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**Global Statement of Requirements**

**Appendix G2:**

**‘Analysis Development Validation Process**

**Tasks & Deliverables’**

**For**

**MY 2028 T1XX-2 SUV**

***Mirror Reinforcement Castings***

Author: Bhavin Mandalia

Author’s Phone Number: 586-234-0014

Author E-mail address: [bhavin.mandalia@gm.com](mailto:bhavin.mandalia@gm.com)

Table of Contents

[1. INTRODUCTION 4](#_Toc170462959)

[1.1 Purpose 4](#_Toc170462960)

[1.2 Use of Engineering Title ‘GM Validation Owner’ in this Document 4](#_Toc170462961)

[1.3 Order of Precedence 4](#_Toc170462962)

[2. REFERENCES 4](#_Toc170462963)

[2.1 Referenced Forms 4](#_Toc170462964)

[2.2 The following forms can be accessed from https://accuristech.com/ 4](#_Toc170462965)

[2.3 The following documents are available from Engineering 4](#_Toc170462966)

[2.4 The following forms can be accessed on GM SupplyPower 5](#_Toc170462967)

[2.5 The following documents are available in the eSOR package 5](#_Toc170462968)

[3. ADV PLANNING REQUIREMENTS for SUPPLIERS 5](#_Toc170462969)

[3.1 ADV Planning Documentation 5](#_Toc170462970)

[3.2 Supplier Requests for Program Material 6](#_Toc170462971)

[3.3 Revisions to Plans 6](#_Toc170462972)

[3.3.1 Revisions to ADV Planning Documentation. 6](#_Toc170462973)

[3.3.2 Refer to Appendix G1 (GMW3600). 6](#_Toc170462974)

[3.3.3 Revisions to CEMENT Planning Documentation 6](#_Toc170462975)

[3.3.4 Revisions to Software Planning Documentation 6](#_Toc170462976)

[3.4 Material Color Development ADV Planning / Documentation 6](#_Toc170462977)

[3.5 Material Construction and Color Development Requirements 7](#_Toc170462978)

[3.6 Additional & Exceptions to ADV Planning Requirements 7](#_Toc170462979)

[3.6.1 Additions to ADV Planning Requirements 7](#_Toc170462980)

[3.6.2 Exception to ADV Planning Requirements 7](#_Toc170462981)

[3.6.3 Electrical Component Requirements. 7](#_Toc170462982)

[3.6.4 Serial Data, Diagnostics and OTA Test Requirements. 7](#_Toc170462983)

[3.6.5 Diagnostic Test Requirements. 7](#_Toc170462984)

[3.6.6 OTA (Over the air programming) Test Requirements. 7](#_Toc170462985)

[3.6.7 Component Software Validation and Verification Requirements. 7](#_Toc170462986)

[3.6.8 AUTOSAR Configuration Test Requirements. 7](#_Toc170462987)

[3.6.9 Audio Tuning (AM/FM/SXM/DAB) Timeline. 7](#_Toc170462988)

[4. ADV EXECUTION REQUIREMENTS for SUPPLIERS 7](#_Toc170462989)

[4.1 High-level ADV Responsibilities for Supplier 7](#_Toc170462990)

[4.2 Supplier ADV Execution Requirements 8](#_Toc170462991)

[4.2.1 Additional Program and/or Commodity specific Requirements 8](#_Toc170462992)

[4.2.2 Exceptions to GMW3600 ADV Execution Requirements 8](#_Toc170462993)

[4.3 Math-based Modeling Requirements and Support of Virtual Reviews 8](#_Toc170462994)

[4.4 Pre-Production Hardware Builds 9](#_Toc170462995)

[4.5 ADV Execution Status & ADV Issue Documentation 9](#_Toc170462996)

[4.6 Section Removed 10](#_Toc170462997)

[4.7 Post Validation Audit (reference GMW3600 and GMW15758). Refer to Appendix G1 10](#_Toc170462998)

