

## DATA ITEM DESCRIPTION

**Title:** SPECIAL TOOLING (ST) DRAWINGS/MODELS AND ASSOCIATED LISTS

**Number:** DI-SESS-81008C

**Approval Date:** 10 Sept 04

**ASMC Number:** A7537

**Limitation:**

**DTIC Applicable:**

**GIDEP Applicable:**

**Office of Primary Responsibility:** AR

**Applicable Forms:**

**Use/relationship:** Special Tooling (ST) Drawings/Models and Associated Lists provide the data required for the limited production of ST which duplicates the physical and performance characteristics of the original ST.

- a. This Data Item Description (DID) contains the format and content preparation instructions for ST Drawings/Models and Associated Lists resulting from the work task described by 3.6.2.6 of MIL-DTL-31000C.
- b. This DID is applicable to acquisition of military systems, equipment, and components which require the use of special tooling to achieve the engineering requirements of the item.
- c. This DID supersedes DI-SESS-81008B.

### 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 or purchase order.
2. General. ST Drawings and Associated Lists shall meet the requirements of MIL-DTL-31000C. ST 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, ASME Y14.34, and ASME Y14.41.
3. Format. ST Drawings/Models and Associated Lists shall be in contractor or Government format or as specified in the contract or purchase order.
4. Content. ST Drawings/Models and Associated lists shall provide the design disclosure information necessary to permit the manufacture of tooling that duplicates the functions of the original ST. ST Drawings/Models and Associated Lists shall provide:
  - a. Details of processes which are not published or generally available to industry, when these processes are mandatory to achieving the engineering requirements of the tooling.
  - b. Performance ratings and tolerances.
  - c. Dimensions and tolerances

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- d. Critical manufacturing processes and assembly sequences.
- e. Toleranced 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. Calibration information.
- k. Environmental requirements.
- I. Reliability requirements.
- m. 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 applicable TDP Option Selection Worksheet 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 ST Drawing/Models packages.

7. CAGE Code and document numbers. ST Drawings/Models and Associated Lists shall 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 applicable TDP Option Selection Worksheet incorporated in the contract.

8. Control drawings. Vendor items used in the ST without alteration, selection, or source qualification shall be identified on ST Drawings and lists by the manufacturer's CAGE Code and part or identifying number. Vendor Item Control Drawings are not required for vendor items. When vendor items must be altered, selected, or required source qualification prior to use in the ST, they shall be documented on Altered Item, Selected Item, or Source Control Drawings in accordance with ASME Y14.100 and ASME Y14.24.