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Document Description: N68936-99-D-0133 BASIC CONTRACT

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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.

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)	RATING	PAGE OF PAGES
	DO-S1	1 / 83

2. CONTRACT NO.	3. SOLICITATION NO.	4. TYPE OF SOLICITATION	5. DATE ISSUED	6. REQUISITION/PURCHASE NO.
N68936-99-D-0133	N68936-99-R-0068	[ ] SEALED BID (IFB) [X] NEGOTIATED (RFP)	08 Apr 1999	N60530-9049-YFBG

7. ISSUED BY	CODE	8. ADDRESS OFFER TO (If other than Item 7)
COMMANDER NAWCWPNS, CODE 210000D 1 ADMINISTRATION CIRCLE CHINA LAKE, CA 93555-6100	N60530	

NOTE: In sealed bid solicitations, "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 2 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in China Lake, Airfield Bldg. 20259 until 16 30 (Hour) local time 25 May 1999 (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL	A. NAME	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS)
	DERRICK HU	(760) 939-9655

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OFFER (Must be fully completed by

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS %	20 CALENDAR DAYS %	30 CALENDAR DAYS %	CALENDAR DAYS %
None				

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
	0001	11 May 1999		

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
Materials, Communications and Computers (MATCOM) 1500 North Beauregard St., Suite 300 Alexandria, VA 22311	10-673-2308	6Z495	Mr. Alvin T. Johnson, President MACA

15B. TELEPHONE NO (Include area code)	15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE	17. SIGNATURE	18. OFFER DATE
(703) 820-3500	[ ]		May 25, 1999

AWARD (To be completed by

19. ACCEPTED AS TO ITEMS NUMBER	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
0001 & 0002	$11,001,348.00	SEE TASK ORDERS

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:	23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM
[ ] 41 U.S.C. 253(c)( )		

24. ADMINISTERED BY (If other than Item 7)	CODE	25. PAYMENT WILL BE MADE BY	CODE
DCMC - DCMAO Baltimore/Chesapeake 200 Townson Blvd. Townson, MD 21204-5299	S2404A	DFAS - CO/JXPB South Entitlement Operations Columbus, OH 43218-2264	HQ0338

26. NAME OF CONTRACTING OFFICER (Type or print)	27. UNITED STATES OF AMERICA (Signature of Contracting Officer)	
DIANE E. FOUCHER, CONTRACTING OFFICER	Diane E. Foucher	9-30-99

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Weapons Survivability Laboratory (WSL) Support Services and Materials - Years 1-3 (Basic Period)	1	LO	$5,500,674.00	$5,500,674.00

TOTAL ESTIMATED PRICE $5,500,674.00
MAXIMUM PRICE $11,001,348.00

Services: Break out specified in Section B
Estimated Hours: 162,000
Estimated Price: $4,953,654.00

Material: Not to exceed $234,000 plus handling cost of: $7,020.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block 25 of the DD Form 1155.

Other Direct Costs: Not to exceed $288,000 plus handling cost of: $18,000.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block 25 of the DD Form 1155.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Data in Accordance With DD Form 1423-2 Contract Data Requirements List (CDRL)	1	LO		NSP

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	**OPTION YEAR 1** Weapons Survivability Laboratory (WSL) Support	1	LO	$1,859,598.00	$1,859,598.00

TOTAL ESTIMATED PRICE $1,859,598.00
MAXIMUM PRICE $3,719,196.00

Services: Break out specified in Section B
Estimated Hours: 54,000
Estimated Price: $1,677,258.00

Material: Not to exceed $78,000 plus handling cost of: $2,340.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block

25 of the DD Form 1155.

Other Direct Costs: Not to exceed $96,000 plus handling cost of: $6,000.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block 25 of the DD Form 1155.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Data in Accordance With DD Form 1423-2 Contract Data Requirements List (CDRL)	1	LO		NSP

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	**OPTION YEAR 2** Weapons Survivability Laboratory (WSL) Support	1	LO	$1,872,558.00	$1,872,558.00

TOTAL ESTIMATED PRICE $1,872,558.00
MAXIMUM PRICE $3,745,116.00

Services: Break out specified in Section B
Estimated Hours: 54,000
Estimated Price: $1,690,218.00

Material: Not to exceed $78,000 plus handling cost of: $2,340.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block 25 of the DD Form 1155.

Other Direct Costs: Not to exceed $96,000 plus handling cost of: $6,000.00.
Each task order will specify a break out of the estimated cost of the task order.
Incurred costs may vary between estimated services and materials; however, the Contractor shall not exceed the total dollar amount of the task order shown in Block 25 of the DD Form 1155.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Data in Accordance With DD Form 1423-2 Contract Data Requirements List (CDRL)	1	LO		NSP

B-TXT **LABOR RATES**

(a) The contractor shall be compensated at the following rate for all services furnished pursuant to this contract.

(b) Set forth below are the estimated number of hours for the labor categories expected to be utilized, pursuant to any Task Order issued under this contract for the following services and time period:

Year 1 (BASIC PERIOD)

Labor Category	Estimated Man Hours	Standard Loaded Rates	Standard Overtime Loaded Rates	Sunday Overtime Loaded Rates	Holiday Overtime Loaded Rates
Chief Engineer/Manager	1,800				
Elec/Instrum Engineer	1,800				
Elec/Instrum Engineer	1,800				
Engineering Tech V	1,800				
Mechanical Technician IV	5,400				
Mechanical Technician III	3,600				
Aircraft Technician IV	5,400				
Aircraft Technician III	5,400				
Aircraft Technician II	1,800				
General Fabrication Tech IV	5,400				
General Fabrication Tech III	3,600				
General Fabrication Tech II	3,600				
Instrumentation Tech IV	3,600				
Maintenance Trades Helper	1,800				
Logistics Technician	1,800				
Inventory Specialist	1,800				
Warehouse Specialist	1,800				
Laborer	1,800				
Total Man Hours	54,000				

b (4)

NAME OF OFFEROR OR CONTRACTOR
MATERIALS, COMMUNICATION, AND COMPUTERS (MATCOM)

Year 2 (BASIC PERIOD)

Labor Category	Estimated Man Hours	Standard Loaded Rates	Standard Overtime Loaded Rates	Sunday Overtime Loaded Rates	Holiday Overtime Loaded Rates
Chief Engineer/Manager	1,800				
Elec/Instrum Engineer	1,800				
Elec/Instrum Engineer	1,800				
Engineering Tech V	1,800				
Mechanical Technician IV	5,400				
Mechanical Technician III	3,600				
Aircraft Technician IV	5,400				
Aircraft Technician III	5,400				
Aircraft Technician II	1,800				
General Fabrication Tech IV	5,400				
General Fabrication Tech III	3,600				
General Fabrication Tech II	3,600				
Instrumentation Tech IV	3,600				
Maintenance Trades Helper	1,800				
Logistics Technician	1,800				
Inventory Specialist	1,800				
Warehouse Specialist	1,800				
Laborer	1,800				
Total Man Hours	54,000				

b (4)

Year 3 (BASIC PERIOD)

Labor Category	Estimated Man Hours	Standard Loaded Rates	Standard Overtime Loaded Rates	Sunday Overtime Loaded Rates	Holiday Overtime Loaded Rates
Chief Engineer/Manager	1,800				
Elec/Instrum Engineer	1,800				
Elec/Instrum Engineer	1,800				
Engineering Tech V	1,800				
Mechanical Technician IV	5,400				
Mechanical Technician III	3,600				
Aircraft Technician IV	5,400				
Aircraft Technician III	5,400				
Aircraft Technician II	1,800				
General Fabrication Tech IV	5,400				
General Fabrication Tech III	3,600				
General Fabrication Tech II	3,600				
Instrumentation Tech IV	3,600				
Maintenance Trades Helper	1,800				

b (4)

Logistics Technician	1,800
Inventory Specialist	1,800
Warehouse Specialist	1,800
Laborer	1,800
Total Man Hours	54,000

b (4)

Year 4 (OPTION PERIOD)

Labor Category	Estimated Man Hours	Standard Loaded Rates	Standard Overtime Loaded Rates	Sunday Overtime Loaded Rates	Holiday Overtime Loaded Rates
Chief Engineer/Manager	1,800				
Elec/Instrum Engineer	1,800				
Elec/Instrum Engineer	1,800				
Engineering Tech V	1,800				
Mechanical Technician IV	5,400				
Mechanical Technician III	3,600				
Aircraft Technician IV	5,400				
Aircraft Technician III	5,400				
Aircraft Technician II	1,800				
General Fabrication Tech IV	5,400				
General Fabrication Tech III	3,600				
General Fabrication Tech II	3,600				
Instrumentation Tech IV	3,600				
Maintenance Trades Helper	1,800				
Logistics Technician	1,800				
Inventory Specialist	1,800				
Warehouse Specialist	1,800				
Laborer	1,800				
Total Man Hours	54,000				

b (4)

Year 5 (OPTION PERIOD)

Labor Category	Estimated Man Hours	Standard Loaded Rates	Standard Overtime Loaded Rates	Sunday Overtime Loaded Rates	Holiday Overtime Loaded Rates
Chief Engineer/Manager	1,800				
Elec/Instrum Engineer	1,800				
Elec/Instrum Engineer	1,800				
Engineering Tech V	1,800				
Mechanical Technician IV	5,400				
Mechanical Technician III	3,600				
Aircraft Technician IV	5,400				
Aircraft Technician III	5,400				

b (4)

Aircraft Technician II	1,800
General Fabrication Tech IV	5,400
General Fabrication Tech III	3,600
General Fabrication Tech II	3,600
Instrumentation Tech IV	3,600
Maintenance Trades Helper	1,800
Logistics Technician	1,800
Inventory Specialist	1,800
Warehouse Specialist	1,800
Laborer	1,800
Total Man Hours	54,000

{ b (4) }

B-NSTD-04 MATERIALS AND SUPPLIES

(a) The contractor shall be reimbursed for the actual cost of materials purchased or materials withdrawn from the contractor's store or warehouse (other than general office supplies) for the performance of work pursuant to the requirements set forth in the individual delivery orders, less any cash or quantity discount earned, plus mark-up for general and administrative expenses but without any mark-up for fee.

(b) Title to all property acquired in accordance with the paragraph above for the performance of work hereunder shall rest in the Government. Only materials and supplies directly required by individual delivery orders are included.

(c) The contractor shall not acquire any single item or system valued at $1,000.00 or more without a written proposal to do so and a written approval of the Ordering Officer.

B-TXT MINIMUM AND MAXIMUM CONTRACT AMOUNTS

During the period of this contract, the Government will place orders totaling a minimum of $400,000 (including fee), and a maximum effort as follows:

CLIN	0001	0003	0005
Services	$9,907,308.00	$3,354,516.00	$3,380,436.00
Materials NTE	$468,000.00	$156,000.00	$156,000.00
Materials Handling	$14,040.00	$4,680.00	$4,680.00
ODC NTE	$576,000.00	$192,000.00	$192,000.00
ODC Handling	$36,000.00	$12,000.00	$12,000.00
TOTAL	$11,001,348.00	$3,719,196.00	$3,745,116.00

GRAND TOTAL (All CLINs) $18,465,660.00

If options are exercised for option year 1 (CLIN 0003) and option year 2 (CLIN 0005), the estimated and maximum price for those options shall be added to the estimated and maximum price for the basic period (CLIN 0001).

SECTION C Descriptions and Specifications

CLAUSES INCORPORATED BY FULL TEXT

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 or maximum quantity) and that provides for the issuance of orders for the performance of tasks during the period of performance of the contract. A "Delivery Order Contract" means a contract for supplies that does not procure or specify a firm quantity of supplies (other than a minimum or maximum quantity) and that provides for the issuance of orders for the delivery of supplies during the period of the contract. Since the primary scope of this contract is services, the correct term of order will be "task orders." Therefore, delete the words "delivery order" whenever they appear in the solicitation/contract and replace them with the words "task order."

C-TXT 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. The contractor shall perform design, fabrication, instrumentation, test site preparation, testing, data collection, data reduction, logistics, and maintenance of aerospace and weapons systems, sub-assemblies, components, simulators, test support hardware, and test support equipment. Additionally, the contractor shall perform preventive and corrective maintenance of WSL test support facilities as well as logistics and inventory control of WSL property and future acquisitions.

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.

a. *Naval Weapons Station Safety Manual*, which is comprised of: OPNAVINST 5100.23D dated 11 October 1994, NAVAIRINST 5103.1A dated 17 December 1986 and NAWCWPNINST 5100.2 dated 14 May 1997

b. *PART 1910-OCCUPATIONAL SAFETY AND HEALTH STANDARDS*, Title 29: Chapter XVII, Code of Federal Regulations, Labor
(29 CFR 1910)

c. WSL Preventive Maintenance Plan, dated 12 February 1999

d. WSL Test Asset Inventory Listing

e. Naval Facilities Command Management of Transportation Equipment, P300, page 323, paragraph 3.83 dated September 1992

3.0 TECHNICAL REQUIREMENTS. The following information is provided to inform the contractor of the technical requirements that exist in the WSL environment. Technical support will involve, but is not limited to, the following:

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.

e. WSL logistics, inventory control, and property management.

f. Maintenance, calibration, upkeep, repair, and improvement of WSL test facilities and equipment.

Contractor will perform the above types of tasking with the use of and in compliance with the documents listed in section 2.0 and in accordance with individual program test plans provided by the Government.

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

Test programs are quite often unique and may be conducted only once. The contractor shall develop, fabricate, calibrate and inspect his systems to insure that they are technically adequate during a one-time event.

The Government will provide WSL project and facility program schedules. The Government reserves the right to make program schedule changes.

3.1 Requirements. The contractor shall perform the following tasks, which will be identified on individual task orders:

3.1.1 Planning. Contractor shall attend and participate in test planning and test scheduling meetings held by the government. Contractor shall schedule employee support to meet WSL project schedules.

3.1.2 Design. Perform a wide range of general mechanical, aerospace and electronics engineering design and drawing tasks relative to aircraft and missile simulators, structural support assemblies, special equipment, facilities and data acquisition systems. The contractor shall correct and document any design characteristics that are found to inhibit or make fabrication unnecessarily costly but that do not otherwise alter performance or system effectiveness characteristics.

3.1.3 Fabrication. Perform a wide range of general mechanical, aerospace and electronic fabrication tasks. Fabricate, modify, disassemble, repair, and reassemble aircraft and missile airframe and propulsion systems; steel, aluminum, titanium or composite aircraft simulators; structural support assemblies; fixtures; replicas; representative aerospace structural test panels; special test equipment; electronic components and test data acquisition systems.

3.1.4 Testing. Prepare and set up test specimen, fixtures, hardware and instrumentation at test sites prior to testing. Conduct preparation, pre-test inspection, quality acceptance checks, operational checks and operation of aircraft and missile systems; turbojet, turbofan, turboshaft, and reciprocating engines; data acquisition, data reduction and control systems; color video systems; transducers and thermocouples; and test support equipment and systems, including but 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

3.1.4.1 Test asset storage. Following completion of each test contractor will remove test assets and fixtures from the test pad, preserve and prepare for storage as required by test and / or maintenance plans and place them in the WSL storage compounds. Contractor will clean up the test pads and prepare them for future test events.

3.1.5 Logistics. Perform procurement research and make recommendations to appropriate government personnel regarding supplies and equipment which is best suited to meet program or facility requirements. Maintain inventory listing of government owned hand tools and equipment. Maintain and update the WSL test asset inventory list referenced in section 2.0. Maintain and update the WSL library listing consisting of aerospace technical publications, product directories/catalogs and weapon systems maintenance logs.

3.1.5.1 Technical Materials. The contractor shall provide materials, supplies, or minor equipment needed by the contractor to perform specific task order requirements. Typical examples of such procurements are raw materials (steel plate, aluminum extrusions, etc.) or minor equipment such as pneumatic tools. Ownership of any such materials or equipment procured will remain with the Government.

3.1.6 WSL Maintenance. Perform maintenance and calibration of WSL test equipment including that which is listed in section 3.1.4 according to the WSL Preventive Maintenance Plan listed in paragraph 2.0 of this SOW and/or individual test plans or task orders. Facilities and equipment must be kept operational and ready so as not to impact the WSL testing or fabrication schedule.

3.1.7 Project and Program Reporting. The contractor shall report project and facility program progress weekly to the WSL Contracting Officer's Representative (COR) as required by individual task orders. Contractor format is acceptable.

3.1.8 Place of Performance. Work will be performed primarily at, but not limited to, the WSL, NAWCWD, China Lake, CA.

3.2 Position Performance Specifications. The contractor should expect to staff the following possible functional positions over the life of the contract in accordance with position descriptions identified in sections 3.2.1, 3.2.2 and 3.2.3 of this contract SOW as required by specific task orders and or test plans:

CODE	POSITION
Engineering Positions	
1a	Chief Engineer/Manager
1b	Electronic Engineer OR Instrumentation Engineer
Technician Positions	
2a	Program/Test Lead
2b	Mechanical Technician-IV
2c	Mechanical Technician-III

2d Aircraft Technician-IV
2e Aircraft Technician-III
2f Aircraft Technician-II
2g General Fabrication Technician-IV
2h General Fabrication Technician-III
2i General Fabrication Technician-II
2j Instrumentation Technician-VI
2k Instrumentation Technician-IV
2l Instrumentation Technician-III
2m Instrumentation Technician-II
2n Maintenance Trades Helper

Skilled Specialists Positions
3a Logistics Technician
3b Inventory Specialist
3c Warehouse Specialist
3d Laborer

3.2.1 Engineering Positions.

3.2.1a Chief Engineer/Manager

Position 1a - Duties. Provide professional technical support to WSL in Research, Development, Test, and Evaluation (RDT&E):

(A) Perform lead planning, delegation, implementation and review of: the technical work of on-site contractor work teams of engineers, technicians and skilled specialists; contractor resources supporting specific project programs; and facility maintenance, repair and updating in accordance with the WSL Preventative Maintenance Plan as defined in this contract Statement of Work. Evaluate and resolve problems to insure program milestones are accomplished.

(B) Perform technical guidance to contractor engineering, technician and skilled specialist staff. Review and/or recommend modifications to engineering designs submitted by contractor staff to insure test plan objectives are met in an efficient, effective and safe manner.

(C) Review project and facility program planning, scheduling and coordination with contractor Section Leads and/or Program/Test Lead to insure that program milestone requirements are satisfied without jeopardizing safety of operations. Attend weekly WSL project scheduling meeting.

(D) Perform aerospace and mechanical engineer duties such as: project engineering, design and stress analysis. Plan, design and/or update test sites, test support facilities, equipment and systems located at the WSL when required by test plans or task orders.

(E) Perform qualification, acceptance and pre-test operational checks on project test articles such as aerospace vehicles, propulsion systems, and instrumentation setups for technical adequacy prior to test conduction when required by test plans or task orders. Perform qualification, acceptance and calibration tests on standard and/or non-standard test support equipment when required by test plans or task orders.

Position 1a - Minimum Experience and Skills:

(1) Bachelor of Science degree or Professional Engineering Certificate in Electronics Engineering, Electrical Engineering, Mechanical Engineering, Physics, Aerospace Engineering, Aeronautical Engineering or equivalent.

(2) Minimum of five years experience as a manager of aerospace programs or aerospace functional support organizations.

(3) Must possess a broad knowledge of general aviation, modern military aircraft, and weapon systems with respect to maintenance, engineering, flight operations, ground handling, inspection, test and evaluation.

(4) Must be capable of developing design modifications for aircraft, propulsion systems and weapon systems such that test plan requirements are satisfied without jeopardizing safety of operations.

(5) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(6) Familiarity with test procedures and safety directives in a RDT&E environment.

3.2.1b Electronics Engineer OR Instrumentation Engineer

Position 1b - Duties. Provide professional technical support to WSL in RDT&E:

(A) Design, develop, implement and review data acquisition systems and control systems for aerospace vehicles, propulsion systems, and weapons systems for the purpose of designs and experiments of aircraft survivability technology applications. Develop and implement software programs and systems for data acquisition and data reduction using IBM compatible and Macintosh computer software. Evaluate and resolve problems to insure program milestones are accomplished.

(B) Plan, coordinate, schedule and direct all instrumentation related functions associated with assigned tests. This involves the following tasks:

(1) Generate an instrumentation plan as required by individual test plans descriptive of the instruments and controls components to be used for the test.

(2) Supervise the installation and wiring of the instrumentation and controls on the test article.

(3) Set up, calibrate and operate data acquisition equipment.

(4) Direct data acquisition and control operations of the contractor.

(5) Perform data reduction of some data channels between test runs.

(6) Perform post-test data reduction to satisfy project requirements.

(C) Design, fabricate and functionally check ordnance safe/fire electrical systems.

(D) Document all hardware and software designs, developments and implementations. Hardware documentation includes engineering drawings and reports; software documentation includes reports for requirements/design and tests, commented 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.

(E) Perform engineering planning and design and fabrication of electrical/electronic test systems, improvement and new equipment installations. Perform maintenance, calibration, and some repair of electrical/electronic test facility equipment.

(F) Perform technical guidance for project engineers, firing officers, and technicians in the development of equipment and systems for use by a test program or WSL. Perform technical guidance to, and direct, contractor engineering, technician and skilled specialist staff. Attend weekly WSL project scheduling meeting.

Position 1b - Minimum Experience and Skills:

(1) Bachelor of Science degree in Electronics Engineering, Electrical Engineering, Mechanical Engineering, Physics, Aerospace Engineering, Aeronautical Engineering, or Professional Engineering Certificate in Electronics Engineering, Electrical Engineering, Mechanical Engineering, Physics, Aerospace Engineering, Aeronautical Engineering or equivalent.

