 <b>OSHKOSH™ Supplier Quality General Procedure</b>	<b>Document No.:</b> OSK-P2000
<b>Title:</b> Production Part Approval Process	<b>Reviewed/Revised:</b> 05/16/25
<b>Reviewed/Revised:</b> Andrea Krueger <b>Approved By:</b> Supplier Performance Council	Page 1 of 7

**1. PURPOSE:**

- 1.1. This procedure provides guidance on the execution of the Production Part Approval Process (PPAP) which is used by all Oshkosh Corporation Business Segments.

**2. SCOPE**

- 2.1. This procedure applies to all parts, components, and material purchased by all Oshkosh Corporation Business Segments, which are intended to be assembled into a vehicle/machine, including aftermarket product.

**3. REFERENCE:**

- 3.1. Oshkosh Reliance Software: <https://supplierquality.oshkoshcorp.com/reliance>
- 3.2. Supplier Standards Guide (SSG): <https://osn.oshkoshcorp.com/supplier-resources/standards-guide>
  - Section A: Global Supplier Quality Manual (GSQM)
  - Section A-Addendums: Defense, EITAN & NGDV
  - Section J: Supplier Product Labeling and Packaging Instructions
- 3.3. Supplier Quality Core Tools: <https://osn.oshkoshcorp.com/en/supplier-resources/training/supplier-quality-core-tools>
  - PPAP Workbook (F2000), Procedure (P2000), Training (T2000)
  - Supplier Change Request Form (Reliance RCM or F1000), Procedure (P1000), Training (T1000)
- 3.4. Oshkosh Supplier Network (Supplier Portal): <https://osn.oshkoshcorp.com/>
- 3.5. Supplier Systems Access: <https://osn.oshkoshcorp.com/en/supplier-sign-in>
- 3.6. Secure File Transfer (MOVEIT): <https://sftp.oshkoshcorp.com/saml/signon.aspx>

**4. DEFINITIONS:**

- 4.1. DFMEA: Design Failure Mode Effects Analysis
- 4.2. GPSC: Global Procurement and Supply Chain
- 4.3. GSQM: Global Supplier Quality Manual
- 4.4. MSA: Measurement Systems Analysis
- 4.5. PFD: Process Flow Diagram
- 4.6. PFMEA: Process Failure Mode Effects Analysis
- 4.7. PPAP: Production Part Approval Process
- 4.8. PQR: Procedure Qualification Record
- 4.9. PSW: Part Submission Warrant
- 4.10. RCM: Reliance Change Management
- 4.11. SCR: Supplier Change Request
- 4.12. SQE: Supplier Quality Engineer
- 4.13. SSG: Supplier Standards Guide
- 4.14. WPS: Welding Procedure Specification
- 4.15. WQTR: Welder Qualification Test Record

**5. PROCEDURE:**

- 5.1. The GPSC team ensures that suppliers to Oshkosh Corporation comply with the requirements of this procedure.
  - It is the GPSC Buyer's responsibility to ensure that the PO communicates and properly informs the supplier of the PPAP requirements.
  - Purchase orders may contain a note requiring suppliers and subcontractors to comply with the provisions in the Oshkosh Corporation SSG, Section A – GSQM.
- 5.2. Reason for PPAP request:
  - Initial Submission
  - Engineering Change(s)
  - Tooling: Transfer, Replacement, Refurbishment, or additional
  - Correction of Discrepancy
  - Production Break to Oshkosh Corporation > 1 year
  - Change to Optional Construction or Material


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- Sub-Supplier or Material Source Change
- Change in Part Processing
- Parts Produced at Additional Location
- Other – Please specify

**5.3. Supplier Change Requests / Deviations**

- The Supplier is responsible for communicating to Oshkosh Corporation anytime there is a proposed change to the process or product being supplied to Oshkosh Corporation utilizing Oshkosh Reliance Software. The change request cannot be implemented without formal authorization from Oshkosh Corporation. Reference the SCR Procedure.

