

DATA ITEM DESCRIPTION

Title: ENGINEERING DRAWING TREE

Number: DI-DRPR-81961A

Approval Date: 20190814

AMSC Number: F10068

Limitation: N/A

DTIC Applicable: No

GIDEP Applicable: No

Preparing Activity: 11 (AFLCMC/EZSC)

Project Number: DRPR-2019-004

Applicable Forms: N/A

Use/Relationship: The Engineering Drawing Tree identifies the interrelationships of engineering design data and associated lists that comprise the total engineering Technical Data Package (TDP) prepared for each system, subsystem, and component configuration. The Engineering Drawing Tree also aids in the control and development of design data in the overall project.

- a. This Data Item Description (DID) contains the format, content, and intended use information for an Engineering Drawing Tree resulting from the work task described by 5.14.5 of MIL-STD-31000, *Technical Data Packages*. (Copies of this document are available online at <https://quicksearch.dla.mil>.)
- b. This DID supersedes DI-DRPR-81961.

Requirements:

1. Reference documents. The applicable issue of the documents cited herein, including their approval dates and dates of any applicable amendments, notices, and revisions, shall be as specified in the contract.
2. Format. The Engineering Drawing Tree shall be structured in top-down breakdown order, at the lowest level of assembly (i.e., lowest repairable unit) or the lowest component or piece part. Each artifact of design data included on the Engineering Drawing Tree shall be shown as an individual block or as an individual entry on the indented list. Each authorized variation in configuration of the system, subsystem, and component shall be identified by a separate tree. The Engineering Drawing Tree shall be either in a block diagram format or an indented parts list format as specified in the contract.
 - 2.1. Page one, or its equivalent, shall show the top level system block diagram, depicting the system's subsystems or major assemblies, and shall be used as an index for the detailed Engineering Drawing Tree that follows.
3. Content. The Engineering Drawing Tree shall identify all system, subsystem, and component design data to be delivered as part of the TDP and the design data previously delivered that are applicable to the current program. The Engineering Drawing Tree shall also include design data as specified in 3.1.18 and 3.1.40 of MIL-STD-31000 to include: models, 3-Dimensional Intelligent (3Di) viewable, engineering drawings, associated lists, specifications, standards, quality assurance provisions, packaging details, commercial drawings, computer software documentation, and Vendor Item Control document (or specification control document).
 - 3.1 Each block, or indenture item, shall include the following:
 - a. Document or drawing (or equivalent) number.

DI-DRPR-81961A

- b. Title of the document or drawing (or equivalent).
- c. Latest revision or revision date.
- d. Document or drawing (or equivalent) Commercial and Government Entity (CAGE) Code.
- e. Work Breakdown Structure (WBS) reference in accordance with MIL-STD-881, *Work Breakdown Structures for Defense Materiel Items, Appendices A-L*. (Copies of this document are available online at <https://quicksearch.dla.mil>.)
- f. Reference designation, if required (see American Society of Mechanical Engineers (ASME) Y14.100, *Engineering Drawing Practices, Engineering Product Definition and Related Documentation Practices, D-3.2 & D-11*). (Copies of this document are available online at <https://www.asme.org>.)
- g. Reference Marking for Data Rights (i.e., U = Unlimited, L = Limited, GPR = Government Purpose Rights, etc.) in accordance with the Defense Federal Acquisition Regulation Supplement (DFARS), Part 252, Solicitation Provisions and Contract Clauses, §§252.227-7013, *Rights in Technical Data--Noncommercial Items*; 252.227-7014, *Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation*; 252.227-7015, *Technical Data--Commercial Items*; and 252.227-7018, *Rights In Noncommercial Technical Data And Computer Software--Small Business Innovation Research (SBIR)*. (Copies of this document are available online at <https://www.acq.osd.mil/dpap/dars>.)
- h. Distribution Statement (i.e., A, B, C, D, E, etc.) in accordance with Department of Defense Instruction (DoDI) 5230.24, *Distribution Statements on Technical Documents*, Enclosure 4. (Copies of this document are available online at www.esd.whs.mil/DD.)
- i. The applicable classification marking, as necessary, in accordance with Department of Defense Manual (DoDM) 5200.01, Volume 2, *DoD Information Security Program: Marking of Information*. (Copies of this document are available online at www.esd.whs.mil/DD.)

End of DI-DRPR-81961A