



DoD E³ Conference

The 17th Annual DoD Electromagnetic Environmental Effects (E³) Program Review will be held 26-30 April 2010 in Tampa, Fla. It promulgates the responsibilities in DoDD 3222.3 to promote communication, coordination, commonality, and synergy among the DoD Components for E³ related matters. Log onto www.fbcinc.com/dode3/ for more information.

JSWAG in the Spring

The next action chit working JSWAG is scheduled for April 19-22 in Lexington Park, Md. This is an invitation only meeting. Please contact your committee lead if interested in attending. Visit www.navair.navy.mil/jswag for more information.

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505 tech manual receives update

The Joint Service General Wiring Maintenance Manual (NA 01-1A-505-1, T.O. 1-1A-14, TM 1-1500-323-24-1) has just been updated. The following is the culmination of an extensive effort between warfighters, engineers and logisticians to bring together considerable improvements to wire process, materials and equipment. Oliviu (Ollie) Muja with NAVAIR 6.7.1.3, the 505 technical manual lead, stated that he was extremely proud of the interaction and collaboration between: the various services, JSWAG participants, vendors and laboratories to bring about this intricate research, development, test and evaluation effort. For Volume: 1, it is the most extensive update since its release in 2004. In regard to Volume: 2, the circular connector manual (NA 01-1A-505-2, T.O. 00-25-255-1, TM 1-1500-323-24-2) it is targeted to be updated in 2010 and will be re-designated by the Air Force as: 1-1A-14-2. As for Volume: 3, the rectangular connector manual, (NA 01-1A-505-3, T.O. 00-25-255-2, TM 1-1500-323-24-3) it will be updated shortly there after, with the Air Force re-designating it: 1-1A-14-3. The following is a summary of the updates to Volume: 1 scheduled for November.

- 232 individual changes from 69 specifications; new processes, materials, sealants, cleaners, equipment and tools
- New SAE AS5457 Wire stripping tool specification updates
- New, detailed wire system inspection procedures (showing acceptable/unacceptable conditions)
- Heating tools (split into sub-work packages to reduce confusion between which tools are authorized on / off aircraft); IR heat gun ap-

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Update

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proved for flight line/deck.

- New cleaning compound for connectors and wire (Mil-PRF-29608A Type 1, Class C)
- New removable (flame retardant) sealing / potting compounds for
 - Connectors (Self-leveling Green – FR)
 - Contactors & Relays (Thixoflex – FR)
- New wire harness chafe protection products
 - 2 Continuous / tubular (Expando-type); 3 Wrap-around; 1 Shielded for wire harness repair
- New work package covering connector and component capping and stowing
- New work package covering filter line wire maintenance procedures with a place holder for Fire wire, Ethernet and USB cables and connectors
- New locking cushioned support clamp SAE AS 23190/4
- Updated tie string/lacing tape instructions and better material option (A-A-52083 and A-A-52084)
- New replacement Wire Label Printer, TLS-2200 (7025-01-499-4333)
- New connector back shell build-up tape: RL6000SA (5970-01325-8971) MIL-I-22444C

The Joint Service General Series Maintenance Manual for Fiber Optic Cabling (NA 01-1A-505-4, T.O. 1-1A-14-4, TM 1-1500-323-24-4) has been updated as well. The following is a culmination of an extensive effort between warfighters, engineers and logisticians to define, develop, refine and standardize on both new and existing processes and those materials and equipment/instrumentation used in these processes. This will reduce the total ownership cost for maintaining an fiber optic enabled aircraft and mature this technology so that other platforms can bring the latest in capability to the warfighter through its application. Brian McDermott, with the NAVAIR JSF Program Office and the technical lead for this manual, stated that he was extremely proud of the Joint Fiber Optic Working Group (JFOWG) coordinated interaction and collaboration among the various services (both military and civilian), government prime and support contractors, vendors and laboratories to bring about this development, test and evaluation effort. The following is a summary of the updates.

- Added three new work packages for termini termination (i.e. placement of termini, MIL-PRF-29504/4 and /5, onto the ends of fiber optic cabling) with processes to obtain
 - a domed ferrule end face with a PC (physical contact) polish and
 - a flat end face with a NC (non-contact) polish (third work package)
- Updated existing inspection table and to revise specifics in the labeling, preservation and inspection process.
- Added five new machine polishing tables and revised an existing table to include different pre and post polish ferrule end face geometries and termini types.
- Updated both direct and indirect marking intervals and requirements to reflect latest standardized practices. Also added a standardized scheme for cabling identifiers.
- Created new work package with symbol and numeric identifier to replace warnings for hazardous material.
- Updated HAZMAT control measures and handling procedures.
- Created multiple new work packages for assembling of and reentry into MIL-DTL-38999 Series III and MIL-PRF-64266 type connector backshells including solid type removable backshells and other connector accessories.
- Incorporated both new and revised definitions.
- Incorporated new work package that covers the preparation (inspection, cleaning and preservation) and capping of fiber optic multiple termini connectors.