**DELIVERY ORDER**

**1. CONTRACT NO.**
N00178-04-D-4073

**2. DELIVERY ORDER NO.**
FD0103

**3. EFFECTIVE DATE**
08/30/2005

**4. PURCHASE REQUEST NO.**
N00167-06-MR-57253

**5. ISSUED BY CODE**
N00167

**6. ADMINISTERED BY CODE**
S2404A

**NSWC, CARDEROCK DIVISION, MARYLAND**
Laura Rider 3322
9500 MacArthur Blvd
West Bethesda, MD 20817

**DCMA VIRGINIA**
10500 BATTLEVIEW PARKWAY, SUITE 200
MANASSAS, VA 20109-2342

**7. CONTRACTOR CODE**
4K920

**FACILITY**

**8. DELIVERY DATE**
See Section F

**9. CLOSING DATE/TIME**

**10. MAIL INVOICES TO**
See Section G

**11. SHIP TO**
See Section D

**12. PAYMENT WILL BE MADE BY**
HQ0338

**13. TYPE OF ORDER**
D X

This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above-numbered contract.

**14. ACCOUNTING AND APPROPRIATION DATA**
See Section G

**15. ITEM NO.**

**16. SCHEDULE OF SUPPLIES/SERVICES**

**17. QUANTITY ORDERED/ACCEPTED**

**18. UNIT**

**19. UNIT PRICE**

**20. AMOUNT**

See the Following Pages

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.*

**21. U.S. STATUTORY ADDRESS**

By: [Signature]

**22. TOTAL**

[Signature]

06/22/2006

**CONTRACTING/ORDERING OFFICER**

**SECTION DESCRIPTION**

**SECTION DESCRIPTION**

A SUPPLIES OR SERVICES AND PRICES/COSTS

SPECIAL CONTRACT REQUIREMENTS

B DESCRIPTION/SPS/COSTS

C CONTRACT CLAUSES

D PACKAGING AND MARKING

LIST OF ATTACHMENTS

E INSPECTION AND ACCEPTANCE

F DELIVERIES OR PERFORMANCE

G CONTRACT ADMINISTRATION DATA
The purpose of this modification is to (a) revise the amounts provided on the funding SLINs added under modification FD0102 (with the exception of SLINs 1000AQ and 1000AT) and add new SLINs 3000AL through 3000AR, and (b) add an increment of funding in the amount of and incorporate funding SLINs. Accordingly, said Task Order is modified as follows:

(a) The amounts on the SLINs added by modification FD0102 are hereby revised and new SLINs 3000AL through 3000AR are added to this task order as follows:

<table>
<thead>
<tr>
<th>SLIN</th>
<th>FROM</th>
<th>BY</th>
<th>REVISED AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000AJ</td>
<td>$1,549</td>
<td>$11,151</td>
<td>$12,700</td>
</tr>
<tr>
<td>1000AK</td>
<td>$53,900</td>
<td>($2,695)</td>
<td>$51,205</td>
</tr>
<tr>
<td>1000AL</td>
<td>$42,356</td>
<td>$153,154</td>
<td>$195,510</td>
</tr>
<tr>
<td>1000AM</td>
<td>$88,200</td>
<td>($4,410)</td>
<td>$83,790</td>
</tr>
<tr>
<td>1000AN</td>
<td>$117,600</td>
<td>($5,880)</td>
<td>$111,720</td>
</tr>
<tr>
<td>1000AP</td>
<td>$137,200</td>
<td>($6,860)</td>
<td>$130,340</td>
</tr>
<tr>
<td>1000AQ</td>
<td>$24,500</td>
<td>0</td>
<td>$24,500</td>
</tr>
<tr>
<td>1000AR</td>
<td>$196,000</td>
<td>($9,800)</td>
<td>$186,200</td>
</tr>
<tr>
<td>1000AS</td>
<td>$58,800</td>
<td>($2,940)</td>
<td>$55,860</td>
</tr>
<tr>
<td>1000AT</td>
<td>$24,500</td>
<td>0</td>
<td>$24,500</td>
</tr>
<tr>
<td>3000AJ</td>
<td>$13,151</td>
<td>($11,151)</td>
<td>$2,000</td>
</tr>
<tr>
<td>3000AK</td>
<td>$163,444</td>
<td>($153,154)</td>
<td>$10,290</td>
</tr>
<tr>
<td>3000AL</td>
<td>0</td>
<td>$2,695</td>
<td>$2,695</td>
</tr>
<tr>
<td>3000AM</td>
<td>0</td>
<td>$4,410</td>
<td>$4,410</td>
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<tr>
<td>3000AN</td>
<td>0</td>
<td>$5,880</td>
<td>$5,880</td>
</tr>
<tr>
<td>3000AP</td>
<td>0</td>
<td>$6,860</td>
<td>$6,860</td>
</tr>
<tr>
<td>3000AQ</td>
<td>0</td>
<td>$9,800</td>
<td>$9,800</td>
</tr>
<tr>
<td>3000AR</td>
<td>0</td>
<td>$2,940</td>
<td>$2,940</td>
</tr>
</tbody>
</table>

Accordingly, Sections B and G are revised to change the amount on the SLINs and add new SLINs 3000AL through 3000AR as follows:

