

SUPPLIER Procedures

SQD-009 (Flawless Launch) - EARLY PRODUCTION CONTAINMENT PROCEDURE

Scope

at Eaton's request to ensure a flawless product launch. It is to be used for all pre-production and production requirements that require the Production Part Approval Process (PPAP) and/or represent significant risk to the receiving Eaton or Customer facility as identified by Eaton. This procedure is conducted as secondary operations (i.e. not the same inspectors inspecting their own work twice) off-line from the production process. It is an increased level of off-line inspection for a specified period of time or for a specified number of shipments. This procedure is communicated to the supplier during APQP and is considered a contractual obligation that must be

Definition and Purpose

acceleration (ramp-up), so that any quality issues that may arise are quickly identified and corrected at the supplier's facility and not at the Eaton Plant. SQD-009 Early Production Containment requires a Pre-Launch Control Plan, a significant enhancement to the supplier's Production Control Plan, that will raise the confidence level and ensure that all products shipped initially will meet Eaton specifications (done in conjunction with the level 3, 4, or 5 PPAP). The Pre-Launch Control Plan (PLCP) will serve to validate the Production Control Plan. The PLCP should take into consideration all the known critical conditions of the part, as well as potential areas of concern identified during the Production Readiness review. The PFMEA and production control plan shall be

Note: This procedure does not provide authorization to ship nor is it a shipping schedule.

Supplier Responsibility

The supplier must do the following:

1. Establish a containment process that contains the following elements:

Production Containment process.

manufacturing process and located at end documented.

- 1.3 Train personnel relative to the standardized work performed at the SQD-009 containment stations.

audits and testing to identify non-conformances during the production process. Depending on the dominant factor in the production process (set-up, machinery, fixture, tooling, operator, material components, preventive maintenance) additional controls could include:

- Increased frequency/sample size of receiving, process and/or shipping inspections.
- Mandated sub-supplier containment and/or sub-supplier support/audits.
- Additional inspection/control.
- Increased verification of shipping label accuracy.
- Enhancement of process controls, such as mistake proofing.
- Mistake proofing validation through introduction of known defects.
- Increased involvement and visibility of top management during this phase.

- 1.5 Prompt implementation of containment and correction when non-conformances are discovered.

applicable.

Control Plan format approved by Eaton. The development and documentation of the PLCP are expected to occur during the development of the quality plan. The PLCP is not a substitute for the Production Control Plan, but is over and above the Production Control Plan and shall be used to validate it. Eaton must approve the PLCP prior to production runs. Inputs:

- 2.1. Engineering Prints
- 2.2. DFMEA's and PFMEA's
- 2.3. Process Capability
- 2.4. CTQ's (Eaton defined and well as those CTQ's important to supplier's manufacturing process)

trial build, etc.) and for the production ship quantity specified by Eaton purchasing or supplier development department (up to 10 shipments) or until the production control plan is validated, whichever occurs later. Typically, the specified production quantity is intended to reflect the customer's acceleration plan to full

Note: This applies to Heat Treated products done by supplier or outsourced by supplier

- 4. To indicate compliance with the SQD-009 requirements, attach to each shipping label a green paper sticker dated and signed by the supplier's Plant QA Manager.

Exit Criteria

below. If the supplier is unable to meet the exit criteria or if the supplier's SQD-009 plan continues to identify non-conformances, the supplier is expected to continue the necessary containment measures to insulate Eaton Plant. This will continue up to the time when the quality concerns have been resolved to the satisfaction of both the Supplier and Eaton, and the Supplier's Production Control Plan is validated.

Criteria to Self-Exit Early Production Containment:

- 1. Ship a consecutive number of pieces (up to 10 shipments to each Eaton Plant location) specified by Eaton Purchasing or Supplier Development departments with no discrepancies or Eaton DMRs.
- 2. If supplier does not meet self-exit criteria, then, to exit SQD-009, all Eaton DMRs must be closed by Eaton plant Supplier Quality Engineer and corrective actions validated by Eaton.

Consequences of Shipping Non-Conforming Material

- A. Failure to execute SQD-009 may result in Controlled Shipping Level 2 and other possible consequences.
- B. Shipment of non-conforming material may result in Controlled Shipping Level 2.

General Process Flow:



