

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 1 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

**1. PURPOSE:**

This procedure establishes the minimum PPG Aerospace requirements for a Supplier's Quality Plan. These requirements pertain to the documentation and inspection/testing necessary to assure product or service conformance to all drawings, specifications, purchase orders, and contractual requirements.

**2. LIMITATIONS:**

This procedure is limited to Suppliers of materials, special processes, software and services used in the development and fabrication of pre-production and final production for PPG Aerospace. This procedure does not include engineering development or evaluation items, laboratory test, development test and test equipment.

**3. DEFINITIONS:**

- FAA- Federal Aviation Administration
- DCAS- Department of Citywide Administrative Services
- SNN- Supplier Nonconformance Notice
- FOD- Foreign Object Debris

**4. ORGANIZATIONAL UNITS AFFECTED:**

- Purchasing
- Supply Chain
- Quality

**5. PROCEDURE:**

- 5.1. This procedure is part of the purchase order when referenced. The Supplier shall establish a documented quality procedure to ensure compliance with the requirements of the purchase order for the product or service provided. This procedure requires that the quality plan be effective, yet economical, and be adjustable to suit the type and phase of procurement. Principal considerations shall be given to complexity of product design, quantity and special manufacturing processes and techniques.
- 5.2. The quality plan is subject to surveillance by PPG Aerospace's Quality Assurance and Purchasing Departments, Customers, Regulatory Government Agencies (FAA, Federal Aviation Administration, and DCAS, Department of Citywide Administrative Services). If the quality plan is found to be ineffective for the control of the quality of product and services provided to PPG Aerospace, approval status will change to not approved.
- 5.3. The Supplier shall provide necessary information, facilities, and equipment to perform the required surveys, tests, and inspections. Product acceptance by PPG Aerospace at the vendor's plant does not relieve the Supplier of the responsibility of providing parts in accordance with full specification requirements.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight®</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 2 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

5.4. PPG Aerospace's evaluation system is based on the quality of supplied items and on-time delivery. This evaluation system identifies those Suppliers who consistently meets all purchase order requirements and those who do not. Suppliers who continue to perform unsatisfactorily risk curtailment or loss of future PPG Aerospace business.

## 6. REQUIREMENTS

### 6.1. MANAGEMENT RESPONSIBILITY

6.1.1. Supplier's management with executive responsibility shall define and document the organizational responsibility, authority, and interrelation of personnel who manage, perform and verify work that affects the quality of product or services. This personnel shall have the organizational freedom and authority to:

- 6.1.1.1. Initiate action to prevent the occurrence of nonconformities
- 6.1.1.2. Identify and record problems relating to product, process and quality system
- 6.1.1.3. Initiate, recommend or provide solutions through designated channels
- 6.1.1.4. Verify the implementation of solutions
- 6.1.1.5. Control further processing or delivery of nonconforming product until the deficiency has been corrected.

## 7. QUALITY SYSTEM

7.1. The Supplier shall establish, document and maintain effective quality system plan or instructions to ensure conformance to PPG Aerospace and Regulatory Government Agencies requirements. The detail and extent of the documentation that defines the quality system will be dependent upon the complexity of the work, methods used, and the skills and training needed by personnel involved in performing the activity. Documents that define the quality activities, responsibilities, and how they are to be performed, shall be available and easily accessible to personnel performing these activities.

7.2. Any changes to the quality plan that affect the quality of delivered product or services must be approved by PPG Aerospace before implementation.

## 8. CONTRACT REVIEW

8.1. The Supplier shall define a procedure to assure that PPG Aerospace requirements are reviewed, clearly defined, coordinated, and the capability exists to meet contract or purchase order requirements. Any conflicts between the contract or purchase order and the supplier must be resolved prior to the acceptance of the contract or purchase order.