[4.8 Regulatory Compliance/ Certification Requirements 10](#_Toc170462999)

[4.9 Other Supplier Interface Responsibilities. Refer to Appendix G1 (GMW3600). 10](#_Toc170463000)

[4.10 Program Integration Material 10](#_Toc170463001)

[4.11 Use of Surrogate Data. 10](#_Toc170463002)

[4.12 Cybersecurity. 10](#_Toc170463003)

[4.13 DFMEA Requirements. 10](#_Toc170463004)

[4.14 Section Removed – 4.14 10](#_Toc170463005)

[4.15 Required Documentation. 10](#_Toc170463006)

[4.16 Supplier Requirements to Provide Support and Enable GM Hardware-in-the-Loop (HIL) Simulation Interface to Controller and Features. - Section removed – refer to Appendix G6 (CG6529). 10](#_Toc170463007)

[5. COMMODITY VALIDATION SIGN-OFF 10](#_Toc170463008)

[6. ADV & BUILD STAGE TERMINOLOGY 10](#_Toc170463009)

[6.1 General ADV Terminology 10](#_Toc170463010)

[6.2 Acronyms, Abbreviations and Symbols. 11](#_Toc170463011)

[7. REVISION HISTORY 12](#_Toc170463012)

[7.1 Revision History: Program G2 12](#_Toc170463013)

# INTRODUCTION

## Purpose

This document supplements GMW3600 ‘Generic Supplier ADV Process Tasks and Deliverables’ and defines the additional program and commodity specific mandates associated with development and validation (i.e., analytical and physical evaluations) of the mirror reinforcement castings for the 2028 T1XX-2 SUVs. It also documents the exceptions, if any, to the requirements specified in GMW3600. Unless otherwise specified in writing by the appropriate Program(s), the ADV process requirements specified in this document shall be met.

General Motors reserves the right to modify the ADV mandates specified in this document after source selection based upon the capabilities of the selected supplier.

## Use of Engineering Title ‘GM Validation Owner’ in this Document

In this document the title, GM Validation Owner is used to refer to the GM Engineer(s) that are responsible to confirm that the mirror reinforcement castings provided by the Supplier, successfully meets the technical requirements as specified in the Statement of Requirements.

The GM Validation Owner may have the title ‘Design Release Engineer’, ‘Product Validation Owner’, or other titles such Designing Engineer or Lead Engineer.

## Order of Precedence

In the event of a conflict between the process and documentation requirements specified herein, the order of precedence (from highest to lowest) is as follows:

1. SOR Appendix B (Exceptions to use of GMW3600 and Appendix G2 only)
2. SOR Appendix G2, "Commodity/Program-specific Analysis/Development/Validation Process Tasks & Deliverables"
3. Appendix G5 (CG5002) takes precedence for all Software Validation Requirements
4. Appendix G6 (CG6529) takes precedence for all electrical requirements.
5. GMW3600, "Appendix G1 – General Motors Generic Supplier Analysis/Development/Validation Process Tasks & Deliverables."

# REFERENCES

Note: the latest published versions of all documents in the SOR package, as of the date of the Purchasing Contract Award, are to be used.

## Referenced Forms

The following forms can be accessed at [http://www.gmsupplypower.com](http://www.gmsupplypower.com/) in the Engineering Library/Global/Technical Standards & References/Standards.

Not Applicable

## The following forms can be accessed from https://accuristech.com/

GM3660:  Commodity Validation Sign-off Form

CG4816:  Commodity Validation Sign-off Form (embedded in GMW3600 - - must purchase GMW3600).

CG4649: Proof of Validation Letter Template (embedded in GMW3600 - - must purchase GMW3600).

