



**POWER
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The Force That Goes The Distance Every Time.



Schedule
Contract GS-10F-0124W

GENERAL SERVICES ADMINISTRATION

Federal Acquisition 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 is available through GSA Advantage!™, a menu-driven database system. The INTERNET address for GSA Advantage!™ is: <http://www.GSAAdvantage.gov>.

PROFESSIONAL ENGINEERING SERVICES

Special Item Numbers (SINs)

- 871-2 Concept Development & Requirements Analysis
- 871-3 System Design, Engineering & Integration
- 871-4 Test & Evaluation
- 871-5 Integrated Logistics Support
- 871-6 Acquisition & Life Cycle Management

Industrial Group: 871

Class: 25R

Contract №: GS-10F-0124W

Contract Period: February 24, 2010 through February 23, 2015

Business Size: Small, Woman Owned Business

Contract Administration: Catherine Grace

E-mail: cgrace@powerengineering.com

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1 CUSTOMER INFORMATION

- 1A. **Table of Awarded Special Item Number(s) with appropriate cross-reference to page numbers:** 871-2, 871-2RC EE-ME, 871-3 871-3RC EE-ME, 871-4 871-4RC EE-ME, 871-5 871-5RC EE-ME, 871-6, 871-6RC EE-ME
- 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 affecting 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.**
- 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.**
2. **Maximum Order:** \$750,000.00
3. **Minimum Order:** \$100.00
4. **Geographic Coverage (delivery Area):** Domestic
5. **Point(s) of production (city, county, and state or foreign country):** Same as company address
6. **Discount from list prices or statement of net price:** Government net prices (discounts already deducted). See Attachment.
7. **Quantity discounts:** None Offered
8. **Prompt payment terms:** Net 30 days
- 9A. **Notification that Government purchase cards are accepted up to the micro-purchase threshold:** Yes
- 9B. **Notification whether Government purchase cards are accepted or not accepted above the micro-purchase threshold:** will accept over \$3,000
10. **Foreign items (list items by country of origin):** None
- 11A. **Time of Delivery (Contractor insert number of days):** Specified on the Task Order
- 11B. **Expedited Delivery. The Contractor will insert the sentence "Items available for expedited delivery are noted in this price list." under this heading. The Contractor may use a symbol of its choosing to highlight items in its price list that have expedited delivery:** Contact Contractor
- 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:** Contact Contractor
- 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:** Contact Contractor
12. **F.O.B Points(s):** Destination
- 13A. **Ordering Address(es):** Same as Contractor
- 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 (fss.gsa.gov/schedules).

14. **Payment address(es):** Same as company address
15. **Warranty provision:** Contractor's standard commercial warranty.
16. **Export Packing Charges (if applicable):** N/A
17. **Terms and conditions of Government purchase card acceptance (any thresholds above the micro-purchase level):**
Contact Contractor
18. **Terms and conditions of rental, maintenance, and repair (if applicable):** N/A
19. **Terms and conditions of installation (if applicable):** N/A
- 20A. **Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices (if applicable):** N/A
- 20B. **Terms and conditions for any other services (if applicable):** N/A
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):** N/A
- 24A. **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. contactor's website or other location.) The EIT standards can be found at: www.Section508.gov/.**
25. **Data Universal Numbering System (DUNS) number:** 62-2396018
26. **Notification regarding registration in Central Contractor Registration (CCR) database:** Registered

2 CORPORATE OVERVIEW

Founded more than 20 years ago, Power Engineering (“PE”) has developed a global reputation as an expert in the design, manufacturing and commissioning of power generation apparatus; including: water, steam and gas turbine driven generators and large rotating machinery. Additionally, PE is well known for our expertise in the fields of failure analysis, troubleshooting, and field testing to identify the root causes of turbine generator problems.

Specifically, since 1988 PE has provided Government and Commercial Clients in the electric utility, aerospace, turbomachinery manufacturing, transportation, petroleum production and refining industries with professional engineering services within the mechanical and electrical disciplines as defined in Part I of Solicitation № TFTP-MC-990871-B Refresh 11. Within these disciplines, PE has a great deal of experience in the following specialties.

