

GENERAL SERVICES ADMINISTRATION
 Federal Supply Service
 Authorized Federal Supply Schedule Price List

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!, a menu-driven database system. The INTERNET address GSA Advantage! is: GSAAdvantage.gov.

Schedule Title: **Professional Engineering Services (PES)**
 FSC Group, Part, and Section or Standard Industrial Group: **541**
 FSC Class(es)/Product code(s) and/or Service Codes: **871**
 Contract number: **GS-23F-0195N**

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at fss.gsa.gov.

Contract period: **April 3, 2003 – April 2, 2008 (baseline with 5 year option)**
 Contract period: **April 3, 2008 – April 2, 2013 (option exercised)**
 Contractor's name, address, phone number and FAX number:

Space Environment Technologies
1676 Palisades Dr.
Pacific Palisades, CA 90272-2111
(phone) 310-573-4185
(fax) 310-454-9665

Contractor's internet address/web site where schedule information can be found: **<http://SpaceWx.com>**
 Contract administration source (if different from preceding entry): **same as above**
 Business size: **small business**

Space Environment Technologies GSA Schedule 871 Contract GS-23F-0195N Modifications

Modification number	Date	Title
FX03	07/15/2003	Industrial Funding Fee (IFF) Changes
FX04	11/19/2003	CCR Address
FX10	03/20/2005	Schedule 871 Refresh 8
FX18	10/11/2005	Schedule 871 Refresh 9
FX47	02/13/2007	Recovery Purchasing
FX51	02/21/2008	Small Business Size Representations
FX52	03/04/2008	Schedule 871 Refresh 10
PS-0001	03/14/2008	Option Period 1
PO-0002	03/14/2008	Option Period 1
FX55	05/22/2008	Schedule 871 Refresh 11
FX75	06/18/2009	American Recovery and Reinvestment Act (ARRA)
A024	07/20/2009	Schedule 871 Refresh 12
A089	06/24/2010	Schedule 871 Refresh 13
A112	02/18/2011	Authorized Negotiators
A223	03/05/2012	Schedule 871 Refresh 16

CUSTOMER INFORMATION

1a. Table of awarded special item number(s) with appropriate cross-reference to item descriptions and awarded price(s).

Table 1. Awarded Special Item Numbers (SINs)

SIN	Title	Comments
871-1	Strategic Planning for Technology Programs/Activities	Descriptions and awarded prices*
871-2	Concept Development and Requirements Analysis	Descriptions and awarded prices*
871-3	System Design, Engineering and Integration	Descriptions and awarded prices *
871-4	Test and Evaluation	Descriptions and awarded prices *
871-5	Integrated Logistics Support	Descriptions and awarded prices *
871-6	Acquisition and Life Cycle Management	Descriptions and awarded prices *

* For all SINs, descriptions are found in Appendix A (*Space Environment Technologies Capability Descriptions*); awarded prices are found in Appendix B (*Space Environment Technologies Price List*).

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract. This price is the Government price based on a unit of one, exclusive of any quantity/dollar volume, prompt payment, or any other concession that affects price. Those contracts that have unit prices based on the geographic location of the customer, should show the range of the lowest price, and cite the areas to which the prices apply. **N/A**

1c. If the Contractor is proposing hourly rates, a description of all corresponding commercial job titles, experience, functional responsibility and education for those types of employees or subcontractors who will perform services shall be provided. If hourly rates are not applicable, indicate “Not applicable” for this item. **Refer to Appendix C (*Space Environment Technologies Labor Grade Categories*) for information on employee qualifications.**

2. Maximum order. **\$750,000; requirements exceeding the Maximum Order will be processed in accordance with Clause I-FSS-125 of the contract.**

3. Minimum order. **\$1000**

4. Geographic coverage (delivery area). **Global**

5. Point(s) of production (city, county, and State or foreign country). **Southern California counties; Front Range Colorado counties; District of Colombia and surrounding Northern Virginia, Maryland counties; Cache County Utah; Casa Grande, Arizona; Houston metro area, Texas; Albuquerque metro area, New Mexico; Boston metro area, Massachusetts.**

6. Discount from list prices or statement of net price. **GSA customers have received a 5% discount from the Government rate and these discounted rates are in Appendix B.**

7. Quantity discounts. **N/A**

8. Prompt payment terms. **N/A**

9a. Notification that Government purchase cards are accepted at or below the micro-purchase threshold. **Space Environment Technologies accepts Government commercial credit cards and Government purchase cards for all purchases at or below the micro-purchase threshold.**

