



YAZAKI NORTH AMERICA, INC.
Purchasing – Supplier Quality & Development

6801 Haggerty Rd
Canton, MI 48187
734-983-1000

January 26, 2009

Subject: Revised PPAP Requirements

Dear Supplier,

Effective today we are releasing our revised PPAP requirements. Please review the attached appendix and take note of the changes to our current PPAP requirements that you must adhere to. This appendix will be published in the next release of our Supplier Quality Manual due the first quarter of 2009. A summary of the major affected areas and changes are listed below. If you have any questions or concerns please contact your Supplier Quality Engineer.

- Detailed explanation of all elements
- Only Submission levels 3 and 4 are accepted
- Initial process study requirement change

Sincerely,



Eriq Frommert

Supervisor

Supplier Quality and Development

Yazaki North America

Attachment: Appendix B

APPENDIX B

Yazaki PPAP Requirements

Yazaki only accepts level three (3) and level four (4) PPAP submissions. All PPAPs, except interims, shall be submitted through the eMatrix system and in the order listed below.

Level 3: full PPAP submission to Yazaki SQM requirements

Level 4: PSW, IMDS, drawing and other SQE specified requirements.

Usage: Self-certified suppliers, tool moves, SICR, drawing changes, engineering changes, interim approvals, etc.

PPAP item requirements:

1. **PSW** - All header information must link back to the drawing. PPAP must be submitted to the Yazaki part number. For bulk materials add performance specification number in drawing number field. Weight should be reported to the 4th decimal. Organization Manufacturing Information must be completely filled out. Customer Submittal Information must be completely filled out. Customer will always be YNA. If application is unknown, various must be stated. Materials reporting field must have all questions answered and IMDS number should be listed in proper field. If YEMR file is submitted in place of IMDS then "YEMR" should be stated in this field. Reason for submission must be checked - more than one reason may be selected. For interim approval the "other" check box should be selected and "For Interim Approval Only" should be stated in the field below it. Submission level must be checked - only one box should be checked. YNA only accepts Levels 3 and 4. Submission Results must be completely filled out for the items contained in the PPAP, the design record question must be answered (if there is a deviation contained in the PPAP then this question should be marked "No" and the deviation number placed in the comments under the declaration section). Production rate must be filled out. If deviation exists the number should be placed in the comments. If the PPAP is a result of an SICR then the SICR number needs to be listed in the comments. Tool tag question must be answered. Appropriate supplier authorization and information must be completely filled out.
2. **IMDS/YEMR** – Screenshot of acceptance page required with the IMDS number showing or a copy of the YEMR file and/or e-mail from the Yazaki IMDS group is acceptable for this requirement. A PPAP (not including interim) should not be accepted without an IMDS or YEMR acceptance. A part will need a new IMDS submission every time the content of the part changes or if there is change to the part weight.
3. **Design Record** – Must provide the drawing for the revision level that the PPAP is being submitted to. For bulk products a copy of the performance specification is required.
4. **Samples** – Must provide upon request of YNA SQE or other customer.