GMW15758 - ADV Process Development and Validation Terminology

GMW15760 Multi-Vari Sample Selection Procedure for Product Validation

GMW3172: General Specification for Electrical/Electronic Components – Environmental/Durability

GMW3097: General Specification for Electrical / Electronic Components

GMW14797 - Painted Plastic Parts Performance Requirements

## The following documents are available from Engineering

No Documents from Engineering Required

## The following forms can be accessed on GM SupplyPower

Not Applicable

## The following documents are available in the eSOR package

Not Applicable

# ADV PLANNING REQUIREMENTS for SUPPLIERS

The Supplier shall meet the ADV Planning requirements defined in Section 3 of GMW3600, with the following additions and exceptions.

## ADV Planning Documentation

Supplier shall meet the requirements for ADV planning documentation specified in Table 3.1. The Supplier shall obtain GM approval no later than the date specified for each of the documents designated with a "yes" in the "GM Approval Required" column of Table 3.1. Note that the ADV Planning documents specified in Table 3.1 are only those that are needed for GM's ADV Planning activity. Table 3.1 does not describe all the ADV documents that the Supplier may need to adequately define and manage their ADV activities, and the ADV activities of their Tier 2 and Tier 3 suppliers.

**Table 3.1 ADV Planning Documentation Requirements for Format, Delivery and GM Approval**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description of Documentation** | **Required Format Content and/or Details** | **Required Timing for Availability/Completion** | **GM Approval Required** | **Submit ADV Documentation to:** |
| **VCRI@QRP**  **(Section 4.2 of Tech. Spec.)** | GMW3600, Section 3.2. & 3.2.1.1 | with Quote Response Package (QRP) | Provided by GM - Appendix G3 | GM AP Buyer  GM Lead Engineer |
| **DFMEA@QRP (Baseline)** | GMW3600, Section 3.3 | with Quote Response Package (QRP) | No | GM Design Release Eng |
| **Supplier ADV Plan @QRP** | GMW3600, Section 3.4.2.2 | with Quote Response Package. Selected supplier shall send a copy to GM Validation Owner one week after source selection | No | GM AP Buyer  GM Validation Owner |
| **Hardware and test equipment/fixture development schedule** | NA | 4 weeks after source selection | Yes | GM Validation Owner |
| **Confirm DV component and test/fixture availability** | NA | 6 weeks after source selection | Yes | GM Validation Owner |
| **- Supplier shall name a person who is responsible for all simulation activities**  **- Supplier CAE shall present the final plan to GM CAE** | Appendix G4 Section 2 | 4 weeks after supplier selection | Yes | GM CAE Engineer |
| **Supplier request for Physical Properties & Data** | Appendix G2, Section 3.2.a. | 4 weeks after source selection | Yes | GM Validation Owner |
| **Supplier request for Program Analytical models, data, etc.** | Appendix G2, Section 4.3.b | 4 weeks after source selection | Yes | GM CAE Engineer |
| **Final VCRI** | GMW3600, Section 3.2.1.2.1 | 8 weeks after source selection | Yes | GM Validation Owner |
| **Program Specific DFMEA complete with Action Items Identified for RPL S and RPL 1 line items.** | GMW3600, Section 3.3 | All Recommended Actions closed prior to Production Release | Yes | CRV |
| **ADVP&R Approval** | GMW3600, Section 3.4.1.4 | 12 weeks before DV Test Plan Start Date | Yes | GM Validation Owner |
| **Software Release Schedule** | N/A | 8 weeks after source selection | Yes | GM Lead Engineer and GM Validation Owner |
| **Hardware Verification / Validation Test Procedures** | Supplier to make Procedures available for review (In English) | 4 weeks before start of DV testing | No | GM Validation Owner |
| **Post P-Release DRBFM and DFMEA Recommended Actions Closed** | GMW3600 Section 3.3 | MVBns | Yes | CRV |
| **All Testing Complete** | GMW3600 | VTC-4 weeks | Yes | GM Validation Owner |