9b. Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold. **Space Environment Technologies accepts Government commercial credit cards and Government purchase cards for all purchases above the micro-purchase threshold.**

10. Foreign items (list items by country of origin). **N/A**

11a. Time of delivery. (Contractor insert number of days.) **Timing of delivery for contract deliverables is determined by the customer's requirements. Our services include the provision of electronic information and this can potentially occur in a time frame of much less than one day.**

11b. Expedited Delivery. **Items available for expedited delivery are noted in the price list: N/A**

11c. Overnight and 2-day delivery. The Contractor will indicate whether overnight and 2-day delivery are available. Also, the Contractor will indicate that the schedule customer may contact the Contractor for rates for overnight and 2-day delivery. **N/A**

11d. Urgent Requirements. The Contractor will note in its price list the "Urgent Requirements" clause of its contract and advise agencies that they can also contact the Contractor's representative to effect a faster delivery. **Space Environment Technologies can provide services to meet the urgent requirements of customers.**

12. F.O.B. point(s). **Destination**

13a. Ordering address(es).

Space Environment Technologies, 1676 Palisades Dr., Pacific Palisades, CA 90272-2111.

Phone: 1-310-573-4185; fax: 1-310-454-9665

email: spacenvironment@spacenvironment.net; URL: http://SpaceWx.com

13b. Ordering procedures: **For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3.**

14. Payment address(es).

Space Environment Technologies, 1676 Palisades Dr., Pacific Palisades, CA 90272-2111.

15. Warranty provision. **As described in Task Order.**

16. Export packing charges, if applicable. **N/A**

17. Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level). **Space Environment Technologies accepts Government commercial credit cards and Government purchase cards for all purchases above the micro-purchase threshold.**

18. Terms and conditions of rental, maintenance, and repair (if applicable). **As described in Task Order.**

19. Terms and conditions of installation (if applicable). **As described in Task Order.**

20. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable). **As described in Task Order.**

20a. Terms and conditions for any other services (if applicable). **As described in Task Order.**

21. List of service and distribution points (if applicable). **N/A**

22. List of participating dealers (if applicable). **N/A**

23. Preventive maintenance (if applicable). **As described in Task Order.**

24a. Special attributes such as environmental attributes (e.g., recycled content, energy efficiency, and/or reduced pollutants). **N/A**

24b. If applicable, indicate that Section 508 compliance information is available on Electronic and Information Technology (EIT) supplies and services and show where full details can be found (e.g. contractor's website or other location.) The EIT standards can be found at: www.Section508.gov/.

The software products provided by Space Environment Technologies are available as ASCII text files, where appropriate, and in these cases are compliant with Section 508 EIF standards. Although human readable, the files are usually designed for computer transfer and automated ingestion of information between various type of computer platforms. More information is available at <http://SpaceWx.com>.

25. Data Universal Number System (DUNS) number. **10-106-0692**

26. Notification regarding registration in Central Contractor Registration (CCR) database.

Notification was received February 7, 2002. Space Environment Technologies is assigned Cage Code number 1W6E1.

Appendix A

Space Environment Technologies Capability Descriptions

SIN 871-1 Strategic Planning for Technology Programs/Activities

Space Environment Technologies (SET) has core experience in planning and developing strategic science and engineering applications related to space research, space weather operations, space systems infrastructure, and space systems standards programs/projects that use solar-terrestrial remote sensing systems and space-physics models. SET collaborates with government agencies and laboratories, research universities, and companies in order to define and interpret high-level space environment organizational engineering performance requirements. The strategic planning experience of SET's personnel covers four decades of project, system, and mission definition where objectives have been to a) characterize the space environment effects from solar photons, particles, and magnetic fields on technological systems and/or b) mitigate space environment risks. Specific areas of planning expertise include:

- (a) Solar-terrestrial physics: studies of solar-terrestrial variability at all timescales, including the development of ISO and AIAA space-related standards, instrument calibrations, space-physics models, and operational forecasts of solar-terrestrial effects;
- (b) Magnetospheric/Ionospheric/Thermospheric physics: studies of terrestrial effects due to solar photon and particle variability using models and measurements;
- (c) Global climate change: studies of the effects of solar-terrestrial variability on global climate;
- (d) Earth-orbiting, deep space, and planetary missions: design of command systems for spacecraft instrumentation and ground station operations; prediction of solar effects on attitude (radiation pressure) and orbit decay (atmospheric drag) over mission lifetimes;
- (e) Space physics models' transition from research-to-operations: planning the transitional steps for models and data into operational environments;
- (f) Near-real-time data acquisition, storage, and distribution: planning the integration of existing and proposed system space environment and weather data systems;
- (g) Software systems for mitigating space environment effects: planning the improvement of satellite orbit, HF radio propagation, RF signals, GPS systems, and wireless technologies;
- (h) Time and frequency-domain analysis of solar-terrestrial models and measurements: planning for statistical validation and verification analysis, data reduction, prediction algorithms; and
- (i) Education and public outreach: planning educational programs and activities.