<table>
<thead>
<tr>
<th>SLIN</th>
<th>AMOUNT</th>
<th>REQUISITION NO.</th>
<th>ACRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000AJ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AQ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AJ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000AQ</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Total Amount $921,000

(b) Pursuant to FAR Clause 53.232-22 "Limitation of Funds", this modification adds an increment of funds in the amount of $254,000 and increases the incremental funding provided from $1,500,200 by $254,000 to $1,754,200. Accordingly, Sections B and G are revised to add the following SLINs:

<table>
<thead>
<tr>
<th>SLIN</th>
<th>AMOUNT</th>
<th>REQUISITION NO.</th>
<th>ACRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000AU</td>
<td>$164,000</td>
<td>61227500</td>
<td>AS</td>
</tr>
<tr>
<td>1000AV</td>
<td>$32,300</td>
<td>61227350</td>
<td>AT</td>
</tr>
<tr>
<td>3000AS</td>
<td>$56,000</td>
<td>61227500</td>
<td>AS</td>
</tr>
<tr>
<td>3000AT</td>
<td>$1,700</td>
<td>61227350</td>
<td>AT</td>
</tr>
</tbody>
</table>

Total Amount: $254,000

A conformed copy of this Task Order is attached to this modification for information purposes only.
SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For Cost Type Items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Supplies/Services Qty</th>
<th>Unit Est. Cost</th>
<th>Fixed Fee</th>
<th>CPFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>Unfunded amount of CLIN 1000 (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AA</td>
<td>RDT&amp;E Funds for CLIN 1000, Propulsion Design and Development Tasking in accordance with Section 2.2 of the SOW (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AC</td>
<td>RDT&amp;E Funds for CLIN 1000, Propulsion Management and Support Tasking in accordance with Section 2.3 of the SOW (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AD</td>
<td>RDT&amp;E Funds for CLIN 1000, Section 2.1 of the SOW, Propulsion Design and Development (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AE</td>
<td>RDT&amp;E Funds for CLIN 1000, Section 2.2 of the SOW, Propulsion Prototypes (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AF</td>
<td>SCN Funds for CLIN 1000, Section 2.3 of the SOW, Propulsion Mfg. (SCN) (SCN)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLIN</td>
<td>Supplies/Services</td>
<td>Qty</td>
<td>Unit Est. Cost</td>
<td>Fixed Fee</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------</td>
<td>-----</td>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>1000AH</td>
<td>RDT&amp;E Funds for CLIN 1000, Section 2.1 of the SOW</td>
<td>1.0 Lot</td>
<td>$145,056</td>
<td>$8,544</td>
</tr>
<tr>
<td>1000AJ</td>
<td>Design and Development Funds for CLIN 1000, Section 2.5 of the SOW</td>
<td>1.0 Lot</td>
<td>$12,202</td>
<td>$678</td>
</tr>
<tr>
<td>1000AK</td>
<td>SCN Funds for CLIN 1000, Section 2.3 of the SOW</td>
<td>1.0 Lot</td>
<td>$48,360</td>
<td>$2,845</td>
</tr>
<tr>
<td>1000AM</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$184,648</td>
<td>$10,862</td>
</tr>
<tr>
<td>1000AN</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$105,513</td>
<td>$6,207</td>
</tr>
<tr>
<td>1000AP</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$123,099</td>
<td>$7,241</td>
</tr>
<tr>
<td>1000AQ</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$23,139</td>
<td>$1,361</td>
</tr>
<tr>
<td>1000AR</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$175,856</td>
<td>$10,344</td>
</tr>
<tr>
<td>1000AS</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW</td>
<td>1.0 Lot</td>
<td>$52,757</td>
<td>$3,103</td>
</tr>
</tbody>
</table>
SECTION 2.3 OF SOW (SCN)

<table>
<thead>
<tr>
<th>Item</th>
<th>Supplies/Services Qty</th>
<th>Unit Est. Cost</th>
<th>Fixed Fee</th>
<th>CPFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000AT</td>
<td>SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF SOW (SCN)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AU</td>
<td>Incremental RDT&amp;E Funds for Task 2.1, Propulsor Design and Development (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1000AV</td>
<td>Incremental RDT&amp;E Funds for Task 2.5, Propulsor Management and Life Cycle Support (RDT&amp;E)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For ODC Items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Supplies/Services Qty</th>
<th>Unit Est. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>Other Direct Costs (Materials, Travel, and other Non-Labor Costs) to support CLIN 1000, with a not-to-exceed amount of $137,280 per year for a total of $411,840 over the three years of performance.</td>
<td></td>
</tr>
<tr>
<td>3000AA</td>
<td>Unfunded Amount of CLIN 3000 (RDT&amp;E)</td>
<td></td>
</tr>
<tr>
<td>3000AB</td>
<td>RDT&amp;E Funds for ODC's in support of Propulsor Design and Development, Section 2.1 of the SOW (RDT&amp;E)</td>
<td></td>
</tr>
<tr>
<td>3000AC</td>
<td>RDT&amp;E Funds for ODC's in support of Section 2.5 of the SOW, Propulsor Management and Life Cycle Support (RDT&amp;E)</td>
<td></td>
</tr>
<tr>
<td>3000AD</td>
<td>RDT&amp;E Funds for ODC's in support of Section 2.1 of the SOW, Propulsor Design and Development (RDT&amp;E)</td>
<td></td>
</tr>
<tr>
<td>3000AE</td>
<td>RDT&amp;E Funds for ODC's in support of Section 2.2 of the SOW, Propulsor Prototypes (RDT&amp;E)</td>
<td></td>
</tr>
<tr>
<td>3000AF</td>
<td>SCN Funds for</td>
<td></td>
</tr>
</tbody>
</table>
ODCs in support of Section 2.3 of the SOW, Propulsor Mfg. (SCN) (SCN)

