGINE, TH	CC-48			
173	CONTAINER, ENGINE, TH	CC-48			
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297	CONTAINER, ENGINE, TH	CC-48			
298	CONTAINER, ENGINE, TH	CC-48			
299	CONTAINER, ENGINE, TH	CC-48			
300	CONTAINER, ENGINE, TH	CC-48			

1A ALL THERE

1A CRATED JUNK

1A ALL THERE

GOOD
GOOD
3 BURNT & OR N PIECES

1A ALL THERE
1C



Part Description	QTY	Part Number	Notes
ARCHAFT, FUSELAGE, V22, FRO S	1'00	C2 P40	IC
ARCHAFT, FUSELAGE, V22	1'02	31176 P40	19 FEW MISSING PARTS
INLET STAND ASSEMBLY, F414	1'03	MC-V22D	NOT COMPLETE
TILT AXIS GEAR BOX, LH, V22	1'04	IC	19 FEW MISSING PARTS
TILT AXIS GEAR BOX, RH, V22	1'05	MC-V22	2. MISSING W/ALOR STRUCTURES
INLET ASSY, RH, V22	1'06	MC-V22	1A ALL THERE
INLET ASSY, LH, V22	1'07	31150	1A ALL THERE
WING, LEFT, PORT, F14, F18	1'08	MC-V22	1A ALL THERE
ARCHAFT, SET, A4	1'09	PC	NEW
FUEL CELL, FWD, F14, F18, V22	1'10	MC-V22	1A ALL THERE
FUEL CELL, FWD, LH, V22	1'11	MC-V22	1A ALL THERE
FUEL CELL, AFT, RH, V22	1'12	MC-V22	1A ALL THERE
ENGINE, ARCHAFT, T30	1'13	MC-V22	1A ALL THERE
LOAD CELL, BALL MOUNTS	1'14	K3 P40	GOOD
PROP ROTOR GEAR BOX, LH, V22	1'15	HUT H	X
PROP ROTOR GEAR BOX, RH, V22	1'16	MC-V22	19 FEW MISSING PARTS
PROP ROTOR GEAR BOX, LH, V22	1'17	MC-V22	1A ALL THERE
PROP ROTOR GEAR BOX, LH, V22	1'18	MC-V22	1A ALL THERE
PROP ROTOR GEAR BOX, RH, V22	1'19	MC-V22	1A ALL THERE
PROP ROTOR GEAR BOX, RH, V22	1'20	MC-V22	1A ALL THERE
STAND, EJECTION SEAT	1'21	A4	GOOD
ENGINE, ARCHAFT, T40	1'22	MC-V22	1A ALL THERE
VERTICAL STABILIZER, LH, V22	1'23	CC-81	GOOD
ENGINE, ARCHAFT, T40	1'24	CC-D	X
FARING PARTS, V22	1'25	CC-D	19 FEW MISSING PARTS
WING FLAP, V22	1'26	MC-V22	1A ALL THERE
MISC. PARTS, V22	1'27	MC-V22	1A ALL THERE
WING TEST STAND, F18 EF	1'28	MC-V22	1A ALL THERE
SPREADER BAR	1'29	MC-6	1A ALL THERE
SPREADER BAR	1'30	MC-2	1A ALL THERE
AFTERBURNER MODULE, F414	1'31	MC-2	1A ALL THERE
ARCHAFT, SET, F14	1'32	31197	1A ALL THERE
ARCHAFT, SET, F14	1'33	MC-K	1A ALL THERE
STAND, F14, INTAKE	1'34	FC	1A ALL THERE
WING, F14	1'35	FC	1A ALL THERE
FUEL CELL, F14	1'36	31197	1A ALL THERE
ARCHAFT, HELICOPTER, 214ST	1'37	31197	1A ALL THERE
STAND, HELICOPTER, 214ST	1'38	31197	1A ALL THERE
BLADE, HELICOPTER, 214ST	1'39	31197	1A ALL THERE
BLADE, HELICOPTER, 214ST	1'40	31197	1A ALL THERE
MAINTENANCE STAND, T40	1'41	31197	1A ALL THERE
NETTING, 30" X 60"	1'42	31197	1A ALL THERE
TURBINE DISK, FRAGMENTS	1'43	31197	1A ALL THERE
ENGINE DISKS	1'44	31197	1A ALL THERE
TEMPLATE, F14 WING BOX CRADL	1'45	31197	1A ALL THERE
FRAME, SWASHPLATE ACTUATOR	1'46	31197	1A ALL THERE
MIXES GUN PARTS	1'47	31197	1A ALL THERE
FUEL BLADDER, V22	1'48	31197	1A ALL THERE
FUEL BLADDER, V22	1'49	31197	1A ALL THERE
FUEL BLADDER, V22	1'50	31197	1A ALL THERE
FUEL BLADDER, V22	1'51	31197	1A ALL THERE
FUEL BLADDER, V22	1'52	31197	1A ALL THERE
FUEL BLADDER, V22	1'53	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'54	31197	1A ALL THERE
ARCHAFT, HELICOPTER, MH1N	1'55	31197	1A ALL THERE
ARCHAFT, HELICOPTER, MH1N	1'56	31197	1A ALL THERE
ARCHAFT, HELICOPTER, MH1N	1'57	31197	1A ALL THERE
ARCHAFT, HELICOPTER, MH1N	1'58	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'59	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'60	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'61	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'62	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'63	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'64	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'65	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'66	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'67	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'68	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'69	31197	1A ALL THERE
ARCHAFT, HELICOPTER, AH1	1'70	31197	1A ALL THERE



QTY	DESCRIPTION	UNIT	STATUS	REMARKS
1317	FIGURE, NEVLAR BLANKET, BALL			
1216	FUEL CELLS, V22, RH			
1210	FUEL CELL, V22, LH			
1200	FUEL CELL, V22, LH			
1201	FUEL CELL, V22, RH			
1202	FUEL CELL, V22, RH			
1203	FUEL CELL, V22, RH			
1204	FUEL CELLS, V22			
1205	AIRCRAFT, JET, F14			
1206	AIRCRAFT, JET, F14			
1207	AIRCRAFT, JET, F14			
1208	AIRCRAFT, JET, F14			
1209	SMALLATOR, WITH STAND, LHTY			
1211	FIGURE, FRAME BLADE END, V22			
1212	FIGURE, FRAME ACTUATOR END			
1213	FIGURE, ELEPHANT EAR ASSY, V			
1214	CF ACTUATOR EXTENSION, V22			
1215	MOUNTING BRACKET OUTER BLA			
1216	MISCELLANEOUS HARDWARE, V22			
1217	NEEDLE VALVE, HIGH PRESSURE			
1218	HYDRAULIC ACTUATOR, 451,000 LB			
1219	HYDRAULIC ACTUATOR, 40,000 LB			
1220	HYDRAULIC ACTUATOR, 40,000 LB			
1221	HYDRAULIC ACTUATOR, 40,000 LB			
1222	PANEL, INSC V22			
1223	WASH PANEL AND BURNS V22			
1224	BLOCK HOLDER (COMET MAIL)			
1225	T20 ENGINE MOUNTS FRONT AM			
1226	ENGINE, HELICOPTER, T700			
1227	CONTAINER, ENGINE, T700			
1228	AIRCRAFT F10			
1229	WING SECTIONS			
1230	ENGINE TF-S			
1231	ENGINE TF-S			
1232	ENGINE TF-S			
1233	F14 ENGINE BLADE			
1234	GRIP YOKE FIGURE			
1235	ACTUATOR STAND			
1236	GRIP YOKE PLATE			
1237	LOAD CELL ADAPTER			
1238	GRIP YOKE ACTUATOR ROD			
1239	GRIP YOKE WING BOX V-22			
1240	V-22 WING TIP MOUNT			
1241	ENGINE TF-S			
1242	ENGINE TF-S			
1243	V-22 WING TIP HOLDER			
1244	PACKAGE LOAD CELL			
1245	SURVIVAL EQUIPMENT			
1246	SURVIVAL EQUIPMENT			
1247	WING TIP RB WING BRACKETS V-			
1248	V-22 CONVERSION ACT SPINDLE F			
1249	V-22 CONVERSION ACT SPINDLE I			
1250	WING, V22 BAO STA			
1251	ENGINE, TF-S			
1252	V-22 CONVERSION ACTUATOR SP			
1253	AIRFLOW DUMMY FIGURE			
1254	803 BLUE ENDSTA WING FIGURE			
1255	404H4 ENGINE TEST STAND			
1256	SEAT RECOVERY FIGURE			
1257	V-22 SWASH PLATE ACTUATOR			
1258	F-16 EJECTION SIMULATOR			
1259	GENERATOR SET			
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WFSInventory.xls

WFSInventory.xls



C
CANNED ENG-REMOVED RM CAN 11-4-83 FOR INSPECTION
CANNED ENGINE
CANNED ENGINE

WGLInventory.xls

ENGINE IS CANNED
ENGINE IS ON THE GROUND
A84'S TRANSFERRED
ENGINE IS ON THE GROUND-CANNOT BE USED IN TEST. CORROSION
AFTERBURNER IN PLYWOOD CONTAINER
AFTERBURNER IN PLYWOOD CONTAINER
4 X 8 BED
OPERATIONAL
3 UNITS
CRATED

2 ITEMS #1 & 2 BOTH MAIN MOUNTS
CANNED 187/483

MISSILE MOUNTED ON HOUND DOG STAND WITH J2E ENGINE MISSILE STAND WSL 087
MISSILE MOUNTED ON METAL STAND WITH J2E ENGINE
MISSILE MOUNTED ON STAND WITH J2E ENGINE. HOUND DOG MISSILE STAND WSL 086
MISSILE MOUNTED ON STAND WITH J2E ENGINE
IN CONTAINER

F18 DROP TANK BURN FEATURE (HOLDS THE TANK)
47089 MOVED TO MC-D.
ON AERO 3000 TRAILER AND COVERED WITH A TARP

(ONLY INFO ON THE BUFF & RUFF) WESSEL 6458 HWG CHINA LAKE



ON PALLET, CONDITION GOOD, BUT WILL WEATHER REMOVED FROM TANKS USED FOR COLLECTING WASTE FROM HWAS.
ON 2 PALLETS
ON WOODEN PALLET
ON WOODEN PALLET, BLEED AIR LINE REMOVED 16-S-8869W
ON WOODEN PALLET WITH AFTERBURNER ATTACHED, OIL COOLER REMOVED 82556.
T34 TURBO PROP ENGINE INSTALLED

BADLY DAMAGED
JIGSSE INSTALLED PORTSIDE ONLY, EJECTION SEATS ARMED
JIGSSE INSTALLED PORTSIDE ONLY, EJECTION SEATS ARMED
NO ENGINES INSTALLED, EJECTION SEATS ARMED
2 EA JIGSSE ENGINES INSTALLED, EJECTION SEATS ARMED
2 EA JIGSSE ENGINES INSTALLED, EJECTION SEATS ARMED
27 ENGINE INSTALLED 808 COULD NOT FIND
28 ENGINE INSTALLED CLEANED UP & PAINTED TO SHOW BY TONY T. JAN. 1968
2 EA T3401 ENGINES INSTALLED, PORT ENGINE HAS FOD DAMAGE, NO WINGS ATTACHED.
NO ENGINES INSTALLED
NO BLADES

STORED IN ALUMINUM CONTAINER
STORED IN ALUMINUM CONTAINER

CALIBRATE LOAD CELL ON ENGINE TEST STAND
CARTRON OF PANELS
MULTI PURPOSE TEST FIXTURE LAST USED HYDRAULIC RAM TEST
ONE WOODEN CARTON
MULTI PURPOSE TEST STAND
USED AS FUEL INJECTION TEST
USED IN CONJUNCTION WITH WSL 5483URM TEST.
HEAVY DUTY WITH 1/2" STEEL TOP USED FOR BL-46 AT 2
JP 4.5 #115 TEST
NO WINGS, NO ENGINES, NO CANOPY INSTALLED. WSL 28-2 LEFT WING REMOVED TO BE SHIPPED TO MOCCLELLAN AFB 3-5-62, WING RETURNED FROM MOCCLELLAN AFB 9-17-62. 286-1026-2 WINGS ARE STORAGE IN LOCATION HC-333 PALLETS OF PANELS ARE TO BE STOWED UNDER AIRCRAFT
PARTS USE FOR F-415 TEST
HOOR MULTI PURPOSE
ROCKETE INSERT, 7799 MODIFIED FOR EJECTION SEAT...
TO BE USED IN CONJUNCTION WITH FIRE FIGHTING ON 1000 P40. C/P/PLANT ACCOUNT #402599
211616- #1 & #2

PANORAMITE TEST
BOXES LOANED TO DON WALDRON C-75440. TELE #27-3991.

