

**Report to EAPAS
FAA Inspectors/Engineers Annual
Workshop
Enhanced Training Program For Wiring System
WG-8**

November 6, 2001

AGING TRANSPORT SYSTEMS RULEMAKING ADVISORY COMMITTEE (ATSRAC)

DATE: October, 2001

WORKING GROUP / TASK 8:		CO-CHAIRS: Spencer BENNETT Gunter FRIEDRICH		FEDEX LUFTHANSA TECHNICAL TRAINING
MEMBERS:		ORGANIZATION		ORGANIZATION
NAME		NAME		
Baker, Sam Capo, Jean-Pierre Conahan Michael T. Hove, Terje	American Trans Air Airbus Boeing Civil Aviation Authority Norway	Sobeck, Fred Lapwood, Paul Campell, Lance Block, Edward Jones, Richard	FAA Flight Safety Boeing Goodrich IASA FAA	
PAST MEETINGS:		DATE		LOCATION
		06.06-06.06. 2001 26.06-27.06. 2001 07.08-08.08. 2001 18.09-18.09. 2001 06.11-08.11. 2001 Additional meetings will be scheduled at Longbeach meeting.		Memphis (co-chairs only) Memphis Toulouse Seattle Longbeach
FUTURE MEETINGS:				

AGING TRANSPORT SYSTEMS RULEMAKING ADVISORY COMMITTEE (ATSRAC)

OVERVIEW:

<u>SUB-TASK#</u>	<u>DESCRIPTION</u>	<u>ESTIMATED COMPLETION DATE</u>	<u>STATUS (RED/GREEN/YELLOW)</u>
TASK 8.1	Establish Harmonization Working Group (HWG)	June 2001	Green / Done
TASK 8.2	Coordination with other ATSRAC HWG's	July 2001	Green
TASK 8.3	Develop Guidance for Wire System Training Program Start Technical Agreement Final Agreement Include Updates from other WG's	June 2001 November 2001 January 2002 August 2002	Green Green/Yellow Green Green
TASK 8.4	SWPM Recurrent Training Start Technical Agreement Final Agreement Include Updates from other WG's	June 2001 November 2001 January 2002 August 2002	Green Green/Yellow Green Green
Assistance Needed:	TASK 8.3 and TASK 8.4 Guidance from ATSRAC/FAA has been furnished		

Sub-Task # 8.3	Description: Develop Guidance for Wire System Training Program
<p>Concept:</p> <ul style="list-style-type: none"> ◆ Based on the results of WG 5 identify different target groups for receiving the training ◆ Identify the content of the minimum required training for every target group (depending what they do on the aircraft) ◆ Present the WG proposals to ATSRAC for approval 	
<p>Work Plan:</p> <ul style="list-style-type: none"> ◆ Identifying the target groups depending from their tasks on the aircraft ◆ Select the detailed minimum training items for every target group ◆ Presentation of the proposal to ATSRAC for approval ◆ Update of the results depending on the inputs of ATSRAC or other WGs 	
<p>Deliverables:</p> <ul style="list-style-type: none"> ◆ Detailed training program for each target group 	
<p>Status:</p> <ul style="list-style-type: none"> ◆ 5 different target groups are identified ◆ Minimum training content for each target group is selected <p>Note: 5th target group was added at TLS to cover engineering personnel and maintenance planners. This group was tasked with the greatest amount of training, yet does the least work on the aircraft. This needs to be reviewed by WG8 at LGB as there was considerable discussion of it @ SEA.</p>	
<p>Roadblocks:</p> <ul style="list-style-type: none"> ◆ Clearer definition of target groups needs to be made. 	
<p>Assistance Needed:</p> <ul style="list-style-type: none"> ◆ None. 	

Sub-Task # 8.3	Description: Develop Guidance for Wire System Training Program
Results <ul style="list-style-type: none">◆ Target groups identified.	

<p>Sub-Task # 8.4</p>	<p>Description: SWPMM Recurrent Training</p>
<p>Concept:</p> <ul style="list-style-type: none"> ◆ Based on the “Specific Tasking Assignments 6 through 9” from ATSRAC identify different minimum training items for recurrent training. ◆ Identify different target groups (depending what they do on the aircraft). ◆ Identify the training items for the target groups. ◆ Present the WG proposals to ARSRAC for approval. 	
<p>Work Plan:</p> <ul style="list-style-type: none"> ◆ Identifying the different minimum training items for recurrent training. ◆ Identify different target groups. ◆ Select the detailed minimum training items for every target group. ◆ Presentation of the proposal to ATSRAC for approval. ◆ Update of the results depending on the inputs of ATSRAC or other WG’s. 	
<p>Deliverables:</p> <ul style="list-style-type: none"> ◆ Detailed training program for each target group for the SWPMM recurrent training. 	
<p>Status:</p> <ul style="list-style-type: none"> ◆ Work started in June 2001 	

<p>Sub-Task # 8.4</p>	<p>Description: SWPM Recurrent Training</p>
<p>Roadblocks:</p> <ul style="list-style-type: none"> ◆ Updates from other HWG's (August 2002) 	
<p>Assistance Needed:</p> <ul style="list-style-type: none"> ◆ None. 	
<p>Results</p> <ul style="list-style-type: none"> ◆ No results at this point. 	

WIRING SYSTEMS MINIMUM INITIAL TRAINING PROGRAM

- Target group A:** Qualified staff performing maintenance on aircraft (may incl. LRU change)
 Qualified staff performing general maintenance/inspections not involving wire maintenance.
 (LRU change is not considered wire maintenance)
- Target group B:** Qualified staff performing maintenance on aircraft including involving electric/avionic maintenance work
 (e.g. wire repair)
- Target group C:** Qualified staff performing maintenance inspections on wiring systems
- Target group D:** Other service staff with duties in proximity to wire (e.g. cleaners, cargo loaders)
- Target group E:** Qualified staff performing engineering or planning work on in service aircraft

Minimum required time period	2 days					5 days	4 days	1 day	5 days
	A	B	C	D	E				
Estimated module number : _____									
A – INTRODUCTION									
Demonstrate the safe handling of airplane electrical systems, Line Replaceable Units (LRU's), tooling, troubleshooting procedures, and electrical measurement.									
1. Safety practices									
2. Electrostatic Discharge Sensitive (ESDS) Device handling and protection									
3. Tools, special tools and equipment									
4. verify calibration/certification of instruments, tools, and equipment									
5. Required wiring checks using the Troubleshooting Procedures and Charts									
6. Measurement and troubleshooting using meters.									
7. LRU replacement general practices									
B – CHAPTER 20 STRUCTURE WIRING PRACTICES									
Know the construction and navigation of the applicable airplane wiring system overhaul or wiring practices manual									
8. Chapter 20 structure overview									
9. Chapter cross-reference Index									
10. Important Data and Tables									
C – INSPECTION									
Understand the General Visual Inspection and Detailed inspection procedures, human factors in inspection, zonal areas, and typical damage that can occur.									
11. General Visual Inspection (GVI), Detailed Inspection (DI) and Special Detailed Inspection (SDI), criteria and standards (details see attachment)									
12. Human factors in inspection									
13. Zonal areas of inspection									
14. Wiring system damage									
D – HOUSEKEEPING:									
Know the contamination sources, materials, cleaning and protection procedures									
15. Airplane external contamination sources									
16. Airplane internal contamination sources									
17. Other contamination sources									
18. Contamination protection planning									
19. Protection during airplane maintenance and repair									

