

DATA ITEM DESCRIPTION

Title: Systems Engineering Management Plan (SEMP)

Number: DI-SESS-81785

Approval Date: 20091014

AMSC Number: D9101

Limitation: None

DTIC Applicable: No

GIDEP Applicable: No

Preparing Activity: SE

Applicable Forms: N/A

Use/relationship: The SEMP describes the contractor's technical approach and proposed plan for the conduct, management, and control of the integrated systems engineering effort. It shall be consistent with the government Systems Engineering Plan (SEP), if available.

The SEMP content may be tailored depending on the scope, purpose, and the acquisition phase of the program. The contractor's SEMP shall contain the annotated mapping between contractor and government SE processes. The government SE processes may be noted in the SEP. The SEMP shall also show alignment of contractor and subcontractor SE processes.

This Data Item Description (DID) contains content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract.

This DID supersedes DI-MGMT-81024.

Requirements:

1. Reference documents. OSD's SEP Preparation Guide.
2. Format. The SEMP format shall be selected by the contractor.
3. Content. The SEMP shall describe the contractor's planned systems engineering approach to meeting the program's contract, objectives, and overall technical and management approach. The SEMP shall describe the contractor's detailed operational plan for executing systems engineering. It shall be consistent with the content of the government SEP.
4. In the absence of a government SEP, the SEMP topics should address, at a minimum, those in the Office of the Secretary of Defense [Systems Engineering Plan Preparation Guide](#) active at the time of the Request for Proposal. The SEMP shall also include:
 - a. Technical solution activities:
 - 1) Development, documentation, maintenance, and communication of detailed system architectures (functional and physical) and detailed interfaces – both internal and external
 - 2) Performance of trade studies for critical design decisions

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3) Integration, verification, and validation

- b. Related planning associated with application of the contractor's systems engineering processes as tailored to meet the needs of the program and at a level of detail necessary for the contractor to manage and execute the technical effort. Details of process integration and communication with subcontractors and suppliers shall be provided.
- c. Referenced lower-level and subcontractor technical plans, e.g., risk management, requirements management, data management, and configuration management, as determined necessary by the contractor to plan and execute a total systems engineering effort.
- d. Other areas deemed necessary to execute systems engineering to meet the program's contract, objectives, and overall technical and management approach.

END OF DI-SESS-81785