## Supplier Requests for Program Material

1. The Supplier may request from GM, program physical properties and data that the Supplier needs to execute their ADV Plan. The Supplier's request shall include descriptions of properties wanted (e.g., Body-in-white), quantities, timing, type of ADV work to be done with material (e.g., destructive). If it is required to have the physical property shipped to the supplier for development/testing, the supplier shall have a local region made available to ship the property to (i.e. GM will not ship to another continent unless there is a technical reason why the work cannot be performed locally in which case it will be taken into consideration). This does not include vehicles which need to follow GM Security protocol. For vehicles required to follow GM Security Protocol, properties will be reviewed by the appropriate GM Program Team to determine how to support development/testing The GM Validation Engineer will notify the Supplier if their material request can be fulfilled.
2. The Supplier may request from GM, program analytical models, data, etc. that the Supplier needs in order to execute the simulation and analysis portion of their ADV Plan. The Supplier's request shall include type and format of the models/data requested (e.g., NASTRAN model of front structure, severe pothole road load data), timing, description of ADV work to be done with model and data. The GM CAE Engineer will notify the Supplier if their request can be fulfilled.

## Revisions to Plans

### Revisions to ADV Planning Documentation.

### Refer to Appendix G1 (GMW3600).

### Revisions to CEMENT Planning Documentation

Section Removed - Refer to Appendix G6 (cg6529) section 3.3.2

### Revisions to Software Planning Documentation

Section Removed--Refer to Appendix G5 (cg5002)

## Material Color Development ADV Planning / Documentation

No Material Color Development Requirements.

## Material Construction and Color Development Requirements

No Material Construction or Color Development Requirements.

## Additional & Exceptions to ADV Planning Requirements

### Additions to ADV Planning Requirements

It is expected that DRBTRs are conducted on all test parts within 2 weeks after completion of test or an agreed upon time with the GM Validation Owner

This section specifies any additional program and/or mirror reinforcement castings specific ADV planning requirements:

### Exception to ADV Planning Requirements

This section specifies any exceptions to the ADV planning requirements in GMW3600 and Section 3 of this document.

### Electrical Component Requirements.

Section removed – refer to Appendix G6 (CG6529).

### Serial Data, Diagnostics and OTA Test Requirements.

Section removed – refer to Appendix G6 (CG6529).

### Diagnostic Test Requirements.

Section removed – refer to Appendix G6 (CG6529).

### OTA (Over the air programming) Test Requirements.

Section removed – refer to Appendix G6 (CG6529).

### Component Software Validation and Verification Requirements.

Section removed – refer to Appendix G6 (CG6529).

### AUTOSAR Configuration Test Requirements.

Section removed – refer to Appendix G6 (CG6529).

### Audio Tuning (AM/FM/SXM/DAB) Timeline.

Section removed – refer to Appendix G6 (CG6529).

# ADV EXECUTION REQUIREMENTS for SUPPLIERS

This evaluation type confirms that the product design meets its technical requirements without including the effects of manufacturing variation.  This evaluation type must be completed prior to the first integration build event in order to reduce subsequent property usage risk.  This evaluation type is typically applied to safety components and related software.

## High-level ADV Responsibilities for Supplier

Unless otherwise specified in the Final VCRI, the Supplier is responsible for development and validation of this mirror reinforcement castings and shall meet the following requirements associated with the completion of validation.

