Advanced Product Quality Planning (APQP) – Section 6

Suppliers shall have a Quality Manual specific to their company explaining "The Company Quality System."

Each supplier shall establish, document, implement and maintain a quality management system and continually improve its effectiveness.

The supplier shall:

A) Identify the processes needed for the quality management system and their application throughout the organization.
B) Determine the sequence and interaction of these processes.
C) Determine criteria and methods needed to ensure that both the operation and control of these processes are effective.
D) Ensure the availability of resources and information necessary to support the operation and monitoring of these processes.
E) Monitor, measure and analyze these processes.
F) Implement actions necessary to achieve planned results and continual improvement of these processes.

The Quality Management System shall include:

A) Documented statements of a quality policy and quality objectives.
B) A Quality Manual.
C) Documented procedures necessary to carry out the Quality Management System.
D) Documents needed by the supplier to ensure the effective planning, operation and control of its processes.
E) Records required as evidence that the Quality System is effective.

APQP:

For the APQP process the supplier are expected to follow the AIAG "**Advanced Product Quality Planning and Control Plan"** manual (Current Edition).

The following is to be used as a guide:

1) Planning and Define program.
2) Product Design and Development.
3) Process Design and Development.
4) Product and Process Validation.
5) Feedback, Assessment and Corrective Action.
6) Control Plan Methodology.
7) Product Quality Planning Checklists.
8) Analytical Techniques.

FMEA's:

The supplier is expected to follow the AIAG "**Potential Failure Mode and Effects Annalysis**" manual (Current Edition), in the development of FMEA's.

Process Flow Diagram's:

The supplier shall provide a Process Flow Diagram representing the current process flow. The format to be used will be agreed upon between Powers & Sons and the supplier.

Control Plan's:

The supplier is expected to follow the standard practice for Control Plan format. The format is from "**Advanced Product Quality Planning and Control Plan**" manual (Current Edition).

Requirements:

Powers & Sons must have on file the latest revisions for the following documents:

1) FMEA's
2) Process Flow Diagram's
3) Control Plan's

The **FMEA's** and the **Control Plan's** must be approved by Powers & Sons. The approved documents must be on file at Powers & Sons.

If any changes are made to any of the documents listed above, the document shall be submitted to Powers & Sons for approval. This may require a PPAP resubmission; see "**Production Part Approval Process**" manual section I-3 (Current Edition) for resubmission requirements.

Note (Waivers):

Waiver from the PPAP process must be submitted in writing to Powers & Sons Purchasing Department. The waiver will be approved and / or disapproved and returned to the supplier.