MECHANICAL	ELECTRICAL
<ul style="list-style-type: none"> • Advanced Energy Systems • Applied Mechanics • Dynamic Systems & Control • Fluids Engineering • Power Systems & Technology Systems • Hydraulic, Steam, & Gas Turbines • Materials, Heat Treating & Welding • Tribology, Wear & Lubrication • Non-Destructive Evaluation Engineering • Noise Control & Acoustics • Prime Movers • Pressure Vessels & Piping • Safety Engineering & Risk Analysis • Energy Conversion • Vibration, Balancing and Modal Analysis • Stress Analysis 	<ul style="list-style-type: none"> • Electric Power Generation • Circuits & Systems • Instrumentation & Measurement • Control Systems • Dielectrics & Electrical Insulation • Remote Sensing • Signal Processing • Dynamic Modeling of Electric Systems

Table 1 – PE Specialties by Engineering Discipline

PE’s ability and success in providing Clients with a suite of high value services is the result of a combination of our teams’ unique professional capabilities and experiences coupled with the use of innovative technological resources and assets. PE is classified as an “Emerging Women Owned Business,” and is organized in two functional groups: the Business Administration Team, which is composed of three professionals, and the Engineering Team, which is composed of five full-time engineers and then more than a dozen specialists we employ as contractors on an ad-hoc basis.

The Business Administration Team manages PE's operational and accounting functions, which are near real time and employ state of the art accounting database technologies. PE's accounting policies and procedures are executed in accordance with the company's

Corporate Quality Assurance Plan and have been qualified by US Government Department of Defense (Registration W6Z3TR) to comply with FAR, ICE and DCAA requirements. As a result of the Business Administration Team practices, PE's DUNS financial rating is "excellent (DUNS No. 622396018)".

PE's Engineering Team identifies, analyzes, and provides actionable solutions to clients' machinery problems using ground-breaking field inspection and testing techniques, unrivaled in the electric power industry. For example, they utilizes state of the art equipment to perform precise measurements of machine variables like: strain, force, pos, vibration, temperature, power, and flow. PE's Eechnical Team also supports their electrical and mechanical projects with computer-aided capabilities (like finite element analysis of stress, deflection, fluid dynamics, temperature distribution, and electromagnetic fields) and simulation software. Given the high quality of PE's Technical Team's on-site practices, the company was presented with a "Contractor Safety Award" from the United States Army Corps of Engineers and other Electric Utilities.

3 DESCRIPTION SERVICES OFFERED

Under the scope of this Contract, PE is capable of providing the Federal Government with professional services requiring electrical and/or mechanical engineering expertise for following SINs.

SIN	DESCRIPTION	ELECTRICAL	MECHANICAL
871-2	Concept Development & Requirements Analysis	✓	✓
871-3	System Design, Engineering & Integration	✓	✓
871-4	Test & Evaluation	✓	✓
871-5	Integrated Logistics Support	✓	✓
871-6	Acquisition & Life Cycle Management	✓	✓

Table 2 – PE Expertise by Discipline & PES SINs

3.1 871 2 Concept Development & Requirement Analysis

PE provides conceptual level engineering evaluations to confirm, modify, or eliminate the alternatives identified. Typical activities associated with concept development and requirements analysis may include one or more of the following:

- Optimize design alternatives through use system modeling, Monte Carlo simulation, and other advanced numerical methods;
- Accomplish initial concept investigations and studies in which historical data and knowledge is gathered; correlated, and analyzed;
- Perform detailed evaluation of alternatives, based on life-cycle cost and non-cost criteria, eliminate non-viable alternatives, when necessary, confirm principal alternatives using conceptual designs and scaled modeling and lastly, prioritize and rank all remaining alternatives considering cost and performance trade-offs; and
- Conduct a formal Value Engineering (VE) Study. Upon completion of the formal VE study, the VE and project teams mutually develop the recommended solution(s).

3.2 871 3 System Design, Engineering & Integration

Under this SIN, PE offers the following services:

- Translation of a System, Subsystem, Program, Project, or Activity Concept into a Preliminary & Detailed Design, including Engineering Plans & Specifications;
- Performing Risk Identification, Analysis & Mitigation;
- Traceability; and
- Integrating Various Components to Produce a Working Prototype or Model of the System.

Typical tasks that we perform in association with these services include, but are not limited to:

- Computer-Aided Design;
- Design Studies & Analysis,
- High Level Detailed Specification Preparation;
- Configuration Management & Document Control; and
- Modeling.

The PE Engineering Team is composed of a number of highly qualified design professionals and support staff providing skilled design, drafting and data management services to Clients worldwide. In addition, PE staff offers capabilities in instrumentation and control, and process control design and management of design projects.