1. CDV / DV-PVVB Test Completion Requirement. The Supplier shall complete the design validation (including virtual loadcases) of the mirror reinforcement castings with respect to its specified requirements for CDV no later than 2 weeks prior to the first integration build MRD (All other GVDP’s, except GVDP 7.0) or complete DV-PVVB no later than 4 weeks prior to PVVB GA MRD (for GVDP 7.0) unless otherwise specified in the program specific ADVP&R.
2. DV Test Completion Requirement. The Supplier shall complete the design validation (including virtual loadcases) of the Mirror reinforcement castings with respect to its specified requirements no later than VTC weeks prior to/after (specify GVDP milestone) unless otherwise specified in the program specific ADVP&R.
3. PV Test Completion Requirement. The DV Test Completion Requirement. The Supplier shall complete the design validation (including virtual loadcases) of the Mirror reinforcement castings with respect to its specified requirements no later than VTC weeks prior to/after (specify GVDP milestone) unless otherwise specified in the program specific ADVP&R.
4. Supplier shall plan and provide components, when ordered, for the build of production validation subassemblies at the GM production plant(s) by 16 March 2026 Production Validation Build MRD.  The Supplier may request to the GM Validation Owner guidance on the components and quantities in advance for initial planning purposes only.  Note, material requests may originate outside of Validation (e.g., Safety, Vehicle Performance, Engineering, Marketing, etc.) so planning needs to consider all GM requestors.   Actual material requirements, components & quantities, will be transmitted to the Supplier via standard GM ordering processes (e.g. Purchase Order, MGO broadcast, etc.) and may vary from initial plan.
5. The Supplier shall complete the product validation (including virtual loadcases), of the Mirror reinforcement castings with respect to the requirements, specified in the Final ADVP&R, no later than 6weeks prior to VTC (VDC) unless otherwise specified in the program specific ADVP&R.   The parts or assemblies for PV shall be off production tools on the home line location and process unless agreed to in writing by Validation, Supplier Quality and Release Engineering.
6. Final completion of design and product validation (including virtual loadcases), and any required validation assurance testing, the supplier shall complete the requirements for Mirror reinforcement castings Validation Sign-off by 4 weeks prior to VDC.
7. If at any time, the Supplier determines that the above timing requirements cannot be met, the Supplier shall within 1 business day notify the GM Validation Owner.

## Supplier ADV Execution Requirements

The Supplier shall conform to the ADV execution requirements specified in GMW3600 with the following additions and/or exceptions.

### Additional Program and/or Commodity specific Requirements

No Additions to Requirements.

### Exceptions to GMW3600 ADV Execution Requirements

This section specifies any exceptions to the ADV executions requirements in GMW3600.

Exceptions to Requirements.

## Math-based Modeling Requirements and Support of Virtual Reviews

Not Applicable.

The GM CAE Engineer for the **Mirror reinforcement castings** will be the Supplier's single-point CAE contact between the Supplier and GM. The following items detail the requirements to support the virtual build events.

1. The Supplier shall provide any additions and/or exceptions to the math-based modeling requirements and requirements to support of the virtual reviews stipulated in this section and GMW3600. These additions and/or exceptions shall be presented at the Technical Reviews prior to source selection.
2. The Supplier shall provide to the CAE Engineer the analytical models specified in Table 4.3.1 to support the Virtual Assessments. These models are required to support GM’s vehicle-level modeling activities. The latest version of the model shall be provided 2 weeks before the synchronization point for the specific Virtual Assessment. Updated models may be requested between Virtual Assessments to support GM component/subsystem modeling activities.
3. The Supplier shall provide to the CAE Engineer the analytical deliverables (results) specified in Table 4.3.2 **2 weeks** prior to the indicated Virtual Assessments.

## Pre-Production Hardware Builds

No Unique Hardware Requirements.

## ADV Execution Status & ADV Issue Documentation

Supplier shall meet the minimum requirements for ADV status documentation specified in Table 4.5. GM may request status updates on a more frequent basis as required.

