SIMMONDS PRECISION PRODUCTS
dba Goodrich Sensors and Integrated Systems

100 Panton Road
Vergennes, VT 05491
Phone: (802) 877-4000 Fax: (802) 877-4112

Contract Number: GS-07F-6062R
Contract Period: 12 July 2010 - 31 August 2015
Business Size: Large

General Services Administration
Federal Supply Service

Authorized Federal Supply Schedule PRICELIST
Test and Measurement Equipment, Avionics Test Equipment,
Unmanned Aerial Vehicles and Related Services
FSC Group 66, Part II, Section J
Customer Information

1a. **Special Item Numbers**: See below for descriptions.

   - SIN 602-40  Avionics Test Equipment
   - SIN 627-2000  Equipment Maintenance and Repair
   - SIN 627-2005  Technical Training and Support (TTS)
   - SIN 627-2006  Technical/Application Development Support (TADS)

1b. **Lowest priced model and lowest unit prices**: Prices shown below.

1c. **Labor Category Descriptions**: See below for labor category descriptions.

2. **Maximum Order**: $300,000 per SIN and $300,000 per order.
   If the best value selection places your order over the Maximum Order, identified in this catalog/pricelist, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact Goodrich for a better price. Goodrich may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8.04.

3. **Minimum Order**: $100


5. **Points of Production**: Vergennes, VT (Addison County).

6. **Discount from Net Prices**: Basic discount range of 9-35% based on product from the accepted price list. The Goodrich Fuel & Utility Systems, 2005 Commercial Price List/Catalog effective 1/1/2005, is accepted as the basis of award. For calculation of the GSA Schedule price (price paid by customers ordering from the GSA Schedule, and price loaded into GSA Advantage), Goodrich has deducted the appropriate basic discount from the list price and added the prevailing IFF rate of .75% to the negotiated discount price.

7. **Quantity/Volume Discount**: Volume discount is based on number of units purchased on a single purchase order. Different shipping locations allowed. Discounts are just for products listed under SIN 602-40 and discounts are based on the individual item. Discounts range from 13-35% off the awarded commercial price list based on the commercial list price per quantity tier by item. Quantity tiers are:

   - 1-5 units
   - 6-10 units
   - 11-25 units
   - 26-50 units

8. **Prompt Payment Terms**: Net 30, 0% discount


10. **Foreign Items**: None
11a. **Time of Delivery:** Shipped 30 - 270 days after receipt of order.

11b. **Expediting Delivery:** Contact contractor to be determined based on item availability.

11c. **Overnight and Two-day Delivery:** Overnight and 2-day delivery not available.

11d. **Urgent Requirements:** Agencies can contact Goodrich's representative to affect a faster delivery. Customers are encouraged to contact the contractor for the purpose of requesting accelerated delivery.

12. **F.O.B Points:** Destination within 48 contiguous States and the District of Columbia. F.O.B Inland Carrier, Point of Exportation for other destinations within scope of contract.

13a. **Ordering Address:**
   U.S. Army Inquiries
   Attn: Ms. Cheryl Pixley
   Goodrich Sensors and Integrated Systems
   100 Panton Road
   Vergennes, VT 05491
   Phone: (802) 877-4679
   Fax: (802) 877-4112
   Cheryl.Pixley@goodrich.com

   All other inquiries contact
   Attn: Mr. David M. Ploof
   Goodrich Sensors and Integrated Systems
   100 Panton Road
   Vergennes, VT 05491
   Phone: (802) 877-4713
   Fax: (802) 877-4112
   David.Ploof@goodrich.com

13b. **Ordering Procedures:** For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), and a sample BPA can be found at the GSA/FSS Schedule homepage (http://www.fss.gsa.gov/schedules)

14. **Payment Address:**
   BF Goodrich Aerospace
   P.O. Box 71391
   Chicago, IL 60694-1391

15. **Warranty Provision:** 24 months Year Standard Commercial Warranty from date of shipment. Customer should contact contractor for a copy of the warranty.