3000AJ RDT&E Funds for ODCs in support of Section 2.2 of the SOW, Propulsor Prototypes (RDT&E) (RDT&E)

3000AI RDT&E Funds for ODCs in support of Section 2.1 of the SOW, Propulsor Design and Development (RDT&E) (RDT&E)

3000AJ RDT&E Funds for ODC’s in support of Section 2.5 tasking (RDT&E)

3000AK SCN funds for ODCs in support of Section 2.3 SOW tasking (SCN)

3000AL Incremental Funding - RDT&E - $2695 (RDT&E)

3000AM Incremental Funding - SCN - $6,400 (SCN)

3000AN Incremental Funding - SCN - $5,880 (SCN)

3000AP Incremental Funding - SCN - $6,860 (SCN)

3000AQ Incremental Funds - SCN - $9,800 (SCN)

3000AR Incremental Funds - SCN - $2,940 (SCN)

3000AS Incremental RDT&E Funds for Task 2.1, Propulsor Design and Development (RDT&E)

3000AT Incremental RDT&E Funds for Task 2.5, Propulsor Management and Life Cycle Support (RDT&E)

CLIN 1000 - Fully Burdened Labor plus Fixed Fee:

JJMA proposed a total pass through to their approved team member Propulsor Technology Inc. (PTI) to satisfy the labor requirements for this acquisition. A 2.0% M&S rate was negotiated for JJMA to apply to PTI’s fully burdened labor costs (exclusive of fee) and is an allowable cost on this task order. A 6.0% fixed fee was negotiated for PTI’s fully burdened labor costs (inclusive of direct labor, fringe, and overhead). G&A was not proposed by either JJMA or PTI and is not an allowable cost under this task order.

CLIN 1000 - Fully Burdened Labor and Fixed Fee - The level of effort for the performance of this task order and the estimated costs plus fixed fee amount of this CLIN is based on an anticipated _______ man-hours for each year of performance for a total of _______ hours over the three year period of performance as identified below.
Labor Category                      Hours (YR 1)  Hours (YR 2)  Hours (YR 3)
Program Manager                  725            725            725
Design Project Eng.             850            850            850
Software Project Eng.           550            550            550
Senior Manufacturing Eng.       1265          1265          1265
Senior Mechanical Eng.          235            235            235
Senior Software Eng.            600            600            600
Mechanical Eng.                 450            450            450
Mechanical Designer             950            950            950
Senior Technician               825            825            825
Senior Logistician              1275          1275          1275

CLIN 3000 - Other Direct Costs (Travel, material, and other allowable expenses) are non-fee bearing. The Government specified a Not-to-Exceed amount of $137,280 per year for a total of $411,840 over the three years of performance for Other Direct Costs, inclusive of all indirect costs in accordance with the contractor's DCAA approved accounting system.
SECTION C DESCRIPTIONS AND SPECIFICATIONS

STATEMENT OF WORK

1.0 INTRODUCTION

The contractor shall provide technical support services for the design, development, manufacture, installation, inspection, and ILS of advanced propulsors and standard Navy propellers. This technical support shall be provided to NSWCCD Codes 508, 6102, 724, and 9323. Support activities fall into five functional areas.

2.0 REQUIREMENTS

2.1 Propulsor Design and Development (RDT&E Tasking)

This functional area involves technical support to the hydrodynamic, structural, and acoustic codes at NSWCCD involving advanced propulsor design development for Navy Submarines. The contractor shall provide design models and detailed drawings, specifications, designs and prototypes for acoustic features, inspection and tolerance requirements, and design inspection points and splines. The contractor shall also perform finite element analyses, fatigue methodology evaluations, crash-back stress analysis, manufacturability evaluations, and evaluations of hydrodynamic design surface models.

The contractor shall develop propeller drawings, design propeller gauges, and develop standard gauge drawings. The contractor shall be required to perform the following tasks: importing IGES files and performing surface validation, developing the cylindrical section splines, incorporating latest guidance changes from NSWC, developing the table of offsets in accordance with the Navy Standard Drawing, developing all hydrodynamic parameter values, and designing special feature details and dimensions and associated installation procedures.

This functional area also includes providing technical support to the hydrodynamic, manufacturing, and program office codes at NSWCCD involving advanced propulsor manufacturing technology for Navy Submarines. The contractor shall provide technical support and evaluations in the areas of foundry technology and practice, advanced inspection technology, and producibility improvements.