(2) Five years experience as practicing engineer involved in design, development, and operation of data acquisition systems (analog, digital, video, micro-processors, pulse code modulation).

(3) Experienced with the setup, calibration, operation and computer control of the following types of equipment:

Wide band instrumentation amplifiers
Wide band instrumentation tape recorders
Digital data acquisition systems
Pulsed Code Modulated (PCM) multiplexing systems
Data logging and strip chart recorders
Computer controlled, self contained data acquisition systems
Servo control systems

(4) Experienced with the setup, calibration, operation and protection of the following types of signal transducers used to acquire wideband data:

Thermocouples	Resistance Temperature Detectors (RDT)
Blast gauges	Linear Variable Differential Transformers (LVDT)
Strain gauges	Accelerometers
Pressure transducers	linear potentiometers
Ballistic velocity screens	Fuel and air flow gauges
Tachometers	Flash detectors

(5) Must be capable of developing design modifications for electronic test support systems, aircraft, propulsion systems and weapon systems such that program requirements are satisfied without jeopardizing safety of operations.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with general aviation, modern military aircraft, and weapon systems.

(8) Familiarity with test procedures and safety directives in a RDT&E environment desirable.

3.2.2 Technician Positions.

3.2.2a Program/Test Lead
(Engineering Technician V, Service Contract Act Directory of Occupations)

Position 2a - Duties. Provide semiprofessional technical support to WSL in RDT&E under supervision of contractor Chief Engineer/Manager:

(A) Perform nonroutine and complex assignments involving responsibility for planning, coordination, integration and review of the technical work of on-site contractor section leads, work teams of engineers, technicians and skilled specialists, and contractor resources supporting specific project programs and facility maintenance, repair and updating. Evaluate and resolve problems to insure program milestones are accomplished.

(B) Review project and facility program planning, scheduling and coordination with contractor Section Leads to insure that program milestone requirements are satisfied without jeopardizing safety of operations. Attend project meetings with WSL Branch Head, Firing Officers, Range Engineer, branch personnel, project engineers and technicians for all phases of program planning, scheduling and milestone reviews for project program areas such as fabrication, test article acquisition, repair, setup, test conduction, cleanup and test article storage and shipping. Attend meetings with WSL Branch Head, Range Engineer and other branch personnel to discuss facilities maintenance, repair and updates. Attend weekly WSL project scheduling meeting.

(C) Perform planning, design, and scheduling of maintenance of test support facilities, equipment and systems at the WSL including that which is listed in paragraph 3.1.4 of this contract SOW.

(D) Perform qualification, acceptance and pre-test operational checks on project test articles such as aerospace vehicles, propulsion systems, and instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique mechanical test support equipment.

(E) Perform technician tasking such as fabrication, repair, modification, test site setup, operation of test support equipment and systems, and data acquisition as required by individual test plans and/or task orders.

Position 2a - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Minimum of five years general aviation, military aviation and/or missile weapons systems experience with respect to maintenance, engineering, flight operations, ground handling, inspection, and evaluation.

(3) Minimum of five years experience testing in a Test & Evaluation (T&E) environment.

(4) Must possess a broad knowledge of modern military aircraft and weapon systems. Must have ability to interpret engineering drawings, test plans, and program requirements. Must be capable of developing design modifications for aircraft, propulsion systems and weapon systems such that program requirements are satisfied without jeopardizing safety of operations.

(5) Must have analytical ability to define or recognize the dimension of test plans and program requirements, collect the necessary data and establish the facts, identify the options and alternatives, and to take or recommend action.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Minimum one year experience supervising technicians and skilled specialists in an RDT&E environment.

3.2.2b Mechanical Technician-IV
(Engineering Technician IV, Service Contract Act Directory of Occupations)

Position 2b - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety and complexity on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology applications.

(B) Perform as a member of project work team on test site and project test article preparations and setup, modifications and teardown. Conduct project tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures. Operate WSL special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

(C) Perform qualification, acceptance and pre-test operational checks on project test articles such as aerospace vehicles, propulsion systems, and instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique mechanical test support equipment.

(D) Perform modifications to existing project test article systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Perform modifications to or construct special test support equipment and systems. Perform machine tooling, steel and aluminum cutting and welding operations on these systems.

(E) Fabricate unconventional, one-of-a-kind items, systems, or apparatus in support of experimental project test articles.

(F) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

(G) Perform planning, design and update of WSL test sites and test support equipment and systems.

Position 2b - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of five years hands-on experience with knowledge of machine shop practice and mechanical assembly. Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(5) Must be capable of developing modifications for aircraft, propulsion and weapons systems such that program requirements are satisfied without jeopardizing safety of operations.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2c Mechanical Technician-III
(Engineering Technician III, Service Contract Act Directory of Occupations)

Position 2c - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology. Performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Perform as a member of project work team on test site and project test article preparations and setup, modifications and teardown. Conduct project tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures. Operate WSL special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

(C) Perform qualification, acceptance and pre-test operational checks on project test articles such as aerospace vehicles, propulsion systems, and instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique mechanical test support equipment.

(D) Perform modifications to existing project test article systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Perform modifications to or construct special test support equipment and systems. Perform machine tooling, steel and aluminum burning and welding operations on these systems.

(E) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

(F) Perform modifications to WSL test sites and test support equipment and systems.

Position 2c - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of three years hands-on experience with knowledge of machine shop practice and mechanical assembly. Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(5) Must be capable of developing modifications for aircraft, propulsion and weapons systems such that program requirements are satisfied without jeopardizing safety of operations.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2d Aircraft Technician-IV
(Engineering Technician IV, Service Contract Act Directory of Occupations)

Position 2d - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety and complexity on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology.

(B) Perform modifications to existing aircraft structure systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Test simulation typically requires the utilization of fuel and/or hydraulic pumps, fuel tanks, hydraulic reservoirs, shock struts, actuators, valves and related plumbing and fittings.

(C) Fabricate unconventional, one-of-a-kind items, systems, or apparatus in support of experimental project test articles.

(D) Plan and conduct work from blueprints, drawings, test plans, and aviation technical publications.

(E) Perform qualification, acceptance and pre-test operational checks on project test articles such as aerospace vehicles, propulsion systems, and weapons systems for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique mechanical test support equipment.

(F) Perform maintenance and repair of aircraft systems on operational aircraft.

(G) Perform steel and aluminum cutting and welding operations on structural test simulator assemblies and aircraft structures.

(H) Fabricate, repair and install electrical harness assemblies and components for instrumentation and control of aircraft or related test articles

(I) Modify standard engine sub-systems configuration, including pneumatic, hydraulic, lubrication, and fuel systems, while maintaining an operational engine capability. Perform operational checks of aircraft power plants and related sub-systems and components.

(J) Conduct tests or experiments requiring selection and adaptation or modification of a wide variety of critical test equipment and test procedures. Operate and maintain special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

Position 2d - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of five years experience of general aircraft repair, modification, ground handling, inspection and maintenance related to duties. Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(5) Knowledgeable and skilled in one of the following areas:

a. Aircraft pneumatic, hydraulic, lubrication and fuel systems, power plant and propulsion systems including the capability to repair or replace those systems.

b. Airframe and structural assemblies including the capability to fabricate and repair those assemblies. Aircraft sheet metal components used during aircraft repair and/or rework; i.e., brackets, clips, angles, skins, fittings, bulkheads, stringers, and formers.

c. Aircraft electrical power systems; i.e., DC and 400Hz systems, including the capability to fabricate and repair those systems. Familiar with closed circuit video systems and AC power systems.

(6) Must be capable of developing modifications for aircraft, propulsion and weapons systems such that program requirements are satisfied without jeopardizing safety of operations.

(7) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(8) Familiarity with test procedures and safety and with modern military aircraft and weapons systems.

3.2.2e Aircraft Technician-III
(Engineering Technician III, Service Contract Act Directory of Occupations)

Position 2e - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology. Performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Perform modifications to existing aircraft structure systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Test simulation typically requires the utilization of fuel and/or hydraulic pumps, fuel tanks, hydraulic reservoirs, shock struts, actuators, valves and related pumping and fittings.

(C) Perform review and acceptance checks at project milestones and completion of project assignment for technical adequacy.

(D) Plan and conduct work from blueprints, drawings, test plans, and aviation technical publications.

(E) Perform maintenance and repair of aircraft systems on operational aircraft.

(F) Perform steel and aluminum cutting and welding operations on structural test simulator assemblies and aircraft structures.

(G) Fabricate, repair and install electrical harness assemblies and components for instrumentation and control of aircraft or related test articles.

(H) Modify standard engine sub-systems configuration, including pneumatic, hydraulic, lubrication, and fuel systems, while maintaining an operational engine capability. Perform operational checks of aircraft power plants and related sub-systems and components. Perform jet engine test cell operations and install/remove quick-engine-change kits.

(I) Conduct tests or experiments requiring selection and adaptation or modification of a wide variety of test equipment and test procedures. Operate and maintain special test support equipment and WSL systems listed in paragraph 3.1.4 of this contract SOW.

Position 2e - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of three years experience of general aircraft repair, modification, ground handling, inspection and maintenance related to duties. Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans and program requirements.

(5) Knowledgeable and skilled in one or more of the following areas:

a. Aircraft pneumatic, hydraulic, lubrication and fuel systems, power plant and propulsion systems including the capability to repair or replace those systems.

b. Airframe and structural assemblies including the capability to fabricate and repair those assemblies. Aircraft sheet metal components used during aircraft repair and/or rework; i.e., brackets, clips, angles, skins, fittings, bulkheads, stringers, and formers.

c. Aircraft electrical power systems; i.e., DC and 400Hz systems, including the capability to fabricate and repair those systems. Familiar with closed circuit video systems and AC power systems.

(6) Must be capable of developing modifications for aircraft, propulsion and weapons systems such that program requirements are satisfied without jeopardizing safety of operations.

(7) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(8) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2f Aircraft Technician-II
(Engineering Technician II, Service Contract Act Directory of Occupations)

Position 2f - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform standardized assignments involving a sequence of related operations on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology. Routine work is reviewed on completion and nonroutine work may be reviewed in progress for technical adequacy or conformity with instructions.

(B) Perform review and acceptance checks at project milestones and completion of project assignment for technical adequacy.

(C) Plan and conduct work from blueprints, drawings, test plans, and aviation technical publications.

(D) Perform steel and aluminum cutting and welding operations on structural test simulator assemblies and aircraft structures.

(E) Fabricate, repair and install electrical harness assemblies and components for instrumentation and control of aircraft or related test articles.

(F) Modify standard engine sub-systems configuration, including pneumatic, hydraulic, lubrication, and fuel systems, while maintaining an operational engine capability. Perform operational checks of aircraft power plants and related sub-systems and components. Perform jet engine test cell operations and install/remove quick-engine-change kits.

(G) Perform test site preparations and modifications, and facility maintenance. Perform as a member of project work team on project test article preparations, modifications, construction, assembly, setup and teardown.

Position 2f - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of one year of experience of general aircraft repair, modification, ground handling, inspection and maintenance related to duties. Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(5) Knowledgeable and skilled in one of the following areas:

a. Aircraft pneumatic, hydraulic, lubrication and fuel systems, power plant and propulsion systems including the capability to repair or replace those systems.

b. Airframe and structural assemblies including the capability to fabricate and repair those assemblies. Aircraft sheet metal components used during aircraft repair and/or rework; i.e., brackets, clips, angles, skins, fittings, bulkheads, stringers, and formers. Experienced in drilling, riveting, cutting, and metal forming operations.

c. Aircraft electrical power systems; i.e., DC and 400Hz systems, including the capability to fabricate and repair those systems. Familiar with closed circuit video systems and AC power systems.

(6) Familiarity modern military aircraft and weapons systems.

(7) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

3.2.2g General Fabrication Technician-IV
(Engineering Technician IV, Service Contract Act Directory of Occupations)

Position 2g - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety and complexity on project test simulators, test panels, and WSL test support structures and equipment. Assist in the performance of test and evaluation of aircraft survivability technology.

(B) Perform as a member of project work team on project test article preparations, modifications, construction, assembly, setup and teardown using machine shop operations, sheet metal fabrication, steel and aluminum burning, welding operations, and mechanical assembly to existing project test article systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Perform modifications to or construct special test support equipment, systems, and large-scale structures.

(C) Perform review and acceptance checks at milestones and completion of program articles for technical adequacy.

(D) Fabricate unconventional, one-of-a-kind items, systems, apparatus, and test support structures in support of experimental project test articles.

(E) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

(F) Perform maintenance, repair and update on special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

Position 2g - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of five years hands-on experience in machine shop operations, sheet metal fabrication, composite materials tooling and fabrication, welding operations and mechanical assembly related to duties.

(5) Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(6) Must be capable of developing modifications such that program requirements are satisfied without jeopardizing safety of operations.

(7) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(8) Familiarity with test procedures and safety in an RDT&E environment.

3.2.2h General Fabrication Technician-III
(Engineering Technician III, Service Contract Act Directory of Occupations)

Position 2h - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety on project test simulators, test panels, and WSL test support structures and equipment. Assist in the performance of test and evaluation of aircraft survivability technology. Performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Perform as a member of project work team on project test article preparations, modifications, construction, assembly, setup and teardown using machine shop operations, sheet metal fabrication, steel and aluminum burning, welding operations, and mechanical assembly to existing project test article systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Perform modifications to or construct special test support equipment, systems, and large-scale structures.

(C) Perform review and acceptance checks at project milestones and completion of project assignment for technical adequacy.

(D) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

(E) Perform maintenance, repair and update on special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

Position 2h - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of three years hands-on experience in machine shop operations, sheet metal fabrication, composite materials tooling and fabrication, welding operations and mechanical assembly related to duties.

(5) Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(6) Must be capable of developing modifications such that program requirements are satisfied without jeopardizing safety of operations.

(7) Must possess ability to work tactfully with professional engineers, technicians, and management staff on all levels of effort.

(8) Familiarity with test procedures and safety in an RDT&E environment.

3.2.2i General Fabrication Technician-II
(Engineering Technician II, Service Contract Act Directory of Occupations)

Position 2i - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform standardized assignments involving a sequence of related operations on project test simulators, test panels, and WSL test support structures and equipment. Assist in the performance of test and evaluation of aircraft survivability technology. Routine work is reviewed on completion and nonroutine work may be reviewed in progress for technical adequacy or conformity with instructions.

(B) Perform maintenance, repair and update on special test support equipment and systems unique to the WSL listed in paragraph 3.1.4 of this contract SOW.

(C) Perform as a member of project work team. Perform test article preparations, modifications, construction, assembly, setup and teardown using machine shop operations, sheet metal fabrication, steel and aluminum cutting, welding operations, and mechanical assembly to existing project test article systems and structural test simulator assemblies or construct new systems to achieve test simulation requirements. Perform modifications to or construct special test support equipment, systems, and large-scale structures.

(D) Perform review and acceptance checks at project milestones and completion of project assignment for technical adequacy.

(E) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

Position 2i - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Practical knowledge of mathematics and science or engineering related to duties.

(4) Minimum of one year hands-on experience in drilling, riveting, cutting, metal forming operations, and mechanical assembly related to duties. Familiar with machine shop operations, sheet metal fabrication, composite materials tooling and fabrication, and welding operations.

(5) Skilled with precision hand tools and measuring instruments. Must have ability to interpret engineering drawings, test plans, and program requirements.

(6) Must possess ability to work tactfully with professional engineers, technicians, and management staff on all levels of effort.

3.2.2j Instrumentation Technician-VI
(Engineering Technician VI, Service Contract Act Directory of Occupations)

Position 2j - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform complex assignments of substantial variety and broad scope involving responsibility for planning and conducting a complete test project on articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology applications.

(B) Perform as a member of project work team on development of test instrumentation and interfaces for test article specimen; test site and project test article preparations, setup, modifications and teardown; and test conduction. 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
Oscillographs
Pulse Code Modulators (PCM)
A-D Converters
Micro-Processors
Video Systems, Cameras, Monitors
Electromechanical and Solid State Relays
Visicorders
Recorders
Digital annotation devices
Sequencers
Micro and Minicomputers
Signal conditioning amplifiers

(C) Assist project engineers and technicians during design, development and installation of project test data acquisition and data reduction systems. Examples of experimental test data acquisition are:

Linear motion measurement
Ballistic velocities
Vibration
Pressures
Temperatures
Fluid flow
Strain
Rpm
Optical flash detection
Range timing
Video

(D) Perform qualification, acceptance and pre-test operational checks on project test article instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique electronic test support equipment.

(E) Control and monitor WSL electrical/electronic test facility systems during test conduction including:

Video systems
Calibration equipment
Instrumentation rooms
Special test support systems
Control rooms

(F) Perform maintenance, repair and update of WSL electrical/electronic test facility systems.

(G) Design and fabricate unconventional, one-of-a-kind items, systems, or apparatus in support of experimental project test articles.

(H) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

Position 2j - Minimum Experience and Skills:

(1) Associate of Science degree in Electronics Technology or equivalent Associate degree with coursework related to duties or specialized training and additional experience.

(2) Minimum of five years of hands-on experience with knowledge of types of data acquisition systems (analog, digital, PCM) in a test and evaluation (T&E) environment. Capable of installing and calibrating pressure, temperature, strain, acceleration, and fluid flow type sensors and instrumentation. Must have ability to interpret engineering drawings, test plans, and program requirements and develop design modifications such that program requirements are satisfied without jeopardizing safety of operations.

(4) Practical knowledge of mathematics and science or engineering related to duties.

(5) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(6) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2k Instrumentation Technician-IV

(Engineering Technician IV, Service Contract Act Directory of Occupations)

Position 2k - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety and complexity on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology applications.

(B) Perform as a member of project work team on development of test instrumentation and interfaces for test article specimen; test site and project test article preparations, setup, modifications and teardown. 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
Oscillographs
Pulse Code Modulators (PCM)
A-D Converters
Micro-Processors
Video Systems, Cameras, Monitors
Electromechanical and Solid State Relays
Visicorders
Recorders
Digital annotation devices
Sequencers
Micro and Minicomputers
Signal conditioning amplifiers

(C) Assist project engineers and technicians during design, development and installation of project test data acquisition and data reduction systems. Examples of experimental test data acquisition are:

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

(D) Perform qualification, acceptance and pre-test operational checks on project test article instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique electronic test support equipment.

(E) Perform maintenance, repair and update of WSL electrical/electronic test facility systems:

Video Systems
Instrumentation Rooms
Control Rooms
Special test support systems
Calibration equipment

(F) Control and monitor WSL electrical/electronic test facility systems during test conduction.

(G) Design and fabricate unconventional, one-of-a-kind items, systems, or apparatus in support of experimental project test articles.

(H) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

Position 2k - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Minimum of five years of hands-on experience with knowledge of types of data acquisition systems (analog, digital, PCM) in a test and evaluation (T&E) environment. Capable of installing and calibrating pressure, temperature, strain, acceleration, and fluid flow type sensors and instrumentation. Must have ability to interpret engineering drawings, test plans, and program requirements and develop design modifications such that program requirements are satisfied without jeopardizing safety of operations.

(4) Skilled with precision hand tools and measuring instruments.

(5) Practical knowledge of mathematics and science or engineering related to duties.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2l Instrumentation Technician-III
(Engineering Technician III, Service Contract Act Directory of Occupations)

Position 2l - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform nonroutine assignments of substantial variety on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology. Perform recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Perform as a member of project work team on development of test instrumentation and interfaces for test article specimen; test site and project test article preparations, setup, modifications and teardown. 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
Oscillographs	Recorders
Pulse Code Modulators (PCM)	Digital annotation devices
A-D Converters	Sequencers
Micro-Processors	Micro and Minicomputers
Video Systems, Cameras, Monitors	Signal conditioning amplifiers

Electromechanical and Solid State Relays

(C) Assist project engineers and technicians during design, development and installation of project test data acquisition and data reduction systems. Examples of experimental test data acquisition are:

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

(D) Perform qualification, acceptance and pre-test operational checks on project test article instrumentation setups for technical adequacy prior to test conduction. Perform qualification, acceptance and calibration tests on standard and unique electronic test support equipment.

(E) Perform maintenance, repair and update of WSL electrical/electronic test facility systems:

Video Systems
Instrumentation Rooms
Control Rooms
Special test support systems
Calibration equipment

(F) Control and monitor WSL electrical/electronic test facility systems during test conduction.

(G) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

Position 2l - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Minimum of three years of hands-on experience with knowledge of electronics systems in a test and evaluation (T&E) environment. Capable of installing and calibrating pressure, temperature, strain, acceleration, and fluid flow type sensors and instrumentation. Must have ability to interpret engineering drawings, test plans, and program requirements and develop modifications such that program requirements are satisfied without jeopardizing safety of operations.

(4) Skilled with precision hand tools and measuring instruments.

(5) Practical knowledge of mathematics and science or engineering related to duties.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with test procedures and safety in an RDT&E environment, and with modern military aircraft and weapons systems.

3.2.2m Instrumentation Technician-II

(Engineering Technician II, Service Contract Act Directory of Occupations)

Position 2m - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform standardized assignments involving a sequence of related operations on project test articles such as aerospace vehicles, propulsion systems, pneumatic and hydraulic systems, electrical systems, airframe and related structural/mechanical components, flight controls and related sub-systems, and weapons systems. Assist in the performance of test and evaluation of aircraft survivability technology. Routine work is reviewed on completion and non routine work may be reviewed in progress for technical adequacy or conformity with instructions.