## 9. DESIGN CONTROL

9.1. PPG Aerospace or its Customers retain all authority for design, or changes to existing design, for components fabricated by a Supplier to be installed into a final assembly. No authority for design responsibilities is to be assumed by the supplier unless explicitly granted by PPG Aerospace, its customers, or both.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight®</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 3 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

9.2. The Supplier shall not incorporate any changes to any drawing, specification, or digital data provided by PPG Aerospace, unless instructed to do so by the PPG Aerospace Buyer in writing. Such instructions will be in the form of an amendment to the purchase order. The Supplier will assure that copies of such authorizations become a part of the shipping documentation package.

9.3. Material submitted to PPG Aerospace must conform, in all respects, to the exact specification or drawing revision level specified in the purchase order. If no revision is specified, the applicable revision level will be the latest in effect on the date of the purchase order s accepted.

## **10. DRAWINGS, DOCUMENTS AND DATA CONTROL**

**10.1.** The Supplier shall establish and maintain documented procedures that define the control of all drawings, documents and digital data that relate to the contract or purchase order requirements.

## **11. DRAWINGS AND DOCUMENTS**

11.1. Supplier personnel responsible for control of all drawings and documents provided from PPG Aerospace shall acknowledge receipt of all drawings and documents from PPG Aerospace by signing and returning the purchase order, that will accompany the drawings and documents.

11.2. Drawings and documents initiated by the Supplier shall be reviewed and approved by authorized personnel prior to issue. Current revision of drawing and documents shall be available at locations where processes that affect product functions are being performed. In-valid and/or obsolete drawings and documents shall be promptly removed from all points of issue or use.

11.3. The Supplier shall not incorporate any changes to PPG-provided drawings and documents provided by PPG Aerospace unless formal notification of change is received through amendment to the purchase order. Any changes to the supplier's internal drawings and documents shall be approved by PPG Aerospace if the change affects the contract or purchase order requirements.

## **12. DIGITAL DATA**

**12.1.** The supplier shall establish and maintain a documented procedure that dines governs receipt, usage, and distribution of product definition datasets (digital data) from PPG Aerospace, or its customers. This procedure shall ensure that the configurations of the following digital product systems are identified controlled and recorded:

- 12.1.1. Product Acceptance Software (PAS)
- 12.1.2. Computerized Measurement Systems (CMS)
- 12.1.3. CAD/CAM Software and Datasets
- 12.1.4. Data Analysis Software

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight™</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 4 of 13
		Revision: 1.0	Date: 09-29-14
Title: <div style="text-align: center;"><b>Supplier Quality Requirements</b></div>			

- 12.1.5. Supplier Generated Datasets (Derivative Datasets)
- 12.1.6. Datasets flowed to supplier sub-tier suppliers

12.2. The Supplier shall develop and maintain a comprehensive audit plan for all operations affecting digital data and related documentation to assure compliance with contractual requirements, whether imposed by PPG Aerospace-purchase order or contract, or by direct reference to PPG Aerospace’s Customer documents.

12.3. All digitally defined tools, physical inspection media (check fixtures, templates, etc.) and product acceptance software will be traceable to the authority dataset and to any tool inspection datasets.

12.4. In the event a PPG Aerospace Customer specifies Supplier compliance to specific drawings or document in addition to this procedure, these requirements will be communicated to the Supplier through a purchase order or contract. The current revisions of the Customer’s Drawings and Documents will be provided.

12.5. For any purchase order or contract that PPG Aerospace has provided authority datasets or dataset derivatives for manufacturing or product acceptance, the Supplier must comply with document “Quality Assurance Standard for Digital Product Definition at Suppliers” procedure.

If assistance is needed in obtaining this procedure, please contact the PPG Aerospace Buyer or QA Manager.

**13. PURCHASING**

**13.1.** The Supplier shall maintain an effective quality procedure to ensure that purchased product conforms to specified purchase requirements for any materials, components; or services (e.g. calibration) procured from its, suppliers. The Supplier shall maintain an Approved Supplier List that includes the scope of those approvals and shall be made available on request

13.2. Material procured by the Supplier for use on a contract, must be inspected and tested, to insure that all requirements of the applicable material specifications as shown on drawings and/or the purchase order are met.