**Table 4.5 Frequency of Status Reports vs. Type of Status Report**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Description of Documentation** | **Required Format and/or Content** | **Required Frequency vs. Program Timing** | | | | **Submit ADV Status Documentation to:** |
| Prior to SVER | SVER to Integration Build MRD | Integration Build MRD to VTC | After VTC |
| **Informal Status Reports** | Voicemail or  E-mail | As required | As required | As required | As required | GM Validation Owner |
| **ADV Execution Status Report** | G3 CG2953 | As required | As required | As required | As required | GM Validation Owner |
| **ADV Issue Report**  (Issue is test failure, equipment failure, test stoppage, etc.) | GMW3600, Section 4.5.3 | within 24 hours of incident and Documented report including root cause within three (3) days of incident | | | | GM Validation Owner |
| **Status Report on Supplier's ADV Issues** | GMW3600  Section 4.5.3.1.4 | As required | As required | As required | As required | GM Validation Owner |
| **Response to VE/CVE EWOs**  **ADV/Change Info….** | Appropriate format for the type of info required | 4 Days | 4 Days | 4 Days | 4 Days | GM Validation Owner |
| **Evaluation Reports/Test Reports**  **(**Not related to certification or regulatory testing) | GMW3600  Section 4.2.3.7 | Within 3 weeks after tests are complete or 2 weeks before VDC, whichever comes first. | | | | GM Validation Owner |
| **Regulatory compliance evaluation reports** | GMW3600, Section 4.7 | 6 weeks prior to the VDC milestone for any new model program. 12 weeks prior to the VDC milestone for any carry over model program. | | | | GM Validation Owner |
| **Supplier portion of the GM Self-Certification Compliance Summary Document(s)** | GMW3600, Section 4.7 | 6 weeks prior to the VDC milestone | | | | GM Validation Owner |

## Section Removed

## Post Validation Audit (reference GMW3600 and GMW15758). Refer to Appendix G1

## Regulatory Compliance/ Certification Requirements

**Not applicable**

## Other Supplier Interface Responsibilities. Refer to Appendix G1 (GMW3600).

## Program Integration Material

No Program Integration Material Requirements.

## Use of Surrogate Data.

Refer to Appendix G1 (GMW3600).

## Cybersecurity.

Section removed – refer to Appendix G6 (CG6529).

## DFMEA Requirements.

Refer GMW3600 Section 3.3 for DFMEA and DRBFM requirements.

## Section Removed – 4.14

## Required Documentation.

Refer to Appendix G1 (GMW3600)

## Supplier Requirements to Provide Support and Enable GM Hardware-in-the-Loop (HIL) Simulation Interface to Controller and Features. - Section removed – refer to Appendix G6 (CG6529).

# COMMODITY VALIDATION SIGN-OFF

In addition to the Commodity Validation Sign-off requirements specified in GMW3600 Section 5.4, the Supplier shall comply with the addition requirements listed below.

No additional sign-off requirements.

The supplier shall obtain Adhesive Approvals, and IMDS approvals in the appropriate GM system prior to receiving a Mirror reinforcement castings Validation Sign-off on a GM3660.

No additional sign-off requirements.

# ADV & BUILD STAGE TERMINOLOGY

## General ADV Terminology

* 1. General Motors terminology pertaining to analysis, development and validation is defined in GMW15758 ‘ADV Process Development and Validation Terminology’ and in GMW3600 Section 6.
  2. **Accuris –** Global source for obtaining GMWs – (formerly known as IHS Markit).
  3. **M1** – First Match Check.
  4. **Road Map** – provides the location of check points using the standard GM design points.
  5. **AUTOSAR** - AUTomotive Open System Architecture: is a worldwide development partnership of automotive interested parties.
  6. **GMLAN** - This is a serial data application and transport layer protocol based on CAN.
  7. **CANoe** – Controller Area Network Operating Environment