**5.4. Submission Requirements can be found in the PPAP Workbook on the red “PPAP Requirements” tab. Oshkosh Corporation has established four levels of PPAP (Level 1, 2, 3, 4). A Level 2 PPAP submission is the default PPAP level for all products supplied to Oshkosh Corporation. Please follow segment specific guidelines for levels 1, 2 & 4; when not clearly defined, any questions should be directed to the applicable segment SQE. SQE can request additional PPAP samples and process documentation based on the part criticality. Level 4 PPAPs and Aftermarket PPAP’s must be submitted with parts shipping**

- Oshkosh Corporation Segment Supplier Quality Representatives choose the PPAP submission level based on the criticality of the product under review. In some instances, contracts define PPAP levels and cannot be adjusted.
  - Level 1 is typically assigned for: COTS, catalog items
  - Level 2 is typically assigned for: default Oshkosh PPAP Level
  - Level 3 is typically assigned for: Complex weldments, castings, wire harness assemblies, critical electrical items, safety critical items, anything with SC/CC
  - Level 4 is typically assigned for: prototype / non-saleable vehicle parts
- The default PPAP submission level can be changed by the Oshkosh Corporation Segment Quality Representative. There may be instances when the specific Oshkosh Corporation Segment will require a PPAP submission different than Level 2, depending on the specific component being supplied. Oshkosh Corporation provides approval of the PPAP package via Reliance PPAP Module for all PPAP Levels.
- When requiring a **Level 1 PPAP** submission, it shall be submitted through reliance (or emailed if supplier is not in Reliance) to Oshkosh Corporation in parallel with the first production order. Ideally these should also be approved prior to shipment, but shipping prior to approval is allowed at the discretion of Segment or business unit.
- When a **Level 2** or **Level 3 PPAP** submission is required, it shall be reviewed and approved by an Oshkosh Quality Representative (either 3<sup>rd</sup> party SQE, Quality Inspector or Segment SQE) prior to the first production shipment. PPAP parts may be requested to be sent into Oshkosh for review along with the PPAP submission. **Suppliers are not authorized to ship production material to Oshkosh Corporation without full or interim PPAP approval.** Interim PPAP approval may be used to permit the supplier to ship material on a limited time or quantity basis in accordance with the Interim Approval Worksheet or RCM
- When a **Level 4 PPAP** submission is required and utilized for non-production or non-saleable vehicles submissions, it shall be sent to Oshkosh Corporation with the first order. When a part becomes a production part, a Level 1, 2 or 3 PPAP would be required to be submitted prior to shipment.

**5.5. Level 1 PPAP Submission specific requirements:**


- PSW; \*Defense Integrated Product Support requires Material Certification along with warrant

**5.6. Level 2 PPAP Submission specific requirements:**

- PSW
- Dimensional Results – 1-piece → This includes 1-piece Dimensional Results for any subcomponents outlined on the drawing part number being purchased and drilled down through sub-component prints until no more BOMs present on drawings. This requirement of subcomponent dimensional may be changed by the Oshkosh SQE.
- Design Records (Bubble Print)
- PPAP Samples – First production order / upon request prior to production order