2 PIECES #1 STAND, #2 STAND WITH EXTENSION, 0722916 ATTACHED TO WSL 1465
ENGINE PLACED IN CONTAINER 197184
ENGINE DAMAGED IN 84PT FM DNAPR. ENGINE HAS AFTER BURNER ATTACHED.

BURNED IN TEST.
STANDING ON END ON PALLET A/B
200 GAL DROP TANK.
USED IN CONJUNCTION WITH WSL 310-4 (PIECES, 6 PIECES REMOVED FROM K-3



AVIATION MUSEUM WEST 1/1/99 AIRCRAFT DISASSEMBLED IN THREE CRATES. ONLY ONE WING.

RECEIVED DAMAGED. ENGINE HAS AFTERBURNER ATTACHED.
TO BE USED ON A19 FUEL/EAGE FUEL TANK
RECEIVED FM EDLIN AFB FL
1/19 FUEL TANK 1208 GAL CAP SQUARE TANK SUPPORT HWAS AND ENGINE TEST. SHIPPED TO WHITE SANDS TO BE RETURNED. RETURNED 2004.
1500 GAL CAP. PAINTED YELLOW. SQUARE TANK NOT ON WHEELS NEEDS SANDING & PAINTING LAST USE-MODIFIED TO WATER TANK
1/19 FUEL TANK 1208 GAL CAP SQUARE TANK
1/19 FUEL TANK 1208 GAL CAP SQUARE TANK
1/19 FUEL TANK 1208 GAL CAP SQUARE TANK
PART OF WSL 377 4/1/04
PART OF WSL 377 4/1/04
SEE MARK MERCER FOR DETAILS
DO NOT TRANSPORT FROM TOP. MOVE ONLY WITH FORKLIFT. FOR CONTENTS SEE FILE FOLDER.
DO NOT TRANSPORT FROM TOP. MOVE ONLY WITH FORKLIFT. FOR CONTENTS SEE FILE FOLDER.
DO NOT TRANSPORT FROM TOP. MOVE ONLY WITH FORKLIFT. FOR CONTENTS SEE FILE FOLDER.
USED IN CONJUNCTION WITH AND BRN BLUE. USED WITH PL.
BIG BLUE

8 ITEMS TO WSL 385

TO BE USED AS SPARE PARTS. ENGINE BODY IN CAN. BARE ENGINE NO ACCT.
TO BE USED AS SPARE PARTS.
TAKEN FROM TEMP. STORAGE AC ENGINE FAS ROOM 2044
TAKEN FROM TEMP. STORAGE AC ENGINE FAS ROOM

4 LEGGED STAND-33 1/2 X 24 3/4 12 HIGH
YELLOW PIPE FLANGED BOTH ENDS-WITH LEGS 16" LONG. FLANGED ENDS 19 1/4 DIA
GRAY PIPE FLANGED AT BOTH ENDS. 48" HIGH FLANGED ENDS 30" DIA
PIPE-FLANGED AT ONE END-34 3/4 DIA. 25" HIGH
GRAY VERT DUCTS
CONTAINS WILAH81
TO BE USED IN F-18 TESTING
TO BE USED IN F-18 TESTING
TO BE USED IN F-18 TESTING
SHIPPED WITH ROUND COVER ON TOP-FRONT FACE PLATE AND FACE PLATE INSERTS WSL 417-1, 417-3, 417-5

404-1 WING. 404-3 FRAME. COMBINED WITH WSL 401. PORT LEADING EDGE FLAP ASSEMBLED FOR TRIP TO PHOENIX. AERIAL DISPLAY
-COMBINED WITH WSL 400. PORT LEADING EDGE FLAP ASSEMBLED FOR TRIP TO PHOENIX. AERIAL DISPLAY

22 PIECES
INSTALLED 14-07-91 UPPER CONTAINER WSL CHANGED TO 302
NON F19 ENGINE-MISSING P & D VALVE-IGNITION BOXES
NONE



F-4H Pegasus engine stand / AML WSL 726 ON STAND. AHS SPECIAL TOOLING
 3 PIECES STORED BELOW AC

PAINTED & READY FOR TEST
 MAX OPER. PRESSURE 3000
 NOW IN WORKING CONDITION. PLANT ACCOUNT #88688
 GOOD! READY FOR USE
 USED ON PARTIAL SAMPLING TESTS, MODIFIED FOR PROSECO
 2 CONTAINERS LOCATIONS OUTSIDE N2 FEMES-1 TANK ON WHEELS R2 FLAMMABLE AREA-1 TANK ON FORK LIFT SUPPORTS #1

F7 FLEW IN. ISSUED HORIZONTAL ST718 ACTUATORS OFF OF AC F7 RELEASED FOR SHIPMENT 5/26/66 TO DYWIDEN FLIGHT RESEARCH CENTER, EDWARDS, CA. NO FORT ENGINE INSTALLED. STBD ENGINE STILL INTACK. 112598 STARBOARD AFT MAIN LANDING GEAR DOORS MISSING. 107768 MOVED TO MESA E

BURNTOCH-WARRER F8
 MD SECTION ISSUED TO NORTHROP & ROGER BULLARD 4/20/66. 2 SECTIONS PLACED BACK IN COMPOUND FRONT SECTION LOCATED NCA-1 REAR SECTION LOCATED NCA-H. 8/3/66 NOSE SECTION TO NASA EDWARDS P.O.C FRED BORSCK.
 3 PIECES: WSL 458-1 & WSL 458-2 WING STANDS, WSL 458-3 NOSE STAND

NEEDS OVERHAUL
 NEEDS SANDING & PAINTING
 NEEDS SANDING & PAINTING

H.U.I.X
 H.U.I.X

LIFTING BODY
 JUNCTION RANCH IN CONJUNCTION WITH WSL 381
 USED ON MAIN PAD

F18 WING

SEE LARRY CONNOR
 USED ON C-2 PAD, 07/20/66 USED FOR AT DECAY FLARE

USED IN CONJUNCTION WITH WSL 898 ON Y2Z FUSELAGE TEST AC-86 02/06/66. USED IN CONJUNCTION WITH WSL 860 ON JWCY TEST CE-86 10/17/66. ISSUED TO JSCW TEST CE-86 16/01/66. C3 PAD FOR AIR FLO TEST 07/19/66.

PART OF BIG BLUE
 BIG BLUE SUPPORT GEAR
 AIR BRAKE CO. 5 HP MOTOR 220-440 140 GAL TANK

USED IN BOTH GUN TESTS & CAMERA SHOTS.
 USED IN F4 B TEST. (TRIANGULAR IN SHAPE). USED IN CONJUNCTION WITH WSL 604
 2 PIECES. USED WITH BIG BLUE.
 ROCKET MOTOR IMPACT TEST

INNER & OUTER WING PANELS
COMP. TEST.

CRASH DAMAGED.

SEE CARD
BLOWN UP PIECE ON SHOW & TELL AREA
RED BLUE ADAPTER ATTACHED TO WING
FUEL TANK TEST 3 PARTS

NO WING OR ENGINE DAMAGED TAIL SECTION. USEABLE FUEL INTERNAL TRANSMISSION LANDING GEAR & NOSE STRUT IN AIRCRAFT BODY SECTION TEST

ON WING STAND WSL 508
ON STAND WSL 507

2 WOODEN CARTONS 1ST FIB DROP TANK AND RESULTS OF FUEL SYSTEMS TESTS. 21488 REMOVED AT DOOR LED ASSY FOR MAC AIR AS PER J KOWAR
TAIL SECTION APPROX 3/4 OF THE RELEASE
STOWED IN SIDE 8-RED (C)
A BOXES OF FIS PARTS, BOXES #1 OF 8 & 2 OF 8 LOCATED DC-E1A, BOXES 3-4-4 & 8 OF 8 LOCATED MERCURY BLDG 801108L. STEWARD WING MISSING
CALLED YELLOW TOWER

3 TRAILERS WSL 558-1 EQUIPPED WITH MOTOR & PUMP, 558-2 NOT EQUIPPED WITH MOTOR OR PUMP, 558-3 EQUIPPED WITH MOTOR & PUMP

ASSIGNED TO ASBR
ASSIGNED TO ASBR, 51296 ISSUED TO JUNCTION RANCH
ASSIGNED TO ASBR
ASSIGNED TO ASBR
ASSIGNED TO ASBR
ASSIGNED TO ASBR

15 VANS TO BE INVENTORIED
LOW VELOCITY, USED IN CONJUNCTION WITH MK-8A, USED MK50 TESTS, LOCATED ON TOP OF MK50 TEST STAND
ENGINE OIL SERVICING UNIT

READY EQUIPMENT 1 KW-4UP F 80 CTR 18 AMP/8 120220V 3PH 4 WIRE ACCOUNTING NUMBER 00052
READY EQUIPMENT 1 KW-4UP F 80 CTR 18 AMP/8 120220V 3PH 4 WIRE ACCOUNTING NUMBER 00052

W/WENCH

W/O WENCH, 51296 USED IN TEST CP46

NEED SANDING & PAINTING
NEED SANDING & PAINTING



USED IN F18 TEST-REBBOXED AND AWAITING SHIPMENT

IN WOODEN BOX
TRSS BYPASS DUCT
2 CARTONS EACH CONTAINING 1 BELMOUTH
SEE CARD FOR INFORMATION
CARTONS #14, #14, #15
ANY INFORMATION GRAY
2 CARTONS #16, #17

MOUNTED ON HEAVY DUTY TRAILER AERO 3000
SEE CARD

- 1 LAUNCHER
- 2 RACKS
- EMPTY-NO TOP
- 3 BOMBS
- 2 CONTAINERS
- 2 BOMBS

PREVIOUSLY AIR SIMULATOR
CAP 489 GAL - 1187

RUSSEL-HPWELL
CONTROLLER FOR 250 KW RUSSEL-HPWELL 120-200 VOLTS
USED WITH WGL 632 & 633
USED WITH WGL 632-633-635

- 6 PIECES
- 2 PIECES

2 RACKS, 3 HOLDERS PER RACK
UNIT IS UP

BARREL AWAITING MAINTENANCE ISSUED TO JSOW TEST CF-48 0501A.M. CS PAD FOR AIR FLO TEST 05/19/98
BARCODE #002017 REMOVED UNDER 620A

UNIT IS UP

2 ITEMS BOTH USED TO TILT BIG BLUE
MOTOR FOR GEN 1800 RPM TYPE INCL. 51-70728 GENERATOR (POWART) 300 AMPS 40 VOLTS MOD 08-318 28-12074-20288 CRYSTAL INDUSTRIAL ENGINE MOD 085-1084-1 SN 020632

CAUTION TANK 34 FULL PROPANE USED IN BURN TEST

NO AFTERBURNER, NO MAIN FUEL CONTROL, NO VEH POWER UNIT, NO ECU, NO POWER LEVER CONTROL.
REMOVED FUEL CONTROL Y ALB 96 NO EXCITER BOXES OR IGNITER BOXES. SPARE PARTS ONLY.
5 DROOP TANKS 063 #1, 063 #2, 063 #3, 063 #4, 063 #5

6 BLADES-864 #1, 864 #2, 864 #3, 864 #4, 864 #5, 864 #6
2 BLADES-865 #1, 865 #2

FOR TEST SITE

USED IN BURN TUNNEL
3 ITEMS #1, #2, #5

ROCKET MOTOR IMPACT TEST
2 ITEMS 866 #1, 866 #2
MOUNTED ON THE STAND 1-HOUND COG MISSILE (INERT) WSL 174, 1-82 ENGINE
MOUNTED ON THE STAND 1-HOUND COG MISSILE (INERT) WSL 172, 1-82 ENGINE
2 WOODEN CONTAINERS 868 #1, 868 #2 FOR T-52, 138 APPLICATIONS

861 #1, 861 #2

EMPTY
EMPTY
EMPTY
CALLED MATTEL AIR GUN
BOMB BAY TANK

USED IN OLD PUMP HOUSE

OLD AIR SYSTEM
NWS30-83-00059
FOR JET ENGINES 2 UNITS WSL 710-1 WSL 710-2
WSL 711 AN8 1 AN8 2 F43
HOOKED TO EACH OTHER
5 ROLLS