## Acronyms, Abbreviations and Symbols.

|  |  |  |  |
| --- | --- | --- | --- |
| **ADV** | Analysis, Development and Validation |  |  |
| **ADVP&R** | Analysis Development Verification Plan and Report |  |  |
| **AP** | Advance Purchasing |  |  |
| **APOPS** | Approved Paints on Parts Systems |  |  |
| **APPV** | Advanced Product Process Validation |  |  |
| **AUTOSAR** | AUTomotive Open System ARchitecture |  |  |
| **BOM** | Bill of Materials |  |  |
| **CAE** | Computer Aided Engineering |  |  |
| **CAN** | Controller Area Network |  |  |
| **CCC** | China Compulsory Certificate |  |  |
| **CDV**  **CEMENT** | Critical Design Validation  Component EMc and ENvironmental Test database |  |  |
| **CG** | Controlled Generic Number |  |  |
| **CICVAD** | Controller Infrastructure Component Validation Approval Database |  |  |
| **C/O** | Carryover |  |  |
| **CRV** | Component Readiness Valve |  |  |
| **CTDAR** | Color & Trim Design Appearance Requirement |  |  |
| **CTS** | Component Technical Specification |  |  |
| **CVE** | Component Validation Engineer |  |  |
| **DFMEA** | Design Failure Mode Effect Analysis |  |  |
| **DRBTR** | Design Review Based on Test Results |  |  |
| **DRE** | Design Release Engineer |  |  |
| **DV** | Design Validation |  |  |
| **EGM** | Engineering Group Manager |  |  |
| **EMC** | Electromagnetic Compatibility |  |  |
| **ENV** | Environmental |  |  |
| **EWO** | Engineering Work Order |  |  |
| **FIVC** | First Integration Vehicle Complete |  |  |
| **GA** | General Assembly |  |  |
| **GGSE** | Global General Assembly Service and Electrical Engineering Workgroup |  |  |
| **GMLAN** | General Motors Local Area Network. |  |  |
| **GMW** | General Motors Worldwide |  |  |
| **GSO** | Gulf State Organization |  |  |
| **GVDP** | Global Vehicle Development Plan |  |  |
| **IHS** | Information Handling Service – Company IHS Markit |  |  |
| **IV** | Integration Vehicle |  |  |
| **IVBR** | Integration Vehicle Build Release |  |  |
| **IVER** | Integration Vehicle Engineering Release |  |  |
| **LIN** | Local Interconnect Network |  |  |
| **MAC** | Message Authentication Code |  |  |
| **MRD** | Material Required Date |  |  |
| **OPX** | Open Diagnostic Data Exchange |  |  |
| **OTA** | Over the Air |  |  |
| **PDT** | Product Development Team |  |  |
| **PPAP** | Production Part Approval Process |  |  |
| **PQRR** | Program Quality Readiness Review |  |  |
| **PV** | Production Validation |  |  |
| **PVA** | Post Validation Audit |  |  |
| **QRP** | Quote Response Package |  |  |
| **SAE** | Society of Automotive Engineering |  |  |
| **SOR** | Statement of Requirements |  |  |
| **SSTS** | Subsystem Technical Specification |  |  |
| **SVER** | Structure Vehicle Engineering Release |  |  |
| **TIE** | Technical Integration Engineer |  |  |
| **VAVA** | Virtual Architecture Vehicle Assessment |  |  |
| **VCRI** | Validation Cross Reference Index |  |  |
| **VCVA** | Virtual Concept Vehicle Assessment |  |  |
| **VDSOVA** | Virtual Design Sign-Off Vehicle Assessment |  |  |
| **VE** | Validation Engineer |  |  |
| **ViniVA** | Virtual Initial Vehicle Assessment |  |  |
| **VIVA** | Virtual Integration Vehicle Assessment |  |  |
| **VSPS** | Validation Supplier Problem Solving |  |  |
| **VPVA** | Virtual Product & Process Validation Vehicle Assessment |  |  |
| **VSVA** | Virtual Structure Vehicle Assessment |  |  |
| **VTC** | Validation Testing Complete |  |  |
| **VDC** | Validation Documentation Complete |  |  |

# REVISION HISTORY

## Revision History: Program G2

|  |  |  |
| --- | --- | --- |
| **rev. #** | **Revision Date** | **Description of Revision** |
| 0 | 06-28-24 | Initial Issue |
|  |  |  |
|  |  |  |
|  |  |  |