3.3 871 4 Test & Evaluation

Services provided by PE under this SIN involve the application of various techniques demonstrating that a prototype system (subsystem, program, project or activity) performs in accordance with the objectives outlined in the original design. Typical associated tasks include, but are not limited to, testing of a prototype and first article(s) testing, environmental testing, independent verification and validation, simulation and modeling (to test the feasibility of a concept), system safety, quality assurance, and physical testing of the product or system.

To test the feasibility of our designs, PE offers simulation and modeling services as well as mobile pilot plants and laboratories to conduct performance testing either from a PE office or at a specific site location. These services offer opportunities to test concept feasibility and assess system performance prior to full implementation. The modeling and simulation services offered by PE include, but are not limited to, the following:

- Hydraulic Modeling;
- Exposure/Risk Modeling;
- Electrical System Dynamics Modeling;
- Bench, Pilot, Demonstration & Full Scale Testing; and
- In some cases, model output is validated through sampling and independent verification.

3.4 871 5 Integrated Logistics Support

PE offers capabilities in the analysis, planning and detailed design of all engineering specific logistics support including material goods, personnel, and operational maintenance and repair of systems throughout their life cycles. Examples of services include but are not limited to:

- Feasibility Analysis;
- Logistics Planning;
- Requirements Determination;
- Policy Standards/Procedures Development; and
- Long-term Reliability & Maintainability.

The design process is not complete without proper consideration of the requirements and procedures for system startup, operation, and maintenance. The documents created through this step, which may include start-up and prove out plans, operation and maintenance (O&M) manuals, training manuals, and optimization plans, vary according to system and ordering agency requirements.

3.5 871 6 Acquisition & Life Cycle Management

PE has extensive experience and capabilities providing acquisition and life cycle management services to Clients. Services provided under this SIN involve the planning, budgetary, contract and systems/program management functions required to procure and/or produce, render operational and provide life cycle support (maintenance, repair, supplies, and engineering specific logistics) to technology-based systems, activities, or projects. The construction, start up, and maintenance phase of a project is the culmination of all previous phases. In many cases, PE has managed the implementation of large, complex projects requiring extensive coordination and/or control of numerous parties who are directly and indirectly involved in project completion.

During the construction phase, PE's roles have included providing construction oversight and inspection services, managing project controls such as budget and schedule, coordinating subcontractors, managing start up and prove out phases, and providing technology transfer and training of client personnel in the maintenance and operation of the facility or system.

The specific services that fall into this category can be organized and defined in any manner to suit the ordering Client's unique needs.

4 PROFESSIONAL ENGINEERING SERVICES PRICE LIST

The following table identifies the approved labor rates for all professional engineering services offered under this Contract.

CATEGORY	PRICE W/ IFF
Principal Engineer/Scientist	\$207.53
Technical Director	\$213.95
Program Manager	\$186.52
Project Manager	\$180.92
Senior Engineer	\$180.92
Software Engineer	\$138.24
Engineer, Analyst or Scientist	\$148.99
Associate Engineer, Analyst or Scientist	\$115.20
Business Specialist	\$87.77
Technician	\$87.77
Associate Technician	\$76.80
Business Associate	\$63.64
Technical Specialist	\$63.64

Table 3 – PES Schedule Price List

SCA Eligible Contract Labor Category	SCA Equivalent Code Title	WD Number
Technician	30083 Engineering Technician III	05-2047
Associate Technician**	30082 Engineering Technician II	05-2047
Business Associate	01312 Secretary II	05-2047
Technical Specialist	30081 Engineering Technician I	05-2047
<p>*The Service Contract Act (SCA) is applicable to this contract and it includes SCA applicable labor categories. The prices for the indicated (**) SCA labor categories are based on the U.S. Department of Labor Wage Determination Number(s) identified in the SCA matrix. The prices offered are based on the preponderance of where work is performed and should the contractor perform in an area with lower SCA rates, resulting in lower wages being paid, the task order prices will be discounted accordingly."</p>		

Table 4 – SCA Matrix

5 LABOR CATEGORY DESCRIPTIONS

5.1 Level I – Principal Engineer or Scientist

To be categorized as a Level 1 – Principal Engineer or Scientist the employee must have one of the following:

- Ph.D. + 2 Years of General Experience
- M.Sc. + 5 Years of General Experience
- B.S. in Engineering + 15 Years of Technical Experience in an Engineering, Scientific or Information Systems Discipline

A Level 1 – Principal Engineer or Scientist is someone who has held a program, project, and/or task management position or is a high-level technical specialist. An engineer who falls under this labor category performs high-level systems analysis, evaluation, design, integration, documentation, and implementation of complex applications. They would also direct and manage solutions to Client's engineering challenges.

