

## DATA ITEM DESCRIPTION

**Title:** SPECIAL INSPECTION EQUIPMENT (SIE) DRAWINGS AND ASSOCIATED LISTS

**Number:** DI-SESS-81004B

**Approval Date:** 20011214

**ASMC Number:** A7433

**Limitation:**

**DTIC Applicable:**

**GIDEP Applicable:**

**Office of Primary Responsibility:** AR

**Applicable Forms:**

**Use/relationship:** Special Inspection Equipment (SIE) Drawings and Associated Lists provide the data required for the limited production of SIE, which duplicates the physical and performance characteristics of the original SIE.

- a. This Data Item Description (DID) contains the format and content preparation instructions for SIE Drawings and Associated Lists resulting from the work task described by 3.6.5 of MIL-DTL-31000B.
- b. This DID is applicable to acquisitions of military systems, equipment, and components that require the use of special inspection equipment to achieve the engineering requirements of the item.
- c. When this DID is imposed in a contract or purchase order, consideration should be given to applying DI-QCIC-81006, Special Inspection Equipment Descriptive Documentation.
- d. This DID supersedes DI-DRPR-81004A, which superseded DI-CMAN-81004.

### Requirements:

1. Reference Documents. The applicable issue of documents cited herein, including their approval dates and the dates of applicable amendments, notices, and revisions, shall be as cited in the contract.
2. General. SIE Drawings and Associated Lists shall meet the requirements of MIL-DTL-31000B. SIE Drawings and Associated Lists shall be in accordance with ASME Y14.100, or, if applicable, ASME Y14.100 and Appendices B through E, as required, and ASME Y14.34M.
3. Format. SIE Drawings and Associated Lists shall be in contractor format or as specified in the contract.
4. Content. SIE Drawings and Associated Lists shall provide the design disclosure information necessary to permit the manufacture of inspection equipment that duplicates the functions of the original SIE. SIE Drawings and Associated Lists shall include:
  - a. Details of processes, which are essential to achieving the engineering requirements of the item when these processes are not published or generally available to industry.
  - b. Performance ratings and tolerances.

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- c. Dimensions and tolerances
  - d. Critical manufacturing processes and assembly sequences.
  - e. Tolerance input and output characteristics
  - f. Diagrams
  - g. Mechanical and electrical connections
  - h. Physical characteristics, including form and finish requirements
  - i. Details of material identification, including heat treatment and protective coatings
  - j. Inspection, test and evaluation criteria
  - k. Calibration information
  - l. Environmental requirements
  - m. Reliability requirements.
  - n. Maintainability requirements
5. Selection of drawings. The types of drawings and associated lists to be prepared shall be selected from ASME Y14.24 and ASME Y14.34M. The TDP Option Selection Work Sheet incorporated in the contract or purchase order will specify whether the contractor or the Government is responsible for selecting the types of drawings and associated lists to be prepared.
6. Multi-detail and detail assembly drawings. Multi-detail and detail assembly drawings may be used at the discretion of the contractor. The mono-detail drawing system shall not be mandatory for SIE drawing packages.
7. CAGE Code and document numbers. SIE Drawings and Associated Lists will be identified with the contractor's CAGE Code and contractor document numbers or with a Government CAGE Code and Government document numbers as specified in the TDP Option Selection Work Sheet incorporated in the contract.
8. Control drawings. Vendor items used in the SIE, without alteration, selection, or source qualification, shall be identified on SIE Drawings and Associated Lists by the vendor's CAGE Code and item identification. Vendor Item Control Drawings are not required for vendor items. When vendor items must be altered, selected, or require source qualification prior to use in the SIE, they shall be documented on Altered Item, Selected Item, or Source Control Drawings in accordance with ASME Y14.24.

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9. SIE Drawings and Associated Lists shall include references to applicable SIE Operating Instructions, SIE Descriptive Documentation and SIE Calibration Procedures, when these data products are required by the contract or purchase order.