

Task 7 Working Group Report to ATSRAC

ATSRAC MEETING

Wichita, Kansas

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Don Andersen

Tony Poole

- **TASK 7.1:** Establish a Harmonization Working Group (HWG)- **Closed**

Organization	Members
FAA	Brett Portwood
INDUSTRY (Boeing)	Don Andersen - (Co-chair, US) Tracey Johnson-resigned Dave Padilla Morris Frimer Frank Wright Ramiro (Ram) T. Esparza II Ross Lloyd
INDUSTRY (Airbus)	Anthony (Tony) John Poole (Co-chair Europe) Phillippe Renhas Dominique Mazzarino (reassigned)
INDUSTRY (Embraer)	Percy Constanti Robert (Bob) W. Sitz (Delta)
AIRLINE COMMUNITY	Dennis Lee (Canadian) Scott Christian (United) Chris Nichols (AirTran) Lukas Zuelling (SR Technics) Elias Cotti (NBAA) Robert (Bob) L. Barnett (Airborne Express-retired)

- ***TASK 7.2: Coordination with other ATSRAC HWGs - Closed***

To ease the coordination process, ATSRAC created an integration team to address this subtask within each of the major tasking statements. The team is comprised of the following primary and backup individuals:

- HWG 6 - Vid Variakojis/Jack Evans
- HWG 7 - Tracey Johnson/Don Andersen
- HWG 8 - Paul Lapwood/Spencer Bennett
- HWG 9 - Randy Boren/Gil Palafox
- Leader - Mike Nancarrow

This integration team process was accepted by ATSRAC in July 2001.

TASK 7.3: Define a Standard Format - Closed

- Process followed
 - Analysis of the existing available ESWPMs focusing on the different formats
 - Use of working document to highlight differences between OAM ESWPMs
 - The production of ESWPM format with the aim to produce a generic master breakdown index
- Appendix 2 of the report received partial consensus in March and full consensus in September.

- ***TASK 7.3: Define a Standard Format - Closed***

1. GENERAL DATA

SAFETY PRACTICES
AIRPLANE ENVIRONMENTAL AREAS
CONSUMABLE MATERIALS
WIRING MATERIALS
COMMON TOOLS

2. EWIS MAINTENANCE

EWIS PROTECTION DURING MAINTENANCE
EWIS CLEANING
EWIS INSPECTION
EWIS TESTING
EWIS DISASSEMBLY
EWIS REPAIR AND REPLACEMENT

3. WIRING INSTALLATION

WIRE SEPARATION / SEGREGATION
ELECTRICAL BONDS AND GROUNDS
WIRE HARNESS INSTALLATION

4. WIRING ASSEMBLY

WIRE AND CABLE TYPES
WIRE MARKING
WIRE HARNESS ASSEMBLY
WIRE INSULATION AND CABLE JACKET
REMOVAL

5. TERMINATIONS

6. ELECTRICAL DEVICES

7. SPECIFIC SYSTEM WIRING

8. AIRLINE CUSTOMIZED DATA

- ***TASK 7.4: Define a Standard Minimum Content- Closed***

- Process followed

- Minimum content recommendations contained within the tasking statement

- Analysis of the existing available ESWPMs focusing on the different contents

- Use of working document to highlight differences between OAMs ESWPMs

- Coordinated development with standard format and master breakdown index

- Achieved initial consensus in March and amended in September

- ***TASK 7.4: Define a Standard Minimum Content- Closed***
 - SAFETY PRACTICES
 - AIRPLANE ENVIRONMENTAL AREAS
 - CONSUMABLE MATERIALS
 - WIRING MATERIALS
 - COMMON TOOLS
 - EWIS PROTECTION DURING MAINTENANCE
 - EWIS CLEANING
 - EWIS INSPECTION
 - EWIS TESTING
 - EWIS DISASSEMBLY
 - EWIS REPAIR AND REPLACEMENT
 - WIRE SEPARATION / SEGREGATION
 - ELECTRICAL BONDS AND GROUNDS
 - WIRE HARNESS INSTALLATION (including heat, contamination and moisture protection)
 - WIRE AND CABLE TYPES
 - WIRE MARKING
 - WIRE HARNESS ASSEMBLY
 - WIRE INSULATION AND CABLE JACKET REMOVAL
 - TERMINATIONS
 - DEVICES (OAM and vendor information)
 - UNIQUE WIRING ASSEMBLY INFORMATION
 - AIRLINE SPECIFIED INFORMATION