**13.3.** The Supplier shall flow down quality plan requirements to subcontractors to the extent that characteristics not verifiable upon receipt are adequately controlled.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight®</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 5 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

#### **14. CONTROL OF CUSTOMER SUPPLIED PRODUCT AND TOOLING**

- 14.1. The Supplier shall inspect PPG Aerospace furnished material on receipt to detect damage in transit, and to determine that the material is complete, qualified for the intended end-use, and the proper type, size or grade. The Supplier shall notify PPG Aerospace Purchasing of any damage before the tooling is used for any manufacturing or inspection activity.
- 14.2. The Supplier shall identify and segregate as nonconforming any PPG Aerospace provided material found damaged or unsuited for its intended use and request disposition from the PPG Aerospace Purchasing Department. Steps shall be taken to assure that such material is handled in a manner that will prevent further damage or additional repair costs.
- 14.3. Periodic inspection shall be conducted to ensure that quality is maintained, that storage conditions are suitable, and that damage or deterioration has not occurred in handling or storage.
- 14.4. The Supplier shall maintain records that verify the proper control, care, storage and usage of all tooling
- 14.5. Regardless of ownership (Supplier, PPG Aerospace, PPG Aerospace's Customer, and Government) furnished tooling and equipment shall be maintained in good condition. Furnished material must be used on PPG Aerospace contracts only. Tooling or equipment shall be available for examination and or return to PPG Aerospace upon request. Supplier is responsible for timely calibration of all such tools. The Supplier will provide an annual certified inventory list of all PPG Aerospace supplied tools.

#### **15. PRODUCT IDENTIFICATION AND TRACEABILITY**

- 15.1. The Supplier shall establish and maintain a procedure for identifying product provided to PPG Aerospace. Any component manufactured to a PPG Aerospace drawing, or PPG Aerospace Customer drawing, shall be identified as per specified on a contract, purchase order, or referenced drawings and/or specifications.

NOTE: If the Supplier has been delegated inspection authority the PPG Aerospace supplied stamp shall be used.

For small parts such as screws, spacers, etc., the identification shall be recorded on the container, metal/plastic-ring tag, or other suitable means, and attached to the component provided the container is representative of a continuous, uninterrupted manufacturing lot. Certificate of Conformance shall contain as minimum the following:

- Purchase order, part number,
- A statement that the material conforms to the applicable specification,

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 6 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

- A statement that conformance test reports and/or inspection records are on file, subject to examination at your facility or at the point of manufacture.
- Signature of authorized agent, and title.

All products, components and materials provided to PPG Aerospace shall be traceable to Supplier, sub tier supplier and subcontractor processes, test results, inspections, and raw material batch numbers. Records of such traceability shall be accessible and available to PPG Aerospace upon request.

## 16. PROCESS CONTROL

16.1. The supplier shall plan the production and inspection processes that directly affect quality, and shall ensure these processes are carried out under controlled conditions. At a minimum, controlled conditions shall include the following:

- 16.1.1. Documented procedures defining the production, inspection and delivery, where the absence of such procedures could adversely affect quality.
- 16.1.2. Compliance with documented procedures.
- 16.1.3. Compliance with specified drawings, specifications and other requirements' documents.
- 16.1.4. Standards for required workmanship stipulated in the clearest practical manner.
- 16.1.5. Accountability for all product and evidence that all manufacturing and inspections have been completed in sequence as planned, or as otherwise documented and authorized.

