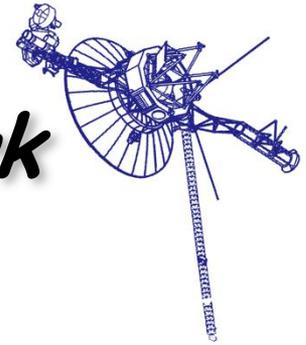




Deep Space Network Operations and Maintenance



*Michael Phalen
Subcontracts Manager*

March 6, 2012

Deep Space Network

- **NASA's Deep Space Network (DSN) was established in December 1963 to provide a communications infrastructure for all of NASA's robotic missions outside of earth orbit**
 - The NASA Headquarters Human Exploration and Operations Mission Directorate oversees the DSN through the Space Communications and Navigation (SCaN) Program
 - Responsibility for development, operations, and management of the DSN is assigned to the Jet Propulsion Laboratory (JPL) Interplanetary Network Directorate
 - The Deep Space Network Project Office at JPL handles programmatic management of the DSN and is also responsible for the engineering and operations of the DSN
- **The DSN's prime responsibility is telecommunications for NASA missions, but it also supports many international spacecraft as well as scientific investigations through radio astronomy, radio science, and radar activities**

Deep Space Network



Current DSN O&M Responsibilities

- DSN O&M Contract provides major support to the operation of the DSN world-wide, and complete responsibility for the Goldstone Deep Space Communications Complex. This includes:
 - Operation of the Deep Space Operations Center located at JPL
 - Remote Operations Center in Contractor facility for support of critical events and as part of continuity of operations plans for the DSN
 - Compatibility Test Trailer sent to spacecraft builders during testing
 - Launch support test facility at Kennedy Space Center (as needed)
 - Development Test Facility
 - Planning and logistical support for overseas complexes
 - Development engineering function for all facilities related work network wide

Contract Functions at Goldstone

- Real-time Operations
- Operational Equipment Maintenance
 - Antenna mechanical
 - Structural
 - Electronics
- Facility Maintenance
 - HVAC, power generation, power distribution, water distribution, plumbing, building maintenance, roads, waste water systems, ...
- Environmental, Safety, and Health
- Radio Spectrum and Airspace Coordination
- Advanced Systems (R&D) support and operations
- Outreach
- Security



Jet Propulsion Laboratory
California Institute of Technology

Contract Functions in Pasadena Area

- DSOC Real-time Operations
- Network Activities Planning
- Operations Engineering
- Facilities Development Engineering
- Compatibility Testing and Test Facilities
- Reliability Engineering
- Logistics
- Documentation and Configuration Management
- IT Security



Acquisition Strategy

- Best Value Source Selection
 - Technical/Management Evaluation
 - Cost
 - Past Performance
- Cost Plus – Performance Based
- Potential 10-year term
- General Provisions: Cost-Reimbursement With Commercial Organizations
- Incrementally Funded
- Will be posted on JPL external website (not FedBizOpps)
- NAICS Code: 517919 - All other telecommunications

Acquisition Strategy

- Request for Proposal - Evaluation Criteria
 - RFP will have small business goals
 - Proposed Small Business Subcontracting Plan will be part of the source evaluation
 - Expected target goals in the RFP (% of total subcontract value):
 - Small Business 25%
 - SDB 10%
 - Women-Owned 5%
 - HUBZone 3%
 - Veteran-Owned 3%
 - Service Disabled Veteran-Owned 2%

Procurement Schedule

- September 6, 2012 – Draft Request for Proposal (RFP) released
- September TBD, 2012 – Bidders Conference/Site Tours
- October 11, 2012 – RFP released
- December 13, 2012 – Proposals due
- May 1, 2013 – Source Selection
- July 1, 2013 – Subcontract execution – Transition Period
- October 1, 2013 – Subcontractor full responsibility