(B) Fabricate, install, test, calibrate, modify and repair 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
Oscillographs
Pulse Code Modulators (PCM)
A-D Converters
Micro-Processors
Video Systems, Cameras, Monitors
Visicorders
Recorders
Digital annotation devices
Sequencers
Micro and Minicomputers
Signal conditioning amplifiers
Electromechanical and Solid State Relays

(C) Assist project engineers and technicians during design, development and installation of project test data acquisition and data reduction systems. Examples of experimental test data acquisition are:

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

(D) Perform maintenance, repair and update of WSL electrical/electronic test facility systems:

Video Systems
Instrumentation Rooms
Control Rooms
Special test support systems
Calibration equipment

(E) Fabricate and assemble printed wiring boards, wirewrap assemblies, and soldering to WS 6536 standards.

(F) Perform review and acceptance checks at project milestones and completion of project assignment for technical adequacy.

(G) Conduct test site preparations and modifications, and facility maintenance. Perform as a member of project work team on project test article preparations, modifications, construction, assembly, setup and teardown.

(H) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

Position 2m - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Must have ability to interpret engineering drawings, test plans, and program requirements.

(4) Skilled with precision hand tools and measuring instruments.

(5) Practical knowledge of mathematics and science or engineering related to duties.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

(7) Familiarity with modern military aircraft and weapons systems.

3.2.2n Maintenance Trades Helper
(Maintenance Trades Helper, Service Contract Act Directory of Occupations)

Position 2n - Duties:

(A) Assist one or more workers in the skilled technician areas of Aircraft, General Fabrication, Instrumentation or Mechanical by performing specific or general duties of lesser skill under close supervision for technical adequacy or conformity with instructions.

(B) Plan and conduct work from blueprints, drawings, test plans, and technical publications.

(C) Perform spot welding, soldering, seaming, bolting, screwing, riveting, and tacking on assemblies.

(D) Fabricate, repair and install electrical harness assemblies and electronic components.

(E) Perform operational checks of aircraft power plants and related sub-systems and components. Perform jet engine test cell operations and install/remove quick-engine-change kits.

(F) Perform test site preparations and modifications, and facility maintenance.

Position 2n - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Familiar with one of the following areas: general aircraft repair including ground handling, inspection and maintenance; sanding, drilling, riveting, cutting, and metal forming operations; or fabrication and assembly of printed wiring boards, wirewrap assemblies, and soldering.

(4) Skilled with precision hand tools, measuring instruments, mechanical assembly and hand-held power tools. Must have ability to interpret engineering drawings, test plans, and program requirements.

(5) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

3.2.3 Skilled Specialists Positions.

3.2.3a Logistics Technician
(Supply Technician, Service Contract Act Directory of Occupations)

Position 3a - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform logistics for WSL projects and facilities maintenance (e.g., inventory management, provide recommendations to COR on material and equipment requisitions required for specific task orders, storage management, cataloging, and recommend property disposal).

(B) Update and revise WSL Inventory Control Management System inventories including:

WSL Existing and Future Project Assets Inventory
Property Inventory
WSL Metal Inventory
WSL Computer Accreditation Inventory
Materials Safety Data Sheets Log

(C) Generate WSL annual equipment inventory.

(D) Provide recommendations to the WSL COR the on acquisition of excess and high value loan items necessary to support WSL projects, test sites, test support equipment and systems unique to the WSL test facilities.

(E) Maintain a library consisting of aviation technical manuals, product directories/catalogs, and historical records for WSL Existing and Future Project Assets Inventory.

(F) Perform as a member of project work team on test site and project test article preparations, teardown and storage.

Position 3a - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(3) Minimum of five years hands-on experience with knowledge of Federal government supply and property disposal systems and military aviation logistics centers support role in Fleet operations.

(4) Knowledge of FAR Part 12 Acquisition of Commercial Items and Part 13 Simplified Acquisition Procedures including market research. Knowledge and experience in researching and contacting vendors for availability and pricing, item characteristics, or procurement lead time.

(5) Hands-on experience with comprehensive knowledge of computer data entry and retrieval, proper grammar, punctuation, and spelling. High degree of skill in applying software functions to prepare complex and detailed documents. Ability to comprehend and use reference guides, computer equipment, and software manuals.

(6) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort. Must have ability to interpret test plans and program requirements.

3.2.3b Inventory Specialist
(Material Coordinator, Service Contract Act Directory of Occupations)

Position 3b - Duties. Provide semiprofessional technical support to WSL in RDT&E:

(A) Perform inventory, research on items required for requisitioning, storage, cataloging, and property disposal assignments.

May be assisted by lower level technicians and skilled specialists. Performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Update and revise:

WSL Existing and Future Project Assets Inventory
Plant Accountable Property Inventory
WSL Metal Inventory
Materials Safety Data Sheets Log

(C) Research Government supply sources and commercial vendors for availability of supply items, item characteristics, procurement lead time and prices and provide recommendations to the WSL COR. Prepare requisitions for government approval. Track and trace requisitions and shipping requests, Inspects and recommends acceptance of supplies to the WSL COR.

(D) Maintain a library consisting of aviation technical manuals, product directories/catalogs, and historical records for WSL Existing and Future Project Assets.

(E) Generate WSL annual equipment inventory.

(F) Coordinate recommendations for the acquisition of excess and high value loan items necessary to support WSL projects, test sites, test support equipment and systems unique to the WSL test facilities.

Position 3b - Minimum Experience and Skills:

(A) High school education or equivalent.

(B) Formal military or trade school or equivalent on-the-job training commensurate with duties.

(C) Minimum of three years hands-on experience with knowledge of Federal government supply and property disposal systems and military aviation logistics centers support role in Fleet operations.

(D) Knowledge of FAR Part 12 Acquisition of Commercial Items and Part 13 Simplified Acquisition Procedures including market research. Knowledge and experience in researching and contacting vendors for availability and pricing, item characteristics, or procurement lead time.

(E) Hands-on experience with comprehensive knowledge of computer data entry and retrieval, proper grammar, punctuation, and spelling. High degree of skill in applying software functions to prepare complex and detailed documents. Ability to comprehend and use reference guides, computer equipment, and software manuals.

(F) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort. Must have ability to interpret test plans and program requirements.

3.2.3c Warehouse Specialist
(Warehouse Specialist, Service Contract Act Directory of Occupations)

Position 3c - Duties:

(A) Perform a variety of warehousing duties for the WSL Inventory Control Management System. Performs recurring work independently; work is reviewed for technical adequacy or conformity with instructions.

(B) Verify incoming shipments of materials and merchandise against receiving documents, noting and reporting discrepancies and obvious damages, and record date of receipt and report to WSL COR for action. Route materials to prescribed WSL storage locations. Store, stack or palletize materials in accordance with prescribed storage and safety methods. Pick up incoming shipments of materials and merchandise.

(C) Remove material from storage and prepare for shipment. Transport ready-to-ship materials to Government Shipping and Receiving dock.

(D) Operate hand tools, hand-held power tools, hand or power trucks. Load and unload trucks and other conveyances.

(E) Rearrange and take inventory of stored materials; examine stored materials and report deterioration and damage.

(F) Perform test site preparations, storage and cleanup, and facility maintenance and cleanup.

Position 3c - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Skilled with hand tools and hand-held power tools.

(3) Familiarity with inventory, storage, shipping and receiving procedures.

(4) Must possess ability to work tactfully with professional engineers, technicians and management staff on all levels of effort.

3.2.3d Laborer
(Laborer, Service Contract Act Directory of Occupations)

Position 3d - Duties:

(A) Perform tasks, which require mainly physical abilities and effort involving little or no specialized skill or prior work experience.

(B) Perform WSL facility housekeeping and maintenance. Operate hand tools and hand-held power tools. Load and unload trucks and other conveyances.

(C) Perform test site preparations and cleanup.

(D) Move and arrange heavy pieces of equipment.

Position 3d - Minimum Experience and Skills:

(1) High school education or equivalent.

(2) Skilled with hand tools and hand-held power tools.

3.3 Not Used

3.4 Tools. A required tool listing for each position (tools of the trade) will be generated by the contractor for positions in section 3.2.2 (Position Performance Specifications 3.2.2a through 3.2.2n) of this contract SOW. The tool lists shall become part of the position performance specifications. It is the employee's responsibility to furnish and maintain at his or her own expense their tools of the trade. These are tools which a skilled mechanic would normally be expected to use at his/her workplace. Contractor shall ensure that employees acquire and have available for use at the worksite, a complete tool kit, within one month of date of hire. 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 perform the functions defined in their respective position description. Engineering and Skilled Specialist positions do not require tool kits.

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 Cost Reports

4.2.1 Labor hour report. The contractor shall submit weekly to the WSL COR, labor-hours performed on each task order by labor category, total dollars charged per task order and task order balance by dollars and hours.

4.2.2 Material expense report. The contractor shall submit monthly to the WSL COR, An 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, 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.

4.3 Safety. The contractor's staff shall comply with all Federal and State safety regulations that apply to the Government at NAWCWD as defined in section 2.0 of this contract SOW and applicable contractor safety document requirements and those specified in individual task orders. Contractor shall provide all personnel safety training and certification as required by safety instructions and regulations. Government will not provide any safety equipment.

4.3.1 Contractor Safety Officer. The contractor shall select and identify to the COR a Safety Officer for the contractor's team who shall perform this function on a part time basis in addition to the duties specified in their primary labor category. This individual will coordinate with the Naval Air Weapons Station (NAWS) Safety Department and WSL Government Safety Representative on safety related activities.

4.3.2 Expendable Safety Materials. Expendable safety materials such as gas mask filters, disposable ear plugs, disposable eye protection, etc., shall be charged to the individual task orders. Purchase of expendable safety materials requires prior COR approval.

4.3.3 Safety Gear. Contractor shall provide safety gear required by Federal, State and Local agencies and those documents listed in Applicable Documents, section 2.0 of this contract SOW, to ensure employees are able to perform tasking required in individual task orders safely.

4.3.4 Personal Safety Gear. Costs for personal safety gear such as prescription safety eye wear, uniforms, coveralls and safety shoes are the responsibility of the contractor and shall not be charged to individual task orders.

4.4 Security. The contractor shall acquire personnel security clearances up to and including SECRET level for handling of documentation and hardware. Government will provide secure storage facilities for classified Government hardware and documents.

4.5 Contractor Transportation

4.5.1 Contractor Vehicles. The government anticipates that the contractor will require a minimum of six compact-class 1/2-ton pickup trucks and one full-size pickup truck equipped with a rear bumper for towing to efficiently perform required tasking. 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 out of six will be out of service at any one time.

4.5.2 Contractor Vehicle Maintenance/Servicing. Maintenance and servicing of contractor vehicles shall be the contractor's responsibility. No Government equipment/materials/labor will be provided. Licensing requirements in NAVFAC P-300 (paragraph 2.0e of this SOW) apply.

4.6 Contract Special Handling Equipment

4.6.1 Contract Forklift. The contractor shall provide one 6,000 lb. capacity high-flotation-tire-equipped forklift.

4.6.1.1 Contract Special Handling Equipment Maintenance/Servicing. Maintenance and servicing procedures identified in section 4.5.2 of this contract SOW apply.

4.7 Contractor Vehicle Fuels/Lubricants. Fuels for contractor vehicles and contract special handling equipment, sections 4.5 and 4.6 of this contract SOW, used in the official use and performance of this contract SOW, will be provided by the Government. The contractor shall provide all lubricants 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 and telephone systems for up to 8 contractor personnel positions.)	
31151	Assembly/Fabrication facility
31192	Machine shop
31196	Storage building
31197	Jet engine/Fabrication shop
31150	Assembly building
31167	Test Control Building
31162	Test Control Building
31211	Fuel Farm Pump House

5.1.1 The contractor is not authorized to purchase any additional technical equipment or office equipment that would be directly charged to the contract other than that listed in individual task orders without prior review of the WSL COR and approval of the Contracting Officer.

5.2 Equipment - General Information.

5.2.1 Fabrication Equipment. Fully equipped shops consisting of equipment such as saws, mills, shears, break, lathes, drill presses, gas, and arc welding equipment, heat treat oven, hydraulic press, and grinders. is 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 equipmpment 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
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. Computer hardware and software will be provided 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 and will be provided, maintained, serviced, and fueled by the Government:

a. One (1) Five-ton Stake Truck
b. Three (3) 1/2-ton Pickups
c. One (1) One-ton Pickup
d. 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. Fuels and lubricants will be provided by the Government. Contractor personnel shall obtain necessary training and licenses necessary to meet NAWS and WSL requirements as specified 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

5.5 Government Furnished Materials. Normally all materials required to support task orders, other than contractor's general office supplies, will be provided by the government as specified in specific task orders. The

contractor is not authorized to purchase any additional materials without prior review of the WSL COR and approval of the Contracting Officer.

C-TXT-05 CONTRACT DATA REQUIREMENTS LIST (MAR 1996)

Item 0002 shall be in accordance with the attached Contract Data Requirements List, CDRL, DD Form 1423, dated March 23, 1999, Exhibit "A" of this contract.

C-TXT-06 CONTRACT DATA REQUIREMENTS LIST (OPTION) (MAR 1996)

Item 0004 and 0006, if the option is exercised, shall be in accordance with the attached Contract Data Requirements List, CDRL, DD Form 1423, dated March 23, 1999, Exhibit "A" of this contract.

SECTION D Packaging and Marking

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D-TXT-04 CLASSIFIED MATTER

Classified matter, if applicable, will be packed and shipped in accordance with transmission instructions contained in the Industrial Security Manual for Safeguarding Classified Information and the DD Form 254 attached to this contract.

SECTION E Inspection and Acceptance

CLAUSES INCORPORATED BY REFERENCE:

52.246-6	Inspection--Time-And-Material And Labor-Hour	JAN 1986

CLAUSES INCORPORATED BY FULL TEXT

252.246-7001 WARRANTY OF DATA (DEC 1991)

(a) Definition. "Technical data" has the same meaning as given in the clause in this contract entitled, Rights in Technical Data and Computer Software.

(b) Warranty. Notwithstanding inspection and acceptance by the Government of technical data furnished under this contract, and not- withstanding any provision of this contract concerning the conclusiveness of acceptance, the Contractor warrants that all technical data delivered under this contract will at the time of delivery conform with the specifications and all other requirements of this contract. The warranty period shall extend for three years after completion of the delivery of the line item of data (as identified in DD Form 1423, Contract Data Requirements List) of which the data forms a part; or any longer period specified in the contract.

(c) Contractor Notification. The Contractor agrees to notify the Contracting Officer in writing immediately of any breach of the above warranty which the Contractor discovers within the warranty period.

(d) Remedies. The following remedies shall apply to all breaches of the warranty, whether the Contractor notifies the Contracting Officer in accordance with paragraph (c) of this clause or if the Government notifies the Contractor of the breach in writing within the warranty period:

(1) Within a reasonable time after such notification, the Contracting Officer may--

(i) By written notice, direct the Contractor to correct or replace at the Contractor's expense the nonconforming technical data promptly; or

(ii) If the Contracting Officer determines that the Government no longer has a requirement for correction or replacement of the data, or that the data can be more reasonably corrected by the Government, inform the Contractor by written notice that the Government elects a price or fee adjustment instead of correction or replacement.

(2) If the Contractor refuses or fails to comply with a direction under paragraph (d)(1)(i) of this clause, the Contracting Officer may - within a reasonable time of the refusal or failure--

(i) By contract or otherwise, correct or replace the nonconforming technical data and charge the cost to the Contractor; or

(ii) Elect a price or fee adjustment instead of correction or replacement.

(3) The remedies in this clause represent the only way to enforce the Government's rights under this clause.

(e) The provisions of this clause apply anew to that portion of any corrected or replaced technical data furnished to the Government under paragraph (d)(1)(i) of this clause.

E-TXT-04 INSPECTION AND ACCEPTANCE (DESTINATION)

Inspection and acceptance of the supplies or services to be furnished hereunder shall be made at destination by the receiving activity.

SECTION F Deliveries or Performance

CLAUSES INCORPORATED BY FULL TEXT

F-NSTD-03 CONTRACTOR PERFORMANCE UNDER DELIVERY ORDER (JAN 1992) (NAVSUP)

The contractor shall perform as set forth in delivery orders issued by the Government. Notwithstanding the identification of particular labor categories and the associated manhours for each labor category in the delivery order(s), the contractor may increase or decrease the manhours for designated labor categories as deemed necessary in order to satisfactorily perform the delivery order. In no event, however, shall the contractor exceed the total amount of funds in the order, unless such amount is subsequently increased by modification.

F-TXT-08 PLACE OF DELIVERY/FOB DESTINATION

The articles to be furnished hereunder shall be delivered all transportation charges paid by the supplier to destination. The receiving office is open for deliveries Monday through Friday from 7:30 a.m. to 4:00 p.m.

Ship to: Receiving Officer, Code 822223D
Naval Air Warfare Center
Weapons Division
China Lake, CA 93555-6100
Mark for: Contract N68936-99-D-0133
Attn: Code 418300D

F-TXT-02 CONTRACT PERIOD OF PERFORMANCE (CONTRACT AWARD)

Any contract awarded as a result of offers submitted under this solicitation shall extend for **three (3) years** beginning on the effective date of the contract which is October 1, 1999 and ending September 30, 2002.

F-TXT-04 OPTION PERIOD OF PERFORMANCE

(1) The period of performance for CLIN(s) 0003 is one (1) year beginning October 1, 2002 and ending September 30, 2003. (2) The period of performance for CLIN(s) 0005 is one (1) year beginning October 1, 2003_ and ending September 30, 2004. The above period of performance shall apply only if the Government exercises the option as stated in Section B in accordance with the clause H-TXT-07 "EXERCISE OF OPTION."

252.247-7023 TRANSPORTATION OF SUPPLIES BY SEA (NOV 1995)

(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. However, effective May 1, 1996, the term does not include a supplier, materialman, distributor, or vendor of commercial items or commercial components.

(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) The Contractor shall employ U.S.-flag vessels in the transportation by sea of any supplies to be furnished in the performance of this contract. 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.

(c) 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.

(d) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, 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 the steamship company.

(e) The Contractor agrees to 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 DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY
TOTAL		

(f) 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.

(g) The Contractor shall include this clause, including this paragraph (g) in all subcontracts under this contract, which exceed the small purchase limitation of section 13.000 of the Federal Acquisition Regulation.

SECTION G Contract Administration Data

CLAUSES INCORPORATED BY FULL TEXT

G-NSTD-01 PROGRESS AND STATUS REPORT, LEVEL OF EFFORT CONTRACTS (JAN 1992) (NAVSUP)

(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 voucher is submitted and shall include the following information, when applicable:

(1) Identification Elements

a. Title ("Level of Effort, Progress and Status Report")
b. Contract, Invoice and Control Numbers
c. Contractor's Name and Address
d. Date of Report
e. Reporting (invoicing) Period
f. Name of Individual Preparing Report

(2) Description Elements

a. Description of progress made during the reporting period, including problem areas encountered, and recommendations.
b. Results obtained relating to previously identified problem areas.
c. Deliverables completed and delivered.
d. Extent of subcontracting and results achieved.
e. Extent of travel, including identification of individuals performing the travel, the labor categories of such individuals, the total number of travelers, the period of travel by labor category, and the results of such travel.
f. Labor hours expended for the period and cumulatively broken out to identify labor categories and specific individuals * utilized and the amount of labor hours expended by each.
g. Labor hours, by labor category and cumulatively, anticipated to be required for completion of the contract.
h. Materials and other direct cost items expended in performance of the contract during the reporting period.
i. Problem areas and recommendations involving impact on technical, cost and scheduling requirements.

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

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

(d) Requiring activities will insure this report and copies of the invoice are retained.

*If, for reasons of company proprietary interest, it is desired to withhold names of individuals from the report, a unique identifier (such as payroll number) will be accepted; provided, however, that no more than one such identified is utilized by any individual under this or any other contract effort, and that the names of the individuals so identified will be available to the Contracting Officer upon request.

G-TXT-13 COURTESY COPY OF INVOICE/VOUCHER

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

COMMANDER
CODE 761100D
NAWCWD

1 ADMINISTRATION CIRCLE
CHINA LAKE CA 93555-6100

COMMANDER
CODE 418300D,
NAWCWD
1 ADMINISTRATION CIRCLE
CHINA LAKE CA 93555-6100

G-TXT-08 CONTRACT AUDIT OFFICE

Contract Audit will be performed by the Defense Contract Audit Agency, Mid-Atlantic Region Alexandria Branch 8725 John J. Kingman Road, Suite 2135, Fort Belvoir, VA 22060-6228.

G-TXT-07 PAYMENT ADDRESS

Payment under this contract shall be sent to the following address:

Materials, Communications, and Computers (MATCOM)
1500 North Beauregard Street, Suite 300
Alexandria, VA 22311

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 Code 761100D at the following address: NAWCWD, 1 Administration Circle, China Lake, CA 93555-6100 unless task 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 Code 418300D, NAWCWD, 1 Administration Circle, China Lake, CA 93555-6100. Following verification, the contract auditor * 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 14 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",
** is required with each invoice submittal.
** is required only with the final invoice.
X 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.

SECTION H Special Contract Requirements

CLAUSES INCORPORATED BY REFERENCE:

252.242-7000 Postaward Conference DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

H-NSTD-09 WORK WEEK

(a) All or a portion of the effort under this contract shall be performed on a Government installation where the normal work week shall be Monday through Friday for all straight time worked. Alternate Fridays are not part of the normal work week for all work performed on-site at Naval Air Warfare Center Weapons Division. The majority of the Government offices at the above location will be closed on alternate Fridays. No deviation in the normal work week will be permitted without express advance approval in writing by the designated Ordering Officer with coordination of the using departments. Work on-site shall be performed during the normal work hours at that location unless differing hours are specified on the individual Delivery Orders.

(b) For purposes of scheduling personnel, the contractor is hereby advised that the Government Installation will observe the following holidays. The contractor is further advised that access to the Government installation may be restricted on these holidays.