## 17. PROCESS CONTROL

17.1. PPG Aerospace will require the supplier to follow a process control only when required by contract.

## 18. SPECIAL PROCESSES

18.1. The Supplier shall have an adequate procedure for the control of special processes used in the manufacturing cycle, whether the special process is performed at the Supplier's facility or is subcontracted. (Examples of special processes are (x-ray, magnetic particle, heat treating, plating, anodizing, soldering, spot welding, fusion welding, fluorescent-penetrant inspection, etc.) It is the Supplier's responsibility to utilize only approved facilities for special processes. These control measures shall include the following provisions:

- 18.1.1. NADCAP/and or customer approved. Each process type must be customer approved.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 7 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

- 18.1.2. These special processes shall be performed by NADCAP\* accredited processors, whether performed by the supplier, or subcontracted to another facility.
- 18.1.3. Any subcontractor, processor, or sub-tier supplier used by the Supplier shall be included on the PPG Aerospace Approved Suppliers List. Supplier shall provide a list of the Special Process Suppliers at any subcontractor level.
- 18.1.4. Certificates of Conformance from special processors shall be retained by the Control of Quality Records procedure, and be available to PPG Aerospace or its customers upon request.

\***NADCAP** is the brand name for the world-wide industry-managed program for special processes in the aerospace industry. NADCAP is the cooperative program of major companies designed to manage a consensus approach to special processes and products and provide continual improvement within the aerospace industry. The organization was originally known as National Aerospace and Defense Contractors Accreditation Program (NADCAP), but was changed to NADCAP in recognition of the internationalization of the program.

## 19. TOOLING PROCUREMENT

**19.1.** Title of all tooling procured from Supplier shall be the property of PPG Aerospace (free of all liens, and encumbrances) upon acceptance by PPG Aerospace tool inspection. Unless otherwise specified :

- Inspection of tooling shall be accomplished by PPG Aerospace inspection personnel at intervals of fabrication and/or completion of work prior to shipment.
- Acceptance is subject to compliance of design requirements and/or first run production.
- The Supplier shall permanently identify each tool per tool drawing requirement or purchase order specified.

## 20. INSPECTION AND TESTING

20.1. The Supplier shall establish and maintain documented procedures for inspection and testing activities in order to verify that the specified requirements for the product are met. The required inspection and testing, and the records to be established, shall be detailed in the Supplier's documented procedures or within a detailed quality plan. Any sampling inspection methods employed by the supplier must be approved by PPG Aerospace before implementing.

20.2. PPG Aerospace has the right to inspect any article manufactured by the supplier or his sub-tier suppliers at source and/or upon receipt. Inspection, test and manufacturing operations performed by the supplier may be witnessed, on a non-interference basis, in whole or in part, by PPG Aerospace, and shall not relieve the supplier of the responsibility of assuring the furnished article conforms in all particulars to purchase order requirements.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 8 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

20.3. PPG Aerospace will continue to verify that satisfactory quality levels are maintained during the active stages of contract performance through various means, including periodic surveillance inspection at the Supplier's facility.

20.4. Supplier shall maintain a Foreign Object Damage (FOD) prevention program in accordance with the National Aerospace Standard NAS-412, Foreign Object Damage/FOD Prevention program. The program shall address the following:

- FOD entrapment or where foreign objects can migrate, Supplier shall flow down the FOD requirement to supplier's and subcontractors at every tier.
- Prior to closing inaccessible or obscured areas or spaces and components during assembly Supplier shall inspect for foreign objects/materials and ensure no FOD barriers remain embedded.
- Supplier shall maintain good housekeeping practice to ensure tooling, jigs, fixtures, and test or handling equipment are free of FOD.

## 21. FIRST ARTICLE INSPECTION

21.1. The Supplier shall provide production and inspection records to verify acceptance of the configuration and performance of the first item submitted for the following categories:

- 21.1.1. The Supplier has never produced the item for PPG Aerospace.
- 21.1.2. A 2 year period, as determined by PPG, has elapsed since last production.
- 21.1.3. A new revision to the configuration of the product.
- 21.1.4. As specified on PPG Aerospace purchase order
- 21.1.5. If a change process, tooling, or location.

21.2. First Article Inspection activities shall be performed in accordance with Aerospace Standard AS 9102, Aerospace First Article Inspection Requirement, and documented on the appropriate forms included in Aerospace Standard AS9102. The First Article Inspection report shall accompany the shipment when any of the above conditions occur.

