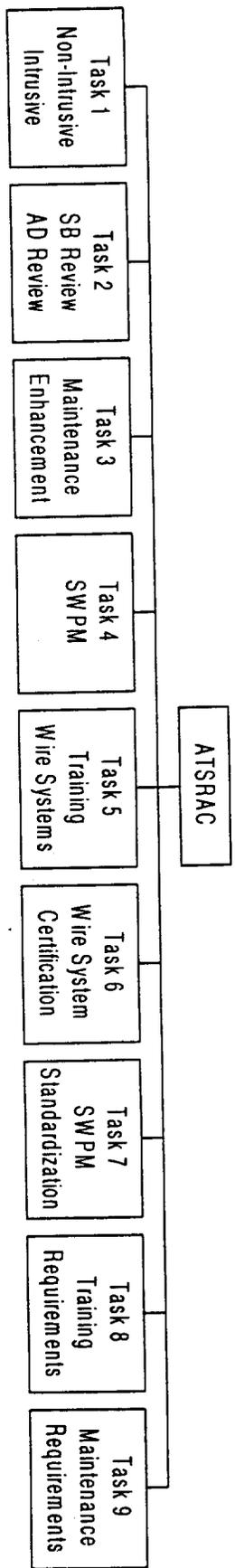
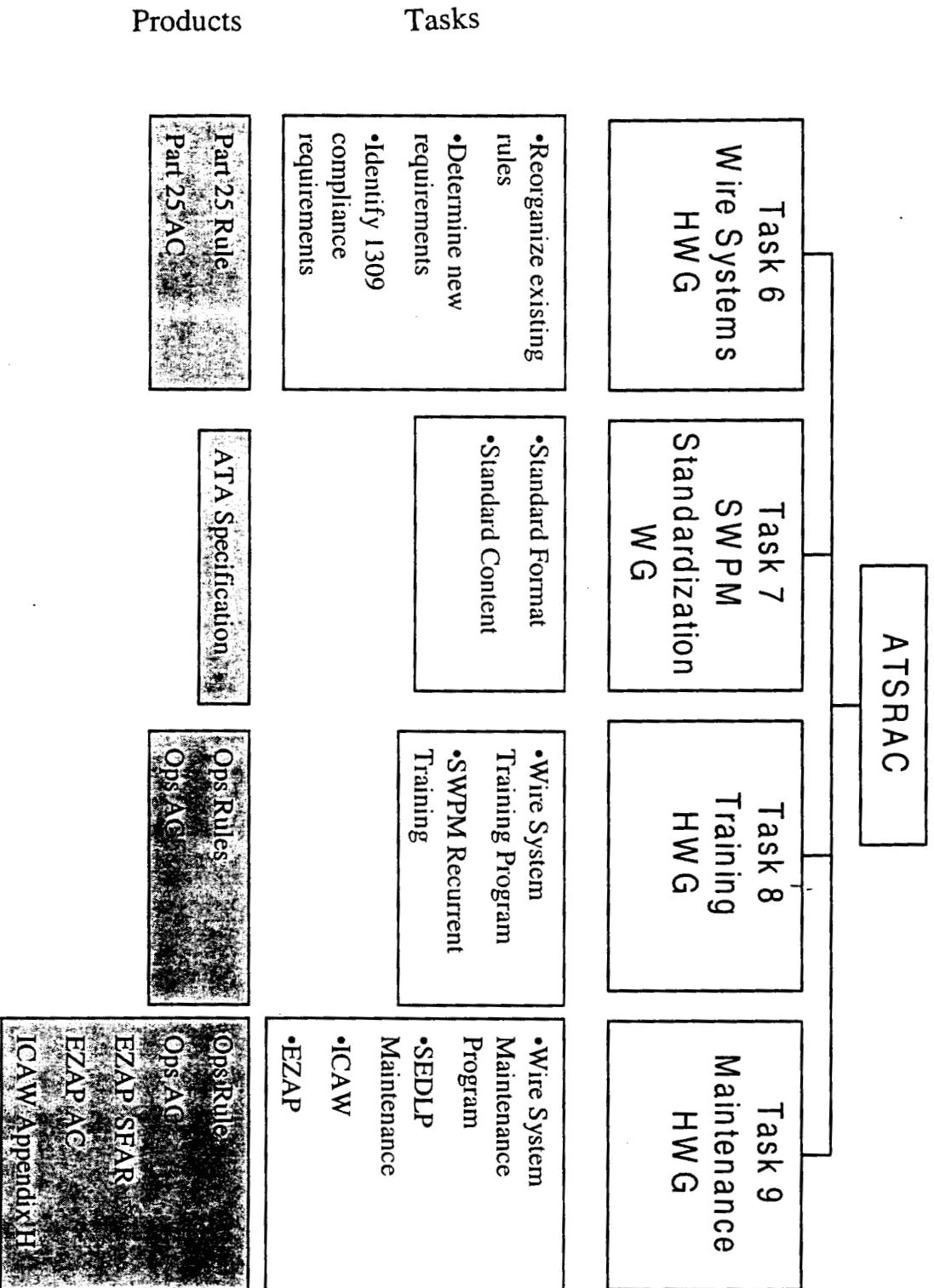