2.2 Propulsor Prototypes (RDT&E Tasking)

The contractor shall design and procure prototype propulsor special features, unique inspection gauges, and specialized tooling to support NSWC testing and prototype propulsor manufacturing.

Specific activities and the deliverables shall include:
- Verify accurate transfer of the design of record by use of Praxiteles Geometric Modeling Software and the VA Class Design Transfer Specification.
- Design gauges to satisfy dimensional requirements including 3D model of tip attachment gauges.
- Establish tolerances that will ensure that their application or use will satisfy final certification that the part is in tolerance.
- Perform FEA to insure structural and shock load adequacy, or for gauges and tooling, that the distortion from use does not impact the function or the inspection results.
- Produce detailed manufacturing drawings and a procurement specification.
- Evaluate potential vendors and procure equipment based on manufacturing capabilities, delivery, and price.
- Obtain a full set of certification paperwork from manufacturer.
- Write application procedures to instruct the user.

2.3 Propulsor Manufacturing Engineering (SCN Tasking)

This functional area involves providing technical support during the manufacture and inspection of the rotor and fixed propulsor. Technical support activities include:
- Engineering review of changes to manufacturing plans, procedures, and tooling concepts.
- Support the use of PROPVAL inspection analysis software at NFPC. Modify the computer program and
design files to accommodate changes to the hydrodynamic design of a rotor, and changes to required tolerances, analysis requirements, and computer output graphics.

- Review manufacturing waiver and deviation requests and provide recommendations for disposition.
- Evaluate and analyze hydrodynamic contour deviations and provide part specific analyses to hydrodynamic designers.
- Review and evaluate design changes in the form of Configuration Control Requests (CCRs) or Engineering Report Forms (ERF) and prepare and submit ERF/CCRs for required drawing changes.
- Evaluate manufacturer's inspection plans and proposed inspection processes for compliance with drawing I-Points and specified tolerances.
- Analyze dimensional inspection data from the Automated Propeller Optical Measurement System (APOMS) laser scanner for surface coverage, data density, and adherence to specified tolerances. Determine cropping angles for scans to minimize shingling, but maintain coverage.
- Evaluate tooling inspection data to certify use for hydrodynamic inspection.
- Using demonstrated analysis software and modeling techniques, perform computer simulations of casting solidification and provide evaluations of casting shrinkage and cooling rates to NFPC along with recommendations for improvements in mold design.
- Evaluate machining process plans and methodology and provide input in achieving tolerances.
- Provide technical support during final assembly operations. Analyze final assembly inspection data to determine as-built hydrodynamic parameter deviations. Support the use of ASQUAL analysis software.
- Review detailed manufacturing schedules for realism and consistency with experience, provide tracking schedules, and make recommendations for productivity improvements.

2.4 Propulsor Production Metrics (SCN Tasking)
This functional area involves the evaluation, analysis, and tracking of propulsor manufacturing and inspection data for the purpose of monitoring production processes, and documenting the as-built condition of propulsor components. Specific activities include
- Track hydrodynamic parameter and contour deviations over time on rotor and stator blades.
- Analyze hydrodynamic and non-hydrodynamic deviations using statistical process control parameters. Provide evaluations and recommendations regarding the findings.
- Identify appropriate content for VA Class As-Built Database and input data.
- Determine final as-built hydrodynamic parameters for blade assembly deviations using ASPAR software.
- Compare manufactured deviations of hydrodynamic contours to those of tested LSV rotors.

2.5 Propulsor Management and Life Cycle Support (RDT&E Tasking)
The contractor shall provide program management support for propulsor programs and life cycle support for advanced propulsors.
The program management activities include:
- Risk analysis
- Strategic plans and acquisition strategy
- Readiness evaluations
- Manufacturing and project schedule development
- Manufacturing and development cost estimates.
- Life cycle technical support activities include:
- Maintenance requirements, manuals, and procedures
- Training programs
- Repair tooling and gauge design, drawings, and procedure development
o ILS requirements and support of spare storage facilities
o SRA planning, support, and inspection activities
o Procedures, software, and forms for field and repair inspections
o Evaluation of repair and change-out facilities

3.0 PERSONNEL

The contractor shall provide the following labor categories with the experience and qualifications identified below:

(a) ADVANCED SUBMARINE PROPULSOR PROGRAM MANAGER (KEY PERSON)

The Program Manager shall have:

1. Minimum of 25 years of technical and program management related experience. At least 15 years experience shall be directly related to the design, manufacturing, inspection and ILS for US Navy submarine propulsors.
2. Experience leading propulsor projects including: development of custom software for analyzing the geometric tolerances, implementation of propulsor ILS and training, and development and implementation tolerances and inspection process for both propulsor manufacturing and repair.
3. Bachelor's degree in engineering or science from an accredited college. Master's degree in engineering or science or an MBA.

(b) ADVANCED SUBMARINE PROPULSOR DESIGN PROJECT ENGINEER (KEY PERSON)

The Project Design Engineer shall have:

1. Minimum of 15 years technical experience directly related to the design, production, and repair of US Navy submarine propulsors. At least 5 years of that experience should be at an actual propeller manufacturing facility.
2. Experience leading propulsor design projects including 3D CAD modeling, manufacturing drawings, finite element structural analysis, acoustic feature design, computer-aided casting simulation, casting mold design, inspection tooling and gage design, and rotating unbalance vibration analysis.
3. Master's degree in science or engineering from an accredited college.