The SET labor categories that may be required for strategic planning are:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Scientist, Project Engineer, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager
- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The deliverables of SET's strategic science and engineering planning are documents that may include:

- (a) An analysis of the opportunities for competitive and collaborative programs and projects, including all the elements required for agency proposals;
- (b) A feasibility analysis, with an overall cost estimation and dependencies, including all the elements required for a business plan; and
- (c) A preliminary concept of operations and requirements.

SIN 871-2 Concept Development and Requirements Analysis

SET has core experience in concept development and requirements analysis for developing or enhancing high level performance specifications of systems, projects, missions, or activities related to space research, space weather operations, space systems infrastructure, and space systems standards programs/projects that

use solar-terrestrial remote sensing systems and space-physics models. SET experience includes requirements definition, preliminary planning, evaluation of technical approach options, estimation of associated costs, and development of engineering application requirements for activities related to the space systems infrastructure, space standards, space environment, and space weather processes including their terrestrial effects and impacts on society. SET processes include:

- (a) For concept development: a Joint Application Development (JAD) process that uses the stakeholder language and the encapsulation of inputs, internal component (e.g., models), and output for operational space weather systems; and
- (b) For iterative requirements analysis: a rapid-prototyping process that addresses key risk areas prior to refining the requirements analysis.

SET provides science and engineering system concept development and requirements analysis for projects related to:

- (a) Solar-terrestrial variability at all timescales: operational systems of space weather variability at all timescales that are compliant with existing or developing space environment standards, instrument calibration and data analysis, space-physics models enhancement/linkage, and operational forecasts of solar-terrestrial variability;
- (b) Effects of the space environment, including solar-terrestrial variability, on satellites: operational systems for orbit and attitude determination, space debris hazards, and radiation effects;
- (c) Characterization and mitigation of ionospheric phenomena effects: operational systems for improved HF communications, RF signals, GPS accuracy, radar surveillance, and wireless communications;
- (d) National and international space-related standards: development of AIAA guidelines, ANSI standards, and ISO standards;
- (e) Effects of solar-terrestrial variability on remote-sensing systems: operational systems for improved specification of global climate upper-atmospheric heating and for solar spectral calibration of hyper-spectral imagery; and
- (f) Homeland security: operational systems for satellite operations, remote sensing, and communications that serve homeland security interests (e.g., data center and command-and-control centers).

The SET labor categories that may be required for concept development and requirements analysis are:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Scientist, Project Engineer, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager
- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The deliverables of engineering concept development and requirements analysis are documents that may include:

- (a) Concept of operations;
- (b) Project requirements analysis;
- (c) Preliminary system design;
 - Use case objects and interactions,
 - Flowchart diagrams,
 - Physical architecture diagrams,
 - Logical architecture diagrams,
 - Scenario analysis,
 - Object classes specification,
 - Sequence diagrams,
 - Collaboration diagrams,
 - State transition diagrams,
- (d) Cost/performance tradeoffs analysis.

SIN 871-3 System Design, Engineering, and Integration

SET has core experience in the design, engineering, and integration of space research, space weather operations, space systems infrastructure, and space systems standards programs/projects. This includes the transitioning of research grade models and data systems into preliminary and detailed designs for operational systems, products, and services. The design work includes risk identification, analysis, and mitigation as well as the development of traceability matrices from programmatic goals and project objectives. SET's detailed design capability leads to integrated systems where the separate components produce a working system prototype or model. SET design, engineering, and integration philosophies include:

- (a) Secure off-site software/hardware systems for remote access to state-of-the art space environment, space weather, and space system specifications and data via distributed networks;
- (b) Turn-key hardware/firmware/software space-related specification systems for installation at a customer site;
- (c) Software portability across heterogeneous operating systems and software extensibility for maintainability and the addition of future capabilities; and
- (d) Fault-tolerant hardware/software architectures based on redundant subsystems for automatic failure recovery, disaster recovery planning.