To summarize an employee in this labor category would:

- Manages programs, projects and tasks;
- Apply intensive and diversified knowledge of engineering principles and practices;
- Makes decisions regarding engineering challenges, solutions and methodology independently
- Optimize technical and human resources needed to complete projects; including, but not limited to estimating manpower requirements, creating project schedules, and estimating execution times;
- Communicate articulately and establish good working relationships with other executive-level personnel.

5.2 Level I – Technical Director

To be categorized as a Level I – Technical Director the employee must have either (1) a Masters Degree or equivalent degree in engineering, business or a related scientific/technical discipline and (2) 15 years of general experience in the field.

A Level 1 – Technical Director is responsible for advising the project managers on the establishment of the technical support management structure. They also coordinate with Clients regarding the status of specific projects, technical activities and problems, issues or conflicts.

To summarize an employee in this labor category would:

- Provide oversight regarding projects technical applications and development through acceptance and operational phases;
- Analyze complex functional and technical problems;
- Implement systems solutions;
- Monitor and guide the quality of scientific and technical resources;
- Ensure adherence to PE's Quality Assurance Program of all PE employees and subcontractors if applicable; and
- Provide expert technical consultation to Clients and prospective Clients.

5.3 Level II – Program Manager

To be categorized as a Level II – Program Manager the employee must have: (1) a Masters Degree or equivalent degree in engineering, business or a related scientific/technical discipline and (2) 10 years of general experience in the field.

A Level II – Program Manager works closely with the Technical Director and is responsible for writing technical reports, managing the development, production and delivery of technical engineered solutions, uses contemporary project management tools, and has a command of the core principals of effective development processes and production management.

To summarize an employee in this labor category would:

- Formulate and enforce work standards, assign schedules, review work discrepancies, supervise personnel and communicate policies, purposes, and goals;
- Provide advice, guidance and training to fellow employees and recommends personnel actions;
- Manage substantial program/technical support operations involving multiple project/task orders and personnel at diverse locations;
- Communicate articulately and establish good working relationships with other executive-level personnel; and
- Implement Quality Assurance Program.

5.4 Level II – Project Manager

To be categorized as a Level II – Project Manager the employee must have: (1) a Masters Degree or equivalent degree in engineering, business or equivalent and (2) 5 years of general experience in the field.

A Level II – Project Manager would:

- Formulate and enforce work standards, assign schedules, review work discrepancies, supervise personnel and communicate policies, purposes, and goals;
- Manage specific task orders and ensure that technical solutions and schedules are implemented;
- Manage and maintain development, production and delivery standards; and ensure schedules and project assignments are met and completed as directed;
- Enforce work standards and reviews/resolves work discrepancies to ensure compliance with contract requirements;
- Communicates in writing and verbally to higher management with ease;
- Establish good working relationships with people both within and outside the government;
- Ensure proper relationships are established between customers, teaming partners, and vendors to facilitate the delivery of information technology services; and
- Implement the Quality Assurance Plan.

5.5 Level II – Senior Engineer

To be categorized as a Level II – Senior Engineer the employee must have: (1) a Masters Degree or equivalent degree in engineering, business or a related scientific/technical discipline or (2) a Bachelors Degree plus 10 years of experience in an engineering, scientific, or information systems discipline.

A Level II – Senior Engineer is equivalent to a task management position or high-level technical specialist. A person in this labor category would direct and manage scientific/engineering solutions to Clients' engineering challenges and also perform high-level systems analysis, evaluation, design, integration, documentation and implementation of complex applications.

To summarize an employee in this labor category would:

- Manage projects and tasks;
- Apply intensive and diversified knowledge of engineering principles and practices;
- Make decisions independently regarding engineering problems and methods; and
- Optimize technical and human resources needed to solve problems, estimate manpower requirements and schedules, and execution times for projects.

5.6 Level III – Software Engineer

To be categorized as a Level III – Software Engineer the employee must have: (1) Bachelors Degree or equivalent degree in Information Technology or related field and (2) at least 3 years of experience in the field.

A Level III – Software Engineer supervises the activities of all software systems programming personnel for a major project, several smaller projects or a small department.

To summarize an employee in this labor category would have the ability to provide:

- Program and system development and code integration services by choosing and applying existing programming techniques;
- Installation configuration support and quality assurance services; creates, modifies, and maintains computer software programs; and
- Plans and planning expertise, reporting and technical guidance for programming projects.