NAME OF HOLIDAY	TIME OF OBSERVANCE
New Year's Day	1 January
Martin Luther King Jr's Day	Third Monday in January
Presidents Day	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	4 July
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Veteran's Day	11 November
Thanksgiving Day	Fourth Thursday in November
Christmas Day	25 December

(c) In the event any of the above holidays occur on a Saturday, Sunday, or alternate Friday, then such holiday shall be observed by the contractor in accordance with the practice as observed by the assigned Government employees at the using activity.

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

H-TXT-02 DESIGNATION OF CONTRACTING OFFICER'S REPRESENTATIVE

(a) The Contracting Officer has designated:

NAME: Jay Kovar
CODE: 418300D
ADDRESS: 1 Administration Circle, China Lake, CA 93555-6100
PHONE NO: (760) 939-6173

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

(b) 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 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 will 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.

5252.210-9501 AVAILABILITY OF UNIQUE DATA ITEM DESCRIPTIONS (UDID'S) AND DATA ITEM DESCRIPTIONS (DID'S)

(a) Ordering 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 stocked at the Navy Publishing and Printing Service Office (NPPSO), Philadelphia, Pennsylvania. Requests for individual DIDs and UDIDs or the AMSDL will be honored from private industry and from individuals. Requests may be made using the automated telephone request service known as TeleSpecs by dialing (215)697-1187, 8:00 a.m. to 8:00 p.m. (EST), Monday through Friday. If a customer number has not been previously assigned, requester must call the Special Assistance Desk at (215)697-2667/2179 before using the TeleSpec service. Requests may also be made by mail or FAX in any form, although it is preferred that the DoD Specification and Standards Requisition, DD Form 1425, be used. Customers will be automatically provided with sufficient blank requisitions for future orders, once an order has been placed. In addition, the DD Form 1425 may be obtained through supply channels of the cognizant military activity. All requests should include the following information:

(1) Customer number or Commercial And Government Entity (CAGE) number

(2) Complete mailing address

(3) Each desired AMSDL, DID or UDID listed by document identifier (e.g., AMSDL should be listed as DoD 5010.12-L)

(4) The quantity of documents desired (The maximum quantity issued per item is five (5))

Mail orders to: DODSSP, Standardization Document Order Desk, 700 Robbins Avenue, Bldg. 4D, Philadelphia, PA 19111-5094

Fax orders to: (215) 697-2978

(b) Ordering Complete Sets of DIDs. Complete sets of DIDs or UDIDs are available only four (4) times per year. The cost per set is $400.00. Cut-off dates for orders are 1 July, 1 October, 1 January and 1 April.

(c) Subscriptions. A subscription service is available to private industry for a cost of $16.00 per year. Upon payment of the subscription fee, the subscriber will receive one copy of any new or revised unrestricted and unclassified DID or UDID for a one year period after the effective subscription date. The AMSDL is included with this subscription. Requests for subscriptions must be accompanied by a check or money order in the above amount payable to the Treasurer of the United States. Requests may be mailed to DODSSP, Subscription Service Desk, 700 Robbins Avenue, Bldg, 4D, Philadelphia, PA 19111-5094.

(d) Availability of Canceled DIDs. NPPSO supplies only the current version of DIDs. Superseded or canceled documents must be requested through the procurement or contracting officer of the military activity citing the need for the document.

5252.237-9502 COMPENSATION - TIME AND MATERIALS (DELIVERY ORDERS) (SERVICES) (MAR 1992) (NAVAIR)

(a) Subject to the FAR 52.232-7, "Payments" clause of this contract, the Government will pay the Contractor for the performance of delivery orders issued under this contract the amounts determined to be payable in accordance with the hourly rates set forth in Section B and the amounts determined to be payable in accordance with paragraphs (b)

and (c) of this clause. The hourly rates set forth cover all expenses, including wages, overhead, general and administrative expense, profit, subsistence, prorated vacation leave, sick leave, and applicable insurance of all kinds, excluding any and all travel costs which are reimbursable in accordance with paragraph (c) below. If overtime rates are specified in Section B, the Contractor will be paid for overtime work in accordance with such overtime rates only to the extent the overtime is approved in advance by the Contracting Officer, Naval Air Systems Command, AIR-21627/21628 (Procuring Contracting Officer (PCO)). If no rate is set forth in Section B and overtime work is approved in advance by the PCO, the Contractor and the PCO will negotiate rates for such overtime in accordance with paragraph (a)(3) of the "Payments" clause of the contract. The amounts payable to the Contractor shall be computed by multiplying the appropriate hourly rates set forth by the number of direct labor hours performed in accordance with paragraph (a)(1) of the "Payments" clause of this contract. Payment for the performance of delivery orders shall be made in accordance with the rates specified in Section B with adjustments as appropriate under paragraph (b) for employees performing Uncompensated Overtime as defined in DFARS 252.237-7019.

(b) For individuals performing under an uncompensated overtime system, the amount billed is limited to the uncompensated overtime rate as defined in DFARS 252.237-7019. All hours shall be burdened and shall be in the base for allocation of overhead and general and administration expenses.

(c) Travel Costs. The Contractor shall be reimbursed for travel costs in accordance with FAR 31.205-46 as limited by the Joint Travel Regulations, Volume II and the following:

(1) Where official company travel can reasonably be planned in advance so as to take advantage of available discounted standard or coach airfares, any expenses in excess of those discounted fares are to be considered as, and segregated as unallowable costs; and

(2) Travel made for personnel convenience, including daily travel to and from work, shall not be reimbursed hereunder.

(d) Material Costs and Other Direct Costs. The Contractor shall be reimbursed for other direct costs (ODC) including material costs in accordance with Section B and paragraph (b) of the "Payments" clause of this contract. Other direct costs including material costs to be reimbursed under this contract shall be included in each order.

(e) Maximum Ordering. The Government shall not be obligated to pay the Contractor any amount in excess of the maximum delivery order price set forth in any delivery order issued under this contract. The Contractor shall not be obligated to continue performance or to incur costs under any delivery order if to do so would exceed the maximum delivery order price set forth in the delivery order unless the Contractor has been notified in writing by the Procuring Contracting Officer (PCO) that the maximum delivery order price for the delivery order concerned has been increased in accordance with paragraph (d) of the "Payments" clause of this contract. Pursuant to paragraph (c) of the "Payments" clause, the Contractor shall notify the PCO in writing if the Contractor has reason to believe the hourly rate payments, travel costs and materials costs which will accrue in the performance of the delivery order concerned will exceed the maximum delivery order price set forth in the delivery order, or when added to all other payments and cost previously accrued, will exceed the maximum ordering price set forth in the contract. If for any other reason the Contractor believes that the maximum delivery order price set forth in any delivery order should be increased, the Contractor shall promptly so notify the PCO in writing. The maximum ordering price of any delivery order may be increased by the PCO, in his/her discretion, at any time during the period covered by this contract. If the Contractor has reason to believe that the total cost to the Government for the work called for in any delivery order will be substantially less than the maximum order price specified therein, the Contractor shall promptly so notify the PCO in writing. The PCO may, based upon such notification, decrease the ceiling price of the delivery order concerned. Any increase or decrease in the maximum order price of any delivery order shall be set forth in a modification to the delivery order.

(f) The term "ceiling price" wherever set forth in the "Payments" clause will be read as "maximum" and, when used to refer to Contract Ceiling Price shall be read as Contract Maximum Ordering Price/Amount. When used in conjunction with delivery order, "ceiling" shall be construed "maximum" delivery order amount or the "maximum" amount per cost category such as travel, labor, and other direct costs as appropriate.

5252.243-9504 AUTHORIZED CHANGES ONLY BY THE CONTRACTING OFFICER (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:

NAME	Diane E. Foucher, Contracting Officer
ADDRESS	NAWCWD, Code 210000D, 1 Administration Circle, China Lake, CA 93555-6100
TELEPHONE	(760) 939-8160

H-NSTD-06 DELIVERY ORDERS (LABOR HOUR AND TIME AND MATERIAL)

(a) Introduction.

(1) Written Delivery Orders will be issued to the Contractor by the cognizant Ordering Officer for all work to be performed under this contract.

(2) The Government shall not be obligated to reimburse the Contractor for work performed, items delivered, or any costs incurred, nor shall the Contractor be obligated to perform, deliver, or otherwise incur costs except as authorized by duly executed Delivery Orders.

(3) The total amount of all Delivery Orders issued shall not exceed the estimated cost and fee or level of effort set forth in this contract.

(b) Ordering Procedures

(1) Delivery Orders with an estimated value of $25,000 or more shall be placed in accordance with the following procedures:

(i) The Ordering Officer shall furnish the Contractor with a written Preliminary Delivery Order and Request for Proposal. The Request shall include:

(A) a description of the specified work required,

(B) the desired delivery schedule,

(C) the place and manner of inspection and acceptance, and any other pertinent information deemed necessary.

(ii) The Contractor shall, within the time specified, provide the Ordering Officer with a Proposal to perform the Delivery Order. The Proposal shall include:

(A) The required number of labor hours, by labor classification and schedule billing rates, for each end product or task,

(B) overtime hours, by labor category, if required,

(C) proposed completion or delivery dates,

(D) direct material, travel subsistence, and similar costs, if required,

(E) dollar amount and type of any proposed subcontract (for all subcontracts proposed over $10,000 to include the identity of the subcontractor, the extent of the work to be subcontracted, the reason for subcontracting, and the extent of competition in selection of the subcontractor), and total estimated price.

(iii) 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 processes are required.

(iv) Upon completion of the above process, the Ordering Officer may issue an executed Delivery order. Only upon receipt of such executed Order shall the Contractor commence the effort required thereby. Should the Ordering Officer and the 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, who shall issue such direction as is required by the circumstances.

(2) Delivery Orders with an estimated value of less than $25,000 may be placed in accordance with the following procedures:

(i) The Ordering Officer shall issue a fully funded, unilaterally executed Delivery 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 Delivery Order, he shall: notify the Ordering Officer immediately.

(A) submit a proposal for the work requested in the Delivery Order

(B) not commence performance until such time that differences between the Delivery Order and his proposal are resolved and a modification, if necessary, is issued.

(c) Content and Effect

(1) Each Delivery order shall include:

(i) date of order,

(ii) contract order number,

(iii) place of performance,

(iv) scope, including references to applicable (contract) specifications,

(v) the place and manner of inspection and acceptance,

(vi) any Government furnished property, material, or facilities to be made available for performance of the order.

(vii) any other information deemed necessary to the performance of the order,

(viii) an estimate of the number of hours of labor by labor categories with rates required to perform the order,

(ix) a ceiling price, set forth as a "not-to-exceed" amount,

(x) a delivery date or period of performance accounting and appropriation data.

(2) The contractor shall advise the Ordering Officer if any apparent difficulties of performance according to the terms of the Order are anticipated, or at any time that difficulties in performance arise. Each Delivery order shall be treated, for purposes of payment and expenditure ceilings, as independent documents. Therefore, with regard to each Order issued hereunder the Delivery Ordering ceiling established therein shall not be exceeded. Accordingly, the Contractor will not be obligated to continue performance beyond the point at which the Delivery order funds are consumed, nor will the Government be obligated to reimburse the Contractor for any costs allocable to a Delivery Order beyond those provided in the Delivery Order. Should a task not be completed due to an exhaustion of available funds, the Government may elect to modify the Order to provide the additional funding or direct delivery of all work in progress thereunder; such delivery shall be effected at no additional cost to the Government.

(d) Maintenance of Records

(1) The Contractor shall maintain the following cost records under this contract as a minimum:

(i) records for each Delivery Order, indicating the number of hours of direct labor by labor category performed, identifiable to the individual employee performing the work,

(ii) records for each individual employee identifying direct labor performed and segregated as the Delivery Order for which performed, and records of all direct non-labor costs, allocated to individual Delivery Order.

(2) Nothing herein shall be deemed to excuse the Contractor from maintaining records required by other provisions of this contract.

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SECTION I Contract Clauses

CLAUSES INCORPORATED BY REFERENCE:

52.202-1	Definitions	OCT 1995
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
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 1997
52.204-2	Security Requirements	AUG 1996
52.204-4	Printing/Copying Double-Sided On Recycled Paper	JUN 1996
52.209-6	Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment	JUL 1995
52.211-5	Material Requirements	OCT 1997
52.215-2	Audit And Records--Negotiation	AUG 1996
52.215-8	Order Of Precedence- Uniform Contract Format	OCT 1997
52.215-9	Changes Or Additions To Make-Or-Buy Program	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
52.219-8	Utilization Of Small, Small Disadvantaged and Women-Owned Small Business Concerns	JAN 1999
52.222-3	Convict Labor	AUG 1996
52.222-20	Walsh-Healy Public Contracts Act	DEC 1996
52.222-26 Dev	Equal Opportunity (Deviation)	APR 1984
52.222-35	Affirmative Action For Disabled Veterans And Veterans Of The Vietnam Era	APR 1998
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Disabled Veterans And Veterans Of The Vietnam Era	APR 1998
52.222-41	Service Contract Act Of 1965, As Amended	MAY 1989
52.222-44	Fair Labor Standards And Service Contract Act - Price Adjustment	MAY 1989
52.223-2	Clean Air And Water	APR 1984
52.223-5	Pollution Prevention and Right-to-Know Information	APR 1998
52.223-6	Drug Free Workplace	JAN 1997
52.225-11	Restrictions On Certain Foreign Purchases	AUG 1998
52.229-3	Federal, State And Local Taxes	JAN 1991
52.229-5	Taxes--Contracts Performed In U S Possessions Or Puerto Rico	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-7	Payments Under Time-And-Materials And Labor Hour Contracts	FEB 1997
52.232-8	Discounts For Prompt Payment	MAY 1997

52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-17	Interest	JUN 1996
52.232-23	Assignment Of Claims	JAN 1986
52.232-25	Prompt Payment	JUN 1997
52.233-1	Disputes	DEC 1998
52.233-3	Protest After Award	AUG 1996
52.242-13	Bankruptcy	JUL 1995
52.243-3	Changes--Time-And-Material Or Labor-Hours	AUG 1987
52.244-2	Subcontracts	AUG 1998
52.246-25	Limitation Of Liability--Services	FEB 1997
52.249-2	Termination For Convenience Of The Government (Fixed Price)	SEP 1996
52.253-1	Computer Generated Forms	JAN 1991
252.203-7001	Special Prohibition On Employment	JUN 1997
252.204-7003	Control Of Government Personnel Product	APR 1992
252.209-7004	Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country	MAR 1998
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
252.225-7009	Duty-Free Entry--Qualifying Country End Products And Supplies	MAR 1998
252.225-7012	Preference For Certain Domestic Commodities	SEP 1997
252.225-7026	Reporting Of Contract Performance Outside The United States	MAR 1998
252.225-7031	Secondary Arab Boycott Of Israel	JUN 1992
252.231-7000	Supplemental Cost Principles	DEC 1991
252.232-7009	Payment By Electronic Funds Transfer (CCR)	JUN 1998
252.243-7001	Pricing Of Contract Modifications	DEC 1991

CLAUSES INCORPORATED BY FULL TEXT

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).

52.216-18 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 date of award through 3 years after award date.

(b) 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.

52.216-21 REQUIREMENTS (OCT 1995)

(a) This is a requirements contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies or services specified in the Schedule are estimates only and are not purchased by this contract. Except as this contract may otherwise provide, if the Government's requirements do not result in orders in the quantities described as "estimated" or "maximum" in the Schedule, that fact shall not constitute the basis for an equitable price adjustment.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. Subject to any limitations in the Order Limitations clause or elsewhere in this contract, the Contractor shall furnish to the Government all supplies or services specified in the Schedule and called for by orders issued in accordance with the Ordering clause. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(c) Except as this contract otherwise provides, the Government shall order from the Contractor all the supplies or services specified in the Schedule that are required to be purchased by the Government activity or activities specified in the Schedule.

(d) The Government is not required to purchase from the Contractor requirements in excess of any limit on total orders under this contract.

(e) If the Government urgently requires delivery of any quantity of an item before the earliest date that delivery may be specified under this contract, and if the Contractor will not accept an order providing for the accelerated delivery, the Government may acquire the urgently required goods or services from another source.

(f) 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 90 days after the ordering period.

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 and fringe benefits 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	Fringe Benefits
CHIEF ENGINEER/MANAGER	$35.46	$15.96
ELECTRONICS/INSTRUMENTATION ENGINEER	$35.46	$15.96
ENGINEERING TECHNICIAN V	$27.96	$12.58
MECHANICAL TECHNICIAN IV	$25.64	$11.54
MECHANICAL TECHNICIAN III	$20.91	$9.41
AIRCRAFT TECHNICIAN IV	$25.64	$11.54
AIRCRAFT TECHNICIAN III	$20.91	$9.41
AIRCRAFT TECHNICIAN II	$15.28	$6.88
GENERAL FABRICATION TECHNICIAN IV	$25.64	$11.54
GENERAL FABRICATION TECHNICIAN III	$20.91	$9.41
GENERAL FABRICATION TECHNICIAN II	$15.28	$6.88
INSTRUMENTATION TECHNICIAN IV	$25.64	$11.54
MAINTENANCE TRADES HELPER	$14.01	$6.30
LOGISTICS TECHNICIAN	$13.54	$6.09
INVENTORY SPECIALIST	$12.98	$5.84
WAREHOUSE SPECIALIST	$13.07	$5.88
LABORER	$10.55	$4.75

52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (OCT 1998)

(a) Definitions.

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

"Subcontract," as used in this clause, 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) Notwithstanding any other clause of this contract, the Contractor is not required to include any FAR provision or clause, other than those listed below to the extent they are applicable and as may be required to establish the reasonableness of prices under Part 15, in a subcontract at any tier for commercial items or commercial components:

(1) 52.222-26, Equal Opportunity (E.O.11246);

(2) 52.222-35, Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (38 U.S.C.4212(a));

(3) 52.222-36, Affirmative Action for Workers with Disabilities (29 U.S.C.793); and

(4) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels (46 U.S.C.1241) (flow down not required for subcontracts awarded beginning May 1,1996).

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

52.247-1 COMMERCIAL BILL OF LADING NOTATIONS (APR 1984)

If the Contracting Officer authorizes supplies to be shipped on a commercial bill of lading and the Contractor will be reimbursed these transportation costs as direct allowable costs, the Contractor shall ensure before shipment is made that the commercial shipping documents are annotated with either of the following notations, as appropriate:
(a) If the Government is shown as the consignor or the consignee, the annotation shall be:
"Transportation is for the NAWCWD and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the Government."
(b) If the Government is not shown as the consignor or the consignee, the annotation shall be:
"Transportation is for the NAWCWD and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by the Government, pursuant to cost-reimbursement contract no. N68936-99-D-0133. This may be confirmed by contacting the DCMC Baltimore Office (410) 962-9800.

52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

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 may 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

CLAUSES INCORPORATED BY FULL TEXT

J-TXT-01 SECTION J - LIST OF ATTACHMENTS

ATTACHMENTS

	TITLE	DATE	NO. OF PAGES
Exhibit A	Contract Data Requirements List (CDRL), DD Form 1423-2	March 23, 1999	27
Attachment (1)	DD Form 254	September 20, 1999	4
Attachment (2)	WSL Preventative Maintenance Plan	February 12, 1999	31
Attachment (3)	Wage Determination 94-2053	September 15, 1998	8
Attachment (4)	NAVFAC P-300 "Management of Transportation Equipment."	September, 1992	3
Attachment (5)	Requirements for Information Other Than Cost or Pricing Data	N/A	2

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

Public reporting Burden for this collection of information is estimated to average 220 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 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. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Named in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY
	A	TDP ____ TM ____ OTHER MISC/MGMT

D. SYSTEM /ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
WSL Contractor Support	N60530-9049-YFBG	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A001	TECHNICAL REPORT-STUDY/SERVICES	Maintenance Plan Update

17. Price Group

18. Estimated Total Price

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80508 (See Blk 16)	SOW paragraph 3.1.6	NAWCWPNSDIV CODE 418300D

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	See Blk 16	ONE/R	90 DAC
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		0	See Blk 16

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
NAWC 418300D	0	1	0
NAWC 210000D		LTR	ONLY
15. TOTAL	0	1	0

16. REMARKS

Blk 4: Tailor DID as follows: Contractor format is acceptable provided that the DID is used as a guideline.

Blk 9: Use: "**Distribution Statement A**: Approved for public release; distribution is unilimited."

Blk 13: Subsequent updates will be submitted as required.

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A002	CONTRACTOR'S PROGRESS, STATUS AND MANAGEMENT REPORT	Weekly Progress Report

17. Price Group

18. Estimated Total Price

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-80227 (See Blk 16)	SOW paragraph 3.1.7	NAWCWPNSDIV CODE 418300D

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	N/A	WEKLY	NLT 7 DAC
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		0	EOW + 2 days

14. DISTRIBUTION

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	Draft	Final	
		Reg	Repro
NAWC 418300D	0	1	0
NAWC 210000D	0	1	0
15. TOTAL	0	2	0

16. REMARKS

Blk 4: Tailor DID as follows: Contractor format is acceptable provided that the DID is used as a guideline.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
NAVAL AIR WARFARE CENTER, WEAPONS DIVISION CHINA LAKE, CA 93555-6100	3/22/99	K. Teasdale, Vice Chair, DRRB	3/23/99

EXHIBIT (A)

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

Public reporting Burden for this collection of information is estimated to average 220 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 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. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Named in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY			
	A	TDP	TM	OTHER	MISC/MGMT

D. SYSTEM /ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
WSL Contractor Support	N60530-9049-YFBG	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A003	TECHNICAL REPORT-STUDY/SERVICES	Tool Listing

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80508 (See Blk 16)	SOW paragraph 3.4	NAWCWPNSDIV CODE 418300D

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	See Blk 16	ONE/R	NLT 90 DAC
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		0	See Blk 16

17. Price Group

18. Estimated Total Price

16. REMARKS

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Blk 9: Use: "**Distribution Statement A**: Approved for public release; distribution is unilimited."