By utilizing best-engineering practices that incorporate risk assessment and prototyping, SET is able to provide effective and rapid system integration. Our best-engineering practices include Computer-Aided Design (CAD), project tracking, configuration control, UML documentation and control, and detailed specification documents. The unique capabilities of SET in the design, engineering, and integration phases include:

- (a) A unique research-to-operations System Development Lifecycle Process Model (OP-SDLC) that encompasses concept-of-operations, rapid-prototyping, requirements analysis, system development (design, engineering, integration), validation and verification testing, and maintenance;
- (b) A tailored software development process emphasizing rapid prototyping for small-medium sized projects that results in accurate requirements specifications, system deliveries on-time and within budget, and reliable, maintainable operations;
- (c) An object-oriented encapsulation paradigm that includes the use of a unified modeling language and a tiered input/model/output design;
- (d) An emphasis on an iterative system engineering phase for unit development and testing that uses a device-independent ensemble of programming languages and applications;
- (e) A system integration phase focusing on a robust, extensible and scalable operational system with automated validation components; and
- (f) Capabilities to develop and support the following software languages, applications, and operating systems:
 - Java
 - C/C++
 - FORTRAN
 - IDL
 - DBMS (SQL)
 - HTML/XML
 - Rational Rose UML
 - HP/UX
 - Sun/Solaris
 - Linux
 - Microsoft Windows (98, NT, 2000, XP)
 - Apple OS X

The SET personnel that may be required for the design, engineering, and integration of space systems include:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Scientist, Project Engineer, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager

- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The SET deliverables during the design, engineering, and integration of space systems may include:

- (a) Requirement Analysis/Specification documents;
- (b) System Design documents;
- (c) Interface Definition/Specification documents;
- (d) Software Programs (code, libraries, etc.);
- (e) Software Documentation;
- (f) Web Site files (HTML, images, Java Servlet code, etc.);
- (g) Operation Specification documents;
- (h) Software configuration and control libraries (e.g., media, documents, databases); and
- (i) Maintenance specifications document.

SIN 871-4 Test and Evaluation

SET has core experience in the comprehensive testing and evaluation of space-related operational systems. SET's engineering practices for testing and evaluation involve the application of comparative datasets, system performance metrics, and standard operational test scenarios to ensure robustness, extensibility, scalability, and graceful degradation of real-time operational systems to climatological conditions, for example, in order to demonstrate that prototype systems and subsystems perform in accordance with the design objectives. SET employs additional practices for test and evaluation including:

- (a) Detailed test plans;
- (b) Scientific data input/output verification;
- (c) Automated unit validation subsystems;
- (d) Automated integrated operational validation programs;
- (e) Independent quality control verification of software units and the integrated system;
- (f) Operational performance verification; and
- (g) Analysis and testing of solar-terrestrial models and data for physical accuracy and other performance metrics.

The SET personnel that may be required for the testing and evaluation of space operational systems include:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Engineer, Project Scientist, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager
- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The SET deliverables during the testing and evaluation phase of a space operational system may include:

- (a) Requirement Analysis/Specification compliance reports;
- (b) System Design compliance reports;
- (c) Interface Definition/Specification compliance reports;
- (d) Software Programs (code, libraries, etc.) performance test results;
- (e) Software Documentation compliance reports;
- (f) Web Site files (HTML, images, Java Servlet code, etc.) compliance reports;
- (g) Operation Specification compliance reports;
- (h) Test software (Verification/Validation code, libraries, etc.) delivery;
- (i) Draft User and training Manuals' modification;
- (j) Software configuration and control libraries (e.g., media, documents, databases) modification; and

- (k) Maintenance specifications documents' modification.

SIN 871-5 Integrated Logistics Support

SET has core experience in integrated logistics support for operational space-related systems, services, and products. This experience includes the analysis, planning and detailed design of engineering logistics support, including hardware/firmware/software purchases, upgrades, operator personnel training, and maintenance. SET also has unique experience in space-related data input, processing, and output through automated data communication and file management routines, and adaptation to changing system requirements throughout their life cycles. Additional capabilities that SET can provide include:

- (a) Remote and on-site customer support;
- (b) Hardware and software specifications and upgrades;
- (c) Systems support, user documentation, and training;
- (d) Operational software products upgrades;
- (e) Near-real time data access support;
- (f) Data dissemination support;
- (g) Command and control support; and
- (h) Backup operational systems.

