



JSWAG Conferences/ Announcements

The next JSWAG Meeting is scheduled for August 21-23, 2012 in Dayton, Ohio. The JFOWG Meeting will be held the same week in Philadelphia, Pennsylvania. Please contact a committee chair if interested in attending.

Nominations for the 2012 Lu Roberts award recipient has begun. Please visit <https://jswag.navair.navy.mil/> to make your nomination. Nominations will close August 30, 2012 for voting to begin. The winner will be announced at the 2013 Spring JSWAG/JFOWG meeting.

Other Conferences

- AUVSI Unmanned Systems 2012 -- Las Vegas, NV
August 6-9, 2012
- DoD Maintenance Symposium & Exhibition -- Grand Rapids, MI
November 13-16, 2012
- Aircraft Airworthiness & Sustainment Conference -- Grapevine, TX
March 25-28, 2013
- AAAA Annual Professional Forum and Exposition -- Fort Worth, TX
April 10-13, 2013

Newsletter Contact

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Committee Overview

This newsletter is an overview of the efforts being worked in FY12 by the various JSWAG committees. Access the JSWAG site for full details and documents.

The Data Analysis Committee provides a forum for identifying issues related to maintenance data collection (mission capability, maintenance man-hours, safety, malfunction codes, discrepancy descriptions, and costs etc.) and identifying Electrical Wiring Interconnect System (EWIS) conditions which should be reported via the Joint Deficiency Reporting System (JDRS). It also addresses issues relating to data collected during EWIS testing performed at organizational, intermediate and depot levels of maintenance. It is heavily involved in developing methods for analyzing EWIS data collected from all sources.

The goals of this committee are to identify EWIS data sets to be collected, establishing analytical methods/guidelines to assist in Reliability-Maintainability, Root Cause or Reliability Centered Maintenance analyses. Results include improved mission capability, reduced maintenance man-hours, improved flight safety and reduced operating costs. Currently the committee is in the process of developing methods and analyzing EWIS test data collected during depot maintenance events on the AV-8B aircraft.

The Design & Installation Committee provides a forum for exchange of information soliciting user input on issues and deficiencies. Primary objectives addressed are related to the selection and installation of the EWIS components as outlined in the AS50881 and other applicable specifications. EWIS components that are correctly installed and maintained ensure the reliability and maintainability of any aerospace vehicle.

Current action items include an update to the Naval Aviation Maintenance Program (NAMP) CNAF INST 4790.2 addressing EWIS awareness and the standardization of clamp locator marker requirements for installations. EWIS maintenance management awareness training is also handled through this committee, which targets the EWIS preventative maintenance requirements and focuses on organizational level maintenance to address current and future requirements through a comprehensive hands on/on-site training.

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The Fiber Optic (FO) Committee provides a forum for identifying deficiencies and developing solutions for avionics fiber optic system maintenance and associated support equipment. It aims to promote commonality across the Joint Services, reduce maintenance man-hours, and reduce total ownership costs. This committee has established a joint service “unified front” to address fiber optic system issues and in specification development and recently incorporated lessons learned into the MIL-STD-1678 to define new requirements on acquisition programs as well as aided the Training Committee with the production of the Fiber Optic Awareness Video available at <http://www.defenseimagery.mil/index.html> and searching PIN # 806707.

An action chit has been completed concerning a low cost attenuation procedure to address support equipment calibration (Chit # 621). Going forward, this committee will focus on updates to the Fiber Optic Cabling Technical Manual. This revision, expected in the Fall of 2012, will include updated connector inspection requirements that are closely aligned with industry connector inspection criteria.

The Maintenance Committee provides a forum for uniformed/or government maintainers to recommend review of procedures, processes, policy, identify deficiencies and recommend improvements which affect the wiring system (EWIS). It promotes standardization, up-channel issues for a common resolution and provides a “unified front” as a means of correcting wiring systems issues. It also updates/drafts new technical orders/publications and specifications.

Accomplishments include developing the joint service NA01-1A-505-1 general wire maintenance procedures with improved processes, materials and equipment, developing the joint service NA01-1A-505-2 and -3 for connector maintenance procedures and researching, testing and evaluating over 300 new product part numbers, resulting in the fielding of new wire constructions, cleaning and potting, connectors, wire testers, grommets, heat shrink, splices, terminals, locking compounds, heating tools, various crimp tools and insertion tools, circuit breakers, collars, chafe repair products, shielding repairs, clamps, tie string, plastic ties, cable repair splice kits, etc. In FY-12, 57 action chits were completed.

The Quality Committee provides a forum for technical interchange among the industrial, fleet/uniformed maintainers and product support activities on wiring systems. It addresses the component specifications, qualification programs and coordination needs. It performs test and evaluation on prototypes and final components, provides guidance in specification development and interfaces with wiring interagency groups (i.e., Society of Automotive Engineers (SAE)). It also provides technical support based on operational experience for new design and modification efforts. This committee completed 6 action chits to date in FY12, and has been working with SAE to develop new Aerospace Standards for a number of new EWIS components and repair items including: (1) AS7928/14 and /12 standards for the Heatless Environment Resistant Ring Terminal and Splice; (2) AS22759/180 - /192 Smooth Composite Wire standards; (3) AS81824/7 - /10 Multi-Wire Splice standards; (4) AS81824/13 Stub Splice standard; and (5) AS6173 Wire Cutter standard. There are currently 21 open action chits in work.

The Training Committee is responsible for determining the best course of action for training at all three maintenance levels. The committee’s goals are to identify and recommend potential solutions in wiring maintenance deficiencies, equipment use and standardization via training and certification, provide an avenue for improvement through research, networking, course development review for both fiber optics and wiring concerns.

Accomplishments include developing 27 training posters for the JSWAG and Navy Safety Center websites and developing 14 Wire Repair Short Training Videos. The Air Force founded and integrated a mandatory “Advanced Wire Maintenance” course dedicated to the education of proper maintenance practices and wiring inspection techniques in accordance with 1-1A-14/NA01-1A-505-1 manual. The committee has been an integral part in fiber optic, Pin Point, and EWIS course development and deployment.

Direct feedback from maintainers guides the committee toward actions to affect universal change and continue vital training programs. The team is currently focused on continuous improvement and development of Joint Services Wiring Maintenance Courses. 