(c) ADVANCED SUBMARINE PROPULSOR SOFTWARE PROJECT ENGINEER (KEY PERSON)

The Software Project Engineer shall have:

1. Minimum of 15 years of technical experience directly related to the development of software for propulsor geometric inspection and analysis.
2. Experience leading propulsor manufacturing and inspection software projects including manipulation/interrogation of 3D NURBS surface geometry, analysis of laser inspection cloud data, 6 degree-of-freedom localization algorithms, and propulsor hydrodynamic parameter computation and analysis. Specific experience with the US Navy's Praxiteles, and PropVal software packages is required.
3. Master's degree in engineering, computer science or mathematics from an accredited college.

(d) SENIOR MANUFACTURING ENGINEER (NON-KEY PERSON)

The Senior Manufacturing Engineer shall have:

1. Minimum of 10 years technical experience directly related to the production, repair, inspection and maintenance of US Navy submarine propulsors. Must have experience with the USS Virginia Class Propulsor Configuration Control Request database (CCR), the USS Seawolf Class Propulsor Engineering Report Form database (ERF), and Advanced Propulsor As-Built databases.
2. Bachelor's Degree in Science or Engineering from an accredited college.

(e) SENIOR MECHANICAL ENGINEER (NON-KEY PERSON)

The Senior Mechanical Engineer shall have:

1. Minimum of 10 years technical experience directly related to the production, repair, inspection and
maintenance of US Navy submarine propulsors or similar turbo-machinery.

2. Bachelor's Degree in Engineering from an accredited college.

(f) SENIOR SOFTWARE ENGINEER (NON-KEY PERSON)

The Senior Software Engineer shall have:

1. Minimum of 10 years of technical experience directly related to the development of software for US Navy propulsor geometric inspection and analysis.
2. Bachelor's Degree in Engineering, Computer Science or Mathematics from an accredited college.

(g) MECHANICAL ENGINEER (NON-KEY PERSON)

The Mechanical Engineer shall have:

1. Minimum of 2 years of engineering experience directly related to the design, analysis, inspection and ILS for US Navy submarine propulsors and tooling.
2. Bachelor's Degree in Engineering from an accredited college.

(h) MECHANICAL DESIGNER (NON-KEY PERSON)

The Mechanical Designer shall have:

1. Minimum of 2 years of 3D CAD design experience related to the design, manufacturing, inspection and ILS for US Navy submarine propulsors and tooling. Must have experience with complex CAD surface design and analysis.
2. Associate Degree in Engineering or Computer Technology.

(i) SENIOR TECHNICIAN (NON-KEY PERSON)

The Senior Technician shall have:

1. Minimum of 20 years related experience with a minimum of 5 years active duty submarine experience. Must have experience in development and maintenance of configuration management databases and Gantt charts for propulsor manufacturing and ILS projects.
2. Associate Degree in Engineering or Computer Technology, or equivalent military training.

(j) SENIOR LOGISTICIAN (NON-KEY PERSON)

The Senior Logistician shall have:

1. Minimum of 20 years related technical experience with a minimum of 5 years active duty submarine experience. Must have experience in development of advanced propulsor as-built configuration databases, propulsor spare parts and tooling databases, and evaluation of industrial facility overhaul/change-out capabilities for propulsors.
2. Associate Degree in Engineering or Computer Technology, or equivalent military training.

4.0 SECURITY REQUIREMENTS

A Secret Facilities Clearance is required. In addition, all Key Persons shall have a current Secret Security Clearance.

5.0 PERIOD OF PERFORMANCE

The Period of Performance under this Task Order shall be from effective date of award (Block 3 of the Delivery Order Form) through three years thereafter.

6.0 DELIVERABLES

The schedule for deliverables is subject to change by the issuance of technical instruction or a modification to this task order.
<table>
<thead>
<tr>
<th>Step Description</th>
<th>Time Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propulsor Design &amp; Development</td>
<td>Monthly status 8 months, 20 months, and 32 months after the effective date of order</td>
</tr>
<tr>
<td>Detailed Dwg Package</td>
<td>Monthly status 8 months, 20 months, and 32 months after the effective date of order</td>
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<tr>
<td>Propulsor Prototypes</td>
<td>9 months, 21 months, and 33 months after the effective date of the order</td>
</tr>
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<td>Manuf. Application Procedures</td>
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<td>Monthly Status Reports</td>
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<tr>
<td>Propulsor Manufacturing Engineering</td>
<td>Monthly Status</td>
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<tr>
<td>Technical Integration and Support</td>
<td></td>
</tr>
<tr>
<td>Propulsor Production Metrics</td>
<td>Updated VA Class As-Built Database</td>
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<tr>
<td>Report on Productions Metrics</td>
<td>Interim Report</td>
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<tr>
<td>Final Report</td>
<td>Final Report</td>
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<tr>
<td>Training Manuals and Training Program</td>
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<tr>
<td>Repair Manuals</td>
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<td>12 months, 24 months, and 36 months after the effective date of the order</td>
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<tr>
<td></td>
<td>10 months, 22 months, and 34 months after the effective date of the order</td>
</tr>
</tbody>
</table>
SECTION D PACKAGING AND MARKING

Packaging and Marking shall be in accordance with Section D of the base IDIQ contract.