16. **Export Packing Charges:** N/A

17. **Terms and conditions of Government commercial credit card acceptance:** Refer to 9b.

18. **Terms and conditions of Government rental, maintenance, and repair:** Rates are based on labor categories at an hourly rate. Scope of contract prohibits use for products not on this contract.

19. **Terms and conditions of installation:** Rates are based on labor categories at an hourly rate. Scope of contract prohibits use for products not on this contract.

20. **Terms and conditions of repair parts indicating date of parts price lists and any discount from list prices:** Spare parts listed on the approved commercial price list. Spares receive quantity discounts based on number of the same units purchased. Date of parts list is January 1, 2005.
20a. **Terms and conditions for any other services (if applicable):** Rates are based on labor categories at an hourly rate. Scope of contract prohibits use for products not on this contract.

21. **List of service and distribution points:**
   Goodrich Sensors and Integrated Systems
   100 Panton Road
   Vergennes, VT 05491

22. **List of participating dealers:** N/A

23. **Preventive Maintenance:** N/A

24a. **Environmental Attributes:** N/A

24b. **Section 508 Compliance:** No.

25. **Data Universal Number (DUNS):** 00-130-7594

26. **Notification regarding registration in CCR database:** Simmonds Precision Products dba Goodrich Sensors and Integrated Systems is registered in the Central Contractor Registration (CCR) database. Registration is valid until December 20, 2005.
Product/Services Overview

I. Integrated Mechanical Diagnostics Health and Usage Management System (IMD-HUMS) and Integrated Vehicle Health Management System (IVHMS)

*Enabling Condition-Based Maintenance, Enhanced System Life-Cycle Management and an Objective System Platform Maintenance Environment (PME)*

The Goodrich Integrated Mechanical Diagnostics Health and Usage Management System (IMD-HUMS / IVHMS) provides reliable information on an aircraft's operation, usage, component condition, and readiness. Operators and aircraft OEM's are utilizing information from the Goodrich system to develop more effective maintenance and logistics practices that will result in increased aircraft availability, reduced maintenance man-hours, reduction of dedicated flights for data collection and Maintenance / Functional Test Flights (MTF/FTF's) for rotor smoothing, and timely scheduling of repairs, parts, and inspections.

IMD-HUMS / IVHMS is a complete information system that has been optimized to serve both civil and military users as well as the OEM and major subsystem and component suppliers. The IMD-HUMS / IVHMS functions have been allocated among the on-board system (On Platform), the ground-based system (At Platform), and a network-accessible database to put the right information in the right place at the right time. The current open-architecture system is based upon functional and performance requirements established by the US Army for the UH-60A, UH-60L, and CH-47D, Sikorsky Aircraft Corporation for the UH-60M; by the US Navy/Marine Corps on the CH-53E, SH-60B, AH-1Z, and UH-1Y, SH-60R, SH-60S; and, by Sikorsky Aircraft Corporation for the commercial S-92. The current IMD-HUMS / IVHMS system has been influenced by over 10 years of development and operational testing with the Navy/Marines and 4 years with the Army.

**Standard Equipment-A First!**

Sikorsky Aircraft Corporation selected the Goodrich IMD-HUMS / IVHMS as standard equipment on all new S-92 helicopters. This represents the first time in the industry that an OEM has elected to incorporate a comprehensive HUMS in the basic aircraft and their integrated support concept. Sikorsky will also offer the Goodrich system on civil, military, and international models.

**HUMS Federal Aviation Administration (FAA) Certification -A First!**

The Goodrich HUMS has been certified to DO-178B Level B for use on the Sikorsky S-92. The certified software modules are used in different combinations on many other Goodrich HUMS products.

**Functions & Benefits**

The IMD-HUMS / IVHMS automatically acquires, analyzes, communicates, and stores information about the operation, condition, and usage of each aircraft and its major assemblies. All state parameters are recorded continuously from power up through power down providing a complete usage record, monitoring of limit exceedances, input to service life extension computations, and the ability to collect and record information for flight replay, for training and for Flight Operations and Quality Assurance (FOQA) purposes. The state parameters also support the automated data acquisition of rotor track and balance and drive train diagnostic information.

