



The Delegated Product Release Verification Process

What is it, who's using it, and what are the requirements?

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What is DPRV?

- A process whereby a supplier is delegated the authority to act on behalf of the delegating organization to verify and release products/services.

Why is a standard process necessary?

- The globalization of the aviation, space, and defense industry; and the complexity of those organizations' supply chains have complicated efforts to produce and continually improve safe, reliable products that meet or exceed customer and regulatory authority requirements.
- Implementation of a standard process for release of products/services reduces the risk of escapes when an organization's product release verification has been delegated to a supplier.

What are the benefits of a standard process?

- Standardization benefits the supplier, the customer, and the industry as a whole through:
 - Increased efficiency
 - Common terminology, and reduced interpretation differences
 - Reduced supplier overhead (training and implementation of customer specifics)
 - Increased sharing and adoption of best practices
 - Reduced cost of entry into the aviation, space, and defense supply chain

Who developed the DPRV process and why?

- The DPRV process was driven largely by a small number of large OEMs due to the need for a more consistent and predictable supply chain to meet the demands of civil aviation.
- The Aerospace Engine Supplier Quality (G-22) committee, which oversees the development of engine-specific quality standards for the supply chain, took on the task of developing Aerospace Standard AS13001, Supplier Self Release Training Requirements, which was published in 2015.
- Following the publication of AS13001, the IAQG published Aerospace Standard AS9117, Delegated Product Release Verification, which outlines the DPRV role for the greater aerospace supply chain.

Who is using the DPRV process?

- Companies that are choosing to delegate product release verification include:
 - GE, Pratt & Whitney, Boeing, Honeywell, Lockheed, Rolls Royce, Rohr, Goodrich, UTC, Meggitt, Collins, MPU, and Sikorski
- Companies that are being delegated product release verification responsibilities include:
 - Parker Hannifin, Collins Aerospace, GE Aviation, Boeing Distribution Services, Magellan Aerospace, Barnes Aerospace, AMETEK, Honda Aero, Rexnord Industries, and Kidde Aerospace & Defense
- 9100 Students in 42 countries

Why use the DPRV process versus Source Inspection?

- Source inspection requires that each organization have a representative on-site at the supplier to conduct inspections.
- Using the DPRV process allows organizations to delegate inspections to the supplier by using an employee of the supplier to conduct the inspections.
- Since suppliers often supply products and services to a number of different organizations, having an employee that has been qualified under the DPRV process can save time and money by allowing that employee to act on behalf of several different organizations.

What are the requirements of the DPRV process?

- The requirements of DPRV are contained in AS9117. The standard is broken down by the following topic headings:
 - System Requirements for Delegating Organization
 - Supplier Responsibilities
 - Qualification/Requalification of DPRV Personnel
 - Review of Product by DPRV Personnel
 - Records Retention

System Requirements for Delegating Organization

- The delegating organization shall have a documented process defining their delegation requirements, including the organization's responsibilities and authority for selection, qualification, maintenance, removal suspension, and limitation of the delegation.
- DPRV supplier selection criteria shall include the following:
 - The supplier shall be approved on the delegating organization's supplier register
 - The delegating organization shall provide documented authorization of the supplier's participation in their DPRV program
 - During selection of suppliers for DPRV, the delegating organization shall review the supplier's quality performance
 - The delegating organization shall verify that the supplier is knowledgeable of its requirements and expectations associated to product quality

System Requirements for Delegating Organization (Cont.)

- The delegating organization shall define and document the scope and limitations of the delegation. Documentation stating the scope and limitations of delegation shall be provided to and acknowledged by the supplier.
- The delegating organization shall define change notification requirements to the supplier. These requirements shall include the type of changes requiring notification and process for communicating these changes.

System Requirements for Delegating Organization (Cont.)