5.7 Level III – Engineer/Analyst/Scientist

To be categorized as a Level III – Engineer/Analyst/Scientist the employee must have: (1) Bachelors Degree in a technical discipline with a minimum of 3 years of general experience or (2) at least 10 years of pertinent experience in the field.

A Level III – Engineer/Analyst/Scientist evaluates, selects and applies standard engineering techniques, procedures and criteria using judgment in making minor adaptations and modifications.

To summarize an employee in this labor category would:

- Design and develop system build-up tests;
- Prepare specifications and reports;
- Process and analyze studies, research and investigations requiring knowledge of principles and techniques; and
- Independently manage subtasks.

5.8 Level IV - Associate Engineer/Analyst/Scientist

To be categorized as a Level IV – Associate Engineer/Analyst/Scientist the employee must have (1) Bachelors Degree in a technical discipline or (2) at least 3 years of pertinent experience in the field.

A Level IV – Associate Engineer/Analyst/Scientist would work be under the supervision of a Senior Engineering/Analyst/Scientist performing assignment designed to develop professional knowledge and abilities, requiring the application of standard techniques, procedures and criteria in carrying out a sequence of related engineering tasks.

To summarize an employee in this labor category would:

- Perform specific and limited portions of a broader assignment with the guidance of an experienced engineer;
- Apply standard practices and techniques in specific situations;
- Adjust and correlate data;
- Recognize discrepancies in results; and
- Follow operations through a series of related detailed steps or processes.

5.9 Level V – Business Specialist

To be categorized as a Level V – Business Specialist the employee must have (1) Bachelors Degree or equivalent degree in a technical discipline and (2) at least 5 years of pertinent experience.

A Level V – Business Specialist would be responsible for all labor efforts related to business operations and finance; including: project management, planning, scheduling, cost estimating and finance and accounting.

To summarize an employee in this labor category would:

- Perform complex evaluations of existing procedures, processes, techniques, models and systems related to management problems or contractual issues that would require a report and recommends solutions; and
- Prepare charts, tables, graphs, and diagrams to assist in analyzing problems.

5.10 Level V – Technician

To be categorized as a Level V – Technician the employee must have (1) Bachelors Degree in computer science, information systems, engineering, business or related scientific or technical discipline and at least 3 years of pertinent experience or (2) equivalent experience in the field.

A Level V – Technician provides a variety of engineering tasks that are broad in scope and relate to the design and implementation of support facilities and/or equipment.

To summarize an employee in this labor category supports the:

- Planning and performance of engineering and Client specifications;
- Technical/engineering activities related to the development and integration of testing of a project assigned to higher-level engineers;
- Engineering drawings from rough sketches and verbal instructions; and
- Utilizes technical knowledge of design techniques and criteria, material fabrication and production and production processes and technical graphic techniques.

5.11 Level VI – Associate Technician

To be categorized as a Level VI – Associate Technician the employee must have (1) Bachelors Degree in computer science, information systems, engineering, business or related scientific or technical discipline and at least 1 year of pertinent experience or (2) equivalent experience in the field.

A Level VI – Associate Technician provides a variety of engineering tasks that are broad in nature and relate to the design and implementation of support facilities and/or equipment.

To summarize an employee in this labor category supports the:

- Planning and performance of engineering and Client specifications;
- Technical/engineering activities related to the development and integration of testing of a project assigned to higher-level engineers;
- Engineering drawings from rough sketches and verbal instructions; and
- Utilizes technical knowledge of design techniques and criteria, material fabrication and production and production processes and technical graphic techniques.

5.12 Level VII – Business Associate

To be categorized as a Level VII – Business Associate the employee must have (1) a High School Diploma or (2) equivalent experience in the field.

A Level VII – Business Associate prepares correspondence and/or maintains systems, programming and operations documentation, procedures and methods including user and reference manuals.

To summarize an employee in this labor category would:

- Maintain current internal documentation and the technical library;
- Provide and coordinate special documentation services as required; and
- Coordinate and provide administrative support to technical staff.

5.13 Level VII – Technical Specialist (Writer/Editor/Illustrator)

To be categorized as a Level VII – Technical Specialist (Writer/Editor/Illustrator) the employee must have (1) a Bachelors Degree in communication or related field and 1 year of experience or (2) equivalent experience in the field.

A Level VII – Technical Specialist (Writer/Editor/Illustrator) plans, manages and coordinate documentation of all aspects of the system-engineering life-cycle of projects.