## 22. INCOMING INSPECTION

22.1. Incoming product shall not be used or processed until it has been inspected or otherwise verified as conforming to specified requirements. Exception: An incoming product needed for urgent production may be released prior to verification, provided it is identified and recorded in order to permit immediate recall and replacement in the event of nonconformity to specified requirements.

22.2. The supplier shall check material test reports against specification requirements. If incoming product is accepted on the basis of certifications or test reports, periodic scheduled checks shall be made of samples of product.

## 23. IN-PROCESS INSPECTION



 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight®</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 9 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

- 23.1. In accordance with the documented procedures, the Supplier shall inspect the product at appropriate phases in the manufacturing flow to verify characteristics that may be difficult or impossible to inspect after subsequent processing.
- 23.2. Final Inspection and Testing
- 23.3. To complete the evidence of conformance of the finished product to specified requirements, the supplier shall perform a final inspection in accordance with the Supplier's documented procedures. The final inspection function shall verify that all required inspection and tests, including those specified for incoming product and in-process operations have been satisfactorily completed and recorded.
- 23.4. The final inspection shall also verify that all activities specified in the documented procedures or quality plan have been completed and all associated documentation is available and authorized.
- 23.5. The Supplier shall establish and maintain records that provide evidence that the product has been inspected and/or tested. These records shall identify the inspection authority responsible for the release of product.

### **23.6. COUNTERFEIT PART/MATERIAL PREVENTION**

**23.6.1.** Supplier shall establish and maintain a "Counterfeit Parts/Material Prevention and Control Plan" in accordance with AS6174. Counterfeit Parts/Material Prevention includes work that is or contains items misrepresented as having been designed and/or produced under an approved plan or other acceptable method. Counterfeit includes "used parts represented as new".

- Supplier shall ensure that counterfeit parts are not delivered to PPG Aerospace.
- Supplier shall only purchase products to be delivered or incorporated as parts or materials to PPG Aerospace directly from the Original Manufacturer. Parts or materials shall not be acquired from independent distributors unless approved in advance in writing by PPG Aerospace.
- Supplier shall immediately notify PPG Aerospace with the pertinent facts if the Supplier becomes aware or suspects that it has furnished counterfeit part or materials. When requested by PPG Aerospace, Supplier shall provide documentation that authenticates traceability of the affected items.
- Supplier shall flow down the "Counterfeit Parts/Material Prevention and Control Plan" to all subcontractors levels.
- Supplier shall maintain a counterfeit parts/material training program.

### **23.7. DELEGATED INSPECTION AUTHORITY**

**23.7.1.** Delegated inspection authority may be granted to a Supplier who has demonstrated the ability to consistently produce quality products in compliance with purchase order requirements and stated drawings and specifications, and the Supplier has been proven to comply with the quality requirements imposed.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 10 of 13
		Revision: 1.0	Date: 09-29-14
Title: <span style="float: right;"><b>Supplier Quality Requirements</b></span>			

23.7.2. Delegated inspection may commence only after written approval of the Supplier's inspection procedure has been granted to the Supplier by PPG Aerospace Purchasing and Quality Assurance departments. Upon approval, the Supplier is responsible for performing all inspections associated with the specific parts/materials for which delegation has been granted.

23.7.3. Because PPG Aerospace may reduce or eliminate its receiving inspection for delegated inspection components or materials, it is imperative that all required Certificates of Conformance and/or Test Reports accompany each shipment. These documents will be reviewed by PPG Aerospace Incoming Inspection to verify that the materials were inspected and found to be acceptable by the Supplier. Delegation will be retracted if there is evidence that the required inspection(s) are not being performed, or if significant quality issues are encountered.

23.7.4. Components manufactured to PPG Aerospace drawings, or PPG Aerospace Customer drawings, for which inspection authority has been delegated to the Supplier, shall include the supplier's inspection stamp. If a component is too small for the identification format and inspection stamp, the same information may be recorded and stamped on a metal-ring tag and attached to the component.

