



Announcements

The next JSWAG/JFOWG Technical Interchange Meeting will be held 23-26 March 2015 at Robins Air Force Base, GA. To register, please visit <https://jswag.navair.navy.mil>.

Please see the new Heatless Splice Application Video at <https://www.youtube.com/watch?v=Op1YMaz454E&feature=youtu.be> for the application of the newly qualified M81824/14 splice.

Resources

- Aircraft Wiring Systems Awareness DVD- Defense Imagery PIN #806881.
- Fiber Optic Awareness DVD- Defense Imagery PIN #806707.
- Joint Services Wiring Manual Maintenance Techniques DVD- Defense Imagery PIN #806994.
- MIL-HDBK-522- Guidelines for Inspection of Aircraft Wiring Interconnect Systems- <https://assist.daps.dla.mil>.
- MIL-HDBK-525- Electrical Wiring Interconnect System (EWIS) Integrity- <https://assist.daps.dla.mil>.
- Need help locating information on connectors, contacts or accessories? If so, email us at jswag@navy.mil.

Newsletter Contact

JSWAG Coordinator
jswag@navy.mil



Air Force



Aircraft Wiring Technical and Engineering Support Updates

Various organizations in the Air Force Materiel Command are involved in providing Air Force support to JSWAG and related functions such as tech order updating, technical and engineering assistance requests, and research. The Air Force Maintenance Committee Co-Chairs are Donald (Donnie) Thompson (AFLCMC/EZPAA) an Equipment Specialist for EWIS and Dat Le (AFLCMC/WLSEAA) an Electrical Engineer for C-5 Aircraft. Mr. Thompson handles technical/maintenance chits and is Air Force Technical Content Manager for the General Aircraft Wiring Tech Order Series while Mr. Le handles maintenance engineering chits and of course C-5 wiring issues. Ms. Patricia (Tricia) Hicks (AFLCMC/EZFA) is the AFLCMC Electric Power and Wire Expert and the new Air Force Co-Chair for the Design and Installation Committee. Air Force Co-Chair for the Data Committee continues to be Ms. Cheryl Brotherton (AFLCMC/WLSEAA) a C-5 Wires Engineer. Mr. Mark Falknor (AFLCMC/EZPAA) an Electronic Engineer for connectors, terminating devices, wire & cable including Mil/Industry Standards is the Quality Committee Co-Chair and supported by AFLCMC/EZPAA peer engineers, Fred Brand (Electronics) and Travis Franck (Mechanical). The Air Force currently does not have a Co-Chair for the Fiber Optic committee. However, Mark Walker (AFRL/RXAP) assists the technical team with their action chits and initiatives.

Research efforts to evaluate new products and conduct failure analysis are provided by the Materials Integrity Branch of Air Force Research Laboratory's Material & Manufacturing Directorate. Recent efforts include evaluation of the impact of Corrosion Preventative Compounds on Aircraft Wire Insulation and Connectors and a newer one is the 270VDC Arc Characterization Program. Updates on these projects are provided at the biannual JSWAG meetings and the Interagency Wiring and Power Systems S&T as well as on the JSWAG private website under their applicable chit. Air Force "7 level electrical maintenance" training is still provided by 373 TRS (AETC); remains to be determined if they will have resources to remain as Training Committee Co-Chair.

Service Updates from page 1

Other plans within the AFLCMC Engineering/Technical Directorate include endorsement of the JSWAG Charter, developing a Focus Week course on the JSWAG to share with Aerospace Program Offices, actively participating in the JSWAG and Government/Industry Committees on Electrical Wiring Interconnect Systems (EWIS) to attain Military requirements in these standards. Air Force maintainer and sustainment engineering/technical participation in JSWAG has been severely impacted by Sequestration. Our hope is that Air Force participation will increase with Spring 2015 JSWAG meeting being held at Robins AFB, GA. This technical interchange meeting will be more in line with those held pre-FY13; 35 plus exhibitors on hand for discussion and demonstrations a joint collaboration with Dixie Crows, association of Electronic Warfare experts.



Army Point of Contacts



Within the Army, there is no one-stop as with the Navy or Air Force. However, when questions arise, individuals should contact the relevant component Program Management Office or technical publication.



Coast Guard Organization



U.S. Coast Guard Aviation wiring is supported by 6 groups all co-located at the Aviation Logistics Center in Elizabeth City, NC. Five of these are the Engineering/Tech Services groups of each Product Line (PL) (MH-65D, MH-60T, C-27, HC-144 and HC-130). Each of the product lines are responsible for their own aircraft wiring upgrade designs and providing direct support to the PDM process and to the field units for their specific aircraft type. The 6th group is the Engineering Services Division, Airworthiness Sustainment Branch, Wiring Cell. The wiring cell is made up of the Wiring Group and the Automatic Circuit Analysis Test Systems (ACATS) Group. Both groups provide overarching support to the product line for configuration, engineering and testing services.

The Wiring Group, supervised by Mr. Keith Stevenson, is responsible for Wiring Configuration Management, technical drawing, TCTO and CG-22 review. The wiring group provides special wiring project oversight while providing a liaison with other government agencies. Mr. Stevenson is currently providing subject matter expertise to the ALC PLs and the Graphics Department on EWIS and Smart Graphics upgrade. Mr. Bob Berrio is the Aircraft Wiring Configuration Control Manager (AWCCM) and performs Logistics Compliance Inspections aircraft wiring assessments.

The ACATS Group is responsible for the entire automatic wiring analyzer program throughout the Coast Guard aviation community. The ACATS Program Manager is Mr. Paul Sassin and Mr. Jeremy Benton is the lead contractor programmer. ACATS Group develops all aspects of AWA tester operations, from tester programming and repair to adapter cable build parts lists and drawings and providing operator certification training. AWAs are current being used to test entire airframe harnesses, back-shop components and assemblies, harness build shop products and field unit electrical assemblies. The ACATS group is currently researching improving AWA testing of shielded pair and coax wiring in addition to expanding circuit breaker testing.



Navy/Marine Corps Organization



Various organizations in the Navy/Marine Corps are involved in providing support to JSWAG.

Maintenance Committee- Mr. Oliviu Muja (NAVAIR 4.4.53 Wiring Systems)

Design and Installation- Mr. David Quinzani and Mr. Danny Capps (NAVAIR 4.4.5.3 Wiring Systems)

Fiber Optics- Mr. Mark Beranek (NAVAIR 4.5) and Mr. Eric Bluebond (NSWCCD)

Training- ATCS Dave Shipman (NAVAIR 6.7.5.2 Aviation Special Skills Training)