Ship to Address for Block II, Page 1:
Naval Surface Warfare Center, Carderock Division
Attn: Code 70
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700
SECTION E INSPECTION AND ACCEPTANCE

Inspection and Acceptance shall be performed at Destination by the Government, and in accordance with the terms of the base contract.
SECTION F DELIVERIES OR PERFORMANCE

The period of performance for this task order is from the effective date of the order through three (3) years thereafter.

Deliverables shall be made in accordance with Section C and technical instructions provided by the Contracting Officer.
## sectional g contract administration data

### accounting data

<table>
<thead>
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<th>Incremental Funding</th>
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**CONTRACT NO.**
N00178-04-D-4073

**DELIVERY ORDER NO.**
FD0103

**PAGE**
14 of 23
1000AK 60449157
LLA : 
AJ 97X4930 NHIC 000 77777 0 000167 2F 000000 061508038290
RDT&E Funds for Section 2.5 of the SOW
3000AO 60449267
LLA
AJ 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039490
SCF FUNDS FOR SECTION 2.3 OF THE SOW

1000AN 60449199
LLA
AJ 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039590
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AR 60449290
LLA
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SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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RDT&E Funds for Section 2.5 of the SOW

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LLA : 
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RDT&E Funds for Section 2.5 of the SOW

1000AL 60449267
LLA
AM 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039790
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AN 60449267
LLA
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SCN FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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SCF FUNDS FOR SECTION 2.3 OF THE SOW

196000.00
000 77777 0 000167 2F 000000 061508039491

RDT&E FUNDS FOR ODC'S IN SUPPORT OF SECTION 2.5 SOW TASKING

MOD 3
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RDT&E Funds for Section 2.5 SOW tasking

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AP 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039791
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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RDT&E Funds for Section 2.5 SOW tasking

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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AN 60449267
LLA
AM 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039790
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AR 60449305
LLA
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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
AQ 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039791
RDT&E Funds for Section 2.5 SOW tasking

1000AT 60449305
LLA
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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AO 60449267
LLA
AL 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039491
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AN 60449267
LLA
AM 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039790
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
AN 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039791
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
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RDT&E Funds for Section 2.5 SOW tasking

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SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

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LLA
AL 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039491
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AN 60449267
LLA
AM 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039790
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW

1000AR 60449305
LLA
AN 97X4930 NHIC 000 77777 0 000167 2F 000000 061508039791
SCF FUNDS FOR CLIN 1000, SECTION 2.3 OF THE SOW
A copy of every invoice shall also be provided to the individuals listed below, at the address shown:

Task Order Manager:
Naval Surface Warfare Center, Carderock Division
Attn: Code 7207
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700

Finance:
Naval Surface Warfare Center, Carderock Division
Attn: Code Code 31
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700

DCAA: The contractor's cognizant DCAA office

Contract Administration Data is as follows:
Task Order Manager
CONTRACT NO. N00178-04-D-4073
DELIVERY ORDER NO. FD0103
PAGE 17 of 23

Naval Surface Warfare Center, Carderock Division
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700
301-227-1520

Contracting Officer: or any NSWCCD Warranted Contracting Officer
Naval Surface Warfare Center, Carderock Division
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700
301-227-3487

Contract Specialist:
Naval Surface Warfare Center, Carderock Division
9500 MacArthur Blvd.
West Bethesda, MD 20817-5700
301-227-5821

NAVSEA 5252.232-9104 ALLOTMENT OF FUNDS (MAY 1993)

(a) This contract is incrementally funded with respect to both cost and fee. The amount(s) presently available and allotted to this contract for payment of fee for incrementally funded contract item number/contract subline item number (CLIN/SLIN), subject to the clause entitled “FIXED FEE” (FAR 52.216-8) or “INCENTIVE FEE” (FAR 52.216-10), as appropriate, is specified below. The amount(s) presently available and allotted to this contract for payment of cost for incrementally funded CLINs/SLINs is set forth below. As provided in the clause of this contract entitled “LIMITATION OF FUNDS” (FAR 52.232-22), the CLINs/SLINs covered thereby, and the period of performance for which it is estimated the allotted amount(s) will cover are as follows:

<table>
<thead>
<tr>
<th>ITEM(S)</th>
<th>ALLOCATED TO COST</th>
<th>ALLOCATED TO FEE</th>
<th>PERIOD OF PERFORMANCE</th>
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(b) The parties contemplate that the Government will allot additional amounts to this contract from time to time for the incrementally funded CLINs/SLINs by unilateral contract modification, and any such modification shall state separately the amount(s) allotted for cost, the amount(s) allotted for fee, the CLINs/SLINs covered thereby, and the period of performance which the amount(s) are expected to cover.

(c) CLINs/SLINs 0001AB-0001AV and 0003AB-0003AT are fully funded and performance under these CLINs/SLINs is subject to the clause of this contract entitled “LIMITATION OF COST” (FAR 52.232-20) or “LIMITATION OF COST (FACILITIES)” (FAR 52.232-21), as applicable.