NOTE: If the Supplier has been previously supplied an inspection stamp from PPG Aerospace, the PPG Aerospace stamp shall be used.

## **24. CONTROL OF INSPECTION, MEASURING AND TEST EQUIPMENT**

24.1. The Supplier shall establish and maintain documented procedures to control calibrate and maintain inspection, measuring and test equipment used by the Supplier to demonstrate the conformance of product, processes or other inspection and measuring equipment to the specified requirements. The procedures shall define the plan for recall of measuring devices that require calibration, and the maintenance of calibration history records.

24.2. To assure continued accuracy, such devices shall be calibrated against certified standards which have known valid relationships to the National Institute of Standards and Technology (NIST). Devices used as acceptance media shall be clearly identified as to their calibration status. Compliance to ANSI-Z540.3, "Laboratories, Calibration, and Measuring and Test Equipment" is required.

24.3. The supplier's procedures shall define the system to assess and record the validity of previous measuring results when the measuring equipment is found not to conform to requirements.

## **25. INSPECTION AND TEST STATUS**

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 11 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

- 25.1. The inspection and test status of product shall be identified throughout all stages of manufacture by authorized stamps on the product itself or on tags, labels, packaging, inspection records, or other suitable means. Stamps used for indicating acceptance of special processes must be specially designed to distinguish them from standard inspection stamps. Stamp design shall not resemble Government Inspection stamps.
- 25.2. Components manufactured to PPG Aerospace drawings, or PPG Aerospace Customer drawings, for which inspection authority has been delegated to the Supplier, shall include the inspection stamp on the component. If a component is too small for the identification format and inspection stamp, the same information may be recorded and stamped on a metal-ring tag and attached to the component
- 25.3. The Supplier's quality documentation shall include facsimiles of stamp impressions and describe the configuration, usage limitations and control of each stamp.

## **26. CONTROL OF NONCONFORMING MATERIALS AND PRODUCT**

- 26.1. The Supplier shall provide a procedure for control of nonconforming material and product. This procedure must provide for identification, segregation, and disposition of such articles, and preclude their use or intermingling with conforming articles.
- 26.2. Nonconforming material that cannot be reworked to print or specification may be submitted to PPG Aerospace for consideration. Requests for review of discrepant material must be forwarded to the PPG Aerospace Buyer.
- 26.3. The request for review of discrepant material must contain sufficient detail for a technical evaluation, including engineering sketches, marked prints, and/or detailed rework instructions, and must also include a positive corrective action statement outlining the action taken by the Supplier to reduce to a minimum, or eliminate the condition. The Supplier will be informed of the final decision by the PPG Aerospace Buyer. The acceptance of nonconforming supplies is a prerogative of and shall be as prescribed by PPG Aerospace.
- 26.4. The Supplier shall notify the PPG Aerospace Buyer within 48 hours when a nonconformance is discovered in the Supplier's processes or products that may affect product already delivered. Notification shall include:
  - 26.4.1. Clear description of the discrepancy
  - 26.4.2. Parts affected (part numbers, serial numbers, lot numbers, manufacturing dates, etc.)
  - 26.4.3. Quantity delivered
  - 26.4.4. Delivery dates
  - 26.4.5. Corrective action for the nonconformance

## **26.5. CORRECTIVE AND PREVENTIVE ACTION**

- 26.6. The Supplier shall provide an effective procedure for prompt and positive action to correct conditions that have resulted or could result in defective parts. Procedures shall provide for corrective and preventive action for both Supplier and subcontracted discrepant material, and for similar materials and processes that may be affected.

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 12 of 13
		Revision: 1.0	Date: 09-29-14
Title: <div style="text-align: center;"><b>Supplier Quality Requirements</b></div>			

26.7. Corrective action is required of Suppliers who allow nonconforming supplies to be shipped to PPG Aerospace. When this occurs, a Supplier Notice of Nonconformance (SNN) form will be issued by PPG Aerospace. This form must be completed and returned to PPG Aerospace Incoming Inspection department within the time limit shown on the form. The corrective action must be acceptable to PPG Quality Assurance and subsequent production must prove the effectiveness of the action.

