



Generic Inspection Procedure, Inspection per Engineering Drawing or Specification

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. To provide a means for documenting the results of inspections per engineering drawings or specifications performed by engineering personnel when evaluating whether requirements listed Component Technical Specifications (CTS), Subsystem Technical Specifications (SSTS), and Vehicle Technical Specifications (VTS) are met by the product design.

1.2 Applicability. Passenger cars, light trucks, subsystems and components. This procedure is not intended to replace the Product Design Compliance Report (PDCR) Process or Engineering Judgment Letters. This procedure is **not** for comparing the part dimensions to its drawing specifications.

1.3 Remarks. "Inspection" is one of the four methods of validation cited in the Vehicle Development Process (VDP).

During the course of conducting product programs, engineering personnel may be able to inspect various types of engineering documentation to determine whether technical specifications are met by the product design.

It is anticipated that this procedure will not be used for product performance related technical requirements.

This procedure provides a mechanism for describing the basic methods to be followed and documenting the results to ensure that requirements designated for validation via "Inspection" are properly validated to.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

None

2.3 Additional References.

- Automotive Regulation Information Database.
- Component Technical Specifications (CTS).
- Drawing specifications.
- Engineering documentation.
- Engineering drawings.
- Engineering Judgment Letters.
- Other supporting documentation.
- Product Design Compliance Report (PDCR).
- Subsystem Technical Specifications (SSTS).

- Validation Cross Reference Index (VCRI).
- Vehicle Development Process (VDP).
- Vehicle Technical Specifications (VTS).

3 Resources

3.1 Facilities. Not applicable.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment. Not applicable.

3.3 Test Vehicle/Test Piece. Not applicable.

3.4 Test Time.

Calendar time: 2 days

Test hours: 1 h

Coordination hours: 1 h

3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Engineering personnel with appropriate training and background to inspect engineering documentation and evaluate conformance to requirements.

4 Procedure

4.1 Preparation. Obtain appropriate technical specifications, engineering specifications and drawings and any other supporting documentation as required.

4.2 Conditions. Not applicable.

4.2.1 Environmental Conditions. Not applicable.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions.

4.3.1 Cite the specific engineering drawing or engineering specification name and number, revision level, date, etc., on Appendix A, Data Sheet A1. Reference the technical specification requirement on the Validation Cross Reference Index (VCRI).

4.3.2 Indicate whether the engineering documentation supports the conclusion that the technical specification requirement is met in whole or in part by this evaluation.

4.3.3 Complete all applicable fields on Data Sheet A1 and sign and date.

4.3.4 If tests, demonstrations or analyses of physical test properties must be included to complete the evaluation, indicate on Data Sheet A1.

5 Data

5.1 Calculations. Not applicable.

5.2 Interpretation of Results. Not applicable.

5.3 Test Documentation. Record pertinent test results on Data Sheet A1.

5.4 Legal Requirements. This procedure may be used to document the Inspection Results against several types of requirements from the technical specifications. As such, the following disclaimer may apply.

"The Federal Motor Vehicle Safety Standard (FMVSS) requirements and the export vehicle requirements in this section are given only for convenience and may have been summarized from the Automotive Regulation Information Database, as published by GM Safety Regulations and Certification. The Automotive Regulation Information Database contains the most recent statement of FMVSS requirements and export requirements and