The SET personnel that may be required for integrated logistics support for operational space systems, services, and products include:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Engineer, Project Scientist, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager
- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The SET deliverables during the integrated logistics support phase of a space operational system may include:

- (a) Requirement Specification for upgrades, maintenance and repair;
- (b) Software Programs (code, libraries, etc.) maintenance and upgrade schedules;
- (c) Software Documentation delivery, maintenance and upgrade schedules;
- (d) Web Site files (HTML, images, Java Servlet code, etc.) delivery, maintenance and upgrade schedules;
- (e) Operation Specification documentation delivery;
- (f) Test software (Verification/Validation code, libraries, etc.) delivery for upgrades;
- (g) User and training Manuals for operations; and
- (h) Software configuration and control libraries (e.g., media, documents, databases) delivery.

SIN 871-6 Acquisition and Life Cycle Management

SET has core experience in acquisition and life cycle management to support space-related operational products and services. SET's experience includes all planning, budgetary, contract, and systems or program management functions that are required to obtain, produce, make operational and provide life cycle support (e.g., upgrades, maintenance, repair, and data/hardware/firmware/software supplies) to space operational products and services. SET has experience in technology transfer from government laboratories and universities, technology insertion from collaborative partners, operations training, space environment product privatization and outsourcing activities. Additional SET services include:

- (a) Remote and on-site customer support;
- (b) Hardware and software specifications and upgrades;
- (c) Operational software products upgrades;
- (d) Near-real time data access support;
- (e) Data dissemination support; and
- (f) Contingency operational system development.

The SET personnel that may be required for acquisition and life cycle management to support space operational products and services include:

- (a) LG-A: Chief Scientist, Chief Engineer
- (b) LG-B: Project Engineer, Project Scientist, Senior Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager
- (c) LG-C: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Documentation Specialist, Customer Support Specialist
- (d) LG-S: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager
- (e) LG-SA: Payroll Specialist, Accounts Specialist, Management Specialist

The SET deliverables during the acquisition and life cycle management phase of a space operational system may include:

- (a) Requirement Specification for upgrades, maintenance and repair;
- (b) Software Programs (code, libraries, etc.) maintenance and upgrade schedules;
- (c) Software Documentation delivery, maintenance and upgrade schedules;
- (d) Web Site files (HTML, images, Java Servlet code, etc.) delivery, maintenance and upgrade schedules;
- (e) Operation Specification documentation delivery;
- (f) Test software (Verification/Validation code, libraries, etc.) delivery for upgrades;
- (g) User and training Manuals for operations;
- (h) Software configuration and control libraries (e.g., media, documents, databases) delivery; and
- (i) Commercial development and implementation plans for specific products related to operational space systems.

Appendix B Space Environment Technologies Price Lists

A) TIME AND MATERIAL CONTRACT PRICE LIST

Space Environment Technologies (SET) offers Time and Material (TM) contracts that support the SIN descriptions in Appendix A. SET offers 5 labor categories (Labor Grades A, B, C, S, and SA) that are described in Appendix C. Rates in each labor grade are the same for labor performed at all SET locations. In the event that a customer requires an hourly rate, the awarded labor prices are listed in Tables 2 and 3 for support of SET's SIN capabilities described in Appendix A. These rates include direct labor, fringe benefits, general and administrative rates, overhead rates, and administrative fees. SET's awarded hourly rate basis for the Base Period and Option 1, including Modification FX03 reductions, are:

Table 2. Base period award hourly labor rates 2003–2007

Labor Grade	Year 1	Year 2	Year 3	Year 4	Year 5
LG A	\$129.90	\$135.09	\$140.49	\$146.11	\$151.96
LG B	\$109.02	\$113.39	\$117.92	\$122.64	\$127.54
LG C	\$94.50	\$98.28	\$102.21	\$106.30	\$110.55
LG S	\$81.00	\$84.24	\$87.61	\$91.11	\$94.76
LG SA	\$54.00	\$56.16	\$58.41	\$60.74	\$63.17

Table 3. Option 1 award hourly labor rates 2008–2012

Labor Grade	Year 6	Year 7	Year 8	Year 9	Year 10
LG A	\$158.04	\$164.36	\$170.93	\$177.77	\$184.88
LG B	\$132.65	\$137.95	\$143.47	\$149.21	\$155.18
LG C	\$114.97	\$119.57	\$124.35	\$129.33	\$134.50
LG S	\$98.55	\$102.49	\$106.59	\$110.85	\$115.29
LG SA	\$65.70	\$68.33	\$71.06	\$73.90	\$76.86