(d) The Contractor shall segregate costs for the performance of incrementally funded CLINs/SLINs from the costs of performance of fully funded CLINs/SLINs.

NAYSEA 5252.216-9122 LEVEL OF EFFORT (JUL 1986)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in Sections B and C of this contract. The total level of effort for the performance of this contract shall be 23,175 total man-hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor’s proposal as having hours included in the proposed level of effort.

(b) Of the total man-hours of direct labor set forth above, it is estimated that ZERO (0) man-hours are uncompensated effort.

Uncompensated effort is defined as hours provided by personnel in excess of 40 hours per week without additional compensation for such excess work. All other effort is defined as compensated effort. If no effort is indicated in the first sentence of this paragraph, uncompensated effort performed by the Contractor shall not be counted in fulfillment of the level of effort obligations under this contract.

(c) Effort performed in fulfilling the total level of effort obligations specified above shall only include effort performed in direct support of this contract and shall not include time and effort expended on such things as (local travel to and from an employee’s usual work location), uncompensated effort while on travel status, truncated lunch periods, work (actual or inferred) at an employee’s residence or other non-work locations, or other time and effort which does not have a specific and direct contribution to the tasks described in Sections B and C.

(d) The level of effort for this contract shall be expended at an average rate of approximately 149 hours per week. It is understood and agreed that the rate of man-hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total man-hours of effort prior to the expiration of the term hereof, except as provided in the following paragraph.

(e) If, during the term hereof, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total man-hours of effort specified above would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fee together with an offer, setting forth a proposed level of effort, cost breakdown, and proposed fee, for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(f) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total man hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. The Contractor shall acknowledge this order within five days of receipt.

(g) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the period of this contract, the Contracting Officer, at its sole discretion, shall either (f) reduce the fee of this contract as follows:

\[\text{Fee Reduction} = \text{Fee} \times \frac{\text{Required LOE} - \text{Expended LOE}}{\text{Required LOE}}\]
or (ii) subject to the provisions of the clause of this contract entitled “LIMITATION OF COST” (FAR 52.232-20) or “LIMITATION OF COST (FACILITIES)” (FAR 52.232-21), as applicable, require the Contractor to continue to perform the work until the total number of man hours of direct labor specified in paragraph (a) above shall have been expended, at no increase in the fee of this contract.

(h) The Contractor shall provide and maintain an accounting system, acceptable to the Administrative Contracting Officer and the Defense Contract Audit Agency (DCAA), which collects costs incurred and effort (compensated and uncompensated, if any) provided in fulfillment of the level of effort obligations of this contract. The Contractor shall indicate on each invoice the total level of effort claimed during the period covered by the invoice, separately identifying compensated effort and uncompensated effort, if any.

(i) Within 45 days after completion of the work under each separately identified period of performance hereunder, the Contractor shall submit the following information in writing to the Contracting Officer with copies to the cognizant Contract Administration Office and to the DCAA office to which vouchers are submitted: (1) the total number of man hours of direct labor expended during the applicable period; (2) a breakdown of this total showing the number of man hours expended in each direct labor classification and associated direct and indirect costs; (3) a breakdown of other costs incurred; and (4) the Contractor’s estimate of the total allowable cost incurred under the contract for the period. Within 45 days after completion of the work under the contract, the Contractor shall submit, in addition, in the case of a cost underrun; (5) the amount by which the estimated cost of this contract may be reduced to recover excess funds and, in the case of an underrun in hours specified as the total level of effort; and (6) a calculation of the appropriate fee reduction in accordance with this clause. All submissions shall include subcontractor information.

*NOTE: A complete breakdown of labor and manning levels based upon the contractor’s approved manyear is provided in Section B.

SEA 5252.242-9115 TECHNICAL INSTRUCTIONS (APR 1999)

(a) Performance of the work hereunder may be subject to written technical instructions signed by the Contracting Officer specified in Section G of this task order. As used herein, technical instructions are defined to include the following:

(1) Directions to the Contractor which suggest pursuit of certain lines of inquiry, shift work emphasis, fill in details or otherwise serve to accomplish the contractual statement of work.

(2) Guidelines to the Contractor which assist in the interpretation of drawings, specifications or technical portions of work description.

(b) Technical instructions must be within the general scope of work stated in the contract. Technical instructions may not be used to: (1) assign additional work under the contract; (2) direct a change as defined in the “CHANGES” clause of this contract; (3) increase or decrease the contract price or estimated contract amount (including fee), as applicable, the level of effort, or the time required for contract performance; or (4) change any of the terms, conditions or specifications of the contract.

(c) If, in the opinion of the Contractor, any technical instruction calls for effort outside the scope of the contract or is inconsistent with this requirement, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after the receipt of any such instruction. The Contractor shall not proceed with the work affected by the technical instruction unless and until the Contractor is notified by the Contracting Officer that the technical instruction is within the scope of this contract.

(d) Nothing in the foregoing paragraph shall be construed to excuse the Contractor from performing that portion of the contractual work statement which is not affected by the disputed technical instruction.

SECTION H SPECIAL CONTRACT REQUIREMENTS

MANDATORY REQUIREMENTS: The personnel assigned to work under this task order must possess a Secret Clearance in accordance with Attachment 1, DD 254, Contract Security Classification Specifications.