Blk 13: Subsequent updates will be submitted as required.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
NAWC 418300D	0	1	0
NAWC 210000D		LTR	ONLY
15. TOTAL	0	1	0

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A004	COST PERFORMANCE REPORT (CPR)	

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MGMT-81466 (See Blk 16)	SOW paragraph 3.1.7	NAWCWPNSDIV CODE 418300D

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	See Blk 16	WEKLY	NLT 7 DAC
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		N/A	EOW + 2 days

17. Price Group

18. Estimated Total Price

16. REMARKS

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Blk 9: Use: "**Distribution Statement B**: Distribution authorized to U.S. Government agencies only; Specific Authority, 5 May 1998. Other requests for this document shall be referred to the Naval Air Warfare Center (Code 451100D), China Lake, CA 93555-6100."

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
NAWC 418300D	0	1	0
NAWC 210000D		LTR	ONLY
15. TOTAL	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
NAVAL AIR WARFARE CENTER, WEAPONS DIVISION CHINA LAKE, CA 93555-6100	3/22/99	Kathryn D. Teasdale K. Teasdale, Vice Chair, DRRB	3/23/99

CONTRACT DATA REQUIREMENTS LIST
(2 Data Items)

Form Approved
OMB No. 0704-0188

Public reporting Burden for this collection of information is estimated to average 220 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 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. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Named in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY			
	A	TDP	TM	OTHER	MISC

D. SYSTEM /ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
WSL Contractor Support	N60530-9049-YFBG	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
A005	TECHNICAL REPORT-STUDY/SERVICES	Material Charges Report

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
DI-MISC-80508 (See Blk 16)	SOW paragraph 4.2.2	NAWCWPNSDIV CODE 418300D

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	See Blk 16	MTHLY	NLT 45 DAC
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**
N/A		0	EOM + 5 days

16. REMARKS

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14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
NAWC 418300D	0	1	0
NAWC 210000D		LTR	ONLY
15. TOTAL	0	1	0

17. Price Group

18. Estimated Total Price

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
		NAWCWPNSDIV CODE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBMISSION**

16. REMARKS

INTENTIONALLY LEFT BLANK

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
15. TOTAL			

17. Price Group

18. Estimated Total Price

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
NAVAL AIR WARFARE CENTER, WEAPONS DIVISION CHINA LAKE, CA 93555-6100	3/22/99	K. Teasdale, Vice Chair, DRRB	3/23/99

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188
Exp. Date: Jun 30, 1986

1. TITLE	2. IDENTIFICATION NUMBER
Contractor's Progress, Status and Management Report	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)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC REQUIRED	6b. GIDEP REQUIRE
860905	N/SPAWAR		

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-239(DI-A-30024, and DI-A-30606. (cont. on page 2)

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b AMSC NUMBER
		N3947

10. PREPARATION INSTRUCTIONS

10.1 Contract - This data item is generated by the contract which contains a specific a 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") wh paper, and securely stapled. Pages shall be sequentially numbered. All attachmen 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 perio

c. Results, positive or negative, obtained related to previously-identified probl areas, with conclusions and recommendations;

d. Any significant changes to the contractor's organization or method of operatic to the project management network, or to the milestone chart;

e. Problem areas affecting technical or scheduling elements, with background and recommendations for solutions beyond the scope of the contract;

f. Problem areas affecting cost elements, with background and any recommendations 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 of reporting date;

i. Person-hours expended for the reporting period and cumulatively for the contr

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.

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

2. TITLE	1. IDENTIFICATION NUMBER
Technical Report - Study/Services	DI-MISC-80508

3. DESCRIPTION/PURPOSE

3.1 A technical report provides fully documented results of studies or analyses performed.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
880115	G/T2137	X	

7. APPLICATION/INTERRELATIONSHIP

7.1 This data item description 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 This DID supersedes DI-A-5029.

7.3 Defense Technical Information Center (DTIC), Cameron Station, Alexandria, VA 22314.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
		G4291

10. PREPARATION INSTRUCTIONS

10.1 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.

10.2 Content.

(a) Title Page - Identifies the report by providing contract number, project name or purchase description title, task number, and reporting period.

(continued on page 2)

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

Block 10. Preparation Instructions (Continued)

(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 substantiations.
(d) Section II - A complete and detailed description of the analytic results which led to the conclusions stated in Section I above.

Block 3, Description/Purpose (Continued)

3.2 CPR data will be used by DOD system managers to: (a) integrate cost and schedule performance data with technical performance measures, (b) identify the magnitude and impact of actual and potential problem areas causing significant cost and schedule variances, and (c) provide valid, timely program status information to higher management.

3.3 The CPR is a management report. It should provide timely, reliable summary-level data with which to assess current and projected contract performance. The CPR's primary value to government program management is its ability to reasonably reflect current contract status. If the CPR contains excessively detailed or outdated information, management's ability to make informed, timely decisions may be impaired. It is important that the CPR be as accurate as possible so it can be used for its intended purpose. It should be used by the DOD Component staff, including Program Managers, engineers, cost estimators and financial management personnel, to confirm, quantify and track known or emerging contract problems and as a basis for communicating with the contractor. The contractor should ensure that CPR data accurately reflect how work is being performed and is consistent with the actual contract status.

Block 7, Application/Interrelationship (Continued)

contractor's summary management procedures or as subsequently negotiated. (Refer to DFARS 252.242-7005.)

7.4 Unless otherwise provided in the contract, the CPR will be required on a monthly basis and submitted to the procuring activity no later than 25 calendar days following the reporting cutoff date. Reports may reflect data either as of the end of the calendar month or as of the contractor's accounting period cutoff date.

7.5 Data reported in the CPR will pertain to all authorized contract work, including both priced and unpriced effort. However, the Government and the contractor may agree to exclude from CPR reporting portions of the contract for which performance reporting is not needed, such as firm fixed price contract line items.

7.6 Certain aspects of the report are subject to negotiation between the Government and the contractor, such as:

7.6.1 The WBS levels to be reported on Format 1. The level of detail to be reported on Format 1 normally will be limited to level three of the Contract WBS or higher, but lower levels may be specified for high-cost or -risk items. The Government and the contractor should periodically review and adjust as necessary WBS reporting levels on Format 1 to ensure they continue to provide appropriate visibility without requiring excessive information. If there is a significant problem at a lower level, detailed reporting for that WBS element may be required until the problem is resolved.

7.6.2 The formats which are specified for regular reporting. The Government and the contractor may agree to exclude certain formats from regular reporting. Any of the five formats may be excluded, but a Format 1 or a Format 2 is required. Formats may be deleted entirely, or they may be submitted on a less frequent basis. If the contractor is organized by product, Format 2 may not be required because it should resemble Format 1. The decision to exclude a format(s) should be based on an assessment of minimum management information needs. The Government should buy only the information it plans to use. (Note: When a Format 1 is not required, the information in Blocks 5 through 7 on Format 1 will still be required. Also, if a formal reprogramming (Over Target Baseline) has been implemented and Format 1 is not required, the information in Columns (12) and (13) of Block 8

DATA ITEM DESCRIPTION

Form Approved
OMB NO. 0704-0188

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 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.

1. TITLE	2. IDENTIFICATION NUMBER
COST PERFORMANCE REPORT (CPR)	DI-MGMT-81466

3. DESCRIPTION/PURPOSE

3.1 This report consists of five formats containing cost and related data for measuring contractors' cost and schedule performance on Department of Defense (DOD) acquisition contracts. Format 1 (Sample Format 1) provides data to measure cost and schedule performance by summary level Work Breakdown Structure (WBS) elements, the hardware, software and services the Government is buying. Format 2 (Sample Format 2) provides the same data by the contractor's organization. Format 3 (Sample Format 3) provides the budget baseline plan against which performance is measured. Format 4 (Sample Format 4) provides staffing forecasts for correlation with the budget plan and cost estimates. Format 5 (Sample Format 5) is a narrative report used to explain significant cost and schedule variances and other identified contract problems and topics. (Continued on page 2)

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
951019	OUSD(A&T)API/PM		

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 requirements as delineated in the contract.

7.2 This DID may be used in conjunction with the Contract Funds Status Report DID, DI-MGMT-81468, and the Contract Work Breakdown Structure DID, DI-MGMT-81334. This DID and the Cost/Schedule Status Report DID, DI-MGMT-81467, will not be used on the same contract.

7.3 The CPR will be used to obtain cost and schedule performance information on contracts requiring compliance with the Cost/Schedule Control Systems Criteria (C/SCSC). (Refer to DFARS 252.234-7001.) It may also be used on contracts not requiring C/SCSC compliance ("CPR – No Criteria"), but on which the DOD Component requires more data than is available on a Cost/Schedule Status Report. When compliance with the C/SCSC is contractually required, the CPR data elements shall reflect the output of the contractor's C/SCSC-compliant integrated management system. When compliance with the C/SCSC is not contractually required ("CPR – No Criteria"), the CPR data elements shall be as specified in the (Continued on page 2)

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER
	Refer to page 3.	D7120

10. PREPARATION INSTRUCTIONS

10.1 Format. Contractor formats should be substituted whenever they contain all the required data elements at the specified reporting levels in a form suitable for DOD management.

10.2 Content. The Cost Performance Report shall contain the following:

10.2.1 Heading Information - Formats 1 - 5. Preparation instructions for Heading Information (Blocks 1 through 4) apply to Formats 1 through 5.

10.2.1.1 Contractor. Enter in Block 1.a the contractor's name and division, if applicable. Enter in Block 1.b the plant location and mailing address of the reporting contractor.

10.2.1.2 Contract. Enter the contract name in Block 2.a, the contract number in Block 2.b the contract type in Block 2.c and the contract share ratio, if applicable, in Block 2.d.

10.2.1.3 Program. Enter in Block 3.a the program name, number, acronym and/or type, model and series, or other designation of the prime item(s) purchased under the contract. Indica the program phase, RDT&E or Production, in Block 3.b.

10.2.1.4 Report Period. Enter the beginning date in Block 4.a and the ending date in Bloc 4.b of the period covered by the report.

10.2.1.5 Security Classification. Enter the appropriate security classification at the to nd bottom of each page. (Continued on page 3)

11. DISTRIBUTION STATEMENT

Distribution Statement A: Approved for public release; distribution is unlimited.

on Format 1 and the information in Block 9 on Format 1 will still be required.)

7.6.3 The variance analysis thresholds which, if exceeded, require problem analysis and narrative explanations in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses (see 10.2.6.3.2.4 below). Variance analysis thresholds should be reviewed periodically and adjusted as necessary to ensure they continue to provide appropriate visibility.

7.6.4 The specific time increments to be used for the baseline and staffing projections required by Formats 3 and 4. If the contract does not specify time increments, the contractor will determine the increments to be used.

7.6.5 The reporting provisions which apply to the Cost of Money line on Formats 1 and 2.

7.6.6 The reporting provisions which apply if compliance with C/SCSC is not contractually required, known as "CPR - No Criteria." Procedures used to develop CPR data will be documented in the contractor's summary management procedures and are subject to negotiations. (Refer to DFARS 252.242-7005.)

7.6.7 Organizational categories for Format 4, if different from Format 2. The Government may request that different organizational categories be used for reporting staffing in Format 4. If so, the Government and the contractor will negotiate the Format 4 categories. The Format 2 categories shall reflect the contractor's internal organization being used to perform the contract at hand.

7.7 In all cases, the CPR CDRL is subject to "tailoring." Tailoring is defined as deleting requirements from this DID. Requiring more information in the CPR CDRL than specified in this DID is prohibited by DOD regulation. All negotiated reporting provisions will be specified in the contract.

7.8 This Data Item Description supersedes DI-F-6000C.

Block 9.a, Applicable Forms (Continued)

9.a.1 DD Forms are available and will be used to submit required formats as follows:

CPR Format	DD Form Number	Sample Format No.
Work Breakdown Structure	2734/1	1
Organizational Categories	2734/2	2
Baseline	2734/3	3
Staffing	2734/4	4
Explanations and Problem Analyses	2734/5	5

9.a.2 Contractor formats should be substituted for CPR formats whenever they contain all the required data elements at the specified reporting levels in a form suitable for DOD management use. The American National Standards Institute (ANSI) X12 standards (transaction sets 839 for cost and 806 for schedule), or the United Nations Electronic Data Interchange for Administration, Commerce and Transport (EDIFACT) equivalent, will be used for Electronic Data Interchange.

Block 10, Preparation Instructions (Continued)

10.2.1.6 Dollars in _____. If reported dollar amounts have been factored down by a thousand, a million or a billion, enter the factor at the top of each page.

10.2.2 Format 1 - Work Breakdown Structure.

10.2.2.1 Contract Data.

10.2.2.1.1 Quantity. Enter in Block 5.a the number of prime items to be procured on this contract.

10.2.2.1.2 Negotiated Cost. Enter in Block 5.b the dollar value (excluding fee or profit) on which contractual agreement has been reached as of the cutoff date of the report. For an incentive contract, enter the definitized contract target cost. Amounts for changes will not be included in this item until they have been priced and incorporated in the contract through contract change order or supplemental agreement. For a cost plus fixed fee or award fee contract, enter the estimated cost negotiated. Changes to the estimated cost will consist only of amounts for changes in the contract scope of work, not for cost growth ("overrun") from the original estimated cost.

10.2.2.1.3 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.c the amount (excluding fee or profit) estimated for that work for which written authorization has been received, but for which definitized contract prices have not been incorporated in the contract through contract change order or supplemental agreement.

10.2.2.1.4 Target Profit/Fee. Enter in Block 5.d the fee or percentage of profit which will apply if the negotiated cost of the contract (see 10.2.2.1.2, above) is met.

10.2.2.1.5 Target Price. Enter in Block 5.e the target price (negotiated contract cost plus profit/fee) applicable to the definitized contract effort.

10.2.2.1.6 Estimated Price. Based on the most likely estimate of cost at completion for all authorized contract work and the appropriate profit/fee, incentive, and cost sharing provisions, enter in Block 5.f the estimated final contract price (total estimated cost to the Government). This number will be based on the most likely management estimate at completion in Block 6.c.1 and normally will change whenever the management estimate or the contract is revised.

10.2.2.1.7 Contract Ceiling. Enter in Block 5.g the contract ceiling price applicable to the definitized effort.

10.2.2.1.8 Estimated Contract Ceiling. Enter in Block 5.h the estimated ceiling price applicable to all authorized contract effort including both definitized and undefinitized effort.

10.2.2.2 Estimated Cost at Completion. These blocks will present the contractor's range of estimated costs at completion. The range of estimates is intended to allow contractor management flexibility to express possible cost outcomes. Contractors are encouraged to provide the most accurate EACs possible through program-level assessments of factors that may affect the cost, schedule or technical outcome of the contract. Where possible, such program-level assessments should include consideration of known or anticipated risk areas, and planned risk reductions or cost containment measures. EACs should be reported without regard to contract ceiling, if applicable. The methods used to develop worst case, best case and most likely management estimates at completion need not be described in the contractor's C/SCSC-compliant management control system description or CPR-No Criteria management procedures.

10.2.2.2.1 Management Estimate at Completion - Best Case. Enter in Block 6.a.1 the contractor's best case estimate at completion. The best case estimate is the one that results in the lowest cost to the Government. This estimate should be based on the outcome of the most favorable set of circumstances. If this estimate is different from the most likely estimate at

completion (Block 6.c.1), the assumptions and conditions underlying this estimate should be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

10.2.2.2.2 Management Estimate at Completion - Worst Case. Enter in Block 6.b.1 the contractor's worst case estimate at completion. The worst case estimate is the one that results in the highest cost to the Government. This estimate should be based on the outcome of the least favorable set of circumstances. If this estimate is different from the most likely estimate at completion (Block 6.c.1), the assumptions and conditions underlying this estimate should be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

10.2.2.2.3 Management Estimate at Completion - Most Likely. Enter in Block 6.c.1 the contractor's most likely estimate at completion. This estimate is the contractor's official contract EAC and, as such, takes precedence over the estimates presented in Column (15) of Formats 1 and 2 and Blocks 6.a.1 and 6.b.1. This EAC is the value that the contractor's management believes is the most likely outcome based on a knowledgeable estimate of all authorized work, known risks and probable future conditions. This value need not agree with the total of Column (15) (Block 8.e). However, any difference should be explained in Format 5 in such terms as risk, use of management reserve, or higher management knowledge of current or future contract conditions. This EAC need not agree with EACs contained in the contractor's internal data, but must be reconcilable to them. The most likely EAC also will be reconcilable to the contractor's latest statement of funds required as reported in the Contract Funds Status Report, or its equivalent, if this report is a contractual requirement.

10.2.2.2.4 Contract Budget Base. Enter in Block 6.c.2 the total of negotiated cost (Block 5.b) and estimated cost of authorized, unpriced work (5.c).

10.2.2.2.5 Variance. Enter in Block 6.c.3 the Contract Budget Base (Block 6.c.2) minus the most likely estimate at complete (Block 6.c.1). This value will be explained in Format 5 according to applicable contractual requirements.

10.2.2.3 Authorized Contractor Representative. Enter in Block 7.a the name of the authorized person signing the report. Enter that person's title in Block 7.b. The authorized person will sign in Block 7.c. Enter the date signed in Block 7.d.

10.2.2.4 Performance Data.

10.2.2.4.1 Work Breakdown Structure Element. Enter in Column (1) of Block 8.a the noun description of the WBS items for which cost information is being reported. WBS items or levels reported will be those specified in the contract. (See 7.6.1 above.)

10.2.2.4.2 Cost of Money. Enter in Columns (2) through (16) of Block 8.b the Facilities Capital Cost of Money applicable to the contract.

10.2.2.4.3 General and Administrative (G&A). Enter in Columns (2) through (16) of Block 8.c the appropriate G&A costs. If G&A has been included in the total costs reported in Block 8.a above, G&A will be shown as a nonadd entry on this line with an appropriate notation. If a G&A classification is not used, no entry will be made other than an appropriate notation to that effect.

10.2.2.4.4 Undistributed Budget. Enter the amount of budget applicable to contract effort which has not yet been identified to WBS elements at or below the reporting level. For example, contract changes which were authorized late in the reporting period should have received a total budget; however, assignment of work and allocation of budgets to individual WBS elements may not have been accomplished as of the end of the period. Budgets which can be identified to WBS elements at or below the specified reporting level will be included in the total budgets shown for the WBS elements in Block 8.a and will not be shown as undistributed budget. Enter in Column (15) of Block 8.d the estimate at completion for the scope of work represented by the undistributed budget in Column (14) of Block 8.d. Enter in Column (16) of Block 8.d the variance, if any, and fully explain it in Format 5. All undistributed budget will be fully explained in Format 5.

10.2.2.4.4.1 Use of Undistributed Budget. The provisions made in this report for undistributed budget are primarily to accommodate temporary situations where time constraints prevent adequate budget planning or where contract effort can only be defined in very general terms. Undistributed budget should not be used as a substitute for adequate contract planning. Formal budgets should be allocated to contract effort and responsible organizations at the earliest possible time, preferably within the next reporting period.

10.2.2.4.5 Subtotal (Performance Measurement Baseline). Enter the sum of the direct, indirect, Cost of Money, and G&A costs and budgets in Columns (2) through (16) of Block 8.a through e. This subtotal is also referred to as the Performance Measurement Baseline because it represents the allocated budget baseline (less management reserve) against which performance is actually measured.

10.2.2.4.6 Management Reserve. Management reserve is an amount of the overall contract budget withheld for management control purposes rather than for the accomplishment of a specific task or set of tasks. It is not a contingency fund, and may not be eliminated from contract prices by the Government during subsequent negotiations nor used to absorb the cost of contract changes. In Column (14) of Block 8.f enter the total amount of budget identified as management reserve as of the end of the current reporting period. The amounts shown as management reserve in Formats 1, 2 and 3 will agree. Amounts of management reserve applied to WBS elements during the reporting period will be listed in Block 6.b of Format 3 and explained in Format 5.

10.2.2.4.6.1 Negative Management Reserve. Negative entries will not be made in Management Reserve (Column (14) of Block 8.f). There is no such thing as "negative management reserve." If the contract is budgeted in excess of the Contract Budget Base (the negotiated contract cost plus the estimated cost for authorized, unpriced work), the provisions applicable to formal reprogramming and the instructions in paragraphs 10.2.2.5.1, 10.2.2.6.6, 10.2.2.6.7 and 10.2.4.1.7 apply.

10.2.2.4.7 Total. Enter the sum of all direct, indirect, Cost of Money, G&A cost, undistributed budgets and management reserves, if applicable, in Columns (2) through (14) of Block 8.g. The Total lines of Format 1 (Block 8.g) and Format 2 (Block 5.g) will agree. The total of Column (14), Block 8.g, will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.2.5 Reconciliation to Contract Budget Base.

10.2.2.5.1 Formal Reprogramming. In exceptional cases, the procuring agency may authorize the contractor to establish performance measurement budgets that in total exceed the Contract Budget Base. This process is called formal reprogramming. The contractor and the Government will agree on how the results of a formal reprogramming will be reported in the Cost Performance Report before the formal reprogramming is initiated. This agreement and any other pertinent details on the reporting of the formal reprogramming will be

included in Format 5. Blocks 9.a and 9.b provide the contractor the opportunity to reconcile the higher performance measurement budgets, also called an "Over Target Baseline," to the Contract Budget Base. (See 10.2.2.6.6, 10.2.2.6.7, 10.2.4.1.7, and 10.2.6.5 below for more information on reporting Over Target Baselines.)