FUEL CELL SHOT, FRONT SECTION OK, WINGS BACK MAJOR DAMAGE
USED IN CONJUNCTION WITH WSL 489 TURNABLE FOR F4 & F4H TESTS
USED FOR CLEANING METALS UNITS 721-1, 721-2, 721-3
CONTAINERS ARE IN BAD CONDITION WSL 722-7 CONTAINERS #1, #2, #3, #4, #5, #6, #7
PRIMED & PAINTED

A/C ENGINE CONTAINER CONVERTED TO TEST CONDITIONS
CONTAINS BOTH F4 & F4H PARTS
CONTAINS ENGINE SERIAL 421811 WSL F4H77
SMALL ROUND UPRIGHT-ENGINE CONTAINER
CONTAINS F111 PARTS & JET PARTS
CONTAINS F111 PARTS & JET PARTS
THIS CONTAINER WILL BE USED TO STORE ENGINE 2157'S WSL 1047
HOUSING FROM OLD BOMB SAMPLER WAS USED BAR CODE ON PUMP
USED IN AN8 TEST

READY FOR USE. NOTED DAMAGE ON STAND WSL 022. PREVIOUS CHANGE UNIT.
3 TABLES IN SER 42174-748, 42 SER 42290-111 & 2174-78
SOURCE 5718
DAMAGE DONE BY HIT FROM STINGER MISSILE
738-1 WING, 739-2 LANDING GEAR

DESIGNED FOR LOWER VELOCITY FLOW
MAX LOAD CAP. AT END OF BEAM 1900 LB. MAX LOAD AT CENTER OF STRUCTURE 20,000 LB.
30,000 GAL CAP. USE IN THE MK 60 TESTS
CONTAINER WAS WSL 22 HOT AC ENGINE IS WSL 22
USED ON F15 TESTS
5 HP
2 BEAMS: WSL 748-1, WSL 748-2, 3-STEEL PLATE PLATFORMS

POOR CONDITION, DIRTY, CORRODED, OF LITTLE VALUE EVEN FOR SPARE PARTS.
TAIL SECTION & FUSELAGE USED IN PAST TESTS - "D"

TAIL SECTION

FUSELAGE & TAIL SECTION

FUSELAGE WITH TAIL SECTION TRANSFERRED OUT AS PER JAY KOVARI TO AREA R ON 07/20/68
AOR HAS WORKED ON THIS PLANE
BOMB SAMPLER WSL 4793 WAS REBUILT IN A LARGER BOX MOVED TO HQ GARAGE 08/12/68 FROM JET SHOP. USED ON FRAG INDUCE ILLUJAGE EXPLOSION.
NASA JSF 100 13-A PARTS
API SEPARATOR REMOVED FROM MAIN PAD OUT OF SERVICE. JUN 64 STORED IN K2

42108 SLATS & FLAPS REMOVED FOR USS HORNET FOUNDATION (MUSEUM)



STRUT INLET ASSY ON WOOD

BURNIT

3 PARTS 2 ENDS TOP BEAM / USED IN PAST AT HAMM / ISSUED TO CHARLIE CASS PER J. KOVARI 1-19-95

3 SEA VANS WELDED TOGETHER FOR TEST WAS DAMPER (7H & 5TH) 90 INCH IN 3 SECTIONS

WITH 22 5/8" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # SM110, 15 H.P., 1700 R.P.M.

BUILT TO REPAIR FOREIGN FAB PRESSES

BOLTS TO MAIN PAO TURNABLE

CARGO AND WINGS, NO ENGINE, NO CANNOPY INSTALLED, LOT 3, BLOCK 4, MODEL AIRCRAFT #13.D. CONTROLLER'S TOWER FRONT PORTION OF AIRCRAFT BELONGING TO NASA TO BE MOBILE, NOSE STRUT REMOVED AND FORWARD FUEL TANK

ISSUED TO TEST ARTICLE (SMALL) 6842 TEST ARTICLE (LARGE) BOTH BURNED / BOTH UNTESTED

2 PALLET'S FITTED IN CONNECTION WITH INLET BRIDGE WELDER STILL ATTACHED TO GALLEY BRIDGE WELDER

ON TRUCK, STAND, 1100000 HW FMS ENG. IN BLDG. 3118

ON TRUCK, STAND, 1100000 HW FMS ENG. IN BLDG. 3118

6800000 ENGINE SENT FROM WBL TO EDWARDS AIRFIELD 6800000000 ENGINE RECEIVED FROM EDWARDS AFB

6800000 ENGINE SENT FROM WBL TO EDWARDS AIRFIELD 6800000000 ENGINE RECEIVED FROM EDWARDS AFB

COMPRESSOR UNITS MOVED FROM CC-40 TO AUTO REPAIR PAD 06/19/94 MOVED FROM STORAGE AND TRANSFERRED TO RAUF POLES ON STATION FOR TEST SHOTS 05/19/94. 6851044 RETURNED TO WBL 2 SECTIONS AFTER TEST

06/20/94 ISSUED TO ULLAGE MAIN PAO RETURNED TO STORAGE

062893: ISSUED TO LULLAGE MAIN P40 BY 48 RETURNED TO STORAGE
USED IN CONJUNCTION WITH BIG BLUE

BOXED

OPEN

THIS SCALE IS OUT OF CALIBRATION AS OF 1/6/53; ALSO A STICKER WITH NUMBER 00P AA 07780 IS ON THIS ITEM
028994 TOOK TO FAB PAD
ONLY WING IN AREA GRAPHITE CONSTRUCTION. 028994 REMOVED FROM NC-V PUT ON WING STAND WLS08 TO FAB FACUSED. IN TEST PLAN # 84-44 REMOVED FROM STAND AND RETURNED TO NC-3
KEEP FOR TRANSFER

CRASH PARTS

CRASH PARTS #1 HORIZONTAL STABILIZER WIRE EMPHASIS

CRASH PARTS

HAS AIR WING WSL 0540

10199: THIS WAS INSTALLED INTO THE F18 WE SHIPPED TO USAF/WSL 4950

800 GATES GENERATOR FRAMES

CONTAINS ENGINE WSL #624 J79

CONTAINS ENGINE WSL #624 J79

PULLED FROM F4 BURNT, CANNED & PRESSURIZED 4-4-64 IN WSL 028

PULLED FROM F4 BURNT, CANNED & PRESSURIZED 4-4-64 IN WSL 027

USED FOR AIR FLOW TEST IN RWAS.

USED TO HOLD V22 ENGINE SPINDLE

2-ASSEMBLY FIXTURES (82"X37") 2-PULLING TEMPLATES 1-BENDING FIXTURE 5-PIECE SET 1 NOV 68 REMOVED FROM HUT FOR USE IN SHOP
ACCESSORY RAILS 4-LEFT 8-RIGHT 6-TOP 2-BOTTOM
ON WSL 0478.

220 HIGH 480 LONG 360 DEEP METAL PRIOR USE, FREE CONTROL

220 HIGH 480 LONG 360 DEEP METAL

ARRIVED 10/19/64 IN COMPLETE RUBBLAGE IN WOODEN CARTON OF PARTS IN WOODEN CARTON OF PARTS

C-2 P40 FOR USE ON V22 WINGS PROJECT TEST AS PER ALUMINUM MINIMUM EXTENSION IS 7046/ MAX. IS 8000

FILTER TANK FROM FUEL TRUCK TONNAGE IN WATER TRUCK

4 RUBBER WHEELS SET UP TO USE SIDE BOARDS 48 012 WIDE 160 LONG 260 HIGH 160 MADE OF WOOD

RED MADE OF STEEL 40 WIDE- 160 LONG-360 HIGH SET ON 4 RUBBER WHEELS SET UP FOR SIDE BOARDS

RECEIVED FROM AIR STATION, CL. 028994 X P40 2 ENGINES INSTALLED-OAS TURBINES PORT-421357-JUNOBTED-401655-J79

RECEIVED FROM AIR STATION, CL. 028994 X P40 2 ENGINES INSTALLED-OAS TURBINES PORT-421354-JUNOBTED-401655-J79

RECEIVED FROM AIR STATION, CL. 028994 X P40 2 ENGINES INSTALLED-OAS TURBINES PORT-421354-JUNOBTED-401655-J79

RECEIVED FROM AIR STATION, CL. 028994 X P40 2 ENGINES INSTALLED-OAS TURBINES PORT-421354-JUNOBTED-401655-J79

RECEIVED FROM AIR STATION, CL. 028994 X P40 2 ENGINES INSTALLED-OAS TURBINES PORT-421354-JUNOBTED-401655-J79

BUILT TO HOLD TAIL P29

REMOVED WHEN PREPARING P3 FOR TEST

USED ONLY FOR GROUND MOVEMENT OF PRODDA CRATES - 1-3-3-4

STORAGE OF CORRA PARTS

2 EA 806-1 806-2

NEEDS TO BE SCRAPED

USED TO TOW P3 STAND

DAMAGED STARBOARD SIDE

POINT OF CONTACT - 10K

BOXED #1 WING FLAP ASSY 7440208-101 SERIAL NO. 110-005

BOXED #2 ALERON ASSY 744170005-1002

BOXED #3 ALERON ASSY 74417-0002-1002 SERIAL NO. 1-18-0022

1600 W HEATING ELEMENT, HOT WATER ELEMENTS/BOILER FLUIDS TEST
FAB AT WSL USED TO TRANSPORT T-48 ENGINE THIS STAND HAS 4 PARTS
FAB AT WSL USED TO TRANSPORT T-48 ENGINE THIS STAND HAS 4 PARTS
FAB AT WSL USED TO TRANSPORT T-48 ENGINE THIS STAND HAS 4 PARTS
FAB AT WSL USED TO TRANSPORT T-48 ENGINE THIS STAND HAS 4 PARTS
FAB AT WSL USED TO TRANSPORT T-48 ENGINE THIS STAND HAS 4 PARTS

NOTE: 1071264 INSTRUMENTATION PANELS WERE REMOVED BY MIKE GALLAGHER AND STORED IN THE FRING OFFICERS TRAILER. PLEASE CONTACT MIKE GALLAGHER FOR EXACT LOCATION OF INSTRUMENTATION PANELS. COM71962-NEW LOCATION IS STORED RIGHT BY THE METAL TRASH BIN.

SPARE SET OF TOP RAILS IN CRATE ALSO

50 X 50 FRAME
50 X 50 FRAME

ON STAND WSL 044
ON STAND WSL 046
ON STAND WSL 046

.VE

PARTS USE FOR F-15 TEST

SEE CARD FOR INFORMATION
SEE CARD FOR INFORMATION

AIR SUPPLY FOR OLD TEST SEKIT TO BE USED IN MERCURY BUILDING AS REQUIRED WAS WORKING WHEN REPLACED, BUT NEEDS WORK
TO BE WORKED FOR TEST THEN TO MAIN PAD.

ON PALLET IN NEW COMPOUND

ON PALLET IN NEW COMPOUND

HYDRAULIC RAM STRUCTURAL TEST/USED IN CONJUNCTION WITH 893 BULLETS/WSL 058 IS SET UP ON THIS FUTURE/V22 WING STRUCTURAL TEST.
ENGINE INSTALLED IN F-18 WSL 4 480 (STARBOARD SIDE) SHOT, NON SERVICEABLE, USED FOR BALLISTIC TESTS.

GIVEN TO: JOHN A. GOMES IN SENSOR/EQUIPMENT ANALYST LIFE SCIENCES ARTIFACT SECTION

IN SEN FUTURE LOGBOOK - 31187

NO FUEL CONTROL CONTAINED IN WSL 060/NO BY ACTUATOR, NO STARBOARD AFT REAR BEARING OIL PICK UP LINE LOGBOOK - 31187

CONTAINS T48 ENGINE SERIAL 6282071, WSL 085

2 PIECES

ON STAND WSL 047

ON STAND WSL 046

USED IN CONJUNCTION WITH WSL 075

BAR CODE 798128

TERMINAL BOX CONTAINS 7 TERMINAL STRIPS, 400 HZ RELAY AND OA CONTACTOR BOX. MEASURES 360W X 240L X 960D. ODD/ODDART RW8RA7A HLL
REMOVED FROM COMPOUND ON 2/7/86. TO BE CLEANED UP TO SHIP TO NAWC WARMANSTER. ITEMS THAT WENT WITH: PNEUMATIC BALL VALVE, MANUAL BALL VALVE, HALON BOTTLE, THREE LINES.
TANK: 5" I.D., 2280 U.S. GAL.
USED IN CONJUNCTION WITH WSL 075
FAB AT WSL FOR V22 WING, WSL 040 ON DOLLY.