TASK 7.5: Recommend Updates of Existing ESWPMs - Closed

→ Standard Format

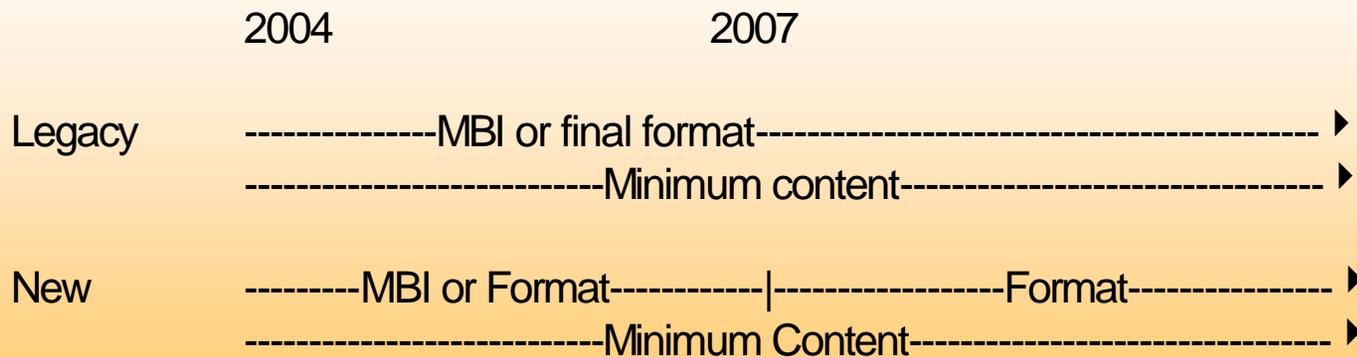
- Legacy documents modified within 5 years
- New documents produced after 5 years

→ Common content

- Legacy documents modified within 2 years
- New documents produced after 2 years

→ Master Breakdown Index

- Interim or final compliance to legacy documents
- Converts existing documents to standard format
- Duplicates an electronic search



Master Breakdown Index - Example

GROUP	MAJOR TOPIC	APPEARS IN THIS DOCUMENT AS SUBJECT
GENERAL DATA	SAFETY PRACTICES	20-10-10
	AIRPLANE ENVIRONMENTAL AREAS	20-20-12
	CONSUMABLE MATERIALS	20-00-11
	WIRING MATERIALS	20-10-13
	COMMON TOOLS	20-00-13
ELECTRICAL WIRE INTERCONNECT SYSTEM (EWIS) MAINTENANCE	EWIS PROTECTION DURING MAINTENANCE	20-10-20
	EWIS CLEANING	20-10-20
	EWIS INSPECTION	20-10-20
	EWIS TESTING	20-10-13
	EWIS DISASSEMBLY	20-10-19
	EWIS REPAIR AND REPLACEMENT	20-20-00

Next Steps

- ➔ ATSRAC approval of HWG6 report
- ➔ FAA development and distribution of draft Advisory Circular providing guidance to TC and STC applicants
- ➔ Delta representative proposes development of a new or inclusion into Air Transportation Association Specification i2200 of the recommended ESWPM format and content provisions
- ➔ Release of an SFAR for review which includes changes to FAR 25.1529, Appendix H Instructions for Continued Airworthiness:
 - ...information essential to the continued airworthiness of the airplane...
 - ...in a form appropriate for the quantity of data...
 - ...format of the manual in a practical arrangement.
- ➔ Voluntary incorporation of format recommendation by TC and STC applicants