10.2.2.5.2 Variance Adjustment. In reporting the results of a formal reprogramming (Over Target Baseline) the contractor may 1) apply the additional budget to completed work, thereby eliminating some or all of the existing cost or schedule variances, 2) apply the additional budget to remaining work, 3) apply some of the additional budget to completed work and some to remaining work, or 4) apply some of the additional budget to management reserve. If the contractor uses a portion of the additional budget to eliminate variances applicable to completed work, the total adjustments made to the cost and schedule variances will be shown in Columns (10) and (11) of Block 9.a. The total cost variance adjustment entered in Column (11) of Block 9.a will be the sum of the individual cost variance adjustments shown in Column (12) of Blocks 8.a through g.

10.2.2.5.3 Total Contract Variance. In Columns (10) and (11) of Block 9.b, enter the sum of the cost and schedule variances shown on the Total line (Block 8.g) and on the Variance Adjustment line (Block 9.a). In Column (14) enter the Contract Budget Base from Block 6.c.2. In Column (15) enter the management estimate at completion from Block 6.c.1. In Column (16) of Block 9.b enter the difference between Columns (14) and (15) of Block 9.b.

10.2.2.6 Columns (2) Through (16). When compliance with the C/SCSC is contractually required, the data in Columns (2) through (16) shall reflect the output of the contractor's C/SCSC-compliant integrated management system (refer to DFARS 252.234-7001). When compliance with the C/SCSC is not contractually required ("CPR - No Criteria"), the data in these columns shall be derived using the contractor's summary management procedures (refer to DFARS 252.242-7005).

10.2.2.6.1 Column (2) and Column (7) - Budgeted Cost - Work Scheduled. For the time period indicated, enter the Budgeted Cost for Work Scheduled (BCWS) in these columns.

10.2.2.6.2 Column (3) and Column (8) - Budgeted Cost - Work Performed. For the time period indicated, enter the Budgeted Cost for Work Performed (BCWP) in these columns.

10.2.2.6.3 Column (4) and Column (9) - Actual Cost - Work Performed (ACWP). For the time period indicated, enter the Actual Cost of Work Performed without regard to ceiling. In all cases, costs and budgets will be reported on a comparable basis.

10.2.2.6.4 Column (5) and Column (10) - Variance - Schedule. For the time period indicated, these columns reflect the differences between BCWS and BCWP. For the current period, Column (5) (schedule variance) is derived by subtracting Column (2) (BCWS) from Column (3) (BCWP). For the cumulative to date, Column (10) (schedule variance) is derived by subtracting Column (7) (BCWS) from Column (8) (BCWP). A positive figure indicates a favorable variance. A negative figure (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract will be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.2.6.5 Column (6) and Column (11) - Variance - Cost. For the time period indicated, these columns reflect the difference between BCWP and ACWP. For the current period, Column (6) (cost variance) is derived by subtracting Column (4) (ACWP) from Column (3) (BCWP). For cumulative to date, Column (11) (cost variance) is derived by subtracting Column (9) (ACWP) from Column (8)

(BCWP). A positive figure indicates a favorable variance. A negative figure (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract will be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.2.6.6 Column (12) Reprogramming Adjustments - Cost Variance. Formal reprogramming (Over Target Baseline) results in budget allocations in excess of the Contract Budget Base and, in some instances, adjustments to previously reported variances. If previously reported variances are being adjusted, the adjustment applicable to each reporting line item affected will be entered in Column (12). The total of Column (12) will equal the amount shown on the Variance Adjustment line (Block 9.a) in Column (11).

10.2.2.6.7 Column (13) Reprogramming Adjustments - Budget. Enter the total amounts added to the budget for each reporting line item as the result of formal reprogramming (Over Target Baseline). The amounts shown will consist of the sum of the budgets used to adjust cost variances (Column (12)) plus the additional budget added to the WBS element for remaining work. Enter the amount of budget added to management reserve in the space provided on the management reserve line (Block 8.f). The total of Column (13) will equal the amount the Total Allocated Budget has been budgeted in excess of the Contract Budget Base as shown in Block 5.g of Format 3. An explanation of the reprogramming will be provided in Format 5.

10.2.2.6.7.1 Formal Reprogramming Reporting. Columns (12) and (13) are intended for use only in situations involving formal reprogramming (Over Target Baseline). Internal replanning actions within the Contract Budget Base do not require entries in these columns. Where contractors are submitting CPR data directly from automated systems, the addition of Columns (12) and (13) as shown may not be practical due to computer reprogramming problems or space limitations. In such cases, the information may be provided on a separate sheet and attached as Format 1a to each subsequent report. Contractors will not be required to abandon or modify existing automated reporting systems to include Columns (12) and (13) if significant costs will be associated with such change. Nor will contractors be required to prepare the report manually solely to include this information.

10.2.2.6.7.2. Formal Reprogramming Timeliness. Formal reprogramming (Over Target Baseline) can be a significant undertaking that may require more than a month to implement. To preclude a disruption of management visibility caused by a reporting hiatus, the contractor should implement the formal reprogramming expeditiously. If a reporting hiatus is needed, the contractor and the Government will agree on the date and duration of the hiatus before the formal reprogramming is initiated.

10.2.2.6.8 Column (14) - At Completion - Budgeted. Enter the budgeted cost at completion for the items listed in Column (1). This entry will consist of the sum of the original budgets plus or minus budget changes resulting from contract changes, internal replanning, and application of management reserves. The total (Block 8.g) will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.2.6.9 Column (15) - At Completion - Estimated. Enter the latest revised estimate of cost at completion including estimated overrun/underrun for all authorized work. If the subtotal (Block 8.e) does not agree with the most likely management estimate at completion (Block 6.c.1), the difference will be explained in Format 5. (See 10.2.2.2.3 above.)

10.2.2.6.10 Column (16) - At Completion - Variance. Enter the difference between the Budgeted - At Completion (Column (14)) and the Estimated - At Completion (Column (15)) by subtracting Column (15) from Column (14). A negative figure (indicated by parentheses) reflects an unfavorable variance. Significant variances as specified in the contract will be fully explained in

Format 5. If the contract does not specify variance analysis thresholds, the contractor will provide appropriate variance analyses. (See 10.2.6.3.2.4 below.)

10.2.3 Format 2 - Organizational Categories.

10.2.3.1 Performance Data.

10.2.3.1.1 Column (1) - Organizational Category. In Block 5.a list the organizational categories which reflect the contractor's internal management structure. This format will be used to collect organizational cost information at the total contract level rather than for individual WBS elements. The level of detail to be reported will normally be limited to the organizational level immediately under the operating head of the facility. The contractor shall be given flexibility to report this information according to its own internal management structure. If the contractor is organized by product teams, this format may not be needed because it should resemble Format 1.

10.2.3.1.2 Cost of Money. Enter in Columns (2) through (16) of Block 5.b the Facilities Capital Cost of Money applicable to the contract.

10.2.3.1.3 General and Administrative. Enter in Columns (2) through (16) of Block 5.c the appropriate G&A costs. (See 10.2.2.4.3 above.)

10.2.3.1.4 Undistributed Budget. Enter in Column (14) of Block 5.d the budget applicable to contract effort which cannot be planned in sufficient detail to be assigned to a responsible organizational area at the reporting level. The amount shown on this format may exceed the amount shown as undistributed budget on Format 1 if budget is identified to a task at or below the WBS reporting level but organizational identification has not been made; or may be less than the amount on Format 1 where budgets have been assigned to organizations but not to WBS elements. Enter in Column (15) of Block 5.d the estimate at completion for the scope of work represented by the undistributed budget in Column (14) of Block 5.d. Enter in Column (16) of Block 5.d the variance, if any, and fully explain it in Format 5. (See 10.2.2.4.4 above.)

10.2.3.1.5 Subtotal (Performance Measurement Baseline). Enter the sum of the direct, indirect, Cost of Money, and G&A costs and budgets in Columns (2) through (16) of Block 5.a through e. (See 10.2.2.4.5 above.)

10.2.3.1.6 Management Reserve. In Column (14) of Block 5.f enter the amount of budget identified as management reserve. The Management Reserve entry will agree with the amounts shown in Format 1 and 3. (See 10.2.2.4.6 above.)

10.2.3.1.7 Total. Enter the sum of all direct, indirect, Cost of Money, and G&A costs and budgets, undistributed budgets and management reserves, if applicable, in Columns (2) through (14) of Block 5.g. The totals on this page will equal the Total line on Format 1. The total of Column (14) will equal the Total Allocated Budget shown in Block 5.f on Format 3.

10.2.3.2 Columns (2) Through (16). The instructions applicable to these columns are the same as the instructions for corresponding columns on Format 1. (See 10.2.2.6 and 10.2.2.6.1 through 10.2.2.6.10 above.)

10.2.4 Format 3 - Baseline.

10.2.4.1 Contract Data.

10.2.4.1.1 Original Negotiated Cost. Enter in Block 5.a the dollar value (excluding fee or profit) negotiated in the original contract. For a cost plus fixed fee or award fee contract, enter the estimated cost negotiated. For an incentive contract, enter the definitized contract target cost.

10.2.4.1.2 Negotiated Contract Changes. Enter in Block 5.b the cumulative cost (excluding fee or profit) applicable to definitized contract changes which have occurred since the beginning of the contract.

10.2.4.1.3 Current Negotiated Cost. Enter in Block 5.c the sum of Blocks 5.a and 5.b. The amount shown should equal the current dollar value (excluding fee or profit) on which contractual agreement has been reached and should be the same as the amount in Negotiated Cost (Block 5.b) on Format 1.

10.2.4.1.4 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.d the estimated cost (excluding fee or profit) for contract changes for which written authorizations have been received, but for which contract prices have not been incorporated in the contract, as shown in Block 5.c of Format 1.

10.2.4.1.5 Contract Budget Base. Enter in Block 5.e the sum of Blocks 5.c and 5.d.

10.2.4.1.6 Total Allocated Budget. Enter in Block 5.f the sum of all budgets allocated to the performance of the contractual effort. The amount shown will include all management reserves and undistributed budgets. This amount will be the same as that shown on the Total line in Column (14) on Format 1 (Block 8.g) and Format 2 (Block 5.g).

10.2.4.1.7 Difference. Enter in Block 5.g the difference between Blocks 5.e and 5.f. In most cases, the amounts shown in Blocks 5.e and 5.f will be identical. If the amount shown in Blocks 5.f exceeds that shown in Block 5.e, it usually is an indication of a formal reprogramming (Over Target Baseline). The difference should be explained in Format 5 at the time the negative value appears and subsequently for any change in the value.

10.2.4.1.8 Contract Start Date. Enter in Block 5.h the date the contractor was authorized to start work on the contract, regardless of the date of contract definitization. (Long lead procurement efforts authorized under prior contracts are not to be considered.)

10.2.4.1.9 Contract Definitization Date. Enter in Block 5.i the date the contract was definitized.

10.2.4.1.10 Planned Completion Date. Enter in Block 5.j the completion date to which the budgets allocated in the Performance Measurement Baseline have been planned. This date should represent the planned completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the Total Allocated Budget (Block 5.f of Format 3).

10.2.4.1.10.1 Performance Measurement Schedule Inconsistent With Contractual Schedule. In exceptional cases, the contractor may determine that the existing contract schedule cannot be achieved and no longer represents a reasonable basis for management control. With Government approval, the contractor may rephase its performance measurement schedule to new dates which exceed the contractual milestones, a condition known as "Over Target Schedule." These new dates are for performance measurement purposes only and do not represent an agreement to modify the contract terms and conditions. The Government and the contractor will agree on the new performance measurement schedule prior to reporting it in the Cost Performance Report. The contractor should provide pertinent information in Format 5 on any schedule milestones that are inconsistent with contractual milestones, beginning the month the schedule is implemented and each month thereafter.

10.2.4.1.10.2 Indicators of a Performance Measurement Schedule Inconsistent With the Contractual Schedule. Formal reprogramming or internal replanning may result in performance measurement milestones that are inconsistent with the contractual milestones (Over Target Schedule). A difference between the planned completion date (Block 5.j) and the contract completion date (Block

5.k) indicates that some or all of the performance measurement milestones are inconsistent with the contractual milestones. However, some performance measurement milestones may be inconsistent with contractual milestones even if these dates are the same.

10.2.4.1.11 Contract Completion Date. Enter in Block 5.k the contract scheduled completion date in accordance with the latest contract modification. The cost associated with the schedule from which this date is taken is the Contract Budget Base (Block 5.e of Format 3).

10.2.4.1.12 Estimated Completion Date. Enter the contractor's latest revised estimated completion date. This date should represent the estimated completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the most likely management estimate at completion (Block 6.c.1 of Format 1).

10.2.4.2 Column (1) - Item.

10.2.4.2.1 Performance Measurement Baseline (Beginning of Period). Enter in Block 6.a the time-phased Performance Measurement Baseline (PMB) (including G&A) which existed at the beginning of the current reporting period. Most of the entries on this line are taken directly from the PMB (End of Period) line on the previous report. For example, the number in Column (4) on the PMB (End of Period) line from last month's report becomes the number in Column (3) on the PMB (Beginning of Period) line on this report. The number in Column (5) (end of period) last report becomes Column (4) (beginning of period) on this report, etc. This rule pertains through Column (9) where the time increments change from monthly to some other periods of time. At this point, a portion of Column (10) (end of period) would go into Column (9) (beginning of period) and the remainder of Column (10) (end of period) would go into Column (10) (beginning of period). Columns (11) through (16) simply move directly up to the (beginning of period) line without changing columns.

10.2.4.2.2 Baseline Changes. List by number in Block 6.b, the contract changes and supplemental agreements authorized during the reporting period. All authorized baseline changes should be listed whether priced or unpriced. The amount of management reserve applied during the period should also be listed.

10.2.4.2.3 Performance Measurement Baseline (End of Period). Enter in Block 6.c the time-phased PMB as it exists at the end of the reporting period. The difference between this line and the PMB (Beginning of Period) should represent the effects of the authorized changes and allocations of management reserves made during the period. Significant differences should be explained in Format 5 in terms of reasons for necessary changes to time-phasing due to internal replanning or formal reprogramming, and reasons for the application of management reserve.

10.2.4.2.4 Management Reserve. Enter in Block 7 the total amount of management reserve remaining as of the end of the reporting period. This figure will agree with the amounts shown as management reserve in Formats 1 and 2.

10.2.4.2.5 Total. Enter in Column (16) of Block 8 the sum of Column (16) of Block 6.c (PMB (End of Period)) and Column (16) of Block 7 (Management Reserve). This amount should be the same as that shown on the Total line (Block 8.g) in Column (14) on Format 1.

10.2.4.3 Column (2) - BCWS - Cum To Date. On the PMB (Beginning of Period) line (Block 6.a), enter the cumulative BCWS as of the first day of the reporting period. This should be the same number reported as BCWS - Cum To Date on the Total line (Column (7) of Block 8.g) of Format 1 of the previous CPR. On the PMB (End of Period) line (Block 6.c), enter the cumulative BCWS as of the last day of the reporting period. This should be the same number

reported as BCWS - Cum to Date on the Total line (Column (7) of Block 8.g) of Format 1 for this CPR.

10.2.4.4 Column (3) - BCWS For Report Period. On the PMB (Beginning of Period) line (Block 6.a), enter the BCWS planned for the reporting period. This should be the number in Column (4) on the PMB (End of Period) line (Block 6.c) on the preceding month's report.

10.2.4.5 Columns (4) Through (14). Enter the names of the next six months in the headings of Columns (4) through (9) of Block 6, and the names of the appropriate periods in the headings of Columns (10) through (14). In the PMB (Beginning of Period) line (Block 6.a), enter the BCWS projection reported in the previous CPR as PMB (End of Period) (Block 6.c). In the PMB (End of Period) line (Block 6.c) of this report, enter the projected BCWS (by month for six months and by periodic increments thereafter, or as negotiated with the procuring activity) for the remainder of the contract. The time-phasing of each item listed in Column (1) of Block 6.b need not be shown in Columns (4) through (14).

10.2.4.6 Column (15) - Undistributed Budget. On the PMB (Beginning of Period) line (Block 6.a), enter the number from Column (15) on the PMB (End of Period) line (Block 6.c) from the preceding report. On the PMB (End of Period) line, enter the undistributed budget shown in Column (14) of Block 8.d on Format 1 of this report.

10.2.4.7 Column (16) - Total Budget. On the PMB (Beginning of Period) line (Block 6.a) enter the number from Column (16) on the PMB (End of Period) line (Block 6.c) from the preceding report. In the section where baseline changes that occurred during the period are listed (Column (1) of Block 6.b), enter the amount of each of the changes listed. On the PMB (End of Period) line (Block 6.c), enter the sum of the amounts in the preceding columns on this line. On the Management Reserve line (Block 7), enter the amount of management reserve available at the end of the period. On the Total line (Block 8) enter the sum of the amounts in this column on the PMB (End of Period) line and the Management Reserve line. (This should equal the amount in Block 5.f on this format and also the amount of the Total line in Column (14), Block 8.g, of Format 1.)

10.2.5 Format 4 - Staffing.

10.2.5.1 Performance Data. For those organizational categories shown in Column (1) of Block 5, equivalent months will be indicated for the current reporting period, cumulative through the current period, and forecast to completion. Direct equivalent months will be shown for each organizational category for the contract. An equivalent month is defined as the effort equal to that of one person for one month. Figures should be reported in whole numbers. (Partial months, .5 and above, will be rounded to 1; below .5 to 0.) When the Government and the contractor agree, staffing may be reported in equivalent days or hours.

10.2.5.1.1 Organizational Category. List the organizational categories that reflect the contractor's internal management structure in Block 5. Format 4 categories may differ from those reported in Format 2. If the Government needs different categories in Formats 2 and 4, the Format 4 categories will be addressed during negotiations. (See 7.6.7 above.)

10.2.5.1.2 Total Direct. In Block 6, Columns (2) through (15), enter the sum of all direct equivalent months for the organizational categories shown in Column (1).

10.2.5.2 Column (2) - Actual - Current Period. Enter the actual equivalent months incurred during the current reporting period.

10.2.5.3 Column (3) - Actual End of Current Period (Cum). Enter the actual equivalent months incurred to date (cumulative) as of the end of the report period.

10.2.5.4 Columns (4) Through (14) - Forecast (Non Cumulative). Enter a staffing forecast by month for a six-month period following the current period and by periodic increment thereafter, as negotiated with the procuring activity (see 7.6.4 above). The forecast will be updated at least quarterly unless a major revision to the plan or schedule has taken place, in which case forecasts will be changed for all periods involved in the report submitted at the end of the month in which the change occurred.

10.2.5.5 Column (15) - Forecast at Completion. Enter the estimate of equivalent months necessary for the total contract in Column (15) by organizational category. This estimate should be consistent with the most likely management estimate at completion shown in Block 6.c.1 of Format 1. Any significant change in the total number of equivalent months at completion of the contract (i.e., Column (15) Total) should be explained in Format 5.

10.2.6 Format 5 - Explanations and Problem Analyses.

10.2.6.1 General. Format 5, Explanations and Problem Analyses, is a narrative report prepared to supplement the other CPR formats. Format 5 will normally address 1) contractually required cost, schedule and estimate at completion variance analyses, 2) management reserve changes and usage, 3) undistributed budget contents, 4) differences between the best case, worst case, and most likely management estimate at completion, if any, 5) the difference between the most likely management estimate at completion and the estimate in Block 8.e of Column (15), if any, 6) significant differences between beginning of period PMB timephasing and end of period PMB timephasing in Format 3, 7) performance measurement milestones that are inconsistent with contractual milestones (Over Target Schedule), 8) formal reprogramming (Over Target Baseline) implementation details, and 9) significant staffing estimate changes in Format 4. However, any topic relevant to contract cost, schedule or technical performance can be addressed in this format.

10.2.6.2 Total Contract. Provide a summary analysis, identifying significant problems affecting performance. Indicate corrective actions required, including Government action where applicable. Significant changes since the previous report should be highlighted. Discuss any other issues affecting successful attainment of contract cost, schedule or technical objectives which the contractor deems significant or noteworthy. This section should be brief, normally one page.

10.2.6.3 Cost and Schedule Variances. Explain all variances which exceed specified variance thresholds. Explanations of variances must clearly identify the nature of the problem, significant reasons for cost or schedule variance, effect on the immediate task, impact on the total contract, and the corrective action taken or planned. Explanations of cost variances should identify amounts attributable to rate changes separately from amounts applicable to hours worked; amounts attributable to material price changes separately from amounts applicable to material usage; and amounts attributable to overhead rate changes separately from amounts applicable to overhead base changes or changes in the overhead allocation basis. To reduce the volume of variance analysis, the Government may allow the contractor to refer to a prior CPR's variance analysis explanations if the explanation for the current CPR's variance has not changed significantly.

10.2.6.3.1 Setting Variance Analysis Thresholds. The Government should require the minimum amount of variance analysis in Format 5 which satisfies its management information needs. Excessive variance analysis is burdensome and costly, and detracts from the CPR's usefulness, while too little information is equally undesirable. The contract should include a provision to review cost and schedule variance analysis thresholds periodically,

normally semiannually, to determine if they continue to meet the Government's information needs. If they do not, the thresholds should be changed at no cost to the Government.

10.2.6.3.2 Identifying Significant Variances. There is no prescribed basis for identifying which cost and schedule variances are to be explained in Format 5. The Government may specify any one of several ways to identify such variances, including, but not limited to the following:

10.2.6.3.2.1 Fixed Number of Variances. Specify a number of significant variances. These variances can be either current month, cumulative, or at-completion. Any number of significant variances may be selected, but the Government should be careful to select only the number that it feels are necessary.

