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DATA ITEM DESCRIPTION

Title: Producibility Analysis Report

Number: DI-MGMT-80797A
AMSC Number: 10010
DTIC Applicable: No
Preparing Activity: CR

Approved Date: 20190410
Limitation: N/A
GIDEP Applicable: No
Project Number: MGMT-2018-046

Applicable Forms: N/A

Use/Relationship: Producibility analysis as a requirement permits the evaluation of the manufacturer's methods of conducting investigations and assessments to determine the most effective manufacturing methods of an end product within cost and associated schedule. The Producibility Analysis Report shall describe design characteristics and material selections which are compatible with economic production methods to include supply inventory availability and stability for longer term end product sustainment.

a. This Data Item Description (DID) contains the format, content, and intended use information for the data deliverable resulting from the work task described in the solicitation.

b. This DID is applicable during Producibility Engineering and Planning (PEP) and engineering in support of new items planned to enter production.

c. This DID supersedes DI-MGMT-80797.

Requirements:

1. Reference document. None.

2. Format. Contractor's format is acceptable.

3. Content. The manufacturer shall ensure that the design will have, consistent with the quality and design requirements, the specific characteristics for producibility and sustainment. The Producibility Analysis Report shall contain the following:

   3.1. Procedures, drivers and criteria for selecting candidate items for producibility analysis

   3.2. Individual trade-off studies, when applicable, on:
      3.2.1. Cost Data
      3.2.2. Producibility schedules
      3.2.3. Resource adequacy (tooling, equipment, facilities, etc.)
      3.2.4. RAMI (Reliability, Availability, Maintainability and Inspectability)
      3.2.5. Interchangeability

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3.2.6. Interoperability
3.2.7. Design to Cost (DTC) Goals
3.2.8. Standardization of design, materials and components
3.2.9. Critical Material(s) and associated supply inventory availability and stability for product sustainment
3.2.10. Involvement of major critical suppliers.
3.2.11. Risk Mitigation with Diminishing Manufacturing Sources and Materials Sources (DMSMS) and Obsolescence
3.2.12. Safety and risk mitigation plans for manufacturing risks
3.2.13. Manufacturing process capabilities
3.2.14. Any other factors impacting program objectives

3.3. Recommendation for producibility enhancements to include:
3.3.1. Producibility processes and plan
3.3.2. Material changes
3.3.3. Resource planning
3.3.4. Facility improvements
3.3.5. Development of manufacturing technology
3.3.6. Redesign of special purpose tooling and equipment
3.3.7. Changes to improve procedures
3.3.8. Redesign for manufacturing
3.3.9. Safety and ergonomics for effective design and operation
3.3.10. Mitigate Risk with DMSMS and Obsolescence

3.4. Production Configuration Baseline & Changes: Inspection of marked-up or redrawn drawings and associated proposed or approved changes in accordance with the approved configuration baseline and any other related technical documents to indicate recommended and/or approved changes to the item or end product.

End of DI-MISC-80797A.