5. **Process Flow Diagram** – All header information must link back to the drawing. Must be in logical order according to the flow of the process from the material receipt through to the shipment to the customer.
6. **Control Plan** – All header information must link back to the drawing. Must be in logical order according to the flow of the process from the material receipt through to the shipment to the customer. Steps of the Control Plan must be in same logical order as the Process Flow. Material callouts must be stated for all Yazaki designed components. All significant characteristics, at a minimum, on the drawing must be included on the control plan. All SCs should be measured with variable measurement equipment unless attribute data is agreed upon with the YNA SQE and/or YNA Design Engineer (for Yazaki designed components). Control Plan Review Form is required on all Yazaki designed components if the drawing states that the review requirement applies.
7. **PFMEA** – All header information must link back to the drawing. Must be in logical order according to the flow of the process from the material receipt through to the shipment to the customer. Steps of the PFMEA must be in same logical order as the Process Flow and Control Plan. All items with any ranking of a 9 or 10 or high RPN must have a recommended action to reduce the RPN. For custom scales the top 20% of scale must have a recommended action to reduce the RPN or unless otherwise specified by the SQE.
8. **Dimensional Report** – All header information should link back to the drawing, all cavities and date that the report was conducted must be identified. All dimensions must be measured unless otherwise specified by the appropriate YNA SQE or YNA Design Engineer - applies to all parts purchased by YNA. All cavities (includes assembly lines) must be measured if tool is multi-cavity. Only one sample per cavity is required. Report should be less than one year old. Any measurement or requirement on the design record not met must be identified and covered on an approved/appropriate deviation - applies to all parts purchased by YNA.
9. **Material Test Results** – Must be from all of the raw material and component manufacturer(s) and/or service provider(s) (finishing, plating, chrome, etc.). Include FMVSS flammability test results if applicable. Must be less than one year old. Certificate must state the material grade and color if applicable. This must be current within 1 year of submission date or there must be documentation from the supplier stating that there is no shelf-life expiration to the material and that the supplier is still currently using the lot from that material certification.
10. **Initial Process Study** – All Significant Characteristics identified on the drawing and control plan require an initial process study. If no SC's are called out then supplier must choose one dimension to conduct a study on. If this is an assembly PPAP then the study(ies) should come from an SC (or other designated feature/process characteristic) on the base part of the assembly. Variable studies should be 100 samples minimum unless otherwise specified by the YNA SQE. Attribute studies should be 300 samples minimum unless otherwise specified by the YNA SQE. For variable studies a Ppk of 1.67 or higher is required for first time submission on products less than one year old. For parts that have no SCs and the supplier chooses a dimension for the initial process study, a Ppk study of 1.67 or higher must be submitted. All products older than one year can be submitted with a Cpk of 1.33 or higher. For engineering changes that affect Significant

Characteristics a Ppk of 1.67 or higher is required. For attribute data all samples must pass for the study to be acceptable.

11. **Measurement System Analysis** – All gauges identified in control plan for measurement of significant characteristic(s) must have a GR&R. If no SCs exist supplier is to submit GR&R on measurement equipment used on initial process study. Variable Gage R&R: 10 samples X 3 operators X 3 trials. For GR&R under 10% error, the measurement system is acceptable. For GR&R with 10% - 30% error, the measurement system may be acceptable based upon importance of application. Attribute Gage R&R: 20 samples X 2 operators X 2 trials. All results for each sample must match to pass.
12. **Qualified Laboratory Documentation** – Supplier's ISO or TS certificate and lab scope should be included in the PPAP. This is to confirm that the supplier is qualified to perform the measurements and testing according to their lab scope. For all sub-suppliers you must also include external lab documentation if applicable (ISO/IEC-17025, A2LA, NIL or other customer approved laboratory). This is to confirm if the sub-supplier is qualified to conduct the testing/measurement according to their lab scope. This includes all raw material sub-suppliers as well as platers, finishers, chromers, etc.
13. **Pre-Launch Control Plan** – On all GM specific parts unless older than one year and all components identified as "High Risk" by the YNA SQE. Criteria consist of heightened frequency in inspection or sample size aside from normal inspection criteria set for production. Pre-launch step is conducted separately from the normal inspection and should be identified as such.
14. **Engineering Change Documents** – Approved SICR must be included in the PPAP if applicable.
15. **Engineering Approval** – For all Yazaki designed components if there are deviated conditions noted on the dimensional report the approved deviation from Yazaki engineering is required.
16. **Appearance Approval** – If design records include appearance features: Color, Grain, Finish, Appearance Standards, or Mastering Standards an acceptance must be documented with the appropriate customer approvals.
17. **DVP&R** – Required for all Yazaki designed components and non-shelf item parts unless otherwise specified or waived by the appropriate YNA engineer. Suppliers do not need to include anything in the PPAP for this requirement if the component is designed by Yazaki.
18. **DFMEA** – Non-Yazaki designed components-retain at supplier/YNA designed components retained at YNA. Suppliers do not need to include anything in the PPAP for this requirement if the component is designed by Yazaki.