

Seattle, WA  
 Electrical Technologies Meeting Notes  
 Tuesday 2 November 2010

Attendee	Company
Justin Montague	ATI
Dennis Neitzel	AVO Training
Maureen Martens	3M
Charles Bruzzone	3M
Darren Brick	NGSB-GC
Walt Skalniak	Panduit
John Layman	NGCB-GC
Rob Hale	OGI
David Kortbein	Marinette Marine
Gary Thurston	DRS-TCS
Arthur Decuir	NASSCO
Kevin Kucera	RPM Electric
Dwight Otis	PSNS & IMF
David Denny	PSNS & IMF
Jason Farmer	NGSB-GC
Erik Bjorkner	NGSB-GC
Dan Morris	KITCO Fiber Optics
Gary Zimac	NGSB-NN

Call-in	Company
Greg Stevens	BIW
Galen McHale	NGSB-GC
Charlie Smith	NGSB-NN
John Tardy	NGSB-NN
Patti Huber	Concurrent Technologies Corporation
Elizibeth McDowell	ATI
McConnell, Allen D CIV	NSWCCD West Bethesda,
Jim Mays	Naval Surface Warfare Center CD

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**TOPICS =>**

**2011 Project Status:**

- Lighting – Rapidly Deployable
- Bus Bar Technology
- Bonding & Grounding

Projects will be presented by Gary in New Orleans in December 2010

All future projects should have a NAVSEA review meeting at the beginning of the project to understand if NAVSEA is also working a similar project in-house.

**2010 Project Status & Highlights:**

- Go/No-Go Fiber Optic Tester: (Dan Morris)
  - Implement 3<sup>rd</sup> Quarter 2011
  - MIL-STD-2042 must be revised to support the project
  - Next is to develop a hand held device instead of a lap-top
  - Reviewed the comparison of data between technicians of various skill levels and the Go/No-Go tester. The largest data set was where the technicians rejected an acceptable connection per Tester's algorithm.
  - A benefit is that the probe can be used on an assembled multi-plug and on 'live' systems
- Cable Tag Requirement: (Greg Stevens)
  - Primary focus is to make recommendations for cable tag reductions
  - Initial implementation of recommendations onboard DDG-51, CVN-78, T-AKE platforms
  - Deliverable is a report of recommendations
  - Pay-Off is a labor reduction regarding the installation of cable tags with an increase in accuracy
  - Draft Report will be completed the end of 2010 and presented at Ship Tech March 2011
- Solid State Lighting: (Jason Farmer)
  - Supports the Navy Green Fleet Initiative
  - Basically LED Lighting
  - Programs identified are: LHA-7, CVN-78, and DDG-113
  - Equipment evaluation in LAB ongoing, photometric distribution
  - Develop Trade Study
  - Develop Business Case
  - Final report with implementation plan

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- Shock testing to occur November 2010
- Positive is there are no disposal issues and the 'bulb' is expected to last 50,000 hours
- Investigating the possibility of battery powered fixtures
- Presentation at Ship Tech March 2011 anticipated

**New Topics:**

- Exothermic Welding: (Patti Huber)
  - Originally used on rail road ties
  - Could be utilized on cable splicing
- IVCS Phone Systems VOIP: (Jim Mays)
  - Navy would like to support an initiative for single system using lessons learned from DDG-1000
  - Potential weight savings
  - Cost savings potential
  - A VOIP Spec would be required
  - The JITC (Joint Interoperability Test Command) has a list of certified systems on their web site
  - A major issue was security
- Advance Fusion Systems: (Kevin Kucera)
  - Abstract regarding robust high power vacuum tubes of today
  - Watched a video supplied by Kevin Kucera

**Reviewed Past Topics:**

- Composite Electrical Boxes: (Erik Bjorkner)
  - Develop a project around the use of composite terminal boxes
  - Could eventually be included in an expanded Bonding & Grounding project at a later date
- EMP Protection: (Erik Bjorkner)
  - Investigate alternatives to EMP Protection
  - Various conduits and methods exist; however, some contracts are specific regarding the requirements
- Connectors: (Erik Bjorkner)
  - Discussions of obsolete connectors for use on CGE type equipment where the threads are different from different manufacturers for the same connector and associated parts
  - Discussion centered around this was not as large of an issue

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- Hand Held PC: (Erik Bjorkner)
  - The small hand held units of today have many benefits
  - Probably best; left up to the individual shipyard to develop their own uses for such a device

**Additional New Topics:**

- Cable Pulling: (Gary Zimak)
  - An Alternative method to shooting studs
  - Shooting test studs, then the studs and then more test studs is costly
  - Is there an easier more cost efficient alternative?
- OASIS:
  - Navy has this on hold
- MCMS: (Jim Mays)
  - Standardize software for all future vessels
- Cable Banding: (Gary, Walt, Justin)
  - There is another avenue to support this, DSR Funding stream
- Composite Deck Plates:
  - To add composite deck plates in front of Electrical Components in addition to electrical rubber matting to enhance safety
  - Moisture accumulates all too often under the electrical matting