SET also provides other services, i.e., Other Direct Costs, in support of TM contracts. These are negotiated on a contract-by-contract basis and are examples are listed in Table 4:

Table 4. Other Direct Costs (ODCs)

DESCRIPTION (Other Direct Costs)	UNIT PRICE
Travel	(Contractually negotiated)**
Subcontracts	(Contractually negotiated)**
Publications	(Contractually negotiated)**
Operations support (data, H/W, S/W, maintenance, upgrade)	(Contractually negotiated)**

**Travel rates, if separately negotiated, are based on commercial coach air fare rates, commercial auto leasing daily rates, and yearly published DoD per diem rates. Journal article publication rates, if separately negotiated, are the rates charged by peer review journals and can vary from no page charges to \$175 or more per page (without color) depending upon the journal. Typical peer review journal rates can range from \$1500 to \$5000 per journal article. Subcontracts are negotiated on a case-by-case basis. Operations support for data provision, hardware (H/W) installation, software (S/W) installation, H/W and S/W maintenance, and S/W upgrades are provided on a case-by-case basis.

B) FIRM FIXED PRICE CONTRACT PRICE LIST

Space Environment Technologies offers Firm Fixed Price (FFP) contracts that support the SIN descriptions in Appendix A. These contracts can be negotiated on a case-by-case basis for non-personal labor services to complete a task or project, travel, and data or information deliverables. Space Environment Technologies is a manufacturer of primary space-related data products and may, under certain conditions, become a dealer for data products and/or services offered by other providers. As a manufacturer, SET can provide per item or automated operational data and information services as described in Appendix A. As a dealer, SET can provide products and services to the Government customer as negotiated on a contract-by-contract basis and as described in Appendix A.

Appendix C

Space Environment Technologies Labor Grade Categories

LG-A: Labor Grade A is a senior level scientist or engineer with a minimum of 20 years professional experience in his or her discipline area and has a Ph.D. in an engineering or physical sciences discipline. This individual is independently motivated, develops new programs or projects, and manages research or operational programs and business units. He or she has extensive experience as a Principal Investigator in competitive agency contracts, networks extensively in his or her field, serves in leadership positions on national and/or international advisory panels or bodies, and leads the development of substantive scientific or engineering papers, documentation, programmatic proposals, business plans, and commission/panel reports. Job classifications include: Chief Scientist, Chief Engineer.

LG-B: Labor Grade B is a senior level scientist or engineer with a minimum of 15 years professional experience in his or her discipline area and has a Ph.D., M.S., or B.S. in an engineering or physical sciences discipline. This individual effectively manages projects and people. He or she has extensive experience as a Principal Investigator or Co-Investigator in competitive agency contracts, effectively leads teams of colleagues in his or her field, serves on advisory panels or bodies, and prepares major research or operational project documents. Job classifications include: Project Scientist, Project Engineer, Senior Research Scientist, Senior Software Engineer, Senior Hardware Engineer, Project Manager, Systems Manager.

LG-C: Labor Grade C is a research or technical level scientist or engineer with a minimum of 5 years professional experience in his or her discipline area and has a Ph.D., M.S., or B.S. in an engineering or physical sciences discipline. This individual works effectively in managed research on operational projects and teams while contributing substantive insights. He or she has experience as a team member in contracted work, initiates action items with other team members, and prepares insightful papers and reports on directed topics. Job classifications include: Research Scientist, Software Engineer, Hardware Engineer, Systems Engineer, Systems Analyst, Test Engineer, Systems Operations Specialist, Quality Control Engineer, Data Manager, Documentation Specialist, Customer Support Specialist.

LG-S: Labor Grade S is a senior level staff employee with a minimum of 10 years professional experience in administrative services and office practices and has a B.A. or a B.S. This individual effectively manages office activities and personnel as well as contributes substantive business development ideas. He or she has experience as a team member in contracted and administrative work, initiates action items with other office staff members, works effectively with company management, scientists, and engineers, and prepares insightful reports on company activities. Job classifications include: Office Manager, Payroll Manager, Accounts Manager, Personnel Manager.

LG-SA: Labor Grade SA is a staff employee with a minimum of 1 year professional experience in administrative services and office practices and has an Associate Degree or is working toward a higher degree. This individual works effectively under supervision in managed office activities. He or she supports contracted and administrative work, follows-up on action items that are directed by supervisory personnel, and prepares inputs to papers and reports related to company activities. Job classifications include: Payroll Specialist, Accounts Specialist, Management Specialist.