ATSRAC Task Structure



Propose ATSRAC Tasks



Harmonization Working Group

- US Industry Co-Chair
- European Co-Chair
- FAA Representative
- JAA Representative
- Working Group Members

Task 6 - Wire System Certification

- 1)Review all CFR 14 Part 25 and JAR-25 paragraphs and ARAC recommendations related to wiring systems and
 - » a)Submit recommendations for combining the existing paragraphs and creating a new paragraph covering wiring for all airplane systems
 - » b)Submit any necessary recommendations to these paragraphs to consider aging effects taking into account the conclusions and recommendations as contained in the ATSRAC recommendations from the Intrusive Inspection Report, January 2001.
 - » c)Review the existing **advisory material**, guidelines and policies regarding the design and installation of wiring systems, as well as related ARAC recommendations, and
 - » d)Submit recommendations for necessary changes as pertaining to the aging effects on wiring as noted in the previous recommendations submitted by ATSRAC, and in particular the Intrusive Inspection report..)

Task 6 - Wire System Certification

- 2) Review FAR Part 25.1309, AC 25.1309-1A, corresponding JAR-25 material, related ARAC recommendations, and draft AC 25.1309-1B and
 - » a) Submit discussion on the adequacy of coverage for common cause analysis and recommend any necessary changes for the applicability to wire systems. (Common Cause analysis includes zonal safety analysis, common mode analysis and particular risk analysis.)
 - » b) Submit recommendations for the inclusion in the proposed FAR 25 wire system requirement for specific compliance procedures to 25.1309 requirements
 - » c) Submit recommendation for inclusion of all potential wiring failures, including aging effects, for the System Safety Assessments performed in compliance to 25.1309.

Task 6 - Wire System Certification

- 3) Review existing FAA/JAA guidance, ARAC recommendations and industry documentation for wire separation requirements and guidance. Submit recommendations for revisions to existing wire separation requirements and guidance material. FAR Part 25.1353 contains wire separation requirements for high current carrying wires. The recommendations contained from this subtask should result in general requirements for all wire systems regarding wire separation.

 - 4) Maintaining proper wire separation requires the need to adequately define the criticality of the functions contained in any given wire bundle. In addition, it may be prudent to allow more detailed inspections of wire bundles which contain wires associated with critical functions. Therefore ATSRAC is tasked to:
 - consider and submit recommendations on the need to identify wire and/or wire bundles with critical functions, and
 - recommend the best means for making these identifications for both new and amended type designs and current type designs with airplanes in service.
- (Note: ICAM Moved to Task 9)

Standardize SWPM

- Develop Standard Format
- Develop Standard Content
- (Recurrent Training Moved to Task 8)

Training

- To assist the FAA in formulating appropriate rulemaking and guidance pertaining to aircraft wiring maintenance training, ATSRAC is tasked to identify and appoint a working group to assist the FAA in the development of a draft advisory circular (AC) and possible rulemaking actions. The AC should provide a basis for establishing a training program that addresses wiring issues.
- Address Recurrent SWPM Training

Enhanced Maintenance Practices for Systems

- Rulemaking and Advisory Material for incorporation of the enhanced zonal analysis procedure in the development of maintenance programs
- Rulemaking and Advisory Material for changes to maintenance practices GVI/DET definitions, expectations of a Zonal Inspection, handling of SEDLP and housekeeping culture issues.
- Examine changes to Part 25.1529 Appendix H 'Instructions for Continued Airworthiness' in regards to wiring systems