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- Print Notes (Attach copy of Raw Material Certification / Performance Test Report / Surface Finish / Labeling, Paint Process, Welding Documentation such as WPS/PQRs/ WQTR)
  - Supplier Change Request (OSK-F1000) – if applicable
- 5.7. Level 3 PPAP:
- PSW
  - Dimensional Results – 3-piece → This includes 1-piece Dimensional Results for any subcomponents outlined on the drawing part number being purchased and drilled down through sub-component prints until no more BOMs present on drawings.; This requirement of subcomponent dimensional may be changed by the Oshkosh SQE.
  - Design Records (Bubble Print)
  - PPAP Samples – First production order / upon request prior to production order
  - Print Notes (Attach copy of Raw Material Certification / Certificate of Compliance / Performance Test Report / Surface Finish / Labeling, Paint Process, Welding Documentation such as WPS/PQRs/ WQTR)
  - If a Purchase Part (Parent) Oshkosh Drawing contains a Subcomponent (Child) with an Oshkosh Drawing, a 1-piece Dimensional Results, Design Record (Bubble Print), Print Notes (Raw Material Certification, Certificate of Compliance, Performance Test Reports, Surface Finish, Labeling, Paint Process, Welding Documentation such as WPS/PQRs/ WQTR), and Supplier Change Request (If Applicable) is required.
  - Supplier Change Request (OSK-F1000) – if applicable
  - DFMEA → Required when Supplier is design responsible
  - PFD
  - PFMEA
  - Initial Process Capability is required when Critical Characteristics are called out on the drawing; The Oshkosh Corporation SQE may change this requirement depending on the component.
  - MSA is required when performing Process Capability; Oshkosh SQE may require additional measurement methods.
  - Process Control Plan
  - Appearance Approval Report (AAR) (If applicable) the SQE will request
  - Checking Aids (Fixture, gage, template, etc)
  - Records of Compliance with Customer Specific Requirements  If applicable the SQE will request.
  - Master Sample Photo Documentation of PPAP parts
  - Tooling Photo Documentation  Required when manufactured with Oshkosh Corporation owned tooling
- 5.8. Level 4 PPAP:
- PSW → Confirmation of conformance to all Print Notes on PSW
  - Dimensional Results – 1 piece (Only includes the purchased part level drawing dimensional results)
  - Design record (Bubble Print)
  - PPAP samples
- 5.9. Production parts shall meet all customer engineering Design Record and specification requirements to include all safety and regulatory requirements.
- 5.10. Filling in the PPAP Paperwork
- **PSW** – The Supplier shall complete the Oshkosh Reliance PSW after all PPAP elements are verified and conform to all requirements. Oshkosh Corporation requires that Suppliers only submit one part number on a PSW.
  - **DFMEA if the Supplier is product design-responsible** – Oshkosh Corporation requires suppliers to develop a Design FMEA in accordance with, and compliant to, Oshkosh Corporation requirements if design-responsible. The Supplier shall use their own format for the DFMEA.
  - **Engineering Change Notice (ECN)** – The Supplier shall maintain copies of any authorized engineering change documents for those changes not yet recorded in the Design Record but incorporated in the product, part or tooling. All marked drawings from Oshkosh Defense must be approved by engineering. Marked drawings are acceptable for PPAP submission if a released or Advanced Drawing is not available due to timeline constraints in the interim ONLY with an approved F1000 and CN number. For suppliers not on Reliance, the RCM form can be found on the Supplier Portal, otherwise an RCM would be submitted through Reliance using the Reliance Change Management Module.

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- **PFD** – The Supplier shall have a PFD outlining the process steps to manufacture the quoted product. PFDs for “families” of similar parts are acceptable if the new parts have been reviewed for commonality by the Supplier. The PFD must represent the process flow of material from receipt of raw material to finished goods at the dock for shipment.
- **PFMEA** – Oshkosh Corporation requires the Supplier to develop and maintain a Process FMEA in accordance with the requirements outlined in the PPAP Workbook (OSKF2000) The Supplier shall conduct the MFMEA – Machinery Failure Modes & Effects Analysis at the discretion of the SQA person assigned to the Supplier for APQP activities.
- **Dimensional Results** – The Supplier shall provide evidence of dimensional verification as required by the Design Record and the Control Plan proving compliance with specified requirements. The Supplier shall have dimensional results for each unique manufacturing process, e.g., cells or production lines and all cavities, molds, patterns or dies. The Supplier shall record actual results for all dimensions, characteristics, and specifications as noted on the Design Record and Control Plan. CMM measurement readouts can also be used as long as they can be easily tied back to the Bubble Print.
- **Records of Material / Performance Test Results** – The Supplier shall have records of material and/or performance test results for tests specified on the Design Record or Control Plan and adhere to the retention requirements.
- **Material Test Results** – The Supplier shall perform all chemical, physical, metallurgical, or mechanical property tests for all parts and product materials when chemical, physical, metallurgical or mechanical property requirements are specified by the Design Record or Control Plan.
  - Material Test Results shall indicate and include the following, which should be included in the PPAP workbook to report the information:
    - The Design Record change level of the parts tested.
    - Any authorized engineering change documents that have not yet been incorporated in the Design Record.
    - The number, date, and change level of the specifications to which the part was tested.
    - The date on which the testing took place.
    - The quantity tested.
    - The specified results
    - The material Supplier's name and vendor code.
- **Performance Test Results** – The Supplier shall perform tests for all part(s) or product material(s) when performance or functional requirements are specified by the Design Record or Control Plan. A performance test (unlike in-process checks, which do not require qualified laboratory documentation) is the process of verifying the functionality of the Product (Finished Part) when exposed to the conditions that they will be used in. The Supplier shall use the performance testing template within the PPAP workbook to document and submit the performance test results.
  - Performance Test Results shall indicate and include the following:
    - The Design Record change level of the parts tested.
    - Any authorized engineering change documents that have not yet been incorporated in the Design Record
    - The number, date, and change level of the specifications to which the part was tested.
    - The date on which the testing took place.
    - The quantity tested.
    - The specified results.
- **MSA** – The Supplier shall have applicable MSA studies, such as gage R&R, for all new or modified gages, measurement, and test equipment.
- **Initial Process Studies (Capability)** The level of initial process capability or performance shall be a minimum Cpk value of 1.33 for all variable Major or Critical characteristics. The Supplier shall perform MSA to understand how measurement error affects the study measurements. Where no Major or Critical characteristics are identified, Oshkosh Corporation reserves