CRATE WAS OPENED AND INDIVIDUAL PARTS LISTED ON V22 PARTS INVENTORY

ATTACHED TO WSL 038 FOR V22 FUSE/AGE TEST, 4/24/86. DETACHED FROM WSL 038 AND LOCATED IN NEW COMPOUND, 7/5/86.

CRASH PARTS
CRASH PARTS
CRASH PARTS

WSLInventory.xls

GELLY AFB TX 7281-441631 AUGUST 86



15000 BTU HIGH OUTPUT-HEAVY DUTY

TO BE USED IN CONJUNCTION WITH WSPJ487 ON V22 RELEASE TEST
CANNED ENGINE LOGBOOK = 31197
CANNED ENGINE LOGBOOK = 31197
CANNED ENGINE LOGBOOK = 31197
CANNED.

TO BE USED IN CONJUNCTION WITH FFE FIGHTING ON WAINPAD OR LANT ACCOUNT #43260.
NO WINGS, RECORD FROM REMAN PROGRAM, NO ENGINE. POC: JIM DUJAK, WHO IS CHECKING TO SEE IF WE'LL GET LOGBOOKS.

CANNED
RELEASE IS FROM REMAN PROGRAM
CANNED
STRIKED
NO ENGINES BODIES, 87
MFG AT WBL FOR MATTY FOR MATTY FOR HWAS DEFLECTING OF AIR NOT FINISHED YET
2 PIECES.

HEAVY WEIGHT-4000 LBS
LIGHT WEIGHT, ENGINEERED LANDING DEWIRE (ELD) 1040 LBS.

BROUGHT FROM EDWARDS AFB BY 101K.

CRATE OF PARTS FOR WIKES GUN BARREL, 1000SBS RECEIVED FROM DYNAMIC MACHINE, INC 71396 SHIPPED TO DYNAMIC MACHINE, INC 3070 RANDOLPH ST, HUNTINGTON PARK, CA 92255
4/2/88 MOVED TO 31110, RECEIVED FOR ART DUVAL 375-0743 SEE M. GRAY FOR ACCESS 83A-183CORPORATE SIZES- 270X260X600
4/2/88 MOVED TO 31110, RECEIVED FOR ART DUVAL 375-0743 SEE M. GRAY FOR ACCESS 83A-183CORPORATE SIZES- 400X300X100
4/2/88 MOVED TO 31110, RECEIVED FOR ART DUVAL 375-0743 SEE M. GRAY FOR ACCESS 83A-183CORPORATE SIZES- 700X300X200
WITH 12 1/2" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH 15 5/8" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH 15 5/8" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH 15 5/8" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH 12 1/2" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH 12 1/2" WHEEL, 3 PHASE MOTOR, MOTOR MODEL # 28607, 5 HP, 1725 R.P.M.
WITH SPLIT-PHASE A.C. MOTOR, 1/4 HP., 1725 R.P.M.

THIS UNIT HAS 2 VACUUM PUMPS ATTACHED ONE OF THEM HAS A SD-300 0428P1221.307 SM 182844 PUMP THE OTHER IS SD-49 0428P1251.307 SM 182812 MADE INFRANCE BOTH HAVE AN INDIVIDUAL MOTOR WHICH ARE 1 PHASE 3/4 HP, 115200-200 VOLT RATING
2 PIECES, BODY & NOSE
EXPLOSION PROOF 3 PHASE INDUCTION MOTOR-230VAC VOLTS, R.P.M. 347AMP & 443 CONTINUOUS RATING, USED WITH SWIMMER PUMP
USED WITH SWIMMER PUMP
NO AFTERBURNER OR THROTTLE DEVICES NO FUEL CONTROL NO VEH PUMPOING L.P. FAN ON IN 180 DEGREE POSITION
NO LINDER NO FLAME HOLDER NO THERMO COUPLER NO FUEL TUBES
NO LINDER NO FLAME HOLDER NO THERMO COUPLER NO FUEL TUBES
NO AFTERBURNER, NO FUEL ENGINE CONTROL UNIT NO MAIN FUEL CONTROL NO VEH. PUMP
BOLT MISSING A.C.F. FLAME NO MAIN FUEL CONTROL VOLTS LOCKS ON VEH ACTUATOR MOUNT TURNEY FEATHERS MISSING USED FOR BALLISTIC TEST
NEEDS OIL CHECK, VEH CHECK, OIL NEEDS, 8-11 AM USED IN BALLISTIC TEST
READY TO RUN, NEEDS OIL CHECK, OIL & LOCK OVER, 11-14 AM USED IN BALLISTIC TEST
MISSING ELECT, FUEL LEVER ASST (P.L.S.) WHEEL, POSITION ACTUATOR (MAY NOT) ADDED TO ENGINE IS FUEL TEMPERATURE & PRESSURE TEST HOOK UP TO OIL COOLER. AFTERBURNER SM 218249 HAS NOT BEEN STARTED VEH NEEDS BLEED.
BOTH ENGINES INSTALLED, OUTER WING SECTIONS MISSING, CANOPY MISSING, FORWARD ENGINE BAY DOORS MISSING
USED IN CONJUNCTION W 100L.



3 PIECES-WSL 453-1 & WSL 453-2 WING STANDS, WSL 453-3 NOSE STAND
 3 PIECES-WSL 453-1 & WSL 453-2 WING STANDS, WSL 453-3 NOSE STAND SUPPORTING WSL 668
 MODIFIED ON 11/6/95. PIECES PUT OUTSIDE OLD COMPOUND.
 WITH 12 1/2" WHEEL, 30 WIDE, 3 PHASE MOTOR, MOTOR MODEL # FC367 J H.P., 3600 R.P.M., 100 TO 700 CPM DEPENDING ON 12 TO 60 LUMIN BACK PRESSURE
 1/2 ENGINE CONTAINER, PAINTED & FILLED WITH FOAM ISSUED TO J50W TEST CF-46 05/06/98

3 PIECES.
 ISSUED TO J50W TEST CF-46 05/06/98.
 CONTAINS T14 ENGINE SERIAL#29208A, WSLJ1061
 CONTAINS T14 ENGINE SERIAL #29209 WSLJ1062
 CONTAINS T14 ENGINE SERIAL #29201 WSL #1063
 CONTAINED IN WSLJ1068 LOGBOOK -S1187
 CONTAINED IN WSLJ1069 LOGBOOK -S1187
 CONTAINED IN WSLJ1060 LOGBOOK -S1187

JIM DILLON BROLLIGHT IN INFO AS TO THE LOCATION OF THIS ITEM.
 100 100 TALL, 120 WIDE. ISSUED TO J50W TEST CF-46 05/06/98.
 SIX CYLINDERS - CAPACITY 3500 PS
 SIX CYLINDERS - CAPACITY 3500 PS
 SIX CYLINDERS - CAPACITY 3500 PS
 140 SQUARE PAN
 BARCODE # 101329
 807-1897-2 8 UNITS USE ON Y22 WINGS AS PER ALVIN L. HILL
 BARCODE#1033

8465-100X 8 102X 70 SUSPENSION BRACE SET AT 0 1020 / STAND CURRENTLY SET UP FOR ASBO 7A RELEASE MECHANISM.
 5 HP VOLT 208-220/440
 UTILIZED FOR EMPTYING WASTE WATER BY JERRY HOMER. ITEM WAS MODIFIED 06/09/98 ATTACHED A TRAP PUMP TO THE CART ON ON 3 RUBBER WHEELS.
 PUMP MOTOR COUPLING WITH DISCHARGE PRESSURE OF 180 PSIG, FLOWRATE OF 7 GPM @ 100 PSIG, MAX FLUID TEMP 400 DEG F, WITH ELECTRIC MOTOR, 1/2 HP, 1740 RPM, EXPLOSION PROOF FILLERS TO BE PUMPED AT FLOWRATE STATED ABOVE. HYDRAULIC FLUID, SPEC # MIL-H-83282, SPECIFIC GRAV
 PUMP MOTOR COUPLING WITH DISCHARGE PRESSURE OF 180 PSIG, FLOWRATE OF 7 GPM @ 100 PSIG, MAX FLUID TEMP 400 DEG F, WITH ELECTRIC MOTOR, 1/2 HP, 1740 RPM, EXPLOSION PROOF FILLERS TO BE PUMPED AT FLOWRATE STATED ABOVE. HYDRAULIC FLUID, SPEC # MIL-H-83282, SPECIFIC GRAV
 PUMP MOTOR COUPLING WITH DISCHARGE PRESSURE OF 180 PSIG, FLOWRATE OF 7 GPM @ 100 PSIG, MAX FLUID TEMP 400 DEG F, WITH ELECTRIC MOTOR, 1/2 HP, 1740 RPM, EXPLOSION PROOF FILLERS TO BE PUMPED AT FLOWRATE STATED ABOVE. HYDRAULIC FLUID, SPEC # MIL-H-83282, SPECIFIC GRAV
 PUT TOGETHER TO GET POWER TO CH PAD
 NO AFTERBURNER, NO MAIN FUEL CONTROL, NO VEH POWER UNIT, NO ECU, NO POWER LEVER CONTROL.
 CONTAINS WSLJ1070
 CONTAINED IN WSLJ1078

USED WITH HUFFER
 USED WITH HUFFER
 USED WITH HUFFER

NO CANOPY, NO SEATS, NO HORIZONTAL / VERTICAL STABILIZERS,
 804-547-758-972 EAD0901-947-758-1051 EAD0901-947-758-1022 EA
 USED FOR BALLISTIC TEST

3 TRAILERS WSL 666-1 EQUIPPED WITH MOTOR & PUMP, 666-2 NOT EQUIPPED WITH MOTOR OR PUMP, 666-3 EQUIPPED WITH MOTOR & PUMP
 3 TRAILERS WSL 666-1 EQUIPPED WITH MOTOR & PUMP, 666-2 NOT EQUIPPED WITH MOTOR OR PUMP, 666-3 EQUIPPED WITH MOTOR & PUMP

SEE HARD COPY FOR ADDITIONAL INFO. SHAW TEST PANELS AND FUEL CELL BATTERIES IN TR WALL NEXT TO SIMULATOR.
 USED WITH SOMMER PUMP

51186 RECREATED ALONG WITH OTHER FAN BLADE SHIPPED IN FOR SAME TEST ALL WSL #102-0112108 SHIPPED IN FOR CHUCK FRANKENBERGER'S TEST
 12MM FAN HULL, SHOT IN KEEL, THRUST TANKS, & 3, 4. NO ENGINES, NO FRONT LANDING GEAR, NO NOSE STRUT, FUEL CELL HARDWARE REMOVED FROM TANKS 1, 2, 3, 4. FIRE DAMAGE TO AFT FUSELAGE, AND WHEEL WELL AREA. KEEL STRIPPED OF ALL HARDWARE, RADAR AND GUN MOUNT HARDWARE STR
 MOUNTED ON WSL 737

DRAWING #P3181245

FIXTURE TO BE RETURNED TO BELL HELICOPTER TEXTRON UPON COMPLETION OF TEST. CO ADDRESS BELL HELICOPTER TEXTRON FT WORTH, TX 16176
 FUEL CELL INTACT, NO LANDING GEAR, NO OUTER WINGS, NO ENGINES. CONTAINS LEAD COATINGS



FUSELAGE INTACT FSD - STATIC TEST ARTICLE

DRAWING #E2181259
V22 FSD
V22 FSD
V22 FSD
V22 FSD

ENGINES INSTALLED, NO CANOPY, NO VERTICAL STABS
NO ENGINES, NO CANOPY.

1 SET = 4 PIECES WERE MADE HERE FOR F18 WING BOX METAL 4130 HEAT TREATED TP RC 36-40

PART NO IN BOX 801-000-176-102 801-002-626-102 801-002-542-114 801-002-910-801 801-002-910-802 801-002-910-803 801-002-910-804 801-002-910-805 801-002-910-810

USED WITH BQ BLAKE IN F18 E/F LIVE FIRE TEST

GOOD SPECIMEN APV INSTALLED, MAIN STRUTS INTACT, RED STRUT ON NOSE.

