AUDIT REPORT
ISO 9001:2015

Date:01/31/2018 **Audit #** Suppl-HS

Scope:
• Getting familiar with the Harrington Signal business processes and workflow.
• Review of how Parr testing requirements and guidelines are translated into testing procedures, and followed afterwards.
• Looking into the different quality control aspects applicable for Parr ordered parts. Review of the supporting records.

ISO Sections: ISO 8.5.1 c, g; ISO 7.5.3.1 a; ISO 8.6 a
QM Sections: -
Reference Parr Quality Procedures/Forms: -

Lead Auditor: Andrei Yermalayeu
Auditor: Stacey Moon
Attendees/Interviewees: Jim Theesfeld, Rick Hardeman, Kevin Garrand, Kevin Carr

Nonconformities:

NC#1 – NC13912:
Testing instructions supplied by Parr found in the testing area were of older revision (4/8/10). Further inspection showed that the correct revision had been supplied to Harrington Signal. Observation of the testing process revealed that the current testing procedure 019-0882 rev. A, 8/29/11 was derived from the correct current Parr testing procedure 4/4/11. However this is a documentation version control issue, it may be beneficial to review the external documentation version control policy. ISO 7.5.3.2.c)

NC#2 – NC13914:
Serial numbering issue. The serial numbers are currently assigned to the IO Boards right before the shipping, but after the intermediate stocking step. Thus the different production batches can be mixed within a same serial number sequence due to the mismatch between the production quantity and order quantity. This essentially creates an issue of inability to identify or isolate the individual production batches. The serializing should be done prior to the stocking, with the unique SN range for each production batch, in order to be able to unambiguously tie a serial number to the specific date of production and production batch. ISO 8.5.2 p. 3.

NC#3 – NC13915:
A production batch is tested and moved to the next stage when it passes the testing, this generates a single record of advancement for the whole batch. There is no documentation traceability for the testing process of A2140E and other Parr products, due to the fact that the testing records for individual boards are not generated. Potential violation of ISO 8.1 e) 2), ISO 8.6 a), ISO 8.5.1 g), although ISO 9001:2015 allows some room on that regard. It also seems that such traceability requirements were not explicitly requested previously by Parr.
No records also exist for any repairs happening during the production process (apart from material requests), which is also may be viewed as a potential violation of the ISO 10.2.2 a).

Observations:

There is a very robust corrective action system in place, which is integrated into the whole working process. The occurring issues are being resolved promptly and quality system reflects correspondent changes.

Recommended Changes:

1. Serializing of Parr products must happen in the manner that allows to back trace a board by a serial number to the specific batch and production date.

2. Testing process of the A2140E may be additionally automated by a piece of script or simple terminal software that allow to execute mini scripts. This would remove the burden of typing in testing commands, reduce the probability of making typos and will the shift a focus of an operator towards better observation of the test specimen behavior.

☒ **Closing Meeting**	Date: 01/31/2018
Attendees: Jim Theesfeld, Rick Hardeman, Kevin Garrand, Kevin Carr	
Signature of Lead Auditor:	Signature of DQA: Stacey A Moon

☒ Follow Up Required (No later than 4/15/18)	Signature of Lead Auditor:
Follow Up Date:	Signature of DQA: Stacey A Moon

☒ Re-audit Required (Verification all actions as agreed upon have been sucessfully implemented)	Signature of DQA:
Audit Closed Date:	Signature of DQA: