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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

JSWAG

Introduction Slides

Date: 11/8/24

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Agenda

Welcome
Joint Services Wiring Action Group (JSWAG)
Around the Room



Agenda





Agenda

Break at 10

Main Room, Fiber Room, and Training Room
Breaks, Lunches, and End of Days



Agenda

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Oct 30, 2024

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



OFFICE OF PREPUBLICATION AND SECURITY

| Time | Tuesday 10 Dec 24 | | | | |
|-------|---|---|--------------------------------------|-------------------------------|-------------------------|
| 7:00 | Continental Breakfast (Exhibit Hall) | | | | |
| 8:30 | OSD Opening - Deputy Assistant Secretary of Defense for Materiel Readiness Grand Ball Room | | | | |
| 10:00 | Break | | | | |
| | JSWAG Ops Office Room (355A) | JSWAG Main CR Room (355B/C) | JSWAG Training Room (355D) | JSWAG Breakout Room (355E) | JFOWG CR Room (355F) |
| 10:30 | JSWAG Conference Opening Comments (355 B/C) | | | | |
| 12:00 | Lunch | | | | |
| 13:30 | Distinguished Vistor Engagment/JSWAG Command and Control | EWIS Quality Defects at the Aircraft (Quality) | Automatic Wire Test Set Training (E) | Breakout sessions | JFOWG 101 |
| 14:15 | | Zip Tie Restrictions (Mx) | Automatic Wire Test Set Training (E) | | Fiber Optics 101 |
| 14:30 | | | | | |
| 15:00 | | | | | |
| 15:30 | End of Day | | | | |



Agenda

Welcome
Joint Services Wiring Action Group (JSWAG)
Around the Room
Break at 10
Main Room, Fiber Room, and Training Room
Breaks, Lunches, and End of Days
Wednesday



Agenda



| Wednesday 11 Dec 24 | | | | | |
|---------------------|---|--|--------------------------------------|----------------------------|---|
| | JSWAG Ops Office Room (355A) | JSWAG Main CR Room (355B/C) | JSWAG Training Room (355D) | JSWAG Breakout Room (355E) | JFOWG CR Room (355F) |
| Time | | | | | |
| 7:00 | Continental Breakfast (Exhibit Hall) | | | | |
| 8:00 | Distinguished Visitor Engagement/JSWAG Command and Control | Weapon System Interactive Reporting Dashboard (WSIRD) (Data) | Automatic Wire Test Set Training (E) | Breakout sessions | Fiber Optics Maintenance 101 |
| 8:40 | | Army ASAP & USA/USAF EWIS WUC Progress/V22 (Data) | | | |
| 9:15 | | V22 Osprey AWTS (Data) | | | |
| 9:30 | Break | | | | |
| 10:00 | Distinguished Visitor Engagement/JSWAG Command and Control | Design of circuits (D/I) | Automatic Wire Test Set Training (E) | Breakout sessions | Fiber Optics Maintenance (Test Sets) |
| 10:45 | | CPCs (Mx) | | | Fiber Optics Maintenance (FO Fusion Splice) |
| 11:30 | Lunch | | | | |
| 13:30 | Distinguished Visitor Engagement/JSWAG Command and Control | SAE AS 50881 Rev H Updates (D/I) | Hand Crimping Tools Training (D) | Breakout sessions | Fiber Optics Maintenance (Panel/Exhibit) |
| 14:15 | | NAVAIR Update (Special one) | | | Fiber Optics Supportability |
| 15:00 | Deputy Assistant Secretary of Defense for Materiel Readiness Comments (Option #1) | | | | |
| 15:30 | End of Day | | | | |



Agenda

Welcome
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Breaks, Lunches, and End of Days
Wednesday
Thursday



Agenda



| Thursday 12 Dec 24 | | | | | |
|--------------------|---|---|----------------------------------|----------------------------|---|
| | JSWAG Ops Office Room (355A) | JSWAG Main CR Room (355B/C) | JSWAG Training Room (355D) | JSWAG Breakout Room (355E) | JFOWG CR Room (355F) |
| Time | | | | | |
| 7:00 | Continental Breakfast (Exhibit Hall) | | | | |
| 8:00 | Distnguished Vistor Engagment/JSWAG Command and Control | Army MOS Schoolhouse Training (Training) | Hand Crimping Tools Training (D) | Breakout sessions | Fiber Optics Supportability (NSNs for repair parts) |
| 8:30 | | Illegal Modification of Primary Support Clamps (Mx) | | | Fiber Optics Supportability (Panel/Exhibits) |
| 9:00 | | Splicing Restrictions in Firing Circuits (Mx) | | | |
| 10:00 | Break | | | | |
| 10:30 | Distnguished Vistor Engagment/JSWAG Command and Control | Unsuitability of Commercial Signal Integrity Connectors For NAVAIR Applications (Quality) | Hand Crimping Tools Training (D) | Breakout sessions | JFOWG Closing Comments/Q&A |
| 11:15 | JSWAG Conference Closing Comments (355 B/C) | | | | |
| 11:30 | Deputy Assistant Secretary of Defense for Materiel Readiness Comments (Option #2) | | | | |
| 12:00 | End of Conference | | | | |



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14 Dec 2024, 3 pm EST



Go Army

20 November 2024



All Time Series

Navy Leads

62-55



Beat Navy



JSWAG Focus

To Respond to the Warfighters Requirements

- Chartered, joint service forum to improve safety, reliability, availability, and maintainability of DoD aircraft by improving Electrical Wiring Interconnect Systems (EWIS)
- Directly supports the warfighter with timely, specific aircraft wiring systems and component solutions
- Develops new components, capabilities, specifications and supports engineering/testing to expedite solutions
- Supports all types/models/series and sharing lessons learned on EWIS solutions

It's not just wiring It's a **“System”**



History



- Celebrating 40 years of Joint Warfighter support
- In 1984, the Navel Aerospace Vehicle Wiring Action Group (NAVWAG) was formed and chartered
- In 2005, the Joint Services Wiring Action Group (JSWAG) was formed when NAVWAG merged with Air Force and Coast Guard
- In 2006, Joint Fiber Optics Working Group (JFOWG) joined JSWAG
- In 2015, the Army started participating in the JSWAG, which allowed decisions to be DOD specific versus service Specific





FY 25

2024 – New Joint Services Wiring Action Group Charter was signed by Army, Navy, Marines, Coast Guard, and Air Force

FY 25 – The Joint Charter was approved and signed by:

Mr. Patrick Kelleher

Deputy Assistant Secretary of Defense (Materiel Readiness)



What's New

New JSWAG Commercial Website

www.jswagesc.com





What's New (Continued)

New JSWAG CAC Enabled Website

[JSWAG](#)

EMAIL: JSWAGESC@army.mil



What's New (Continued)

New JSWAG Excellence Award





What's New (Continued)

New JSWAG Lifetime Achievement Award





What's New (Continued)

New JSWAG and JFOWG logo





JSWAG Document Participation

- Electrical Wiring Manual
 - NAVAIR 01-1A-505 – Navy, Marine Corps, Coast Guard
 - T.O. 1-1A-14 – Air Force
 - TM 1-1500-323-24 – Army
- Electrical Wiring Interconnect System (EWIS) Handbooks
 - MIL-HDBK-522 – Guidelines for Inspection of Aircraft EWIS
 - MIL-HDBK-525 – EWIS Integrity Program
 - MIL-HDBK-535 – Guidelines for Troubleshooting Aircraft EWIS
 - MIL-HDBK-1646 – Selection of Electrical Contacts
- Industry Standards
 - ASME
 - IEEE
 - SAE



IEEE 315

- Institute of Electrical and Electronics Engineers (IEEE) 315
 - IEEE Standard for Graphic Symbols for Electrical and Electronics Diagrams (Including Reference Designation Letters) – Approved 1975
 - Inactive
 - No Longer Active: Identifies a document that is no longer active and is provided for historic purposes only.
- ASME Y14.44 – Reference Designations for Electrical and Electronics Parts and Equipment – 2008
 - Revise the ASME Y14.44
 - Need a team