H-7 SUBSTITUTION OF TEAM MEMBERS AND SUBSTITUTION OF PERSONNEL
The following employees are hereby approved to work in the following key personnel positions:

<table>
<thead>
<tr>
<th>Name</th>
<th>Key Personnel Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Machin</td>
<td>Advanced Submaring Propulsor Program Manager</td>
</tr>
<tr>
<td>Michael Koehler</td>
<td>Advanced Propulsor Design Project Engineer</td>
</tr>
<tr>
<td>David Allen</td>
<td>Advanced Propulsor Software Project Engineer</td>
</tr>
</tbody>
</table>

In accordance with H-7 of the basic contract, no substitution shall be made without prior modification to and concurrence of the NSWCCD Contracting Officer. Any proposed substitutions shall be made in accordance with H-7 of the basic contract and shall contain the actual hourly rate of the individual proposed for substitution.

CAR-H07 Prospective Fee Amount Reduction Incentive Plan (APR 2004) (NSWCCD)

(a) Introduction: The Government, on an annual basis, will evaluate the contractor’s overall performance on this task order during the previous twelve months to determine if the fee amount should be reduced due to “Unsatisfactory” performance. The first evaluation will cover the period ending twelve months after the effective date of the task order with successive evaluations being performed for each twelve-month period thereafter, if the options are exercised, until the contractor completes performance under the task order. Based on the evaluation results, the Procuring Contracting Officer (PCO) will assign an overall performance rating in accordance with paragraph (b) of this provision. If the PCO assigns an “Unsatisfactory” performance rating the PCO will take unilateral action to provide for a fee reduction in the task order covering the performance period evaluated. This incentive plan provides the basis for evaluation of the contractor’s performance and for determining if the fee amount should be reduced due to “Unsatisfactory” performance.

(b) Performance Ratings: The Government will evaluate the contractor’s overall performance on this task order, and the PCO will assign one of the following ratings:

1. Excellent
2. Very Good
3. Satisfactory
4. Unsatisfactory

The standards associated with these ratings are given in the following Table 1.

Table 1: Overall Performance Ratings

<table>
<thead>
<tr>
<th>Overall Performance Rating Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent: “Excellent” ratings for all performance evaluation criteria.</td>
</tr>
<tr>
<td>Very Good: A combination of “Excellent” and “Satisfactory” ratings determined by the PCO to exceed Satisfactory” overall.</td>
</tr>
<tr>
<td>Satisfactory: A minimum of “Satisfactory” ratings for all performance evaluation criteria.</td>
</tr>
<tr>
<td>Unsatisfactory: A rating of “Unsatisfactory” for one or more performance evaluation criteria.</td>
</tr>
</tbody>
</table>

(c) Incentive Objectives. The purpose of including a prospective fee amount reduction incentive in this task order is to ensure that the Government receives at least “Satisfactory” overall performance.

(d) Performance Evaluation Criteria. The contractor’s overall performance will be evaluated using the criteria and standards provided for each objective in the Statement of Work, and identified in the Performance Based Table which is provided as an attachment.

(e) Organization. The performance evaluation organization consists of the Procuring Contracting Officer (PCO), who will serve as the Incentive Determining Official, and the Task Order Manager (ToM). They will obtain input from the other Government customers associated with that order.

(1) Procuring Contracting Officer (PCO): The PCO is responsible for properly administering the
performance evaluation process and maintaining the official performance evaluation file and as PCO is responsible for making incentive determinations.

(2) ToM: The ToM maintains the written records of the contractor’s performance so that a fair and accurate evaluation is obtained. The ToM coordinates and compiles the evaluation reports from the other Government customers associated with that order.

(f) Evaluation Schedule. Each performance evaluation period will be 12 months in length. Following each evaluation period, the PCO (or Contract Negotiator if so designated by the PCO) and the ToM will hold a meeting with the contractor’s Senior Technical Representative to review performance under the task order, including overall trends, specific problem areas, if any, and their resolution. Other Government and contractor personnel may also participate as deemed appropriate.

(g) Contractor’s Self-Evaluation. The contractor may submit a self-evaluation for consideration during the evaluation process. To be considered, the report must be submitted to the PCO no later than the end of the eleventh month of the evaluation period. The report must include an overall performance rating for the task order covering the evaluation period and may include whatever information the contractor deems relevant to support that rating. The report shall not exceed two (2) pages in length.

(h) Incentive Determination. The PCO will make an incentive determination for the task order at the end of each evaluation period. The determination will be based upon the Task Order Manager's recommendation, the Contractor's Self-Evaluation and any other information deemed relevant by the PCO. The PCO's decision is unilateral and final. The determination will be documented and a copy provided to the contractor.
SECTION I CONTRACT CLAUSES

In accordance with the base IDIQ contract.

52.216-1 Type of Contract (APR 1984)

This task order is awarded on a cost plus fixed fee performance based (level of effort) basis.
SECTION J LIST OF ATTACHMENTS

Attachment 1 - DD254 Contract Security Classification Specification
Attachment 2 - Performance Based Evaluation Table (See Clause CAR-H07)