

Contract Number: GS-00F-0032M

Contract Period: February 1, 2002 through January 31, 2022

Professional Engineering Services (PES) provides streamlined access to Michael Baker's technical expertise in the engineering disciplines of mechanical, electrical, structural, and components of civil engineering. The PES 871 SIN series can be used for domestic and overseas initiatives by all Federal agencies and authorized organizations and includes the wide range of services described below.

Time and material (T&M) or firm fixed price (FFP) orders for engineering services can be placed directly with Michael Baker by using approved labor categories and ceiling rates. Discounted rates may be offered on individual task orders or under Blanket Purchase Agreements (BPAs).

Special Item Numbers (SINs) awarded to Michael Baker under its Professional Services Schedule Contract (PSS) SIN Series 871 are:

- 871-1/RC: Strategic Planning for Technology Programs/Activities
- 871-2/RC: Concept Development and Requirements Analysis
- 871-3/RC: System Design, Engineering, and Integration
- 871-4/RC: Test and Evaluation
- 871-5/RC: Integrated Logistics Support
- 871-6/RC: Acquisition and Life Cycle Management
- 871-7/RC: Construction Management and Engineering Consulting Services Relating to Real Property

Note: The RC after each means that it may be used for GSA's Disaster Recovery Program where appropriate.

SPECIFIC SIN DESCRIPTIONS

SIN 871-1/RC - Strategic Planning for Technology Programs/Activities

Services required under this SIN involve the definition and interpretation of high-level organizational engineering performance requirements such as projects, systems, missions, etc., and the objectives and approaches to their achievement. Typical associated tasks include, but are not limited to an analysis of mission, program goals and objectives, program evaluations, analysis of program effectiveness, requirements analysis, organizational performance assessment, special studies and analysis, training, and consulting. Example: The evaluation and preliminary definition of new and/or improved performance goals for navigation satellites such as launch procedures and costs, multi-user capability, useful service life, accuracy and resistance to natural and man-made electronic interference. Professional engineering solutions do not include architect-engineer services as defined in the Brooks Act and FAR Part 2 or construction services as defined in the Federal Acquisition Regulation Part 36 and Part 2.

SIN 871-2/RC - Concept Development and Requirements Analysis

Services required under this SIN involve abstract or concept studies and analysis, requirements definition, preliminary planning, the evaluation of alternative technical approaches and associated costs for the development of enhancement of high level general performance specifications of a system, project, mission or activity. Typical associated tasks include, but are not limited to requirements analysis, cost/cost performance trade-off analysis, feasibility analysis, developing and completing fire safety evaluation worksheets as they relate to professional engineering services, regulatory compliance support, technology/system conceptual designs, training, consulting, define interfaces and environments, collision avoidance analysis, perform plume impingement analysis, coupled load analysis, conduct spacecraft / satellite manifesting, and creating interface control documents. Example: The development and analysis of the total mission profile and life cycle of the improved satellite including examination of performance and cost tradeoffs. Professional engineering solutions do not include architect-engineer services as defined in the Brooks Act and FAR Part 2 or construction services as defined in the Federal Acquisition Regulation Part 36 and Part 2. An implementation guide for Space Launch Integration Services (SLIS) can be found at www.gsa.gov/psschedule - click on Professional Engineering Solutions. Guide is applicable to SINs **871-2**, **871-3**, **871-4** and **871-5**.

SIN 871-3/RC – System Design, Engineering and Integration

Services required under this SIN involve the translation of a system (or subsystem, program, project, activity) concept into a preliminary and detailed design (engineering plans and specifications), performing risk identification/analysis, mitigation, traceability, and then integrating the various components to produce a working prototype or model of the system. Typical associated tasks include, but are not limited to computer-aided design, e.g. CADD, design studies and analysis, design review services, shop drawing review services, submittal review services, conducting fire protection facility surveys, developing risk reduction strategies and recommendations to mitigate identified risk conditions, fire modeling, performance-based design reviews, high level detailed specification and scope preparation, configuration, management and document control, fabrication, assembly and simulation, modeling, training, consulting, analysis of single or multi spacecraft missions, and mission design analysis. Example: The navigation satellite concept produced in the preceding stage will be converted to a detailed engineering design package, performance will be computer simulated and a working model will be built for testing and design verification. Professional engineering solutions do not include architect-engineer services as defined in the Brooks Act and FAR Part 2 or construction services as defined in the Federal Acquisition Regulation Part 36 and Part 2. An implementation guide for Space Launch Integration Services (SLIS) can be found at www.gsa.gov/psschedule - click on Professional Engineering Solutions. Guide is applicable to SINs **871-2**, **871-3**, **871-4** and **871-5**.

SIN 871-4/RC - Test and Evaluation

Services required 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, reverse engineering, simulation and modeling (to test the feasibility of a concept), system safety, quality assurance, physical testing of the product or system, training, privatization and outsourcing.

SIN 871-5/RC - Integrated Logistics Support

Services required under this SIN involves 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. Typical associated tasks include but are not limited to ergonomic/human performance analysis, feasibility analysis, logistics planning, requirements determination, policy standards/procedures development, long-term reliability and maintainability, training, privatization and outsourcing.

SIN 871-6/RC - Acquisition and Life Cycle Management

Services required under this SIN involve all 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, engineering specific logistics) to technology-based systems, activities, subsystems, projects, etc. Typical associated tasks include, but are not limited to operation and maintenance, program/project management, technology transfer/insertion, training, privatization and outsourcing.

SIN 871-7/RC - Construction Management Services

Services provided under this SIN include construction management, engineering consulting, project management, and related professional services specifically pertaining to real property. The construction management approach utilizes one or more firms with construction, design, and management expertise to expand the customer agency's capabilities, so that the agency can successfully accomplish its program or project. The contractor performing construction management services assumes the position of professional adviser to the customer agency. Customer agencies may utilize the construction manager as the principal agent to advise or manage the process over the project regardless of the project delivery method used. Construction management services include, but are not limited to, design phase support, procurement support, commissioning services, testing services, construction claims support, and post-construction engineering services. The contractor performing engineering consulting services functions as an advisor to the government to assist with executing engineering tasks associated with real

property. Engineering consulting services relating to real property include, but are not limited to, mechanical engineering, electrical engineering, fire protection engineering, forensic engineering, structural engineering, or any other specialized engineering consulting services that are utilized regarding real property. Authorized engineering consulting tasks include design reviews, shop drawing reviews, submittal reviews, inspection and testing services, witnessing acceptance tests of equipment and systems, commissioning, modeling and analysis, loss investigation, facility surveys, safety evaluations, research studies, risk mitigation strategy development or reviews, and other related technical consulting services. The contractor performing engineering consulting services shall not perform the construction of real property, nor be a named party under the construction contract. Project management services relating to a construction management or engineering consulting effort are authorized. NOTE 1: This Schedule does not include Architect-Engineer services as defined in the Brooks Act and does not include certification of designs or construction services as defined in the Federal Acquisition Regulation Part 36 and Part 2. NOTE 2: This Schedule does not include Davis-Bacon Act work as described in Federal Acquisition Regulation Subpart 22.4. NOTE 3: Some of the terminology used, such as professional engineer and design review, have multiple meanings in the engineering services profession. Under no circumstances should those terms be interpreted to include performance of Brooks Act services Section 1102 of 40 U.S.C. Chapter 11. NOTE 4: Review the Construction Management and Engineering Consulting Services Related to Real Property Guide which is available under SIN **871-7** using the following link: <http://www.gsa.gov/portal/content/245467> for additional information relating to scope of services allowed

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