A comprehensive vibration diagnostic system automatically acquires and processes data on rotor-induced vibration, engine, rotor, and shaft balance, and gear, bearing, and shaft condition several...
times during each flight. The on-board system can display critical information to flight crews and is configurable per customer requirements, while the Windows-based ground station serves as the primary means for communication with maintenance, logistics, and planning functions. Customers have already realized many benefits and these benefits are ever-expanding.

Some examples include:
- Automated flight time and engine cycle counting leading to reduced inspections
- Factory-authorized increase in torque limits for HUMS equipped aircraft
- Avoidance of gearbox removals using HUMS data for incident investigation
- Modification of flight procedures to minimize exceedance incidents and reduce fuel consumption
- Semi-automated power assurance checks
- Diagnosis of bearing degradation
- Retrospective diagnosis of planetary gear failure
- Rotor track and balance solutions in the Onboard System Display
- Flight Operations Quality Assurance (FOQA)
- Interface with Electronic logbooks (MMIS/CM/MM Systems)

**Future Benefits**

Future benefits that are inherent in the IMD-HUMS / IVHMS will unfold as a result of OEM support of the system and its use in service:
- Elimination and automation of selected periodic maintenance and manual inspections
- Elimination of ground support equipment and associated down time
- Interface with Electronic logbooks (MMIS / CM/MM Systems)
- Condition-based removal and replacement of life-limited parts, instead of time or flight-hour based maintenance.
- Rapid deployment with best available aircraft as determined by IMD-HUMS / IVHMS through Health Indicators (HI).
- Condition-driven logistics planning
- Usage-based service life extensions of high value components

**II. ON-BOARD SYSTEM/ON PLATFORM PME**

**On-Board System Functionality**
The on-board system automatically monitors and records data, executes diagnostics without pilot involvement, and saves data for later analysis on the ground station. Functions include:
- Automatic data collection
- Limit and exceedance monitoring
- Engine performance monitoring
- Automatic cycle counting
- Propulsion system, drive train, and airframe usage monitoring
- Power assurance
- Regime recognition and time in regime
- Drive-train condition assessment
- Air data and fuel management
- Rotor track and balance solutions
The system stores flight data on an industry standard PC Card, and can display EXCEEDANCES (Operator Manual Limits) and CAUTIONS on the Cockpit Display Unit (CDU). Critical selected information is also stored in non-volatile memory (NVRAM) in the Main Processor Unit (MPU)/IVHMS. Additionally, the pilot may query the system to:

Check power assurance
Review exceedance data
Observe the current value of parameters
Check if sufficient data is available for rotor track and balance adjustments

**Monitored Parameters (Examples)**
- Engine compressor speed
- Engine power turbine speed
- Main rotor speed, shaft torque
- Oil chip detection in engine and gearboxes
- Engine oil temperature and pressure
- Squat switch position (weight-on-wheels)
- Bleed air valve position
- Rotor brake engaged/disengaged
- Hard landing detection
- External navigation data
- True and indicated air speed
- Pressure altitude
- Radar altitude
- Outside air temperature
- Cargo hook (strain/weight)
- Hoist cable length and cycle
- Total takeoffs and landings
- Rotor, drive-train, and engine vibrations
- GPS position
III. GROUND STATION/ON PLATFORM PME

Ground Station Functionality
The Ground Station system runs on Windows XP and Windows 2000 using an open, ODBC-compliant, enterprise-class Oracle database. Flight data and calculations performed by the on-board system are transferred to the ground station after the flight via the flash memory PC Card. The ground station is used to analyze, process and compile the flight data into useful information for the maintenance crew, logistics team, operations department and engineering support. These functions include:

- Strip-chart analysis
- Track component usage (as determined by cycles, flight time, and other relevant parameters)
- Track engine performance
- Diagnose gear, bearing and shaft assembly and wear features requiring maintenance
- Generate rotor smoothing instructions for maintenance
- Vibration acquisition review by table and graph
- Absorber tuning data display
- Record and track rotor adjustments
- Display trends of data points by calendar time or usage metric
- Pilot and maintainer flight debrief
- Explore detailed data by operation
- Export data to CSV file
- Export data to play back in FlightViz (SimAuthor, Inc.)
- Link to and launch Electronic Technical Manuals

The ground station uses a comprehensive database that contains current and historical data for each aircraft, engine, rotor system and drive train parts and assemblies. It can be configured for a single aircraft, or as part of a networked information system for successively larger operational units.

