

Arlington, Virginia Electrical Technologies Meeting Notes

Thursday 18 June 2009

PRESENT =>

Gary Zimak- NGSB-NN
Steve DiCarlo- EB
Dennis Fanguy- Bollinger
John Walks- NGSB-GC
Erik Bjorkner- NGSB-GC
Jim House- ATI/NSRP
Joe English – NGB-CG
Joe Cochran – NGB-CG
Thomas Gargiulo – NGSB-GC (called-in)
John Layman – NGSB-GC
Dan Morris – KITCO Fiber Optics
David Bergeron – NGSB-GC
Louis Bond – I. B. E. W.
David Kortbein – Marinette Marine
Darren Brick – NGSB-GC
Mathew Brown – JDSU
Chico McGill – I. B. E. W.
Christopher Nettles – ABS Americas
Roger Szabo – ABS Americas
Kevin Kincera – RPM Electric
Michael Simunek – NSWCCD
Ray Lanny – NGSB-GC
Brett Olsen – I. B. E. W.

First of all we had a record showing! Fantastic!

Agenda Review:

- Reviewed the Agenda at 0800
- Gary noted we want to pick 2 – 3 good topics and move out with them.

FO Inspection:

- Dan Morris and Gary lead the discussions with Matthew Brown regarding the current status with this subject.
- It was noted that bad FO is not addressed in the proposed system since it should be discovered during a separate test.
- This will not eliminate all testing – but could save cost by testing the entire path vs. each segment.
- This will improve the quality of the initial test and address issues up front prior to connectorization
- The objective is to have a method to perform an OBJECTIVE test rather than a SUBJECTIVE test.
- Need Navy to approve the new TEST process.

Arlington, Virginia Electrical Technologies Meeting Notes

Thursday 18 June 2009

- Proposal does not address MIL-STD-2042-5B as it is very ambiguous.
- Another benefit is the ability to save data such as screen shots of the test.
- Commercial world uses a similar device.
- *NEEDS:*
 - Software Developed
 - Identify a possible small hand held
 - A method to calibrate on site
 - The acceptable criteria for acceptance (Warrant Holder)
 - Survey for tracking failed FO connections
 - Roughly by KITCO – 60% fail visually
 - Cost analysis
 - Create a procedure and acceptance criteria

Hand Held PC:

- Erik presented an overview on a small hand held PC, ruggedized which will to support shipboard use.
- Could be used for Field Support with camera option, tracking material, planning & progressing, or tracking cables with say an RFID chip.
- Requested proposals for use on a hand held PC such as this.
- Erik passed around a INTERMEC CN3 hand held

Color Stacking Cables:

- Gary discussed the proposal for using different color cables:
 - RED – non-stackable power
 - White – stackable power
 - Black – controls
- This was started at NN to allow craft and the inspectors to visually know how cables could be pulled since NN do not electronically route cables.
- Submarines have some color sequences
- The issue was brought-up with out resolution regarding RED/BLACK communications.
- No further discussions.

Connectors:

- Erik presented a brief on connector issues regarding obsolete connectors
- This was presented since it was a specific request of PEO Ships
- Discussion regarding COTS and foreign connector issues
- Discussion on EMI/EMP issues with COTS and foreign connectors
- It was noted submarines have a minimal EMP issue while their EMI concern is generally greater.
- Erik passed around some examples of various connectors

Arlington, Virginia Electrical Technologies Meeting Notes

Thursday 18 June 2009

Composite Enclosures:

- Erik discussed composite enclosures.
- An example was passed around which had a 100dB attenuation rating; however, it was not shock and vib qualified.
- Erik presented a brief on this and showed some of the slides from the San Diego NSRP meeting where D. Michael Bergen of NAVSEA made a presentation on composites.
- There were discussions on this subject with regards to some other yards are suing composites.
- A suggestion was to develop a list of what is commonly available and then determine what is needed to support our industry. Find a vendor(s) to support and develop products to satisfy our needs.
- There was some discussions on OASIS, which is a Navy program to develop similar equipment.
- Joe Cochran is NGSB-GC representative
- This has a potential for life cycle savings.
- One question was how is the UV protection?

EMI/EMP:

- Steve presented a brief on E3 issues in submarines and the existing MIL standards.
- Submarines have very little EMP issues.
- Currently 1310-G is the latest MIL-STD
- Erik presented a brief on current issues of surface ships with regards to EMP protection.
- The current conduit and fittings is heavy and expensive and often requires rework to achieve satisfactory protection.
- Additionally, the conduit requires extensive maintenance.
- There must be other systems which can be used for EMP protection which is lies costly and provides the same or more protection.
- Erik passed around some examples of Entraco Sea Frost and Glenair PRF-24758 fittings and conduit.
- Discussed were again the issues using COTS and foreign connectors and equipment where grounding is not possible.

Arlington, Virginia Electrical Technologies Meeting Notes

Thursday 18 June 2009

Cable Routing:

- Gary disused at a high level cable routing and the way we currently do business by reviewing the questionnaires from Greg Stevens.
- Perhaps we all need to look at the way we bill, track & progress pulling cables.
- Cable Tags are also an area of concern, so much so that no one in the room would trust a cable tag. The Navy is focusing on this due to LCS.
- There were discussions with regards to the skill level of craft.
- Joe Cochran stated NGSB-CG using a tool called Set-Route and it is a great tool.

Future Topics for the Next Meeting:

- Cable Routing
- Cable Tagging
- Cable Routing & Execution
- Tracking & Feedback
- Plug & Play for systems such as the 1MC