- The delegating organization's maintenance process for DPRV shall, at a minimum, include the following:
 - A periodic review of the supplier's quality performance
 - A periodic inspection and/or validation of the product
 - A periodic review of the supplier's DPRV process
 - Actions to address poor supplier performance
 - Criteria to remove, suspend, and limit the delegation to the supplier and/or DPRV personnel

Supplier Responsibilities

- The supplier shall maintain their QMS approval.
- The supplier's QMS shall have a documented process detailing the requirements for the DPRV, including the establishment of process controls and monitoring for process effectiveness.
- The supplier shall keep a list of authorized DPRV personnel, including the associated scope of approval.

Supplier Responsibilities (Cont.)

- The supplier is responsible for assuring that the authorized DPRV personnel have prerequisites, including but not limited to those listed below, sufficient to be able to perform their duties:
 - Access to product-related documentation
 - Access to necessary facilities and equipment to be able to perform DPRV activities
 - Sufficient time allotted to adequately perform the associated product verification activities
 - The authority to suspend the release of products, until all open issues associated with the product being released are addressed
 - Documented and demonstrable proficiency and training, including appropriate product knowledge

Supplier Responsibilities (Cont.)

- The supplier shall provide the delegating organization notification of changes affecting the DPRV process.
- Suppliers shall obtain documented approval from the delegating organization, if they intend to use a sub-tier supplier to verify and release the final product, in accordance with the delegating organization's process requirements.
- The supplier shall monitor DPRV personnel performance and have defined criteria to disqualify/suspend the DPRV personnel, including notification to the delegating organization.

Qualification/Requalification of DPRV Personnel

- DPRV personnel shall be qualified by the supplier
- The selection of DPRV personnel shall be based on their background, experience, and product knowledge. Specific training and/or testing shall be established by the supplier. The supplier shall ensure training and qualification is appropriate for the product being released.
- The DPRV personnel shall have a periodic vision assessment to a recognized standard, unless waived by the delegating organization.
- DPRV personnel shall be subject to periodic requalification and training by the supplier.
- The supplier shall meet additional requirements for DPRV personnel contractually imposed by the delegating organization.

Review of Product by DPRV Personnel

- The DPRV shall be performed on each release of product. DPRV shall be performed after final inspection, as close to shipment as practical; conducted as an independent process by someone other than the person who performed the final inspection, unless waived by the delegating organization.
- The DPRV shall consist of, but not limited to:
 - Contract/purchase order review
 - Supplier documentation review
 - Physical product verification, including verification of product marking/identification and visual examination
 - Shipping/release documentation

Review of Product by DPRV Personnel (Cont.)

- DPRV personnel shall validate and record the completion of the verification activity.
- Specific stamps, signatures, identification numbers, etc., shall be used for product release when contractually required by the delegating organization.
- Sampling plans for product verification may be used with approval from the delegating organization.
- Product and/or documentation nonconformances detected, during the DPRV process, shall be processed in accordance with the supplier's nonconformance and corrective actions procedures, and the delegating organization's contractual requirements.

Records Retention (Delegating Organization)

- The delegating organization shall retain the following records in accordance with their defined procedures:
 - List of delegated suppliers
 - Scope of delegation approval
 - Delegation limitations, if applicable
 - Delegation acknowledgements from suppliers
 - List of authorized DPRV personnel
 - Records from periodic DPRV process reviews
 - Revision records of changes to the items identified in this listing

Records Retention (Supplier)

- The supplier granted delegation authority shall retain the following records from DPRV activity, in accordance with the delegating organization's contractual requirements:
 - Records that DPRV activity has been performed
 - Initial and recurrent qualification records for DPRV personnel
 - List of approved DPRV personnel
 - Vision assessment record for DPRV personnel
 - Records of product and/or documentation nonconformances identified during the DPRV process
 - Approval for sub-tier delegation from the delegating organization
 - Additional documents, as specified, by the delegating organization

How to Satisfy the Training Requirements

- The supplier may choose to develop their own specific training and/or testing requirements. The supplier must ensure that the training is appropriate for the product being released.
- The supplier may choose to use training and/or testing requirements developed by the delegating organization.
- The supplier may choose to send their delegation candidates to an outside training course such as Common Training for DPRV Personnel, which is offered by the Society of Automotive Engineers.



Do You Have Any Questions?

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