Ground Station Reports
The system is delivered with a set of formatted report templates. Reports from the ground station include:

- Aircraft Operations Report
- All Operations Report
- Configuration Versions
- Fault/BIT Report
- Flight Summary Index Report
- Mission Summary
- Operational Usage Cross-Tab Report
- Operation Event Report
- Operation Exceedance Report
- Regime Sequence Report
- Regime Spectrum Report
- Regime Spectrum Graph
MMIS Interface
The IMD-HUMS Ground Station also features a robust interface to a Maintenance Management Information System (MMIS). The interface can automatically provide flight information, operational usage metrics and maintenance suggestions to the MMIS during the download of a flash memory PC Card. This reduces operator workload by pre-filling much of the information required by flight records, and elaborates suggested maintenance activities in the system in which maintenance activities are tracked.

Winning The Competition
Goodrich's IMD-HUMS / IVHMS team has been proven in competition since 1997. In 1997, Goodrich won an open competition to team with the US Navy and Marine Corps to deploy the dual use IMD on 600 CH-53E and SH-60 aircraft. The Navy has since authorized production to start in 2001. In 1999, Goodrich teamed with the US Army Utility PMO to apply the IMD-HUMS to thee UH-60 Blackhawk family, and with the Marine Corps H-1 program office to incorporate the system on the Bell Cobra and Huey Upgrades. In 2001, Sikorsky announced a decision to make the Goodrich IMD-HUMS standard on the new S-92. In September 2004 Sikorsky Aircraft Corporation selected Goodrich to provide IVHMS for the UH-60M modernized Black Hawk.

A Mission Readiness Solution
- Goodrich will provide, install, and support a complete system that includes:
  - On-board system A and B kits
  - Ground station software and hardware (on customer PC)
  - Manuals
  - Training
  - 24-hour support

International Support
Goodrich assumes total responsibility for the IMD-HUMS /IVHMS system, including installation and support. Goodrich has a comprehensive customer service organization providing installation support, engineering services, technical publications, and product performance tracking and repair services. Our globally positioned personnel and inventories insure our ability to provide customers with a quality response, when and where it's needed.

Certification

Qualification
IMD-HUMS hardware has been qualified to DO-160C requirements. The U.S. Navy and U.S Army IMD-HUMS programs required extended qualification test to DO-160C tests modified to incorporate more stringent requirements. Under the U.S. Army UH60L Program, IMD-HUMS hardware has been tested to a number of MIL-STD-810F requirements. Additionally, the MPU has successfully completed aircraft level EMV testing on the CH53E (Navy), SH60B (Navy), UH60A (Army), and UH60L (Army) programs.
VHМУ (IVHMS) hardware will be tested to MIL-STD-810F requirements including E3 testing under the UH-60M Integration and Qualification Program.

Goodrich Corporation

Goodrich Fuel and Utility Systems, has been in business for over half a century supplying avionics systems to both military and commercial aircraft customers. We have products on more than 50,000 aircraft worldwide. Our systems include fuel measurement and management systems, utility systems, fire detection, health monitoring and diagnostic systems. These products include state of the art technology and are designed to withstand the most demanding commercial and military operational environmental requirements.