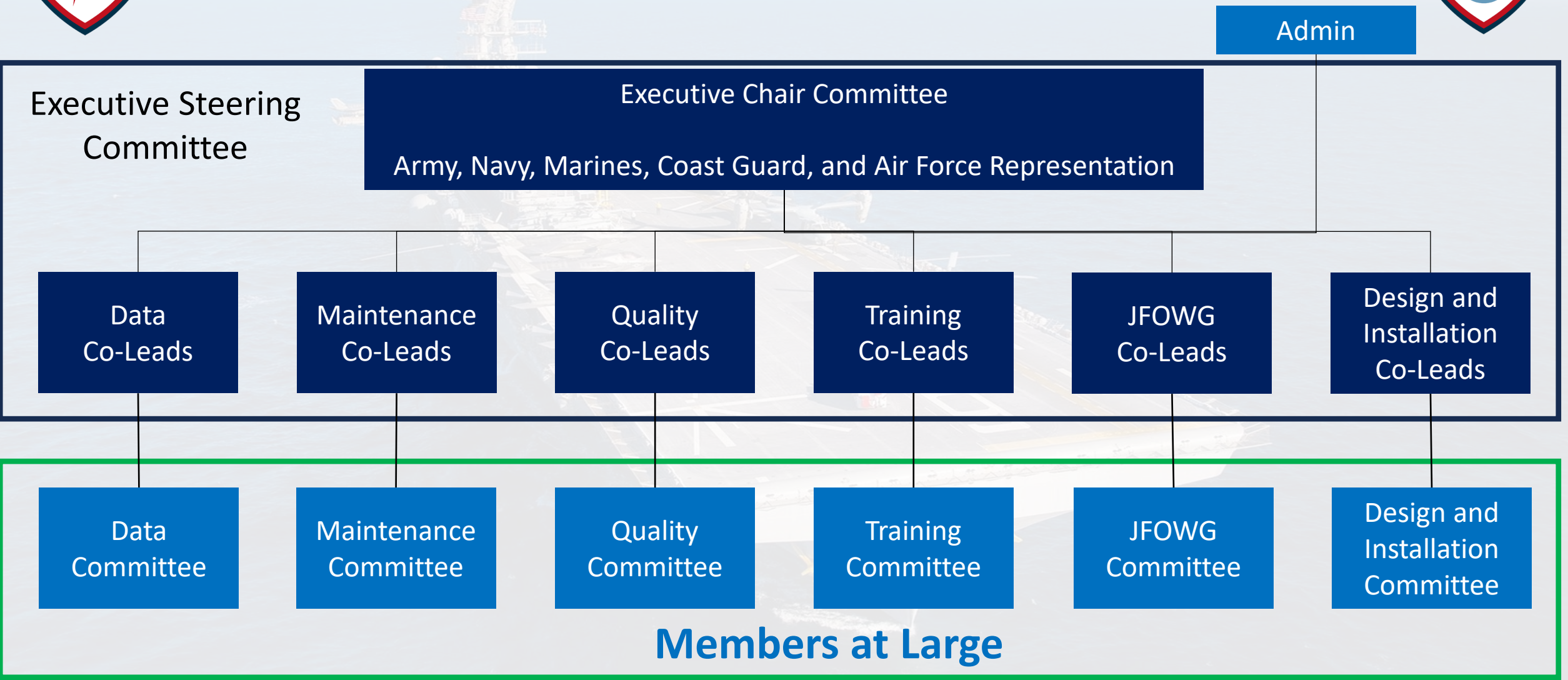


JSWAG Organization





Organizational Chart





Executive Chair Committee

Oversees and organizes the operation of the JSWAG committees.

The ECC is the governing body ensuring cross service collaboration on Electrical Wiring Integration Systems (EWIS) is maintained

EWIS – Known as Aircraft Wiring, is defined as any wire, fiber optic link, wiring, or fiber device, or a combination of these items (including terminations) installed in any area of the aircraft for the purpose of transmitting electrical energy, signals, or data between two or more electrical end points

Army Chair: Shane Lege

Navy Chair: Henry Abel

Marine Corps Chair: John Dahl

Coast Guard Chair: Marshall Stevenson

Air Force Chair: Corey Boltz



Data Analysis Committee

The JSWAG Data Analysis Committee provides a cross-service coordination forum to ensure expeditious improvements for identifying deficiencies, improvement processes, and data capturing/monitoring solutions around conductive path maintenance

By leading and coordinating efforts to improve the data analysis and reporting of trended maintenance data (work unit code, malfunction codes, automatic wire test set data, etc.), the committee aims to rapidly deploy cross service solutions to reduce maintenance costs and safety risks while improving mission capability and aircraft reliability/availability

Army Co-Lead: Richard Knox (Primary)
Army Co-Lead: Candice Patterson (Alternate)

Coast Guard Co-Lead: Bob Berrio (Primary)
Coast Guard Co-Lead: [Vacant](#)

Navy Co-Lead: [Vacant](#)

Air Force Co-Lead: Cheryl Brotherton (Primary)
Air Force Co-Lead: Paul Beseth (Alternate)

Marine Corps: Co-Lead: [Vacant](#)