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the right to require demonstration of initial process capability on other characteristics. On-going statistical monitoring of all Major or Critical Product Characteristics is required by the Supplier. The Supplier shall ensure that the process sustains a stable process with a minimum Cpk value of 1.33.


- **Laboratory Documentation** – The inspection and applicable testing for PPAP shall be performed by a “qualified laboratory” (internal or external to the Supplier organization). The laboratory must have a legitimate business license, scope of business, and all documentation proving that the laboratory is qualified for the specific type of inspection and testing performed on any sample part/component.
- **Process Control Plan** – The Supplier shall have a Control Plan to define all methods used for process control. The Supplier shall use the Process Flow Diagram and FMEA to verify line of sight to the Control Plan. The Control Plan must include all Critical Product Characteristics and process controls driven by the FMEA process.
- **Master Sample** – It is at the Oshkosh Quality Representative’s discretion to require the Supplier retain a Master Sample for all parts/components at the supplier location. This will be noted on the PSW. The Master Sample must be appropriately labeled with traceability. The Supplier is responsible to ensure appropriate preservation of the master sample.
- **Checking Aids** – All instruments, templates, attribute and variable gages, fixtures, or jigs that are used to determine acceptance/rejection of a product characteristic shall be on a calibration program. The Supplier shall also certify that all checking aid characteristics align with the part/component dimensional requirements. If the checking aid is used to verify a “Major” or critical product characteristic, the Supplier shall conduct the appropriate MSA activities including Gage R&R. The Supplier shall ensure that all “custom” checking aids have the customer part number and revision level.
- **Submission Samples** – If a sample is required for PPAP submission, the Supplier shall ensure that the “PPAP Parts Label” is filled out and attached appropriately to the outside of the sample container. For production parts that are produced from more than one die, mold, tooling, pattern, cavity or production process, the Supplier shall complete a full layout to all characteristics.
- **Appearance Approval Report** – If the part/component has appearance requirements specified, the Supplier shall provide an Appearance Approval Report for each part or family of parts.
- **Shipping Labeling Requirements** – The supplier shall ensure that the Shipping Label (Figure 9: Label Specifications from SSG, Section J) is filled in correctly.
  - Shipping Labeling Requirements include:
    - o Part Number
    - o Revision
    - o Quantity
    - o PO
    - o Supplier Name
    - o Supplier Part Number (when applicable)
    - o Serial Number (when applicable)
    - o Manufacturing Date
    - o Ship Date
    - o Country of Origin