10.2.6.3.2.2 Percentage or Dollar Thresholds. Select variances based on percentage or dollar thresholds. Significant schedule variances are identified based on their size or percentage to Budgeted Cost for Work Scheduled, and significant cost variances are identified based on their size or percentage to Budgeted Cost for Work Performed. For example, all current month, cumulative or at-completion variances greater than 10% or $500K may be selected for analysis. This method usually results in a larger number of variances requiring reporting. Consequently, the thresholds should be reviewed periodically to ensure they continue to provide a reasonable amount of useful information.

10.2.6.3.2.3 Specific Variances. Select variances for analysis only after reviewing Formats 1 or 2. Under this method, the CPR is delivered promptly after the contractor's accounting period ends with all required information in Formats 1 through 5 except variance analyses. Once the Government has reviewed this performance data, it selects specific variances for analysis. This method may be the most efficient in that the Government can pinpoint areas to be analyzed. It is also the most flexible because there may be some months where a review of the performance data yields few or no variance analysis candidates. However, this method should only be used if the Government is certain it has sufficient resources to review the CPR early and select variances each month.

10.2.6.3.2.4 No Variance Analysis Thresholds Specified. If the contract does not specify variance analysis thresholds, the contractor will determine what significant variance explanations are reported. These explanations should focus on 1) areas where the Government should be informed of developing issues or problems, 2) areas of identified program risk or management interest, or 3) areas of significantly unfavorable cost or schedule performance.

10.2.6.4 Other Analyses. In addition to variance explanations, the following analyses are mandatory:

10.2.6.4.1. Management Estimate at Completion. If the best or worst case management estimates at completion differ from the most likely estimate, the contractor must provide a brief explanation of the difference. Also, if the most likely management estimate at completion differs from the total entered in Column 15 of Format 1 or 2, the contractor must explain the difference. The explanations should focus on such areas as differences in underlying assumptions; a knowledgeable, realistic risk assessment; projected use of management reserve; estimate for undistributed budget; and higher management knowledge of current or future contract conditions.

10.2.6.4.2 Undistributed Budget. Identify the effort to which the undistributed budget applies. Also, explain any variance between the undistributed budget and the estimate for undistributed budget in Formats 1 and 2.

10.2.6.4.3 Management Reserve Changes. Identify the sources and uses of management reserve changes during the reporting period. For management reserve uses, identify the WBS and organizational elements to which applied, and the reasons for application.

10.2.6.4.4 Baseline Changes. Explain reasons for significant shifts in time-phasing of the PMB shown on Format 3.

10.2.6.4.5 Staffing Level Changes. Explain significant changes in the total staffing estimate at completion shown on Format 4. Also, explain reasons for significant shifts in time-phasing of planned staffing.

10.2.6.5 Formal Reprogramming (Over Target Baseline). If the difference shown in Block 5.g on Format 3 becomes a negative value or changes in value, provide information on the following:

10.2.6.5.1 Authorization. Procuring activity authorization for the baseline change which resulted in negative value or change.

10.2.6.5.2 Reason. A discussion of the reason(s) for the change.

10.2.6.5.3 CPR Reporting. A discussion of how the change affected CPR reporting (i.e., amount allocated to management reserve, adjustments to cost or schedule variances, etc.).

10.2.6.5.4 Schedule. Indicate whether the contract schedule was retained for performance measurement or was replaced with a schedule that exceeds the contractual schedule (Over Target Schedule).

10.2.6.6 Over Target Schedule. If a performance measurement schedule exceeding the contractual schedule (Over Target Schedule) has been implemented, provide a discussion of the pertinent information, such as authorization, reasons and significant dates.

CLASSIFICATION *(When filled in)*

COST PERFORMANCE REPORT
FORMAT 1 - WORK BREAKDOWN STRUCTURE

DOLLARS IN _____

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME	a. NAME		a. NAME	a. FROM *(YYMMDD)*
b. LOCATION *(Address and ZIP Code)*	b. NUMBER			b. TO *(YYMMDD)*
	c. TYPE	d. SHARE RATIO	b. PHASE *(X one)* ☐ RDT&E ☐ PRODUCTION	

5. CONTRACT DATA

a. QUANTITY	b. NEGOTIATED COST	c. EST. COST AUTHORIZED UNPRICED WORK	d. TARGET PROFIT/ FEE	e. TARGET PRICE	f. ESTIMATED PRICE	g. CONTRACT CEILING	h. ESTIMATED CONTRACT CEILING

6. ESTIMATED COST AT COMPLETION	MANAGEMENT ESTIMATE AT COMPLETION (1)	CONTRACT BUDGET BASE (2)	VARIANCE (3)
a. BEST CASE			
b. WORST CASE			
c. MOST LIKELY			

7. AUTHORIZED CONTRACTOR REPRESENTATIVE		
a. NAME *(Last, First, Middle Initial)*	b. TITLE	
c. SIGNATURE		d. DATE SIGNED *(YYMMDD)*

8. PERFORMANCE DATA

ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12)	BUDGET (13)	AT COMPLETION: BUDGETED (14)	ESTIMATED (15)	VARIANCE (16)
a. WORK BREAKDOWN STRUCTURE ELEMENT															
b. COST OF MONEY															
c. GENERAL & ADMINISTRATIVE															
d. UNDISTRIBUTED BUDGET															
e. SUBTOTAL *(Performance Measurement Baseline)*															
f. MANAGEMENT RESERVE															
g. TOTAL															

9. RECONCILIATION TO CONTRACT BUDGET BASE															
a. VARIANCE ADJUSTMENT															
b. TOTAL CONTRACT VARIANCE															

CLASSIFICATION *(When filled in)*

SAMPLE FORMAT 1. Work Breakdown Structure

CLASSIFICATION *(When filled in)*

COST PERFORMANCE REPORT
FORMAT 2 - ORGANIZATIONAL CATEGORIES

DOLLARS IN _____

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME	a. NAME		a. NAME	a. FROM *(YYMMDD)*
b. LOCATION *(Address and ZIP Code)*	b. NUMBER			b. TO *(YYMMDD)*
	c. TYPE	d. SHARE RATIO	b. PHASE *(X one)* ☐ RDT&E ☐ PRODUCTION	

5. PERFORMANCE DATA

ITEM (1)	CURRENT PERIOD: BUDGETED COST WORK SCHEDULED (2)	BUDGETED COST WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5)	VARIANCE COST (6)	CUMULATIVE TO DATE: BUDGETED COST WORK SCHEDULED (7)	BUDGETED COST WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10)	VARIANCE COST (11)	REPROGRAMMING ADJUSTMENTS: COST VARIANCE (12)	REPROGRAMMING ADJUSTMENTS: BUDGET (13)	AT COMPLETION: BUDGETED (14)	AT COMPLETION: ESTIMATED (15)	AT COMPLETION: VARIANCE (16)
a. ORGANIZATIONAL CATEGORY															
b. COST OF MONEY															
c. GENERAL & ADMINISTRATIVE															
d. UNDISTRIBUTED BUDGET															
e. SUBTOTAL *(Performance Measurement Baseline)*															
f. MANAGEMENT RESERVE															
g. TOTAL															

CLASSIFICATION *(When filled in)*

SAMPLE FORMAT 2. Organizational Categories

CLASSIFICATION *(When filled in)*

COST PERFORMANCE REPORT
FORMAT 3 - BASELINE

DOLLARS IN _____

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME	a. NAME		a. NAME	a. FROM *(YYMMDD)*
b. LOCATION *(Address and ZIP Code)*	b. NUMBER			b. TO *(YYMMDD)*
	c. TYPE	d. SHARE RATIO	b. PHASE *(X one)* ☐ RDT&E ☐ PRODUCTION	

5. CONTRACT DATA

a. ORIGINAL NEGOTIATED COST	b. NEGOTIATED CONTRACT CHANGES	c. CURRENT NEGOTIATED COST *(a. + b.)*	d. ESTIMATED COST OF AUTHORIZED UNPRICED WORK	e. CONTRACT BUDGET BASE *(c. + d.)*	f. TOTAL ALLOCATED BUDGET	g. DIFFERENCE *(e. - f.)*

h. CONTRACT START DATE *(YYMMDD)*	i. CONTRACT DEFINITIZATION DATE *(YYMMDD)*	j. PLANNED COMPLETION DATE *(YYMMDD)*	k. CONTRACT COMPLETION DATE *(YYMMDD)*	l. ESTIMATED COMPLETION DATE *(YYMMDD)*

6. PERFORMANCE DATA

ITEM	BCWS CUMULATIVE TO DATE	BCWS FOR REPORT PERIOD	BUDGETED COST FOR WORK SCHEDULED (BCWS) *(Non-Cumulative)*											UNDISTRIBUTED BUDGET	TOTAL BUDGET
			SIX MONTH FORECAST						ENTER SPECIFIED PERIODS						
			+1	+2	+3	+4	+5	+6							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
a. PERFORMANCE MEASUREMENT BASELINE *(Beginning of Period)*															
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD															
c. PERFORMANCE MEASUREMENT BASELINE *(End of Period)*															
7. MANAGEMENT RESERVE															
8. TOTAL															

CLASSIFICATION *(When filled in)*

SAMPLE FORMAT 3. Baseline

COST PERFORMANCE REPORT
FORMAT 4 - STAFFING

1. CONTRACTOR		2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME		a. NAME		a. NAME	a. FROM (YYMMDD)
b. LOCATION (Address and ZIP Code)		b. NUMBER			b. TO (YYMMDD)
		c. TYPE	d. SHARE RATIO	b. PHASE (X one) ☐ RDT&E ☐ PRODUCTION	

5. PERFORMANCE DATA (All figures in whole numbers)

ORGANIZATIONAL CATEGORY (1)	ACTUAL CURRENT PERIOD (2)	ACTUAL END OF CURRENT PERIOD (Cumulative) (3)	FORECAST (Non-Cumulative)										AT COMPLETION (15)
			SIX MONTH FORECAST BY MONTH (Enter names of months)						ENTER SPECIFIED PERIODS				
			(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
6. TOTAL DIRECT													

CLASSIFICATION *(When filled in)*

COST PERFORMANCE REPORT
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES

1. CONTRACTOR	2. CONTRACT		3. PROGRAM	4. REPORT PERIOD
a. NAME	a. NAME		a. NAME	a. FROM *(YYMMDD)*
b. LOCATION *(Address and ZIP Code)*	b. NUMBER			b. TO *(YYMMDD)*
	c. TYPE	d. SHARE RATIO	b. PHASE *(X one)* ☐ RDT&E ☐ PRODUCTION	

5. EVALUATION

SAMPLE FORMAT 5. Explanations and Problem Analyses Page 20 of

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION

(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort)

Ref # CL99-007 Stub # N60530-9049-YFBG

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED: **SECRET**

b. LEVEL OF SAFEGUARDING REQUIRED: **NONE**

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

X	a. PRIME CONTRACT NUMBER N68936-99-D-0133	02/09/30
	b. SUBCONTRACT NUMBER	
	c. SOLICITATION OR OTHER NUMBER N68936-99-R-0068	Due Date (YYMMDD)

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

X	a. ORIGINAL *(Complete date in all cases.)*		Date (YYMMDD) 99/09/21
	b. REVISED *(Supersedes all previous specs.)*	Revision No.	Date (YYMMDD)
	c. FINAL *(Complete item 5 in all cases.)*		Date (YYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT? [ ] YES [X] NO. If yes, complete the following:

Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254? [ ] YES [X] NO. If yes, complete the following:

In response to contractor's request dated _____, retention of the identified classified material is authorized for the period of _____

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
MATERIALS, COMMUNICATIONS, AND COMPUTERS, INC. 8600 BOEING EL PASO, TX 79925	7T320	DEFENSE SECURITY SERVICE TEXAS/OKLAHOMA OPLOC 5800 EAST CAMPUS CIRCLE DRIVE STE. 110A IRVING, TX 75063-2739

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

8. ACTUAL PERFORMANCE

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*
NAVAL AIR WEAPONS STATION CHINA LAKE, CA 93555-6001		

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

TECHNICAL SUPPORT SERVICES FOR THE WEAPONS SURVIVABILITY LABORATORY RDT&E EFFORTS.

10. THIS CONTRACT WILL REQUIRE ACCESS TO:	YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. COMMUNICATIONS SECURITY *(COMSEC)* INFORMATION		X	a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY.	X	
b. RESTRICTED DATA		X	b. RECEIVE CLASSIFIED DOCUMENTS ONLY		X
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		X	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		X
d. FORMERLY RESTRICTED DATA		X	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		X
e. INTELLIGENCE INFORMATION:			e. PERFORM SERVICES ONLY	X	
(1) Sensitive Compartmented Information *(SCI)*		X	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S. PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		X
(2) Non-SCI		X	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTC) OR OTHER SECONDARY DISTRIBUTION CENTER		X
f. SPECIAL ACCESS INFORMATION		X	h. REQUIRE A COMSEC ACCOUNT		X
g. NATO INFORMATION		X	i. HAVE TEMPEST REQUIREMENTS		X
h. FOREIGN GOVERNMENT INFORMATION		X	j. HAVE OPERATIONS SECURITY *(OPSEC)* REQUIREMENTS	X	
i. LIMITED DISSEMINATION INFORMATION		X	k. BE AUTHORIZED TO USE DEFENSE COURIER SERVICE		X
j. FOR OFFICIAL USE ONLY INFORMATION	X		l. OTHER (Specify)		
k. OTHER *(Specify)*					

12. PUBLIC RELEASE. Any information *(classified or unclassified* pertaining to the contract shall not be released for public dissemination except as approved by the International Security Manual or

[ ] Direct [X] Through *(specify):*

COMMANDER, NAVAL AIR WARFARE CENTER, WEAPONS DIV (741100D), CHINA LAKE, CA 93555

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense *(Public Affairs)* * for review.
*In the case of non-DOD User Agencies, request for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in the guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under the this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the

INFORMATION ON THIS CONTRACT IS NOT RELEASABLE TO CONTRACTORS POSSESSING RECIPROCAL CLEARANCES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE COMMANDER, NAVAL AIR WARFARE CENTER, (CODE 741100D), CHINA LAKE, CA 93555-6001.

STORAGE OF CLASSIFIED MATERIAL AT CONTRACTOR FACILITY IS NOT AUTHORIZED.

ACCESS TO INFORMATION UNDER THIS CONTRACT WILL BE KEPT TO A MINIMUM TO MEET OPERATIONAL REQUIREMENTS.

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements in addition to ISM requirements, are established for this contract. *(If Yes, identify pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of tech requirements to the cognizant security office. Use Item 13 if additional space is needed).* [ ] Yes [X] No

15. Inspections. Elements of the contract are outside the inspection responsibility of the cognizant security office. *(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use item 13 if additional space is needed).* [ ] Yes [X] No

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE *(Include Area Code)*
JUDITH K. SMITH	CONTRACTING OFFICER FOR SECURITY MATTERS	(805) 989-7859

d. ADDRESS (Include Zip Code)

COMMANDER
CODE 741100D
NAVAIRWARCENWPNDIV
1 ADMINISTRATION CIRCLE
CHINA LAKE, CA 93555-6001

e. SIGNATURE

Judith K. Smith

17. REQUIRED DISTRIBUTION

- [X] a. CONTRACTOR
- [ ] b. SUBCONTRACTOR
- [X] c. COGNIZANT SECURITY OFFICER FOR PRIME & SUBCONTRACTOR
- [ ] d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY
- [X] e. ADMINISTRATIVE CONTRACTING OFFICER
- [X] f. OTHERS AS NECESSARY

741100E/418300D, 210000D

DD FORM 254 Reverse, DEC 90

D D254 ITEM 13 SUPPLEMENTAL PAGE

TECHNICAL SUPPORT WILL BE PERFORMED AT, BUT NOT LIMITED TO, NAVAL AIR WEAPONS STATION, CHINA LAKE, CA. USING ACTIVITY WILL PROVIDE SECURITY CLASSIFICATION GUIDANCE FOR PERFORMANCE OF THIS CONTRACT.

THE FOLLOWING SECURITY CLASSIFICATION GUIDE(s) APPLIES AND WILL BE PROVIDED BY THE USER AGENCY AS REQUIRED: OPNAVINST C5513.2B, (63) COMBAT SURVIVABILITY PROGRAM.

THE TECHNICAL SUPPORT SERVICES PROVIDED WILL REQUIRE ACCESS TO CLASSIFIED INFORMATION FOR REFERENCE PURPOSES. NO CLASSIFIED INFORMATON IS TO BE GENERATED. CLASSIFIED MATERIAL PROVIDED TO THE CONTRACTOR WILL BE APPROPRIATELY MARKED AND WILL BE PROTECTED IN ACCORDANCE WITH NAVWPNCENINST 5510.29.

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

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF GOVERNMENT SENSITIVE DATA (AS DEFINED BY PUBLIC LAW 100-235) DURING THE PERIOD OF THIS AGREEMENT. SUCH PROTECTION WILL BE EQUIVALENT TO THE PROTECTION THE CONTRACTOR AFFORDS ITS OWN PROPRIETARY DATA AND TRADE SECRETS; BUT IN ANY EVENT, GOVERNMENT SENSITIVE DATA WILL NOT BE DISCUSSED, PROCESSED, OR TRANSMITTED OVER UNSECURE TELEPHONE, FACSIMILE, COMPUTER OR COMMUNICATIONS CIRCUITS.

DISTRIBUTION STATEMENTS MUST BE ON ALL CLASSIFIED AND UNCLASSIFIED TECHNICAL DOCUMENTS. REFER TO THE CONTRACT DATA REQUIREMENTS LIST (CDRL) BLOCK 9, FOR THE REQUIRED DISTRIBUTION STATEMENT FOR YOUR DATA, OR YOUR NAVAL AIR WARFARE CENTER WEAPONS DIVISION, CHINA LAKE, CA OR NAVAL AIR WEAPONS STATION CHINA LAKE, CA POINT OF CONTACT.

"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 exemptions 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 to 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.

Dissemination. Contractors may disseminate "For Official Use Only" information to their employees and subcontractors who have a need for the information in connection with a classified contract.

Storage. During working hours, "For Official Use Only" information shall be placed in an out-of-sight location if the work area is accessible to persons who do not have a need for the information. During nonworking hours, the information shall be stored to preclude unauthorized access. Filing such material with other unclassified records in unlocked files or desks, is adequate when internal building security is provided during nonworking hours. When such internal security control is not exercised, locked buildings or rooms will provide adequate after-hours protection or the material can be stored in locked receptacles such as file cabinets, desks, or bookcases.

Transmission. "For Official Use Only" information may be sent via first-class mail or parcel post. Bulky shipments may be sent by fourth-class mail.

Disposition. When no longer needed, FOUO information may be disposed of by tearing each copy into pieces to preclude reconstructing, and placing it in a regular trash container or as directed by the User Agency.

Unauthorized Disclosure. Unauthorized disclosure of "For Official Use Only" information does not constitute a security violation but the releasing agency should be informed of any unauthorized disclosure. The unauthorized disclosure of FOUO information protected by the Privacy Act may result in criminal sanctions.

WEAPONS SURVIVABILITY LABORATORY

PREVENTIVE MAINTENANCE PLAN

Updated 2-12-1999

I. PURPOSE

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

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, if applicable; Plant Account Number, if applicable; etc.)

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, (ie. lubricants, antifreeze, airfilters 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 Head/COR approval.

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 (ie 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° 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.

			FREQUENCY
I.		MACHINE SHOP (Building 31192)	
		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 to 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.	Bi-monthly

of screws and nuts

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

CAUTION: <u>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,	Weekly/

	cross-feed, compound, and tail-stock saddle.	After Use
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	Before Use/ As Required

slots to prevent sticking. Lightly oil bore.

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

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: <u>Do not remove guards during use.</u>

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	Before Use

operation.

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 DRILL SHARPENER (S/N 50212), DAREX END MILL SHARPENER (S/N 90356), STRIPPET PUNCH AND DIE GRINDER, AND MILWAUKEE 6" PEDESTAL GRINDER (S/N W-93).

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. CAP.

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)

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

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

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.

T. SHEET METAL TOOLS: #100 ROPER/WHITNEY CORNER NOTCHER; DI-ARCO 12" ~~(16 GA.)~~ SHEAR; DI-ARCO 12" ~~(16 GA.)~~ FINGER BRAKE AND B3 BEVERLY THROATLESS SHEAR.

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: <u>The responsibility for maintenance and operation of the equipment in the Assembly Building rests with the Machine Shop Supervisor</u>

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 damage.	Before/ 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 contaminates, 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)

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

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

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	Annually

G. PORTABLE PUMPS #1 is mounted on water truck, #2,3 and 4 are portable and stored in lockup cage. Two fuel pumps mounted on white trailer.

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. GAS POWERED HIGH PRESSURE WASHER
Stored in lock up cage.

1)	Check oil, air filter and spark plug.	Before Use
2)	Clean and check thoroughly, shut off gas, run gas out of carburetor.	After Use
3)	Change oil and lubricate.	Annually

NOTE: Drain nightly during freezing conditions.

J. 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 verify proper operation, both manual and auto modes.	Before Use
2)	Clean, check thoroughly and store, shut off gas, run gas out of carburetor.	
3)	Change oil, service air filter and service spark plug.	Annually/ as required

K. PALLET JACKS: LIFT RITE, 10K LBS. CAP.; DAYTON, 4.5K LBS. CAP. ROLLRITE 5K

1.	Check for leaks, damage and general condition.	Before use

L. 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

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 lubricate turntable.	Semi-annually
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.	CO^2 STORAGE TANK		
	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)	Check Chrysler cooling system for antifreeze.	Semi-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

1)	Drain water from air compressor storage tank.	Weekly/
2)	Check air compressor's operation.	Weekly
3)	Change oil in compressor crankcase.	Annually
4)	Check for water leaks.	Weekly
5)	Check water pump operation and auto-oiler level (hydraulic/transmission oil (ATF red).	Weekly
6)	Well Water System, check air charge in pressure tank and recharge as required.	Semi-Annually
7)	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-	Weekly

ethylene piping.

