

Design Reviews

1.0 Definition of terms:

1.01 The term “shall”, “will” and “may” are used with specific intent thought-out these documents and will observe the following rules:

- 1.1** Requirements defined using “**shall**” in the text are mandatory requirements and are considered to be binding and require formal verification. Departure from such a requirement is not permissible without formal agreement between Subcontractor and CSPI.
- 1.2** Requirements defined using “**will**” in the text expresses a provision or service by CSPI or an intention by CSPI in connection with a requirement of this document. The subcontractor is implicitly authorized to rely on such service or intention.
- 1.3** The word “**may**” in the text expresses a permissible practice or action. It does not express a requirement of this document.

2.0 Technical Reviews

The Subcontractor shall conduct technical reviews to include Contractor and the Contractor’s Customer participation. Every effort should be made to combine program and technical reviews to reduce the impact on schedule and travel costs. The Subcontractor shall submit an agenda, presentation material and meeting minutes for each technical review. In addition to the detailed content of each review, the Subcontractor shall create a presentation that includes the following:

- Identified problems and solutions and/or options as well as their relationship to cost and schedule as related to their supplier effort.

3.0 Preliminary Design Review (PDR)

The Subcontractor shall conduct a PDR to permit the Contractor and the Contractor’s Customer to formally review and approve the preliminary design.

The Subcontractor shall present preliminary project design, at PDR to include:

- a. The draft design including functional flow, requirements allocation data, internal and external interfaces, engineering drawings and schematic diagrams of the system.
- b. Results of prototyping efforts as applicable.
- c. Project development and metrics.
- d. Risk management matrix identifying risk areas and management actions to reduce risk.
- e. Preliminary design issues.
- f. Open issues associated with supplier data requirements list prerequisites.

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- g. Preliminary mechanical and electrical installation design including electromagnetic compatibility considerations, adequacy of the environmental control and thermal aspects, a definition of equipment to be removed, equipment to be procured or fabricated, and equipment to be modified.
- h. Preliminary presentation of the test program.
- i. End of life buy/parts obsolescence
- j. Operational considerations.
- k. Specialty Engineering, Configuration Management, Quality Assurance.
- l. Supportability.

4.0 Critical Design Review (CDR)

The Subcontractor shall conduct a CDR to permit the Contractor and the Contractor's Customer to formally review and approve the detailed design.

The Subcontractor shall present the following for review at the CDR:

- a. The final design including functional flow, requirements allocation data, internal and external interfaces, engineering drawings and schematic diagrams of the system.
- b. Development and metrics.
- c. Risk management matrix identifying risk areas and management actions to reduce risk.
- d. Critical design issues.
- e. Software. This should depict board support package, operating system, software mechanism for board to board communication, COTS software, including development tools and licenses.
- f. Final mechanical and electrical installation design including electromagnetic compatibility considerations, adequacy of the environmental control and thermal aspects, a definition of equipment to be removed, equipment to be procured or fabricated, and equipment to be modified.
- g. End of life buy/parts obsolescence
- h. Operational considerations (as required).
- i. Test Plan status.
- j. Specialty Engineering, Configuration Management, Quality Assurance.
- k. Supportability.

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5.0 Test Readiness Reviews (TRR)

The Subcontractor shall conduct a TRR to brief and discuss items, as applicable, that relate to test activities. The Subcontractor shall complete the following (prerequisite) prior to conducting the TRR:

- a. Completion of the CDR and closure of associated action items.
- b. Test Plan updates (as required).
- c. Test Procedures required.

The Subcontractor shall identify the following at the TRR:

- a. Test objectives.
- b. Schedules.
- c. Test requirements to be verified.
- d. Go and No-Go criteria.
- e. Test limitations.
- f. Review and status of planned test prerequisites.
- g. Test article hardware and software configuration status.
- h. Outstanding problems in hardware and software.
- i. Tests conduct formalities.
- j. Data collection and evaluation.
- k. Test verification and quality assurance.
- l. Status of Test Plan and Test Procedures.

6.0 System Verification Review (SVR)

The Subcontractor shall support the Contractor's SVR, as required, to verify that the actual performance of the system meets the required subset of requirements.

The Subcontractor shall complete and provide to the Contractor all test reports that verify the product meets the requirements of the SOW.