

# DATA ITEM DESCRIPTION

## Title: NONDESTRUCTIVE INSPECTION (NDI) PROGRAM PLAN

**Number:** DI-NDTI-82181

**Approval Date:** 20180307

**AMSC Number:** F9897

**Limitation:** N/A

**DTIC Applicable:** No

**GIDEP Applicable:** No

**Preparing Activity:** 11 (AFLCMC/EZFS)

**Project Number:** NDTI-2018-001

**Applicable Forms:** N/A

**Use/Relationship:** The Nondestructive Inspection (NDI) Program Plan will be applicable to any system acquisition that includes a requirement for an NDI program and shall be used for structural components for aircraft, missiles and related systems and critical components produced by the contractor, subcontractors and suppliers. The NDI program plan shall address all phases of the system lifecycle to include NDI requirements during development, test, demonstration, production and sustainment phases.

This Data Item Description (DID) contains the format, content, and intended use information for the data deliverable resulting from the technical requirements described in 5.1.6 of MIL-STD-1530 (USAF), *Aircraft Structural Integrity Program (ASIP)*.

(Copies of this document are available online at <http://quicksearch.dla.mil>.)

### 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 plan shall be in the contractor's format
3. Content. The specific approaches used for NDI of the system shall be documented utilizing the requirements in MIL-STD-1530 (USAF). Additional guidance for NDI Program Plans can be found in MIL-HDBK-6870, *DoD Nondestructive Inspection Program Requirements for Aircraft and Missile Materials and Parts*. The NDI Program Plan shall present the scheme for establishing the NDI requirements and implementing procedures to meet these requirements.

(Copies of this document are available at <http://quicksearch.dla.mil>.)

- 3.1 Describe the process for conducting parts criticality classification.
- 3.2 Describe the process for coordination of design requirements and production NDI procedures.
- 3.3 Describe how production NDI procedures are prepared and approved.
- 3.4 Describe how production NDI capabilities are demonstrated.
- 3.5 Describe the process for qualification of NDI vendors to meet production capability requirements.

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- 3.6 Describe the means to obtain and maintain qualified NDI staff and an accredited NDI training/certification program.
- 3.7 Describe the process for implementation of production NDI procedures.
- 3.8 Describe the means for coordination and documentation of NDI requirements to support long-term sustainment including structural repairs.
- 3.9 Describe the methods used for preparation of NDI technical data for long term sustainment.
- 3.10 Describe the processes for validation and verification of NDI technical data for sustainment.
- 3.11 Describe how sustainment NDI capability will be assessed and documented.
- 3.12 Describe how NDI methods and procedures to support test articles are developed.
- 3.13 Describe the approach for qualification of new technologies for use during production or component/aircraft testing or during the service life of the system.
- 3.14 Describe the procedures for qualification of NDI methods adapted for the purpose of in-situ structural damage sensing.

End of DI-NDTI-82181