

FIRST ARTICLE INSPECTION

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Abstract:

This document describes the process for first article inspection.

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REVISION LOG

Issue	Date	Comment	Author
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DOCUMENT CHANGE RECORD

Issue	Item	Reason for Change

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1.0 Scope

Establish requirements for performing and documenting First Article Inspection.

2.0 Requirements

2.1 *Manufactured Items*

The Company shall perform First Article Inspection (FAI) on items that represent the production process; that is, products that have been manufactured by R&D processes using lab-scale production equipment do not represent a production process. Items that represent the production process have been through several design reviews that help to catch manufacturability problems at the paper design stage. An item ready for production normally has:

1. [REDACTED]
2. [REDACTED]
3. [REDACTED]
4. [REDACTED]

The final product and all its subassemblies need [REDACTED]

2.2 *Evaluations*

The Company should prepare the following Configuration Definition Data Package to ensure complete evaluation of objective evidence that establishes product conformance to Customer requirements:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

All documents should be reviewed to [REDACTED]

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2.3 Partial or Complete First Article Inspection

First article inspections shall be re-performed for each design requirement that is changed by authorized configuration updates, i.e., [REDACTED]

A complete or partial first article inspection shall be performed as directed by the Customer or when a change or finding affects one or more of the following items, or production has been suspended for two years:

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

2.4 Nonconformities

All nonconformities and corrective actions must be closed prior to performance of a first article inspection. Nonconformities discovered during a first article inspection must [REDACTED]

2.5 Records

Each design requirement shall be identified, verified and recorded on report forms. Continuation sheets may be used if the form is completed electronically. Design requirements that are identified as "Reference" are [REDACTED]

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[REDACTED] Design requirements that cannot be assessed in an assembly must be verified in the sub-assembly during the production process or by [REDACTED] Sub-assembly or production process verifications should be recorded on the assembly report form. Units of measure that are specified on each design requirement shall [REDACTED] [REDACTED] If a design requirement is a visual or mechanical "go or no-go" requirement or acceptance is verified using approved tooling [REDACTED]

Guidelines to Complete the First Article Inspection Forms

Instructions to Complete Form 1

Complete this form following its format to record results for individual items, subassemblies and assemblies – all fields must [REDACTED]

Instructions to Complete Form 2

Complete this form following its format to record results for design requirements relating to materials, processes and applicable performance testing – all fields must [REDACTED]

Instructions to Complete Form 3

Complete this form following its format to record results for specification and engineering blueprint notes with reference to their location in the requirement document and designation such as [REDACTED] – all fields must [REDACTED]

First Article Inspection Forms

If you desire to register your QMS, you will need to purchase the SAE sponsored AS9102 document to prove to your Registrar that you understand the requirements. Please visit the SAE website to purchase the FAI standard: <http://standards.sae.org/as9102/>