

Rapid Response Space Works (RRSW)

Task Order 01 Initial Standup

Statement of Work

1.0 Rapid Response Space Works (RRSW) Initialization

1.1 Scope

This Statement of Work (SOW) delineates the tasks the contractor shall accomplish to manage the technical, schedule and cost performance necessary to initialize and establish the Rapid Response Space Works (RRSW) operations. This task will include the Systems Engineering and Integration (SE&I) activities identified in the RRSW Basic contract statement of work plus those initial standards and processes for routine and surge activities for the Integrated Logistics Support (ILS) and rapid Assembly, Integration, and Test (AI&T) functions (as referenced in Sections 3.1, 3.2, & 3.3 of the RRSW SOW).

1.2 Objective

The objective of the RRSW effort is to establish the capability and CONOPs for routine activities needed by the ORS Office to meet its mission of responding to time-critical Joint Force Commander (JFC) needs with space solutions by assembling the components of the Tier-2 modular, standards-based, reconfigurable bus, payload, ground, and launch architecture in 7 days. In addition to the rapid AI&T, the RRSW will support the ground operations of the satellites during the launch campaign and on-orbit checkout, calibration, and handoff to the User. The objective of this Task Order is to begin the foundational work to establish the RRSW in coordination with government and external industry participation.

1.3 APPLICABLE DOCUMENTS

- ORS Office Government Reference Architecture Document
- Space Plug-and-Play Avionics (SPA) Standards
- Integrated System Engineering Team (ISET) Spacecraft Bus Standards

1.4 Technical Tasks

1.4.1 Requirements Definition. The contractor shall develop a plan of how they will provide the required engineering, technical, and program management to meet the needs of the RRSW for day-to-day operations. The requirements shall address but is not limited to support equipment, test beds, facility needs, critical paths, processes, logistics, inventory, and modeling and simulation. The contractor shall incorporate ongoing ORS Office efforts to establish existing capability and prepare for future needs. The contractor shall capture these activities in a WBS format.

1.4.2 Standards. The contractor shall use the ORS Government Reference Architecture as a baseline to evolve in coordination with external government and industry with a philosophy of open standards to enable rapid response of ORS modular multi-mission capability.

1.4.2.1 Architecture Development. The contractor shall recommend, procure and utilize toolkits which support a responsive architecture design to include modularity approaches for hardware and software.

1.4.2.2 Interface Compatibility. The contractor shall ensure that all interfaces within the architecture adhere to a common standard; including all external interfaces.

1.4.3 Process Development. The contractor shall develop the initial processes required to meet rapid response timelines.

1.4.3.1 Process Validation. The contractor shall identify and perform initial validation of the processes through demonstrations as determined by the contractor.

1.4.3.2 Documentation. The contractor shall prepare and maintain program, test and integration, and other relevant documentation in accordance with CDRLS.

1.4.4 Support Equipment and Materials. The contractor shall execute plans for support equipment and materials as directed by the government.

1.4.4.1 Requirements. The contractor shall identify in a time phased manner recommended equipment and materials necessary to operate the RRSW.

1.4.4.2 Procurement and Installation. Upon approval by the government representative, procure and install the approved items.

1.5 Deliverables

1.5.1 Integrated Product Team. The contractor shall provide support to IPTs established to define integration, test, and processes required for RRSW AI&T activities.

1.5.2 Kick-Off Meeting. The contractor shall host a Kick-Off Meeting to review and introduce its organization, management and technical processes, program plan and schedule, and cost, schedule, technical, requirements and risk baselines.

1.5.3 Technical Interchange Meetings. Technical Interchange meetings shall be held with the Government, potential payload vendors, and potential ground segment providers as needed to identify and establish technical interface, assembly and integration activities.

1.5.4 Customer Communications. The contractor shall maintain proactive, open and responsive communication with the Government. Regular communication shall include support of Programmatic and Technical Interchanges taking the form of weekly telecons. In person reviews at the customer location or the contractor's facility will be performed as required.

1.5.5 Cost Performance. The contractor shall establish a program cost baseline to measure cost progress.

1.5.6 Integrated Master Schedule (IMS). The contractor shall develop and maintain an Integrated Master Schedule (IMS) by logically networking detailed program activities. The schedule shall contain the planned events and milestones, accomplishments, exit criteria, and activities from contract award to the completion of the contract. The contractor shall quantify risk in hours, days, or weeks of delay and provide optimistic, pessimistic, and most likely duration for each IMS activity and event.

1.5.7 Risk Management. The contractor shall identify program risks and individual mitigation plans to retire risks as defined in the Risk Management Plan. The contractor shall assess program risks on an ongoing basis and evaluate risk mitigation progress monthly.

1.5.8 Quality Assurance. The contractor shall accomplish quality assurance in accordance with its Quality Assurance Plan.

1.5.9 Work Breakdown Structure (WBS). The Government expects to see a WBS that incorporates items such as:

- 1.0 RRSW Development Program
 - 1.1 Program Management
 - 1.1.1 Program Management Lead
 - 1.1.2 Program Support
 - 1.1.3 Mission Assurance
 - 1.1.4 System Peer Reviews
 - 1.2 Systems Engineering
 - 1.2.1 Systems Engineering IPT Lead
 - 1.2.2 Requirements Management
 - 1.2.3 Budget Allocation & Management
 - 1.3 Logistics Support
 - 1.3.1 Parts Management
 - 1.3.2 Parts Analysis
 - 1.4 Integration & Test
 - 1.4.1 Integration & Test IPT Lead
 - 1.4.2 Integration & Test Facilities
 - 1.4.3 Bus Integration & Test
 - 1.4.4 Payload Integration & Test
 - 1.4.5 Ground System Integration & Test
 - 1.4.6 Spacecraft Environmental Testing

1.6 Estimated Period of Performance and Cost Baseline

1.6.1 Task Order 01 period of performance is estimated as a 3 year effort, two 1 year options

1.6.2 The baseline funding level for Task Order 01 is estimated at \$2M per year.

1.7 Deliverable Documentation

The following table details the Contract Deliverable Requirements List as proposed for the Rapidly Responsive Space Works IDIQ contract. To Be Determined.

DRAFT