#### 5.11. PPAP Approval Process & Status

- **Approved\*** – An Approved PPAP is when the PPAP has been reviewed by Oshkosh Corporation Quality Representative and it has been determined that the PPAP has met all the requirements that has been requested of the supplier. The Supplier will receive an approval through Reliance (or a signed and approved PSW via email to the email address provided on the PSW submitted with the PPAP package if supplier is not on Reliance yet).
- **Interim Approved\*** – An Interim Approved PPAP is when the PPAP has been reviewed by an Oshkosh Corporation Quality Representative and it has been determined that the PPAP submission has met all the requirements to allow the Supplier to

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ship product and use on vehicles / machines. However, there are still additional actions that are needed of the Supplier to become a Fully Approved PPAP. The Supplier is authorized to ship material for production requirements on a limited time or piece part quantity basis. Interim approval is only permitted when the Supplier has clearly defined the discrepancies preventing full approval and has an action plan to resolve such discrepancies.

- **Not Approved or Reject\*** – When a PPAP is Not Approved that means the PPAP either has not been reviewed, submitted, or it has been rejected by Oshkosh Corporation Quality Representative. The Supplier is not authorized to ship product for the use on Vehicles / Machines intended for sale to a customer. A rejected PSW is sent to the Supplier (when supplier is not in Reliance yet) in the event that the PPAP submission does not meet Oshkosh Corporation requirements. In the event of a PPAP rejection, the Supplier shall take all action necessary to expediently correct the non-conformances.

**\*NOTE: If supplier is on Oshkosh Reliance NO signed PSW will be provided. Reliance software will show status of PPAP, (i.e. approved, rejection, interim approved, approve with an SCR). Supplier will also receive email when a PPAP is rejected or interim approved along with rejection codes, new due date and comments.**

#### 5.12. PPAP Submission Process:

- PO generates and communicates PPAP requirements.
- When the PPAP requires sample parts send them to the location on the Purchase Order. The container & parts must be marked with the PPAP Sample Parts Label that can be found in the PPAP Workbook.
- The Supplier is required to submit the PPAP paperwork via the Reliance system. When requested by segment or business unit, please submit a paper copy of the PPAP documents and part submission checklist with samples (if samples are requested).
  - Oshkosh Reliance provides NO signed PSW. Reliance software shows status of PPAP, (i.e. approved, rejection, interim approved, approve with an RCM). Supplier receives email when a PPAP is rejected or interim approved along with rejection codes, new due date and comments. If supplier is not able to use Reliance, The PPAP approval and rejection is communicated back to the Supplier via an email from the Oshkosh Corporation Segment Designee, except for the Defense Business Segment, whereas the MOVEIT site is utilized.
    - o Defense Production\*:
      - Do not email PPAP's due to ITAR restriction\*\*drawings cannot be emailed or sent with product\*
      - Level 4 PPAPs must be sent with the parts on the first order shipment. For Level 3 PPAP's the supplier must not ship production quantities until PPAP Interim or Full Approval is obtained.

## ADDENDUMS

**Access:** PPAP submissions and approvals are required for all Levels prior to shipment of parts to Access facilities.

**Defense:** Defense, EITAN & NGDV Addendums found on OSN <https://osn.oshkoshcorp.com/>

**Vocational:** None


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## Revision History

<b>Date</b>	<b>Revised by</b>	<b>Revision Details</b>
12/13/10	B. Heim	Original Release
11/1/12	A. Krueger	Include more detail within the submission requirements
9/1/14	A. Krueger	Moved the PPAP details from the GSQM into the P2000 procedure; added F&E detail for submission
5/31/15	A. Krueger	Added ADDENDUMS & revision history
03/31/17	A. Krueger	Added Section J: Labeling information
03/31/17	A. Krueger	Added Reliance information / requirements into 5.11, 5.13-5.14
05/04/18	Omar Alvarado	Added requirements (5.7) for subcomponents (child, grandchild) Added requirements (5.10) for performance testing
6/5/20	J.P. Thielen	Updated the content to reflect the usage of Reliance QMS for PPAP submissions.
1/17/2022	Eric Barker	General updates including expanded references to Reliance, formatting issues, adequacy and relevancy
2/15/2023	Jessica Halvorson	Updated Links
5/16/25	Andrea Krueger	Document review through Supplier Performance Council. Many changes (formatting, definitions, new links)