Design and Installation Committee

The JSWAG Design and Installation Committee provides a cross-service coordination forum to ensure expeditious improvements of user design and installation requirements of EWIS components

This committee aids in the development, and updates, of technical manuals, specifications, standards, handbooks, and technical memos and evaluations

Lastly, the Design and Installation Committee provides lessons learned to DoD and DHS engineers and maintainers to support future designs

Army Co-Lead: Samuel Worley (Primary)

Army Co-Lead: [Vacant](#) (Alternate)

Navy Co-Lead: [Vacant](#)

Marine Corps: Co-Lead: [Vacant](#)

Coast Guard Co-Lead: Jenifer Gerhardy (Primary)

Coast Guard Co-Lead: [Vacant](#) (Alternate)

Air Force Co-Lead: Chris Kusak (Primary)

Air Force Co-Lead: [Vacant](#) (Alternate)



Joint Aviation Fiber Optic Working Group (JFOWG) Committee



The JFOWG provides a cross-service coordination forum to ensure expeditious improvements for identifying deficiencies and developing solutions in the areas of fiber optic cable and support equipment in order to:

Promote standardization, reduce maintenance man-hours, reduce total ownership costs, improve safety of flight, up-channel system and component problems, established joint service approach for fiber optic systems, and provide specification guidance across services

Army Co-Lead: Jason Swafford (Primary)
Army Co-Lead: Matthew Backus (Alternate)

Navy Co-Lead: Maxim Sosna (Primary)
Navy Co-Lead: Josh Weiss (Alternate)

Marine Corps: Co-Lead: CWO3 Justin Hudson (Primary)
Marine Corps: Co-Lead: [Vacant](#) (Alternate)

Coast Guard Co-Lead: [Vacant](#)

Air Force Co-Lead: TSgt Robert Denny (Primary)
Air Force Co-Lead: [Vacant](#) (Alternate)



Maintenance Committee

The JSWAG Maintenance Committee provides a cross-service coordination forum to ensure expeditious improvements for uniformed and/or government maintainers to recommend review of processes, procedures, policy, identify deficiencies and recommend process improvements, as they affect aircraft wiring and interconnect systems

The Maintenance Committee supports the JSWAG mission by innovating and improving aircraft sustainment policies, practices and resources that reduce cost and mishaps while improving maintenance efficiency and aircraft readiness across services

Army Co-Lead: David Winters (Primary)
Army Co-Lead: Randall Wear (Alternate)

Coast Guard Co-Lead: Joe Liddon (Primary)
Coast Guard Co-Lead: [Vacant](#) (Alternate)

Navy Co-Lead: Blayne Lum (Primary)
Navy Co-Lead: [Vacant](#) (Alternate)

Air Force Co-Lead: Brock Felgenhauer (Primary)
Air Force Co-Lead: [Vacant](#) (Alternate)

Marine Corps: Co-Lead: Matthew Jackson (Primary)
Marine Corps: Co- Lead: [Vacant](#) (Alternate)



Quality Committee

The JSWAG Quality Wiring Components Committee provides a cross-service coordination forum to ensure expeditious improvements for technical interchange among the industrial, fleet/uniformed maintainers and product support activities on wiring systems

This committee addresses the component specifications, qualification programs and coordination need across services

Army Co-Lead: [Vacant](#)

Coast Guard Co-Lead: [Vacant](#)

Navy Co-Lead: Kevin Rickard (Primary)

Air Force Co-Lead: Brad Steiner (Primary)

Navy Co-Lead: Robert Solomon (Alternate)

Air Force Co-Lead: Travis Franck (Alternate)

Marine Corps: Co- Lead: [Vacant](#)

DLA Co-Lead: Shaokang Yuan



Training Committee

The JSWAG Training Committee provides a cross-service coordination forum to ensure expeditious improvements for exchange of information for the purpose of identifying and resolving training problems

The training committee goals are to identify and recommend potential solutions, and to seek out potential/new training options (Virtual Reality, etc.)

Army Co-Lead: Forrest Nault (Primary)

Army Co-Lead: Vacant (Alternate)

Navy Co-Lead: Rebekah Everett (Primary)

Navy Co-Lead: [Vacant](#) (Alternate)

Marine Corps: Co-Lead: MSgt Antoine Leblanc (Primary)

Marine Corps: Co- Lead: [Vacant](#) (Alternate)

Coast Guard Co-Lead: [Vacant](#)

Air Force Co-Lead: Anthony Morgan (Primary)

Air Force Co-Lead: [Vacant](#) (Alternate)



Questions