SIN OFFERINGS & PRICES

SIN 602-40 Avionics Test Equipment

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Item</th>
<th>Qty 1-5 ARO days</th>
<th>Qty 6-10 ARO days</th>
<th>Qty 11-25 ARO Days</th>
<th>Qty 26-50 ARO days</th>
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<tbody>
<tr>
<td>300764-0101</td>
<td>CH53E IMDS</td>
<td>$381,098</td>
<td>$362,949</td>
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<td>K277-0101</td>
<td>UH60A/L IMDS/IVHMS Configuration</td>
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SUGGESTED SPARES

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<th>Part Number</th>
<th>Item</th>
<th>Qty 1-5 ARO days</th>
<th>Qty 6-10 ARO days</th>
<th>Qty 11-25 ARO Days</th>
<th>Qty 26-50 ARO days</th>
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<tr>
<td>K1010-1005-0213</td>
<td>CH47D Ground Support Kit</td>
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<td>30192-0201</td>
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<td>30201-0501</td>
<td>Remote Data Converter (RDC)</td>
<td>$54,957</td>
<td>$52,340</td>
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<td>10150--0204</td>
<td>Control Display Unit (CDU)</td>
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<td>$23,503</td>
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<td>054358-15</td>
<td>64 MB PCMCIA Flash Memory Card</td>
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<td>054366-03</td>
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<td>Part Number</td>
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<td>$3,336 126</td>
<td>$3,177 126</td>
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<td>30223-0101</td>
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<td>$12,643 199</td>
<td>$12,041 199</td>
<td>$11,468 199</td>
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<td>300757-5644-01</td>
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<td>054501-01</td>
<td>4g Accel (Analog)</td>
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<td>K1010-5406-0101</td>
<td>4g Accel (Digital)</td>
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<td>054291-01</td>
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<td>$19 180</td>
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<td>054291-01</td>
<td>Battery, VHMU</td>
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<td>$18 180</td>
<td>$17 180</td>
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</tbody>
</table>

### DIAGNOSTIC SOFTWARE

| Mechanical Diagnostic Analysis Toolset (MDAT) Annual SITE License | $74,622 | N/A | N/A | N/A |
| Mechanical Diagnostic Analysis Toolset (MDAT) Annual SEAT License | $7,988 | N/A | N/A | N/A |

**Mechanical Diagnostic Analysis Toolset (MDAT)**

The Mechanical Diagnostic Analysis Toolset (MDAT) is a software package that runs on most standard PCs. MDAT is used for in-depth engineering evaluation of data accumulated by the Goodrich HUMS systems (all models thereof).

Goodrich retains ownership of this software but allows customers to use it for an annual license fee. This fee includes:

Support for Technical Questions
Updates as Available
Rights to Install and Use the Software on their own computers

**MDAT License Options**
Goodrich offers two types of annual licenses:

**Site License**
For customers with a large number of users at a single location Goodrich offers an annual SITE LICENSE. The Site License allows the user to install the software on an unlimited number of computers within a defined physical site location. This fee is assessed yearly and can be renewed or allowed to lapse as determined by the customer. The software is designed to no longer function if the license fee is not paid after the license period.

**Seat License**
For customers with a few users one or two computers - Goodrich offers an annual SEAT LICENSE. The Seat License is based on the number of computers in which the MDAT is installed. The annual license fee is valid for one year and can be renewed annually.

**SIN 627-2000 Equipment Maintenance & Service Repair**

**Equipment Maintenance and Repair**
Goodrich is an ISO 9000/2001 approved facility with standard written procedures and processes for repairing equipment. Goodrich, as an OEM, performs all maintenance and service repair on our equipment which is in accordance with all regulatory requirements. Goodrich has available all new parts, or remanufactured, replacement parts and can provide all labor required to maintain proper operation of the equipment. All equipment maintenance and repair is conducted during regular working hours from 7AM to 5PM daily except weekends and holidays.

In the event security or any special access requirements are necessary to perform the equipment maintenance and repair, the customer will make any and all arrangements required for Goodrich personnel.

**Authorized Service Center**
Goodrich provides on-site equipment maintenance and repair at the customer/equipment location. In addition, Goodrich provides equipment repair for repairable components at the Goodrich manufacturing facilities at our authorized service center.