NOTE: For minor non-repetitive defects, an SNN form will be issued to inform the Supplier of discrepancies to prevent possible recurrence. No written response is required when N/A appears in the corrective action paragraph; however, failure to implement positive corrective action will result in rejection of subsequent shipments.

## **27. HANDLING, STORAGE, PACKAGING, PRESERVATION AND DELIVERY**

### **28. HANDLING**

28.1. The Supplier shall provide documented procedures to define the handling of product and materials, in all areas of the Supplier's facility, to prevent damage or deterioration.

### **29. STORAGE**

29.1. The supplier shall use designated storage areas or stock rooms to prevent damage, deterioration and unauthorized additions or removals of product awaiting delivery.

### **30. PACKAGING**

30.1. The Supplier shall control packing, packaging and marking processes (including materials used) to the extent necessary to ensure conformance to requirements specified on drawings, specifications and purchase orders

### **31. PRESERVATION**

31.1. The Supplier's procedures shall define the identification and control of any age-sensitive materials, and include measures to recall and remove any materials from use that have exceeded their recommended shelf life. Supplier shall furnish the shelf life of material and current expiration date of shipment lot/batch on the material certification. All material supplied to PPG Aerospace must have at least 75% of shelf life remaining. Materials that require environmental controls shall be defined within the supplier's procedures.

### **32. DELIVERY**

32.1. The Supplier shall provide a procedure for control of preservation, packaging, and shipping processes to preclude damage or deterioration during transit. The Supplier shall insure that shipments to PPG Aerospace contain the necessary packing list and certifications as prescribed by the purchase order. The Supplier shall furnish a Certificate of Conformance signed by the Quality Manager, or designate, with each shipment. Items

 <b>PPG Aerospace</b> <i>Where Smart Solutions Take Flight*</i>	<b>GLOBAL AEROSPACE PROCEDURE</b>	Document No.: GPP-001	Page: 13 of 13
		Revision: 1.0	Date: 09-29-14
Title: <p style="text-align: center;"><b>Supplier Quality Requirements</b></p>			

contained in the shipment shall be identified on the Certificate of Conformance by identification number and serial number.

### **33. CONTROL OF QUALITY RECORDS**

33.1. The Supplier shall maintain adequate records of inspection, test, calibration and other quality assurance activities. The records shall provide objective evidence of the operations performed. The records shall be suitable in format, accuracy, and detail to permit analysis by management and for the initiation of specific corrective actions. Record retention shall be a minimum of 10 years, unless otherwise specified on purchase order, and shall be made available to PPG Aerospace upon request. Records may be in the form of hard copy or electronic media.

### **34. INTERNAL AUDIT**

- 34.1. At least annually, the supplier shall conduct an internal audit of their quality system to ensure compliance.
- 34.1.1. Method of documentation of audit check sheets and recording of audit results are at the discretion of the Supplier.
  - 34.1.2. Any deficiencies identified shall have a corrective action plan documented.
  - 34.1.3. Audit personnel shall be independent of supervision of the area(s) audited
  - 34.1.4. Management with executive responsibility shall review the internal audit results.
  - 34.1.5. All internal audit records shall be retained in accordance with, Control of Quality Records, and shall be available for review by PPG Aerospace.

### **35. TRAINING**

35.1. The Supplier shall maintain procedures that provide for the training needs and a method for assessing and documenting the proficiency of all personnel performing activities that affect quality. Training records shall be maintained and retained per PPG Aerospace record retention requirement.

### **36. SERVICING**

36.1. Not applicable, unless specified on purchase order/contract.

### **37. STATISTICAL TECHNIQUES (when applicable)**

37.1. When specified by purchase order, the Supplier shall identify the statistical techniques required for establishing, controlling and verifying process capability and product characteristics. Any sampling inspection methods employed by the Supplier must be approved by PPG Aerospace before implementing.