JUNK
110267 INTAKE STAND W/ SKATES
LIGHT INSTALLED, TRANSDUCER PORTS INSTALLED, BLADE SEAL INSTALLED.
F18 #2 BUS CELL FRAGMENT HOLD FOR R BULLARD, 102074LF PER NORM CAMPBELL
1138-4 P/N ON CC NOW PART OF HELD 1138-3 HUB CC NOW PART OF HELD 1138-3 WRT BLADE CC 1138-4 WRT BLADE CC
NOW PART OF HELICOPTER W/ 808 A HILL
NOW PART OF HELICOPTER W/ 808 A HILL
NOW PART OF HELICOPTER PER A HILL 82298
NOW PART OF HELICOPTER PER A HILL 82298

ORDERED BY M GRAY FOR JMW TESTING, 1020467, BANGCARD # 16773-0122-84-68, WEL# REQ BY MIKE GRAY 120897 TO BE STORED IN 12 GARAGE BLDG # 31123 #1. DOES. 20 SQUARE MESH, 100UTED, CUSTOMER BARRIER, DIAMOND, 30"X30"
SET ASIDE FOR C FRANKENBERGER
SET ASIDE FOR C FRANKENBERGER

12 PCS.
COMPLETE AIRCRAFT
MISC STAINLESS STEEL COMPRESSION FITTINGS DRAWINGS

STARBOARD TANK #2

STARBOARD TANK #3

STARBOARD TANK #4

PORT #B0 #1

PORT #B0 #3

PORT #B0 #4

1146-1 TRANSDUCER ON 1146-2 BLERAKE 87648 PLATED 1146-3 HUB

RECEIVED 5 HELDS ON SAME DOC # WEL 1146, WEL 1150, WEL 1151, WEL 1152, WEL 1153

RECEIVED 5 HELDS ON SAME DOC # WEL 1146, WEL 1150, WEL 1151, WEL 1152, WEL 1153

RECEIVED 5 HELDS ON SAME DOC # WEL 1146, WEL 1150, WEL 1151, WEL 1152, WEL 1153

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RECEIVED 5 HELDS ON SAME DOC # WEL 1146, WEL 1150, WEL 1151, WEL 1152, WEL 1153

GOOD FUSELAGE, NO ENG, NO TRANS
GOOD FUSELAGE, NO ENG, 1403 TRANS
NO TAIL, NO ENG, NO TRANS
NO ENGINE, NO TRANS, SPARE PARTS HELD
FRAG DAMAGE, NO ENG, NO TRANS
COMPLETE



FUSELAGE DAMAGE, FODDER ENR, BROKEN TRANS MOUNT
 USED ON ROTOR BLADE PROJECT, TAL BROKEN, MAJOR ENR & TRANS DAMAGE
 2 BOXES APPROXIMATELY 26 PANELS EACH
 2 HUBS 2 ROTORS 1 MAST 2 CONTES

NOTHING ON THIS AIRCRAFT CAN EVER BE USED FOR PARTS WSL 1211 is included.
 CONTAINS WSL 1178
 STORED IN WSL 1174

ATTACHES TO SPIN FITTURE

FOR LIFTING F18 CR6588 TO BE KEPT IN JET SHOP R0110 PER A HILL
 2-18 FT, 1-13 FT PREVIOUSLY USED FOR F14 AC. SWAN MODIFIED TO BE USED FOR F18

THROWALL-PIECES OF COMBINATION GEAR BOX
 THROWALL-PIECES OF COMBINATION GEAR BOX

WILL NOT REGISTER TORQUE, WE THINK TORQUE PICKUP TUBES ARE SHEARED

LARGE Y DUCT WIDTH 1010 HEIGHT 900 DEPTH 1000 WEIGHT 2000LBS
 RECTANGLE WIDTH 1010 HEIGHT 900 DEPTH 610 WEIGHT 2000LBS
 RECTANGLE WIDTH 900-250 HEIGHT 900 DEPTH 600 WEIGHT 1000LBS
 RECTANGLE-ROUND WIDTH 101-720 HEIGHT 610 DEPTH 670 WEIGHT 1500LBS
 SMALLY DUCT WIDTH 94-270 HEIGHT 300 DEPTH 700 WEIGHT 1000LBS
 ROUND TO ROUND WIDTH 74-580 DEPTH 470 WEIGHT 600LBS
 ROUND TO RECTANGLE WIDTH 450-540 HEIGHT 300 DEPTH 1100LBS
 S DUCT WIDTH 610 HEIGHT 610 DEPTH 1040 200LBS
 HALF CURVE WIDTH 600 HEIGHT 600 DEPTH 600 600LBS
 HALF CURVE WIDTH 600 HEIGHT 600 DEPTH 600 600LBS
 ROUND TO ROUND WIDTH 600 HEIGHT 600 DEPTH 600 600LBS
 LIGHT & CAMERA WIDTH 400 DEPTH 800 1000LBS
 SQUARE WIDTH 500 HEIGHT 500 DEPTH 1200 2000LBS
 SQUARE-ROUND (SET) WIDTH 900-400-400 HEIGHT 600 DEPTH 610-400 1500LBS
 SQUARE WIDTH 500 HEIGHT 600 DEPTH 1200 2000LBS
 RECTANGLE WIDTH 1010 HEIGHT 610-400 DEPTH 400 2000LBS
 SQUARE-ROUND WIDTH 101-720 HEIGHT 600 DEPTH 600 1800LBS
 RECTANGLE WIDTH 640 HEIGHT 280 DEPTH 480 WEIGHT 200LBS

PUMP F18 GPM POSITIVE DISPLACEMENT PUMP, 278 PSI MAX PRESSURE, FUEL COMPATIBLE PUMP 80 GPM CENTRIFUGAL PUMP, 24 PSI @ 18 EFF TANK 4 ULLAGE

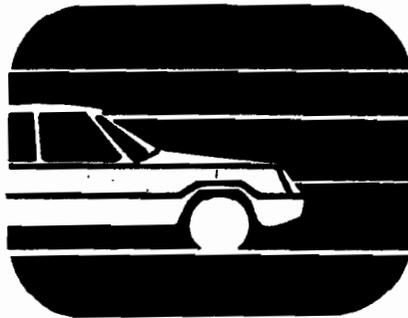
is included in wsl 1171

FOR AHIW
 FOR AHIW

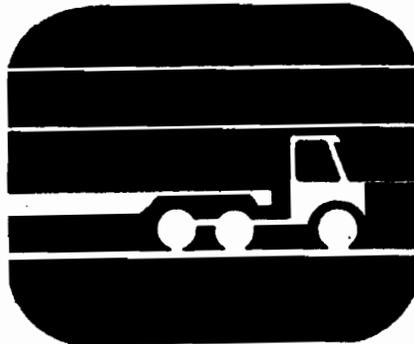
STAND EXTENSIONS ARE FROM WSL 1108 WHICH WAS PREVIOUSLY USED FOR F14. THE EXTENSIONS WERE CUT OFF OF THE STAND MARKED WSL 1108

Naval Facilities Engineering Command

200 Stovall Street
Alexandria, Virginia 22332-2300



Management of Transportation Equipment



NAVFAC P-300
September 1992

SN 0525-LP-541-8200



ATTACHMENT (4)

h. Limit use of electrical accessories. Turn off lights and heater when not needed.

i. Limit use of air-conditioner. Use of this accessory significantly reduces the miles per gallon (mpg) below that achievable without its use.

j. Ensure proper maintenance procedures are followed (see para. 4.10.6).

3.8 Testing and Licensing Vehicle and Equipment Operators.

3.8.1 Policy. It is the policy of the Navy to ensure that all military personnel, civilian employees, and contractor personnel operating vehicles and equipment on a naval installation are qualified and properly licensed. Most States now have a classified motor vehicle operator's licensing program that includes appropriate examination to ensure knowledge of traffic laws, ability to read road signs, vision, and color recognition; and to ensure by road test a competency to operate a specific class of vehicle. It is Navy policy to accept, without further testing and examination, a valid operator's license issued by a State or jurisdiction as proof that the applicant has achieved the proficiency level to safely operate Government vehicles up to 10,000 pounds gross vehicle weight (GVW). Examination and testing of motor vehicle operators by Navy activities will be limited to personnel required to be licensed to operate vehicles over 10,000 pounds GVW, buses, emergency service vehicles and special purpose vehicles, and to military personnel not possessing a valid State license. Further, it is Navy policy to establish and conduct training programs for full-time motor vehicle operators (MVO) to promote driver safety, fuel efficient operation and reduced vehicle maintenance costs. Additional training shall be provided to all operators of police vehicles, ambulances, fire trucks, fuel trucks, buses, motorcycles and vehicles used for transporting ammunition/explosives and hazardous material.

3.8.2 Applicability. The policy and procedures set forth herein are applicable to all naval activities, afloat and ashore, including ships, and will include military and civilian operators of all motor vehicles and construction/weight handling equipment (WHE). These policies and procedures are not applicable to operators of aircraft ground handling and servicing equipment under the cognizance of the Naval Air Systems Command, or to operators of materials handling equipment (MHE) under the cognizance of the Naval Supply Systems Command. Commanding Officers of shore activities and ships have authority to issue the U.S. Government Motor Vehicle Operator's Identification Card (Optional Form 346) under the procedures prescribed herein, and the Construction and Weight Handling Equipment Operator's License (NAVFAC Form 11260/2) in accordance with the procedures set forth in NAVFAC P-306. (See Figures 3-6 and 3-7)

3.8.3 DOD Contract Personnel. Contracts and agreements should require that equipment and operators comply with the licensing requirements of state and local motor vehicle laws. DOD contract personnel shall not be issued an OF-346 (U.S. Government

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Motor Vehicle Operator's Identification Card) or a Construction and Weight Handling Equipment License (NAVFAC 11260/2). DOD contract personnel assigned to operate either government owned or contractor owned/leased motor vehicles/equipment in performance of a contract shall be certified, by the contractor and at the contractor's expense, as being fully qualified to operate the vehicles/equipment to which they are assigned. Operator qualifications shall be, as a minimum, equivalent to operator requirements referenced in the applicable NAVFAC Publication P-300 and/or P-306. The prime contractor shall document all operator qualifications. This documentation shall be provided to the contract administrator prior to an operator engaging in any mode of equipment operation. Documentation shall be retained by the contract administrator.

3.8.4 Motor Vehicle Operator's Testing and Licensing Procedures. The regulations issued by the U.S. Office of Personnel Management govern all agencies in authorizing their civilian employees to operate Government owned/leased vehicles for official purposes and are set forth in Chapter 930 of the Federal Personnel Manual. In addition, activities shall comply with the procedures prescribed herein for military and civilian operators, and with current regulations prescribed in the following publications as applicable to all affected vehicle operators.

- a. Management, Acquisition and Use of Motor Vehicles (DOD 4500.36-R).
- b. Commercial Motor Vehicle Safety Act of 1986 (PL 99-570).
- c. Driver's Handbook, Ammunition, Explosives, and Dangerous Articles (NAVSEA OP-2239).
- d. Navy Transportation Safety Handbook (NAVSEA OP-2165, Vol. I.)
- e. U.S. Department of Transportation, Federal Highway Administration, Motor Carrier Safety Regulation, 49 Code of Federal Regulations, Parts 300-999.
- f. State and local laws and regulations.
- g. Navy Driver's Handbook (NAVFAC MO-403).

In addition to the foregoing publications and the regulations prescribed herein, Commanding Officers of activities or installations may prescribe more stringent or additional qualifications, requirements, examinations, or certifications as may be required in testing personnel for issuing the OF-346, or for suspending or revoking the OF-346. Suspension or revocation of the OF-346 for civilian operators, however, shall be consistent with the Federal Personnel Manual.