**FAA Certified Repair Station:**
The service center is located at the corporate office:

**Contact:**
**Repairs**

David M. Ploof
Goodrich Sensors and Integrated Systems
100 Panton Road
Vergennes, VT 05491
Phone: (802) 877-4713
Fax: (802) 877-4112
David.Ploof@goodrich.com
Equipment Installation

All of Goodrich’s top level aircraft kits are delivered to the customer complete with detailed instructions and all the materials required for installation, including drawings, design information, and installation guides. The instructions provide the customer with a man-hour estimate and technical skill set required for each of the aircraft kits.

Customers can use internal labor, contract third part labor or contract Goodrich certified personnel at an established hourly rate to install the kit on the aircraft.

When Goodrich performs the installation, Goodrich will provide inspections and system checkout related to the installation at no additional charge.

<table>
<thead>
<tr>
<th>Labor Category</th>
<th>Unit</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offsite Engineering Team Leader</td>
<td>Per hour</td>
<td>$164.00</td>
</tr>
<tr>
<td>Offsite Customer Service Engineer</td>
<td>Per hour</td>
<td>$122.00</td>
</tr>
<tr>
<td>Offsite Technician</td>
<td>Per hour</td>
<td>$95.00</td>
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<tr>
<td>Contract Support Technician</td>
<td>Per hour</td>
<td>$83.00</td>
</tr>
</tbody>
</table>

SIN 627-2005 Technical/Application Development Support (TADS)

Aircraft On Ground (AOG)
Field/Technical Support

Clients have access to live support personnel 24 hours/7 days a week by calling:

802-877-4000

Customers calls are automatically routed to Goodrich’s message center operators who take the call, complete a call tag and forward the call tag information to the appropriate program manager, field service manager or customer service personnel.
<table>
<thead>
<tr>
<th>Labor Category</th>
<th>Unit</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer Service Engineer</td>
<td>Per hour</td>
<td>$136.00</td>
</tr>
<tr>
<td>Offsite Customer Service Engineer</td>
<td>Per hour</td>
<td>$122.00</td>
</tr>
</tbody>
</table>

### SIN 627-2006 Technical Training & Support Services

**Goodrich Training**

Goodrich has complete technical training and support services for the equipment offered. A full range of training is offered on-site or off-site and includes but is not limited to areas such as basic system operation and advanced system operation for operators and maintainers.

Goodrich uses a classroom platform in which training is delivered via an interactive multi-media presentation with participant materials and training manuals. Goodrich has also developed computer based training (CBT) products for equipment offered herein. If there are special training requirements needed, Goodrich will work with the customer to configure a training program or package that best meets their needs.

<table>
<thead>
<tr>
<th>Labor Category</th>
<th>Unit</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offsite Customer Service Engineer</td>
<td>Per hour</td>
<td>$122.00</td>
</tr>
<tr>
<td>Customer Service Engineer</td>
<td>Per hour</td>
<td>$136.00</td>
</tr>
</tbody>
</table>

**Labor Category Descriptions**

**Offsite Engineering Team Leader**

*Rate: $164.00*

Experience in Team management: Capable of leading installation, logistics support and training teams in garrison or remote locations. Has a thorough understanding of the platform, the system and its application.
**Customer Service Engineer**  
Rate: $136.00  
Liaison between OEM and Government units providing technical and maintenance support. Provides general support in the areas of troubleshooting, data and documentation, training, hardware knowledge and system analysis.

**Offsite Customer Service Engineer**  
Rate: $122.00  
Experience with installing, maintaining and troubleshooting the system. Can perform formal classroom and one-on-one training in all aspects of using the system. Acts as OEM liaison for engineering and repair support.

**Offsite Technician**  
Rate: $95.00  
Experience technical experience installing, maintaining and troubleshooting the system. Knows the platform and can perform one-on-one training in all aspects of using the system.

**Contract Support Technician**  
Rate: $83.00  
Experience installing, maintaining and troubleshooting the system. Knows the platform and can perform one-on-one training in all aspects of using the system.