

## Attachment (2) Operational Assessment Test Process

The operational assessment (OA) testing of the Production Representative Samples (PRS) will be performed at operational Naval Special Warfare units by the actual end users under the supervision of program office test engineers. There are four parts to the operational assessment testing: (1) Survivability and Reliability (MTBF, Operational Availability, and MTTR); (2) Verification of Physical and Electrical Characteristics and Operating Characteristics of Section C; (3) Evaluator Assessments of System Operation, System Design and Maintainability, and Documentation.; and (4) Production Readiness.

Factor (1) is Survivability and Reliability.

The Government shall validate EO system Mean Time Between Failure (MTBF), Operational Availability (Ao), and Mean Time To Repair (MTTR) in accordance with Section C.

Timeframe: Throughout the operational assessment period, PRS failure and maintenance data will be documented and evaluated against contract requirements.

No substitutions: The PRS units that are initially installed on the test craft must be the same units throughout the entire test period. No LRU substitutions will be allowed without approval from the Contracting Officer.

End Period: Upon completion of the 6-7 month assessment period, the contractors will disassemble their systems for the government representatives to inspect. The goal will be to look for dirt, moisture, and corrosion in the system electronics and seals as well as any other foreign substances that may have penetrated the integrity of the unit.

Factor (2) is the Verification of Physical and Electrical Characteristics and Operating Characteristics.

The Government will verify the physical characteristics as measured during the proposal evaluation and the following operational characteristics from Section C: Line of Sight Stabilization, day camera operation, laser range finder operation, thermal imager operation, fields of view, system power and current, video graphics, system modular configuration, EMC, LRU/system ease of installation, LRU coating reflectivity, marine environment protection, hand controller operation, communications interfaces, system light emissions/NVG compatibility, transportability, Narcissus effect, system architecture, bore sight, gimbal/gyro drift, BIT/fault isolation, positional data transfer, azimuth/elevation coverage, target tracking, gimbal slew rate, output video/symbology, system audible noise, detection/recognition ranges, operation after sun exposure, operation in rain conditions, and system startup time and recovery from loss of power.

Factor (3) is Evaluator Assessments of System Operation, System Design, and Documentation.

During the OA test period, users will operate and complete subjective evaluations of the PRS EO systems, while installed on operational craft, in terms of the system operation, system design, and the documentation. A PRS EO that is easier to install, easier to remove, easier to operate, easier to identify and isolate a fault, easier to maintain, and easier to access, and the corresponding technical documentation is easier to understand shall be rated more favorably.

Factor (4) is Production Readiness.

At the end of the OA, offerors shall be given the opportunity to update the following information requested in the original solicitation:

NOTE: For purposes of responding to the Production Plan section, assume 100 EO systems per year are being produced over a four year period (approximately).

- Describe your basic production facilities. Emphasize the capability and capacity that will be used for the production of all EO Systems.

- Describe changes or additions to your facility utilization and scheduling data for the production systems and all other firm or anticipated work, including production shops, assembly areas, and test facilities.
- Provide a plan with the layout of the facility identifying all major facilities, ways, shops, offices, etc.; describe the work flow; and the rationale of how to produce this EO system.
- Describe the manpower that will be used to perform the EO production. Discuss current and anticipated workload and how production of the EO system will be integrated with existing and projected work. Identify whether the EO system production manpower is currently available within the company or will new personnel will be hired. For new hires, describe how you will maintain quality, while integrating new personnel into your workforce.