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REGISTER OF WAGE DETERMINATIONS UNDER
THE SERVICE CONTRACT ACT
By direction of the Secretary of Labor

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON D.C. 20210

William W. Gross
Director

Division of
Wage Determinations

Wage Determination No.: 1994-2053
Revision No.: 23
Date of Last Revision: 06/03/2003

State: California

Area: California Counties of Riverside, San Bernardino

****Fringe Benefits Required Follow the Occupational Listing****

OCCUPATION CODE - TITLE	MINIMUM WAGE RATE
01000 - Administrative Support and Clerical Occupations	
01011 - Accounting Clerk I	11.02
01012 - Accounting Clerk II	12.12
01013 - Accounting Clerk III	14.79
01014 - Accounting Clerk IV	16.28
01030 - Court Reporter	16.84
01050 - Dispatcher, Motor Vehicle	16.84
01060 - Document Preparation Clerk	13.50
01070 - Messenger (Courier)	9.04
01090 - Duplicating Machine Operator	12.38
01110 - Film/Tape Librarian	13.52
01115 - General Clerk I	8.66
01116 - General Clerk II	10.60
01117 - General Clerk III	12.65
01118 - General Clerk IV	14.78
01120 - Housing Referral Assistant	18.29
01131 - Key Entry Operator I	10.51
01132 - Key Entry Operator II	12.17
01191 - Order Clerk I	11.11
01192 - Order Clerk II	13.87
01261 - Personnel Assistant (Employment) I	13.70
01262 - Personnel Assistant (Employment) II	14.53
01263 - Personnel Assistant (Employment) III	16.84
01264 - Personnel Assistant (Employment) IV	17.72
01270 - Production Control Clerk	16.05
01290 - Rental Clerk	14.53
01300 - Scheduler, Maintenance	14.53
01311 - Secretary I	14.19
01312 - Secretary II	17.20
01313 - Secretary III	18.29
01314 - Secretary IV	20.89
01315 - Secretary V	24.62
01320 - Service Order Dispatcher	13.93
01341 - Stenographer I	12.38
01342 - Stenographer II	14.53
01400 - Supply Technician	20.89
01420 - Survey Worker (Interviewer)	15.61
01460 - Switchboard Operator-Receptionist	12.12
01510 - Test Examiner	16.84
01520 - Test Proctor	16.84
01531 - Travel Clerk I	10.21
01532 - Travel Clerk II	10.84
01533 - Travel Clerk III	11.48

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01611 - Word Processor I	12.20
01612 - Word Processor II	15.40
01613 - Word Processor III	15.52
03000 - Automatic Data Processing Occupations	
03010 - Computer Data Librarian	14.11
03041 - Computer Operator I	14.11
03042 - Computer Operator II	16.45
03043 - Computer Operator III	17.95
03044 - Computer Operator IV	20.31
03045 - Computer Operator V	22.49
03071 - Computer Programmer I (1)	15.53
03072 - Computer Programmer II (1)	19.24
03073 - Computer Programmer III (1)	24.42
03074 - Computer Programmer IV (1)	27.62
03101 - Computer Systems Analyst I (1)	27.62
03102 - Computer Systems Analyst II (1)	27.62
03103 - Computer Systems Analyst III (1)	27.62
03160 - Peripheral Equipment Operator	14.11
05000 - Automotive Service Occupations	
05005 - Automotive Body Repairer, Fiberglass	18.92
05010 - Automotive Glass Installer	19.28
05040 - Automotive Worker	19.28
05070 - Electrician, Automotive	20.50
05100 - Mobile Equipment Servicer	17.59
05130 - Motor Equipment Metal Mechanic	20.91
05160 - Motor Equipment Metal Worker	19.28
05190 - Motor Vehicle Mechanic	21.08
05220 - Motor Vehicle Mechanic Helper	16.32
05250 - Motor Vehicle Upholstery Worker	18.48
05280 - Motor Vehicle Wrecker	19.28
05310 - Painter, Automotive	20.11
05340 - Radiator Repair Specialist	19.28
05370 - Tire Repairer	13.98
05400 - Transmission Repair Specialist	20.91
07000 - Food Preparation and Service Occupations	
(not set) - Food Service Worker	9.22
07010 - Baker	14.36
07041 - Cook I	13.10
07042 - Cook II	14.36
07070 - Dishwasher	9.22
07130 - Meat Cutter	14.36
07250 - Waiter/Waitress	10.26
09000 - Furniture Maintenance and Repair Occupations	
09010 - Electrostatic Spray Painter	18.04
09040 - Furniture Handler	11.33
09070 - Furniture Refinisher	16.51
09100 - Furniture Refinisher Helper	13.51
09110 - Furniture Repairer, Minor	15.82
09130 - Upholsterer	16.51
11030 - General Services and Support Occupations	
11030 - Cleaner, Vehicles	10.50
11060 - Elevator Operator	9.96
11090 - Gardener	15.07
11121 - House Keeping Aid I	8.97
11122 - House Keeping Aid II	9.96
11150 - Janitor	9.96
11210 - Laborer, Grounds Maintenance	11.80
11240 - Maid or Houseman	8.97
11270 - Pest Controller	13.78
11300 - Refuse Collector	11.66
11330 - Tractor Operator	13.98
11360 - Window Cleaner	11.08
12000 - Health Occupations	

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12020 - Dental Assistant	12.85
12040 - Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	14.75
12071 - Licensed Practical Nurse I	14.25
12072 - Licensed Practical Nurse II	16.01
12073 - Licensed Practical Nurse III	16.62
12100 - Medical Assistant	11.81
12130 - Medical Laboratory Technician	13.57
12160 - Medical Record Clerk	11.22
12190 - Medical Record Technician	13.53
12221 - Nursing Assistant I	8.29
12222 - Nursing Assistant II	9.32
12223 - Nursing Assistant III	10.16
12224 - Nursing Assistant IV	11.04
12250 - Pharmacy Technician	14.66
12280 - Phlebotomist	13.04
12311 - Registered Nurse I	24.33
12312 - Registered Nurse II	27.82
12313 - Registered Nurse II, Specialist	29.20
12314 - Registered Nurse III	34.10
12315 - Registered Nurse III, Anesthetist	34.10
12316 - Registered Nurse IV	40.88
13000 - Information and Arts Occupations	
13002 - Audiovisual Librarian	20.33
13011 - Exhibits Specialist I	18.71
13012 - Exhibits Specialist II	24.13
13013 - Exhibits Specialist III	29.92
13041 - Illustrator I	18.54
13042 - Illustrator II	22.98
13043 - Illustrator III	28.10
13047 - Librarian	24.72
13050 - Library Technician	13.62
13071 - Photographer I	13.19
13072 - Photographer II	17.01
13073 - Photographer III	21.94
13074 - Photographer IV	27.20
13075 - Photographer V	32.89
15000 - Laundry, Dry Cleaning, Pressing and Related Occupations	
15010 - Assembler	7.38
15030 - Counter Attendant	7.38
15040 - Dry Cleaner	9.43
15070 - Finisher, Flatwork, Machine	7.38
15090 - Presser, Hand	7.38
15100 - Presser, Machine, Drycleaning	7.38
15130 - Presser, Machine, Shirts	7.38
15160 - Presser, Machine, Wearing Apparel, Laundry	7.38
15190 - Sewing Machine Operator	10.17
15220 - Tailor	10.88
15250 - Washer, Machine	8.03
19000 - Machine Tool Operation and Repair Occupations	
19010 - Machine-Tool Operator (Toolroom)	18.83
19040 - Tool and Die Maker	21.70
21000 - Material Handling and Packing Occupations	
21010 - Fuel Distribution System Operator	16.13
21020 - Material Coordinator	16.25
21030 - Material Expediter	16.25
21040 - Material Handling Laborer	16.24
21050 - Order Filler	14.17
21071 - Forklift Operator	14.58
21080 - Production Line Worker (Food Processing)	14.58
21100 - Shipping/Receiving Clerk	11.46
21130 - Shipping Packer	11.46
21140 - Store Worker I	9.38
21150 - Stock Clerk (Shelf Stocker; Store Worker II)	12.74

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21210 - Tools and Parts Attendant	14.58
21400 - Warehouse Specialist	14.58
23000 - Mechanics and Maintenance and Repair Occupations	
23010 - Aircraft Mechanic	20.81
23040 - Aircraft Mechanic Helper	14.77
23050 - Aircraft Quality Control Inspector	20.72
23060 - Aircraft Servicer	16.72
23070 - Aircraft Worker	17.67
23100 - Appliance Mechanic	18.77
23120 - Bicycle Repairer	13.98
23125 - Cable Splicer	21.76
23130 - Carpenter, Maintenance	20.36
23140 - Carpet Layer	18.24
23160 - Electrician, Maintenance	20.30
23181 - Electronics Technician, Maintenance I	21.19
23182 - Electronics Technician, Maintenance II	22.18
23183 - Electronics Technician, Maintenance III	22.96
23260 - Fabric Worker	17.86
23290 - Fire Alarm System Mechanic	19.16
23310 - Fire Extinguisher Repairer	14.68
23340 - Fuel Distribution System Mechanic	19.16
23370 - General Maintenance Worker	15.19
23400 - Heating, Refrigeration and Air Conditioning Mechanic	18.92
23430 - Heavy Equipment Mechanic	19.16
23440 - Heavy Equipment Operator	21.76
23460 - Instrument Mechanic	19.55
23470 - Laborer	11.66
23500 - Locksmith	18.04
23530 - Machinery Maintenance Mechanic	18.92
23550 - Machinist, Maintenance	19.16
23580 - Maintenance Trades Helper	13.51
23640 - Millwright	20.04
23700 - Office Appliance Repairer	18.04
23740 - Painter, Aircraft	18.04
23760 - Painter, Maintenance	18.04
23790 - Pipefitter, Maintenance	18.92
23800 - Plumber, Maintenance	18.04
23820 - Pneudraulic Systems Mechanic	18.92
23850 - Rigger	19.72
23870 - Scale Mechanic	17.44
23890 - Sheet-Metal Worker, Maintenance	18.92
23910 - Small Engine Mechanic	16.94
23930 - Telecommunication Mechanic I	20.53
23931 - Telecommunication Mechanic II	22.61
23950 - Telephone Lineman	19.16
23960 - Welder, Combination, Maintenance	18.92
23965 - Well Driller	21.16
23970 - Woodcraft Worker	18.92
23980 - Woodworker	14.68
24000 - Personal Needs Occupations	
24570 - Child Care Attendant	11.03
24580 - Child Care Center Clerk	13.77
24600 - Chore Aid	8.18
24630 - Homemaker	14.92
25000 - Plant and System Operation Occupations	
25010 - Boiler Tender	20.18
25040 - Sewage Plant Operator	22.98
25070 - Stationary Engineer	23.94
25190 - Ventilation Equipment Tender	15.45
25210 - Water Treatment Plant Operator	22.94
27000 - Protective Service Occupations	
(not set) - Police Officer	28.30
27004 - Alarm Monitor	9.90

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27006 - Corrections Officer	23.51
27010 - Court Security Officer	24.00
27040 - Detention Officer	23.51
27070 - Firefighter	19.82
27101 - Guard I	8.87
27102 - Guard II	9.90
28000 - Stevedoring/Longshoremen Occupations	
28010 - Blocker and Bracer	16.94
28020 - Hatch Tender	16.94
28030 - Line Handler	16.94
28040 - Stevedore I	15.82
28050 - Stevedore II	18.60
29000 - Technical Occupations	
21150 - Graphic Artist	22.59
29010 - Air Traffic Control Specialist, Center (2)	31.08
29011 - Air Traffic Control Specialist, Station (2)	21.43
29012 - Air Traffic Control Specialist, Terminal (2)	23.60
29023 - Archeological Technician I	18.29
29024 - Archeological Technician II	18.99
29025 - Archeological Technician III	25.34
29030 - Cartographic Technician	27.75
29035 - Computer Based Training (CBT) Specialist/ Instructor	27.62
29040 - Civil Engineering Technician	21.94
29061 - Drafter I	16.40
29062 - Drafter II	18.40
29063 - Drafter III	21.93
29064 - Drafter IV	28.38
29081 - Engineering Technician I	14.25
29082 - Engineering Technician II	15.86
29083 - Engineering Technician III	17.91
29084 - Engineering Technician IV	22.18
29085 - Engineering Technician V	27.13
29086 - Engineering Technician VI	32.83
29090 - Environmental Technician	20.99
29100 - Flight Simulator/Instructor (Pilot)	30.38
29160 - Instructor	22.59
29210 - Laboratory Technician	17.17
29240 - Mathematical Technician	24.00
29361 - Paralegal/Legal Assistant I	17.23
29362 - Paralegal/Legal Assistant II	20.09
29363 - Paralegal/Legal Assistant III	24.56
29364 - Paralegal/Legal Assistant IV	29.73
29390 - Photooptics Technician	20.87
29480 - Technical Writer	24.43
29491 - Unexploded Ordnance (UXO) Technician I	19.75
29492 - Unexploded Ordnance (UXO) Technician II	23.90
29493 - Unexploded Ordnance (UXO) Technician III	28.64
29494 - Unexploded (UXO) Safety Escort	19.75
29495 - Unexploded (UXO) Sweep Personnel	19.75
29620 - Weather Observer, Senior (3)	20.02
29621 - Weather Observer, Combined Upper Air and Surface Programs (3)	18.03
29622 - Weather Observer, Upper Air (3)	18.03
31000 - Transportation/ Mobile Equipment Operation Occupations	
31030 - Bus Driver	15.50
31260 - Parking and Lot Attendant	7.73
31290 - Shuttle Bus Driver	12.01
31300 - Taxi Driver	9.70
31361 - Truckdriver, Light Truck	11.70
31362 - Truckdriver, Medium Truck	18.07
31363 - Truckdriver, Heavy Truck	19.23
31364 - Truckdriver, Tractor-Trailer	19.23
99000 - Miscellaneous Occupations	
99020 - Animal Caretaker	11.23

