

STATEMENT OF WORK

SUBJECT OF WORK: SCaN Program Systems Engineering and Analysis Support

1. BACKGROUND & DESCRIPTION OF WORK TO BE PERFORMED:

Background information:

The Contractor shall provide engineering services support to the Space Communications and Navigation (SCaN) Program. This Contractor support requires senior and mid-level engineering expertise, relevant experience with one or more of the SCaN projects (i.e, Space Network (SN), Deep Space Network (DSN), Near Earth Network (NEN), etc.), and a strong understanding of NASA engineering and management processes. The Contractor support also requires publications and graphics expertise to support the engineering activities.

Description of Requirements:

The Contractor shall provide level-of-effort services in the following areas:

- a. **Systems Engineering Support:** As needed, the Contractor shall provide systems engineering support to SCaN Network Services Division (NSD). This effort includes support such as generating, reviewing, and updating engineering specifications; SCaN planning and policy documentation; and performing technical analyses, studies, and assessments. This systems engineering support includes, but is not limited to, the following activities.
 - **Advanced Communications Services Continuing Support.** The Contractor shall continue supporting SCaN in developing and executing a plan and providing supporting documentation to transition advanced communications technology from a demonstration capability into an operational SCaN network service.
 - **SCaN Network Systems Engineering Support.** The Contractor shall provide systems engineering support on projects, tasks and activities related to the SCaN networks including trade studies and requirement implementation plans.
 - **DSN Aperture Enhancement Project (DAEP) Support.** The Contractor shall provide engineering support related to the DAEP development activities, including studies, modeling and analysis, site inspections, and construction and assembly assessments.
 - **Data and Network Integrity Support.** The Contractor shall support SCaN with identifying solutions to better ensure network physical and IT security. This effort includes, but is not limited to, supporting the development and implementation of a program-wide information and physical security program; supporting the development of policies and plans; supporting activities to preserve the availability, integrity and confidentiality of SCaN's information resources, and ensuring compliance with applicable security policies and standards. This effort also includes quick reaction type activities such as collaboration with NASA OCIO office on upcoming/new IT security directives,



analyzing IT security metrics from the networks, supporting security assessments and analyzing the results and technical guidance for System Security plan process.

b. **Quick Response Support.** As needed, the Contractor shall provide support on activities related to the planning and/or execution of SCA-related projects such as the SN, NEN, and DSN. This effort includes, but is not limited to, the following activities:

- i. Providing general SME support across all elements of the SCA programs
- ii. Participating in meetings and reviews including generating presentation materials, commenting on presentation content, and providing meeting minutes
- iii. Providing insight on other Agency program efforts
- iv. Coordinating with Senior NASA Staff
- v. Reviewing SCA program documentation and providing written comments and recommendations
- vi. Generating technical presentation related to SCA projects

2. SPECIAL REQUIREMENTS OR OTHER INFORMATION

a. Travel will be required in support of this task and all travel shall be approved by the COR prior to travel

3. DELIVERABLES

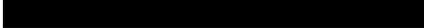
As needed, the Contractor shall deliver:

- i. Assessment on technology options or development activity progress
- ii. Evaluation of technical options
- iii. In-depth technical analysis and support to the technical trades and portfolio assessments

4. PERIOD OF PERFORMANCE

The period of performance for this task is 

5. Task Monitor

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