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-lB/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 ARC)

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

*NOTE: Perform seasonal adjustments to air intake system as noted in Teledyne-Continental engine manual:

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.*

B. FORKLIFTS 20,000 pound (13-71625 & 13-67538)

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. FORD TRACTOR (Staff Car) 085920

1)	Check oil, battery, fuel and coolant level and general condition.	Weekly
2)	Start and run for 30 minutes.	Weekly

3)	Change oil, oil filter and fuel filters.	Annually/dependant on usage.
4)	Check cooling system for sufficient anti-freeze	Semi-Annually

E. 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

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.	GSE EQUIPMENT (WSL CODE OWNED)	
A.	Nitrogen Carts: NAN-1 (1 ea.) and NAN-2 (2 ea.)	
	1. Check high pressure hoses for deterioation, 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.	After Use
D.	HYDRAULIC TEST STANDS; AHT-63 & 64, (2 ea. diesel & 1 ea. electric)		
	1)	Check oil, battery, fuel and coolant level and general condition.	Bi-Weekly
	2)	Check hydraulic fluid level	Bi-Weekly
	3)	Start and run for 15 minutes	Bi-Weekly
	4)	Change oil and oil filters	Annually
	5)	Check coolant for sufficient strength (50-50 anti-freeze mix)	Semi-Annually
	NOTE: On the electric model, run long enough to properly check operation of unit.		Quarterly
E.	LIGHT CART		
	1)	Check oil, battery fluid, and fuel level and general condition.	Monthly
	2)	Start and run for 15 minutes, check lights for illumination.	Monthly
	3)	Change Oil.	Annually
F.	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

G. TINIUS OLSON TENSILE TESTER (Building 31196)

	1)	Check for leaks - record oil levels and any discrepancies.	Monthly
	2)	Refill to proper level and lubricate.	Quarterly
	3)	Operate in accordance with the operating procedures and inspect for defects.	Semi-Annually
	4)	Clean thoroughly.	Annually

H. 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)

	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

I. 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

J. PORTABLE AIR COMPRESSORS (1. Westinghouse, SN 242838) (2. DeVilbiss, SN P-006/54367)(3. Honda SN 439134; Mounted in maintenance van)

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

K. 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

L. WALLACE PORTABLE GANTRIES (Short and Tall)

1)	Lube wheel assemblies.	Quarterly
2)	Lube hook swivel and sheaves.	Quarterly
3)	Weight Test	Yearly

WAGE DETERMINATION NO: 94-2053 REV (12) AREA: CA,RIVERSIDE

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FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL

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

Division of Wage Determinations

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

Wage Determination No.: 94-2053
Revision No.: 12
Date of Last Revision: 09/15/1998

State): California

Areas: California COUNTIES OF Riverside, **San Bernardino**

** Fringe Benefits Required For All Occupations Included In This Wage Determination Follow The Occupational Listing **

OCCUPATION CODE AND TITLE	MINIMUM HOURLY WAGE
Administrative Support and Clerical Occupations:	
01011 Accounting Clerk I	$ 9.00
01012 Accounting Clerk II	$ 9.83
01013 Accounting Clerk III	$ 11.23
01014 Accounting Clerk IV	$ 12.90
01030 Court Reporter	$ 12.46
01050 Dispatcher, Motor Vehicle	$ 12.46
01060 Document Preparation Clerk	$ 10.53
01070 Messenger (Courier)	$ 7.60
01090 Duplicating Machine Operator	$ 10.53
01110 Film/Tape Librarian	$ 10.33
01115 General Clerk I	$ 7.60
01116 General Clerk II	$ 8.54
01117 General Clerk III	$ 10.53
01118 General Clerk IV	$ 11.60
01120 Housing Referral Assistant	$ 14.10
01131 Key Entry Operator I	$ 9.23
01132 Key Entry Operator II	$ 10.50
01191 Order Clerk I	$ 8.48
01192 Order Clerk II	$ 10.60
01261 Personnel Assistant (Employment) I	$ 11.15
01262 Personnel Assistant (Employment) II	$ 12.53
01263 Personnel Assistant (Employment) III	$ 12.85
01264 Personnel Assistant (Employment) IV	$ 14.43
01270 Production Control Clerk	$ 14.10
01290 Rental Clerk	$ 10.31
01300 Scheduler, Maintenance	$ 10.31
01311 Secretary I	$ 10.31
01312 Secretary II	$ 12.46
01313 Secretary III	$ 14.10
01314 Secretary IV	$ 15.95
01315 Secretary V	$ 18.80
01320 Service Order Dispatcher	$ 10.31
01341 Stenographer I	$ 9.19
01342 Stenographer II	$ 10.31
01400 Supply Technician	$ 15.95
01420 Survey Worker (Interviewer)	$ 12.46
01460 Switchboard Operator-Receptionist	$ 8.42
01510 Test Examiner	$ 12.42

01520 Test Proctor	$ 12.42
01531 Travel Clerk I	$ 8.43
01532 Travel Clerk II	$ 8.94
01533 Travel Clerk III	$ 9.48
01611 Word Processor I	$ 10.24
01612 Word Processor II	$ 12.95
01613 Word Processor III	$ 13.03
Automatic Data Processing Occupations:	
03010 Computer Data Librarian	$ 10.78
03041 Computer Operator I	$ 10.78
03042 Computer Operator II	$ 12.56
03043 Computer Operator III	$ 15.08
03044 Computer Operator IV	$ 16.75
03045 Computer Operator V	$ 17.47
03071 Computer Programmer I 1/	$ 12.41
03072 Computer Programmer II 1/	$ 15.36
03073 Computer Programmer III 1/	$ 19.50
03074 Computer Programmer IV 1/	$ 23.60
03101 Computer Systems Analyst I 1/	$ 19.85
03102 Computer Systems Analyst II 1/	$ 23.85
03103 Computer Systems Analyst III 1/	$ 26.08
03160 Peripheral Equipment Operator	$ 10.78
Automotive Service Occupations:	
05005 Automobile Body Repairer, Fiberglass	$ 16.62
05010 Automotive Glass Installer	$ 15.32
05040 Automotive Worker	$ 15.32
05070 Electrician, Automotive	$ 15.95
05100 Mobile Equipment Servicer	$ 13.98
05130 Motor Equipment Metal Mechanic	$ 16.62
05160 Motor Equipment Metal Worker	$ 15.32
05190 Motor Vehicle Mechanic	$ 16.76
05220 Motor Vehicle Mechanic Helper	$ 12.98
05250 Motor Vehicle Upholstery Worker	$ 14.69
05280 Motor Vehicle Wrecker	$ 15.32
05310 Painter, Automotive	$ 15.95
05340 Radiator Repair Specialist	$ 15.32
05370 Tire Repairer	$ 13.98
05400 Transmission Repair Specialist	$ 16.62
Food Preparation and Service Occupations:	
07010 Baker	$ 13.87
07041 Cook I	$ 12.66
07042 Cook II	$ 13.87
07070 Dishwasher	$ 8.91
07100 Food Service Worker (Cafeteria Worker)	$ 8.91
07130 Meat Cutter	$ 13.87
07250 Waiter/Waitress	$ 9.91
Furniture Maintenance and Repair Occupations:	
09010 Electrostatic Spray Painter	$ 15.95
09040 Furniture Handler	$ 10.95
09070 Furniture Refinisher	$ 15.95
09100 Furniture Refinisher Helper	$ 12.98
09110 Furniture Repairer, Minor	$ 14.69
09130 Upholsterer	$ 15.95
General Service and Support Occupations:	
11030 Cleaner, Vehicles	$ 8.91
11060 Elevator Operator	$ 8.91
11090 Gardener	$ 12.66
11121 Housekeeping Aide I	$ 7.90
11122 Housekeeping Aide II	$ 8.91
11150 Janitor	$ 8.91
11210 Laborer, Grounds Maintenance	$ 9.91
11240 Maid or Houseman	$ 7.90
11270 Pest Controller	$ 13.31
11300 Refuse Collector	$ 8.91

11330	Tractor Operator	$ 11.75
11360	Window Cleaner	$ 9.91
Health Occupations:		
12020	Dental Assistant	$ 10.55
12040	Emergency Medical Technician/Paramedic Ambulance Driver	$ 10.53
12071	Licensed Practical Nurse I	$ 11.16
12072	Licensed Practical Nurse II	$ 12.53
12073	Licensed Practical Nurse III	$ 13.01
12100	Medical Assistant	$ 9.43
12130	Medical Laboratory Technician	$ 9.43
12160	Medical Record Clerk	$ 9.43
12190	Medical Record Technician	$ 13.07
12221	Nursing Assistant I	$ 6.56
12222	Nursing Assistant II	$ 7.38
12223	Nursing Assistant III	$ 8.05
12224	Nursing Assistant IV	$ 9.05
12250	Pharmacy Technician	$ 11.76
12280	Phlebotomist	$ 9.43
12311	Registered Nurse I	$ 16.83
12312	Registered Nurse II	$ 19.31
12313	Registered Nurse II, Specialist	$ 20.78
12314	Registered Nurse III	$ 23.74
12315	Registered Nurse III, Anesthetist	$ 23.74
12316	Registered Nurse IV	$ 28.45
Information and Arts Occupations:		
13002	Audiovisual Librarian	$ 15.95
13011	Exhibits Specialist I	$ 16.43
13012	Exhibits Specialist II	$ 21.20
13013	Exhibits Specialist III	$ 26.28
13041	Illustrator I	$ 16.43
13042	Illustrator II	$ 21.20
13043	Illustrator III	$ 26.28
13047	Librarian	$ 18.80
13050	Library Technician	$ 12.46
13071	Photographer I	$ 12.74
13072	Photographer II	$ 16.43
13073	Photographer III	$ 21.20
13074	Photographer IV	$ 26.28
13075	Photographer V	$ 31.76
Laundry, Drycleaning, Pressing and Related Occups:		
15010	Assembler	$ 6.40
15030	Counter Attendant	$ 6.40
15040	Dry Cleaner	$ 8.14
15070	Finisher, Flatwork, Machine	$ 6.40
15090	Presser, Hand	$ 6.40
15100	Presser, Machine, Drycleaning	$ 6.40
15130	Presser, Machine, Shirts	$ 6.40
15160	Presser, Machine, Wearing Apparel, Laundry	$ 6.40
15190	Sewing Machine Operator	$ 8.72
15220	Tailor	$ 9.35
15250	Washer, Machine	$ 6.91
Machine Tool Operation and Repair Occupations:		
19010	Machine-Tool Operator (Toolroom)	$ 15.95
19040	Tool and Die Maker	$ 18.00
Materials Handling and Packing Occupations:		
21010	Fuel Distribution System Operator	$ 13.98
21020	Material Coordinator	$ 15.10
21030	Material Expediter	$ 15.10
21040	Material Handling Laborer	$ 13.64
21050	Order Filler	$ 13.69
21071	Forklift Operator	$ 14.09
21080	Production Line Worker (Food Processing)	$ 13.34
21100	Shipping/Receiving Clerk	$ 9.44
21130	Shipping Packer	$ 9.44

21140	Store Worker I	$ 9.06
21150	Stock Clerk (Shelf Stocker; Store Worker II)	$ 12.31
21210	Tools and Parts Attendant	$ 13.34
21400	Warehouse Specialist	$ 13.34
Mechanics and Maintenance and Repair Occupations:		
23010	Aircraft Mechanic	$ 16.62
23040	Aircraft Mechanic Helper	$ 12.98
23050	Aircraft Quality Control Inspector	$ 17.27
23060	Aircraft Servicer	$ 14.69
23070	Aircraft Worker	$ 15.32
23100	Appliance Mechanic	$ 15.95
23120	Bicycle Repairer	$ 13.98
23125	Cable Splicer	$ 16.62
23130	Carpenter, Maintenance	$ 15.95
23140	Carper Layer	$ 15.32
23160	Electrician, Maintenance	$ 17.05
23181	Electronics Technician, Maintenance I	$ 18.27
23182	Electronics Technician, Maintenance II	$ 19.02
23183	Electronics Technician, Maintenance III	$ 19.50
23260	Fabric Worker	$ 14.69
23290	Fire Alarm System Mechanic	$ 16.62
23310	Fire Extinguisher Repairer	$ 13.98
23340	Fuel Distribution System Mechanic	$ 16.62
23370	General Maintenance Worker	$ 13.34
23400	Heating, Refrigeration and Air-Conditioning Mechanic	$ 16.62
23430	Heavy Equipment Mechanic	$ 16.62
23440	Heavy Equipment Operator	$ 16.62
23460	Instrument Mechanic	$ 16.62
23470	Laborer	$ 8.91
23500	Locksmith	$ 15.95
23530	Machinery Maintenance Mechanic	$ 16.22
23550	Machinist, Maintenance	$ 16.00
23580	Maintenance Trades Helper	$ 12.98
23640	Millwright	$ 16.62
23700	Office Appliance Repairer	$ 15.98
23740	Painter, Aircraft	$ 15.98
23760	Painter, Maintenance	$ 15.98
23790	Pipefitter, Maintenance	$ 16.62
23800	Plumber, Maintenance	$ 15.98
23820	Pneudraulic Systems Mechanic	$ 16.62
23850	Rigger	$ 16.62
23870	Scale Mechanic	$ 15.32
23890	Sheet-Metal Worker, Maintenance	$ 16.62
23910	Small Engine Mechanic	$ 15.32
23930	Telecommunications Mechanic I	$ 16.62
23931	Telecommunications Mechanic II	$ 17.27
23950	Telephone Lineman	$ 16.62
23960	Welder, Combination, Maintenance	$ 16.62
23965	Well Driller	$ 16.62
23970	Woodcraft Worker	$ 16.62
23980	Woodworker	$ 13.98
Personal Needs Occupations:		
24570	Child Care Attendant	$ 9.45
24580	Child Care Center Clerk	$ 11.79
24600	Chore Aide	$ 7.90
24630	Homemaker	$ 13.10
Plant and System Operation Occupations:		
25010	Boiler Tender	$ 16.62
25040	Sewage Plant Operator	$ 15.95
25070	Stationary Engineer	$ 16.62
25190	Ventilation Equipment Tender	$ 12.98
25210	Water Treatment Plant Operator	$ 15.95
Protective Service Occupations:		
27004	Alarm Monitor	$ 6.87

27006 Corrections Officer	$ 21.08
27010 Court Security Officer	$ 21.08
27040 Detention Officer	$ 21.08
27070 Firefighter	$ 17.41
27101 Guard I	$ 6.15
27102 Guard II	$ 6.87
27130 Police Officer	$ 21.15
Stevedoring/Longshoremen Occupational Services:	
28010 Blocker and Bracer	$ 15.74
28020 Hatch Tender	$ 15.74
28030 Line Handler	$ 15.74
28040 Stevedore I	$ 15.10
28050 Stevedore II	$ 16.34
Technical Occupations:	
29010 Air Traffic Control Specialist, Center 2/	$ 25.16
29011 Air Traffic Control Specialist, Station 2/	$ 17.36
29012 Air Traffic Control Specialist, Terminal 2/	$ 19.11
29023 Archeological Technician I	$ 15.30
29024 Archeological Technician II	$ 15.88
29025 Archeological Technician III	$ 21.20
29030 Cartographic Technician	$ 21.20
29035 Computer Based Training (CBT) Specialist/Instructor	$ 19.85
29040 Civil Engineering Technician	$ 21.20
29061 Drafter I	$ 12.25
29062 Drafter II	$ 13.75
29063 Drafter III	$ 16.43
29064 Drafter IV	$ 21.20
29081 Engineering Technician I	$ 11.78
29082 Engineering Technician II	$ 13.23
29083 Engineering Technician III	$ 14.80
29084 Engineering Technician IV	$ 18.33
29085 Engineering Technician V	$ 22.42
29086 Engineering Technician VI	$ 27.12
29090 Environmental Technician	$ 16.75
29100 Flight Simulator/Instructor (Pilot)	$ 23.85
29150 Graphic Artist	$ 19.85
29160 Instructor	$ 19.85
29210 Laboratory Technician	$ 15.08
29240 Mathematical Technician	$ 18.33
29361 Paralegal/Legal Assistant I	$ 13.68
29362 Paralegal/Legal Assistant II	$ 15.95
29363 Paralegal/Legal Assistant III	$ 19.51
29364 Paralegal/Legal Assistant IV	$ 23.61
29390 Photooptics Technician	$ 18.33
29480 Technical Writer	$ 23.60
29491 Unexploded Ordnance Technician I	$ 15.99
29492 Unexploded Ordnance Technician II	$ 19.35
29493 Unexploded Ordnance Technician III	$ 23.19
29494 Unexploded Safety Escort	$ 15.99
29495 Unexploded Sweep Personnel	$ 15.99
29620 Weather Observer, Senior 3/	$ 16.74
29621 Weather Observer, Combined Upper Air & Surface Programs 3/	$ 15.08
29622 Weather Observer, Upper Air 3/	$ 15.08
Transportation/Mobile Equipment Operation Occups:	
31030 Bus Driver	$ 14.98
31260 Parking and Lot Attendant	$ 6.17
31290 Shuttle Bus Driver	$ 8.34
31300 Taxi Driver	$ 7.75
31361 Truckdriver, Light Truck	$ 8.77
31362 Truckdriver, Medium Truck	$ 15.82
31363 Truckdriver, Heavy Truck	$ 14.69
31364 Truckdriver, Tractor-Trailer	$ 14.69
Miscellaneous Occupations:	
99020 Animal Caretaker	$ 10.85

99030	Cashier	$ 7.72
99041	Carnival Equipment Operator	$ 11.75
99042	Carnival Equipment Repairer	$ 12.66
99043	Carnival Worker	$ 8.91
99050	Desk Clerk	$ 9.45
99095	Embalmer	$ 15.99
99300	Lifeguard	$ 8.42
99310	Mortician	$ 15.99
99350	Park Attendant (Aide)	$ 9.82
99400	Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	$ 8.42
99500	Recreation Specialist	$ 13.10
99510	Recycling Worker	$ 11.75
99610	Sales Clerk	$ 8.42
99620	School Crossing Guard (Crosswalk Attendant)	$ 8.91
99630	Sports Official	$ 8.42
99658	Survey Party Chief (Chief of Party)	$ 14.11
99659	Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	$ 10.21
99660	Surveying Aide	$ 7.44
99690	Swimming Pool Operator	$ 13.87
99720	Vending Machine Attendant	$ 11.75
99730	Vending Machine Repairer	$ 13.87
99740	Vending Machine Repairer Helper	$ 11.75

** Fringe Benefits Required For All Occupations Included In This Wage Determination **

HEALTH & WELFARE: $1.39 per hour or $55.60 per week or $240.93 per month.

VACATION: Two weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years; 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 contractor in the performance of similar work at the same Federal facility. (Reg. 4.173)

HOLIDAYS: 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)

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 29 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 employee (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 preium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

** 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 $4.25 per week (or $.85 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.

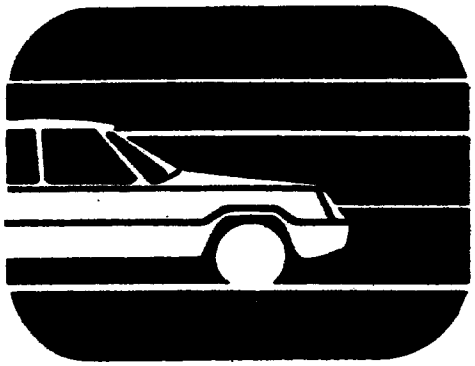
** NOTES APPLYING TO THIS WAGE DETERMINATION **

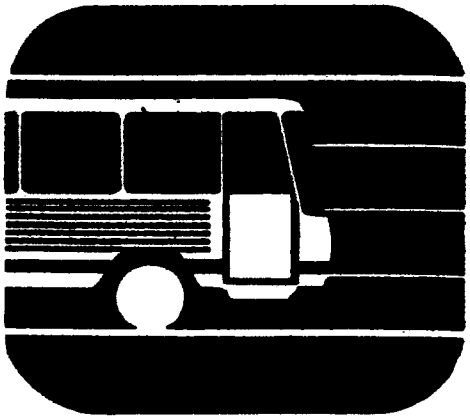
Source of Occupational Titles and Descriptions:
The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Second Supplement, dated August 1995, unless otherwise indicated. This publication 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) and computes a proposed rate).
2) After contract award, the contractor prepares a written report listing in order proposed classification title), a Federal grade equivalency (FGE) for each proposed classification), job description), and rationale for proposed wage rate), 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

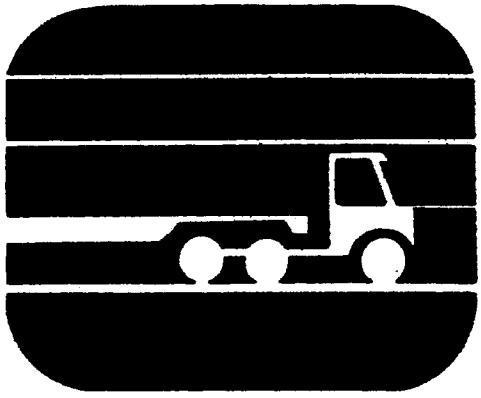
contract work.
3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, 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 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.

Naval Facilities Engineering Command
200 Stovall Street
Alexandria, Virginia 22332-2300





Management of Transportation Equipment



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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

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.