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99030 - Cashier	11.12
99041 - Carnival Equipment Operator	12.16
99042 - Carnival Equipment Repairer	13.10
99043 - Carnival worker	9.22
99050 - Desk Clerk	11.25
99095 - Embalmer	18.21
99300 - Lifeguard	10.38
99310 - Mortician	21.08
99350 - Park Attendant (Aide)	13.03
99400 - Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	10.38
99500 - Recreation Specialist	14.92
99510 - Recycling Worker	15.38
99610 - Sales Clerk	10.38
99620 - School Crossing Guard (Crosswalk Attendant)	9.22
99630 - Sport Official	10.38
99658 - Survey Party Chief (Chief of Party)	20.32
99659 - Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	14.72
99660 - Surveying Aide	10.73
99690 - Swimming Pool Operator	15.14
99720 - Vending Machine Attendant	12.82
99730 - Vending Machine Repairer	15.14
99740 - Vending Machine Repairer Helper	12.82

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$2.36 an hour or \$94.40 a week or \$409.07 a month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):

1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)

2) APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL: An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on

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Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**** NOTES APPLYING TO THIS WAGE DETERMINATION ****

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This

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publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall

be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} when multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure

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that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

DATA ITEM DESCRIPTION

Title: TECHNICAL REPORT - STUDY/SERVICES

Number: DI-MISC-80508A

Approval Date: 7 November 2000

Office of Primary Responsibility: G/TS-ALS

GIDEP Applicable: No

Applicable Forms: No

AMSC Number: G7408

DTIC Applicable: Defense Technical Information Center (DTIC), 8725 John J. Kingman Rd.,
Ste. 0944, Ft. Belvoir, VA 22060-6218

Use/Relationship

A technical report provides fully documented results of studies or analyses performed. This data item description contains the format and content instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

This DID supersedes DI-MISC-80508.

Requirements:

1. Format.

- (a) The report and all attachments shall be typewritten, or otherwise clearly lettered, and shall be duplicated using non-fading ink.
- (b) Text shall be prepared on standard letter size paper (8 1/2" x 11").
- (c) When attachments are included, they shall be fully identified, referenced in the text, and folded to conform to the size paper used in the report.
- (d) Security classification and distribution markings shall conform to the requirements of the contract, purchase description and security requirements checklist, as applicable.

2. Content.

- (a) Title Page - Identifies the report by providing contract number, project name or purchase description title, task number, and reporting period.
- (b) Table of Contents
- (c) Section I - Includes the following:
 - (1) Introduction
 - (2) Summary - A brief statement of results obtained from the analytic effort.
 - (3) Conclusions and their condensed technical substantiation's.
- (d) Section II - A complete and detailed description of the analytic results which led to the conclusions stated in Section I above.

DATA ITEM DESCRIPTION		Form Approved OMB No. 0704-0188 Exp. Date: Jun 30, 1996	
1. TITLE Contractor's Progress, Status and Management Report		2. IDENTIFICATION NUMBER DI-MGMT-80227	
3. DESCRIPTION/PURPOSE 3.1 The Contractor's Progress, Status and Management Report indicates the progress of work and the status of the program and of the assigned tasks, reports costs, and informs of existing or potential problem areas.			
4. APPROVAL DATE (YYMMDD) 860905	5. CODE OF PRIMARY RESPONSIBILITY (CPR) N/SPANAR	6a. DTC REQUIRED	6b. CDRP REQUIRED
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement for this data included in the contract. 7.2 This DID may be applied in any contract and during any program phase. 7.3 This DID supersedes DI-A-2090A, DI-A-3025A, UDI-A-22050B, UDI-A-22052A, UDI-A-23960, DI-A-30024, and DI-A-30606. (cont. on page 2)			
8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AFSC NUMBER N3947	
10. PREPARATION INSTRUCTIONS 10.1 Contract - This data item is generated by the contract which contains a specific and discrete work task to develop this data product. 10.2 Format - This report shall be typewritten on standard size (e.g. 8 1/2" by 11") white paper, and securely stapled. Pages shall be sequentially numbered. All attachments shall be identified and referenced in the text of the report. The report shall be prepared in the contractor's format and shall be legible and suitable for reproduction. 10.3 Content - The report shall include: a. A front cover sheet which includes the contractor's name and address, the contract number, the nomenclature of the system or program, the date of the report, the period covered by the report, the title of the report, either the serial number of the report or the Contract Data Requirements List (CDRL) sequence number, the security classification, and the name of the issuing Government activity; b. Description of the progress made against milestones during the reporting period; c. Results, positive or negative, obtained related to previously-identified problem areas, with conclusions and recommendations; d. Any significant changes to the contractor's organization or method of operation, to the project management network, or to the milestone chart; e. Problem areas affecting technical or scheduling elements, with background and any recommendations for solutions beyond the scope of the contract; f. Problem areas affecting cost elements, with background and any recommendations for solutions beyond the scope of the contract; g. Cost curves showing actual and projected conditions throughout the contract; h. Any cost incurred for the reporting period and total contractual expenditures as of reporting date; i. Person-hours expended for the reporting period and cumulatively for the contract; j. Any trips and significant results; (cont. on page 2)			

7. APPLICATION/INTERRELATIONSHIP (Cont'd)

- 7.4** Paragraphs 10.3.f, 10.3.g, and 10.3.h herein should be tailored on DD Form 1423 when such cost data is already submitted through a sophisticated cost reporting system under the contract.
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10. PREPARATION INSTRUCTIONS (Cont'd)

- k.** Record of all significant telephone calls and any commitments made by telephone;
- l.** Summary of Engineering Change Proposal (ECP) status, including identification of proposed ECPs, approved ECPs, and implemented ECPs;
- m.** Contract schedule status;
- n.** Plans for activities during the following reporting period;
- o.** Name and telephone number of preparer of the report;
- p.** Appendixes for any necessary tables, references, photographs, illustrations, and charts.

DATA ITEM DESCRIPTION		Form Approved OMB No. 0704-0188	
1. TITLE Computer Software Product End Items		2. IDENTIFICATION NUMBER DI-MCCR-80700	
3. DESCRIPTION/PURPOSE 3.1 The Computer Software Product End Item provides data formatted for review or maintenance to assure significant milestones are met. 3.2 Data produced under this requirement will be used during the life cycle for development, operation and maintenance.			
4. APPROVAL DATE (YYMMDD) 881026	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) AMICOM	6a. DTIC APPLICABLE	6b. GPOF APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract. 7.2 These requirements apply to all software product end items which are acquired for Department of Defense use. 7.3 This DID supersedes DI-E-1125.			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER AMSC A4561
PREPARATION INSTRUCTIONS 10.1 <u>Content</u> . The specific documentation/software required and the form in which they shall be furnished (documentation/source/object/executable) shall be as delineated on the Contract Data Requirements List ((CDRL), DD Form 1423). 10.2 <u>Media</u> . The specific media on which the documentation/software shall be furnished (e.g., 9 track magnetic tape, tape cassette, floppy disk) shall be as specified on the CDRL. 10.3 <u>Format</u> . The format and method used to store and retrieve the documentation/software using the above media and all specific computer compatibility requirements shall be as specified on the CDRL.			
11. DISTRIBUTION STATEMENT <u>DISTRIBUTION STATEMENT A:</u> Approved for public release; distribution unlimited.			

DATA ITEM DESCRIPTION		Form Approved GSA GEN. REG. NO. 27	
1. TITLE Technical Data Package		2. IDENTIFICATION NUMBER DII-CORN-80776	
3. DESCRIPTION/PURPOSE 3.1 A Technical Data Package (TDP) contains all the descriptive documentation suitable for use as the basis for competitive acquisition, installation, modification, engineering support, or maintenance of military materiel developed by or for the Department of Defense.			
4. APPROVAL DATE (YYMMDD) 890308	5. OFFICE OR AGENCY RESPONSIBILITY (SIC) MI	6. DTC APPLICABLE	7C. GDS# APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 This Data Item Description (DID) contains the format and content preparation instructions for a TDP resulting from the work task described by 3.3 of MIL-T-47588. 7.2 When this DID, in whole or in part, is incorporated in a contract, DIDs applicable to individual parts of a TDP shall not be incorporated as separate requirements. 7.3 This DID supersedes DI-E-1115D.			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. ANEC NUMBER M649
10. PREPARATION INSTRUCTIONS 10.1 <u>Reference documents.</u> The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices and revisions, shall be as specified in the contract. 10.2 <u>Content.</u> The TDP shall include the following: a. Conceptual and Developmental Design drawings in accordance with MIL-T-47588/1. b. PRODUCT drawings in accordance with MIL-T-47588/2. c. Commercial drawings in accordance with MIL-T-47588/3. d. Special Test Equipment, Special Inspection Equipment, and Special Tooling drawings in accordance with MIL-T-47588/4. e. Specifications in accordance with MIL-T-47588/5. f. Quality Assurance Provisions (QAPs) in accordance with MIL-T-47588/6. g. Packaging instructions in accordance with MIL-STD-2073-1.			
11. DISTRIBUTION STATEMENT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

DATA ITEM DESCRIPTION		Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Service, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>			
1. TITLE		2. IDENTIFICATION NUMBER	
FUNDS & LABOR HOUR EXPENDITURE REPORT		DI-FNCL-81537	
3. DESCRIPTION/PURPOSE			
<p>3.1 This report provides Government visibility into contractor direct and indirect expenditures under Research & Development and Services contracts. It tracks both planned and actual expenditures and labor hours against baseline values, and provides estimates at completion.</p>			
4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
970313	BMDO/POC		
7. APPLICATION/INTERRELATIONSHIP			
<p>7.1 This DID contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.</p> <p>7.2 This DID is applicable to time and material, research and development and other contracts where use of Cost Performance Reporting (CPR) or Cost/Schedule Status Reporting (C/CSR) is not appropriate and as an alternative to DI-FNCL-80331, Funds and Man-Hour Expenditure Report. It is not applicable to fixed-price contracts. It is acquired on a periodic (normally monthly) basis.</p> <p>7.3 It is not intended that all the requirements contained herein should be applied to every contract or program phase. Portions of this DID are subject to deletion tailoring depending on the management requirements of the solicitation/contract in which it is applied.</p>			
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS	9b. AMSC NUMBER
			D7248
10. PREPARATION INSTRUCTIONS			
<p>10.1 <u>General</u>. The Funds & Labor Hour Expenditure Report shall contain the following data:</p> <ul style="list-style-type: none"> a. A tabular listing of contract baseline values, along with actual labor hours and expenditures inclusive of the reporting period compared to the latest negotiated change, including estimates at completion. b. A graphical plot of actual expenditures versus planned dollars projected to completion along with a plot of current funding. c. A graphical plot of actual labor hours versus planned labor hours projected to completion. <p>10.2 <u>Scope</u>. Data identified under 10.1 shall be provided for the following reporting units, to the extent applicable to the contract:</p> <ul style="list-style-type: none"> a. Total contract. b. Period Of Performance (POP), base period and options. 			
11. DISTRIBUTION STATEMENT			
DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.			

Block 7, Application/Interrelationship (Continued)

7.4 This DID is related to DI-MGMT-80607A, Project Planning Chart (other than fixed price contracts), DI-FNCL-80003, Man-hours Expenditure Chart, and DI-FNCL-80331, Funds and Man-hour Expenditure Report.

Block 10, Preparation Instructions (Continued)

10.2 Scope. (Continued)

- c. Contract Line Item Numbers (CLINs) associated with applicable POP.
- d. Task Orders/ Delivery Orders (TOs/DOs) associated with applicable CLINs.

10.3 Format and Content. Each detailed report shall contain the following:

10.3.1 Monthly Funds & Labor Hour Expenditure Report. This chart shall contain the following data elements (see Figure 1):

a. The table heading on the left side shall include contract number, latest executed modifications, contract type (cost and fee arrangements, CPFF, CPAF, etc.), report description (Contract Summary, Option 1, CLIN, etc.). The table heading on the right side shall include preparation date, reporting period, POP, and funding.

b. The elements shall contain a breakdown by the following categories: Direct Labor Hours, Total Labor (Unburdened \$), Other Direct Costs (ODCs)(\$), Total Indirect Costs (\$), Overall Cost (\$), and Fee (\$)

Line 1, Direct Labor, shall identify direct labor hours (as awarded or later modified) for both Prime Contractor and Subcontractor:

- For Level of Effort (LOE) type contracts, by the labor categories negotiated in the contract.
- For completion type contracts, by total labor hours.

Line 2, Total Labor (unburdened), shall provide a subtotal of Direct (unburdened) Labor Dollars for the Prime Contractor.

Line 3, Other Direct Costs, shall identify ODCs for the prime contractor:

- For LOE type contracts, by facilities (rent, equipment, etc.), travel (including subsistence and other allowable costs related to travel) and any minor categories listed in "other," and resulting total ODCs.
- For completion type contracts, by total ODCs.

Line 4, Total Indirect Costs, shall identify the Prime Contractor's Total Indirect Cost amount.

Line 5, Overall Cost, shall provide Overall Cost for the Prime Contractor and Subcontractors.

(Continued on Page 3)

Block 10, Preparation Instructions (Continued)

10.3.1 Monthly Funds & Labor Hour Expenditure Report. (Continued)

Line 6, Fee, shall provide the Fee amount for the Prime Contractor. Cost Plus Fee amount shall be identified.

Open/Outstanding Commitments (the estimated dollar obligations, excluding accrued expenditures, to vendors or subcontractors including any termination liability) shall be identified, and amount plus commitments shall be provided.

c. Column "A" shall be labeled Current Contract Baseline. This column shall contain a total summary of the latest negotiated contract up to and including the fully executed modification identified in the table heading. Column "A1" shall contain all data for the Prime Contractor. Column "A2" shall contain all data for the Subcontractors. Column "A3" shall contain the combined total data for both the Prime Contractor and the Subcontractors.

d. Column "B" is applicable only to contracts with a requirement for task/delivery orders and shall be labeled Task/Delivery Order Authorized. This column shall contain a total summary of the latest authorized task/delivery orders.

e. Column "C" shall be labeled Reporting Period Expenditures. This column shall contain a total summary of expenditure data for the current reporting period. Expenditures are recorded costs as defined within FAR Clause 52.215-7, Allowable Cost and Payment, plus the estimated fee earned. Such costs include: (1) actual payments for services or items purchased directly for the contract, and (2) costs incurred, but not necessarily paid, for direct labor, direct travel, other direct costs, and allocated indirect costs.

f. Column "D" shall be labeled Cumulative Expenditures to Date. This column shall contain a total summary of expenditure data from inception through the current reporting period. Expenditures are recorded costs as defined within FAR Clause 52.215-7, Allowable Cost and Payment, plus the estimated fee earned. Such costs include: (1) actual payments for services or items purchased directly for the contract, and (2) costs incurred, but not necessarily paid, for direct labor, direct travel, other direct costs, and allocated indirect costs. Cumulative expenditures that result in a variance of ± 10 percent of the Cumulative Planned in both of the graphs shall be explained in the "Remarks" section.

g. Column "E" shall be labeled Estimate at Completion. This column shall contain an estimate of the final total cost at completion of the work effort. Estimates that vary from section 10.3.1.c, Current Contract Baseline, by ± 10 percent shall be explained in the "Remarks" section.

10.3.2 Funds Expenditure Graph. A funds expenditure graph shall be included. The graph shall portray, on a monthly basis, the planned versus actual dollar expenditures (including fee, except for CPAF contracts) along with funding for the applicable report. The graph shall include a corresponding table of figures, specifying period and cumulative data for planned and actual expenditures, and funding (see Figure 2).

10.3.3 Hours Expenditure Graph. A labor hour graph shall be included. The graph shall portray, on a monthly basis, the planned versus actual total labor hours for the applicable work. The graph shall include a corresponding table of figures specifying period and cumulative data for planned and actual labor hours (see Figure 3).

PROPRIETARY INFORMATION*

CONTRACT NO. CONTRACT TYPE REPORT DESCRIPTION:	THRU MOD:			MONTHLY FUNDS & LABOR HOUR EXPENDITURE REPORT			REPORTING PERIOD FROM: PERIOD OF PERFORMANCE: FUNDING:			PREPARATION DATE: THRU THRU					
	A			B			C			D			E		
	CURRENT CONTRACT BASELINE			TASK/DELIVERY ORDER AUTHORIZED (IF APPLICABLE)			REPORTING PERIOD EXPENDITURES			CUMULATIVE EXPENDITURES TO DATE			ESTIMATE AT COMPLETION		
	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	E1	E2	E3
	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL
1. DIRECT LABOR (HRS)															
PROGRAM MANAGER															
PRINCIPAL ENGINEER															
SENIOR ENGINEER															
SENIOR ANALYST															
ENGINEER															
ANALYST															
ASSOCIATE ENGINEER															
ASSOCIATE ANALYST															
ADMINISTRATIVE															
OTHER															
TOTAL LABOR (HOURS)															
2. TOTAL LABOR															

FIGURE 1. Monthly funds & labor hour expenditure report.

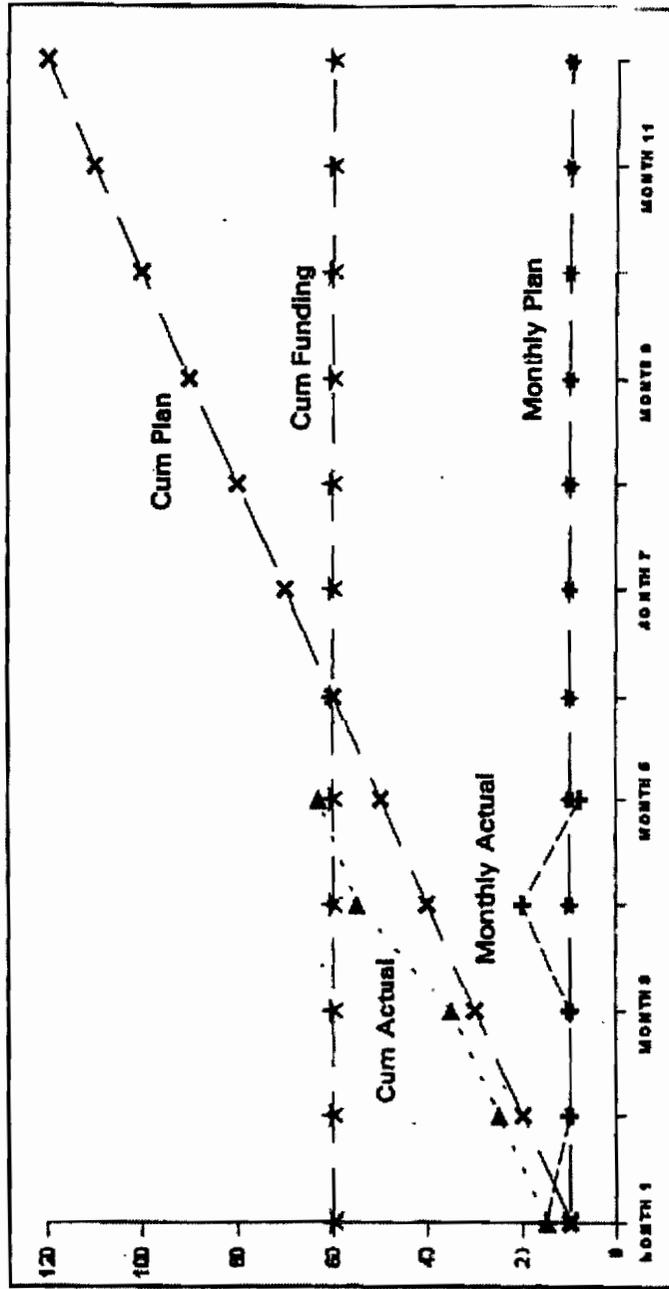
	A			B			C			D			E		
	CURRENT CONTRACT BASELINE			TASK/DELIVERY ORDER AUTHORIZED (IF APPLICABLE)			REPORTING PERIOD EXPENDITURES			CUMULATIVE EXPENDITURES TO DATE			ESTIMATE AT COMPLETION		
	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	E1	E2	E3
3. OTHER DIRECT COSTS (ODCs)	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL	PRIME	SUBS	TTL
FACILITIES	0			0			0			0			0		
TRAVEL	0			0			0			0			0		
OTHER	0			0			0			0			0		
4. TOTAL INDIRECT COSTS	0			0			0			0			0		
5. OVERALL COSTS	0			0			0			0			0		
6. FEE															
COST PLUS FEE															
OPEN/OUTSTANDING COMMITMENTS															
TOTAL COMMITMENTS & EXPENDITURES															
REMARKS:															

*This report includes data that shall not be disclosed outside the government and shall not be duplicated, used, or disclosed, in whole or in part, for any other purpose than to evaluate this report. This restriction does not limit the government's right to use information contained in this data if it is obtained from another source.

FIGURE 1. Monthly funds & labor hour expenditure report - Continued

REPORTING PERIOD:

CONTRACT NO:
 CONTRACT TYPE:
 REPORT DESCRIPTION:

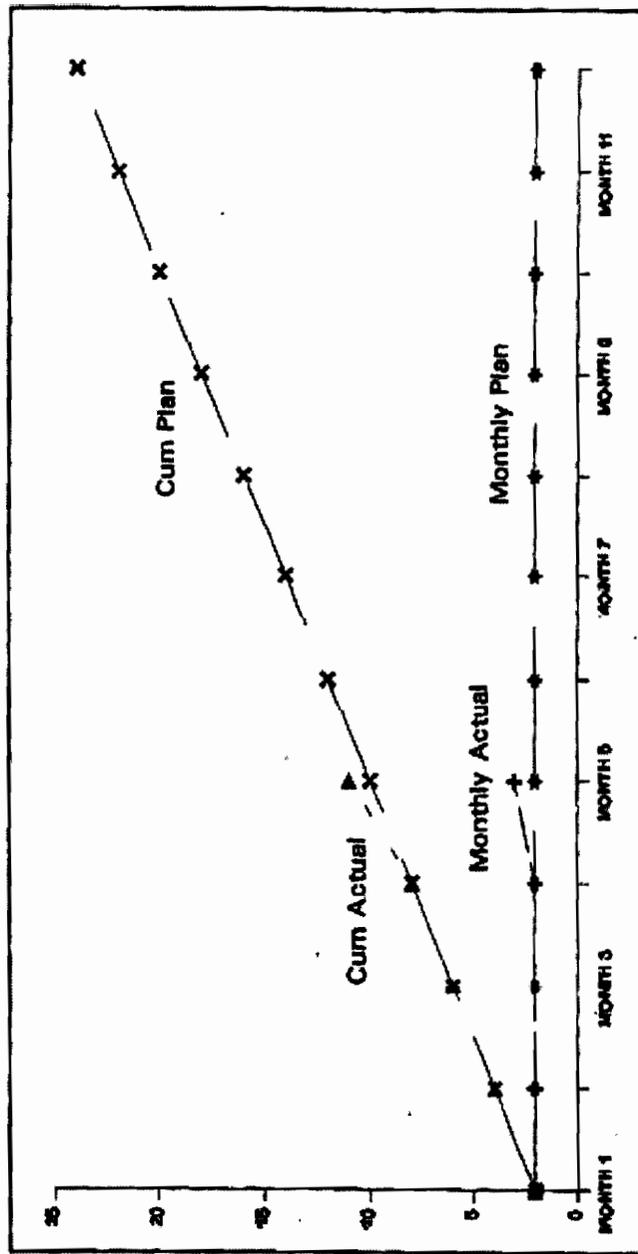


	10	10	10	10	10	10	10	10	10	10	10	
MONTHLY PLAN	10	20	30	40	50	60	70	80	90	100	110	120
CUM PLAN	15	10	10	20	8							
MONTHLY ACTUAL	15	25	35	55	63							
CUM ACTUAL	60	60	60	60	60	60	60	60	60	60	60	60
CUM FUNDING												

FIGURE 2. Funds expenditure graph

REPORTING PERIOD:

CONTRACT NO:
 CONTRACT TYPE:
 REPORT DESCRIPTION:



MONTHLY PLAN	2	2	2	2	2	2	2	2	2	2	2
CUM PLAN	2	4	6	8	10	12	14	16	18	20	22
MONTHLY ACTUAL	2	2	2	2	3						
CUM ACTUAL	2	4	6	8	11						

FIGURE 3. Hours expenditure graph