

***International Maintenance Review Board Policy Board (IMRBPB)***  
***Issue Paper (IP)***

***Initial Date (15/FEB/2012):***

***CIP Number: IP 133***

***Revision / Date (DD/MMM/YYYY): Rev2 / 26-April-2013***

**Title:** Incorporate AC 25-27A (EWIS/EZAP) in ATA MSG-3 Document

**Submitter:** Tom Helle (Boeing)

**Issue:** In May 2010, FAA Advisory Circular AC 25-27A replaced the AC 25-27 - “Development of Transport Category Airplane Electrical Wiring Interconnection Systems Instructions for Continued Airworthiness Using an Enhanced Zonal Analysis Procedure”.

The ATA MSG-3 Zonal Analysis Procedure should be revised to reflect AC 25-27A and clarify the relationship between the “Standard” and “Enhanced” zonal analysis processes.

**Problem:**

- 1) Figure 2-5-1.1 addresses the “Standard” and “Enhanced” zonal analysis process flow. The “Enhanced” portion of the MSG-3 flow diagram is not consistent with the flow diagram in AC 25-27A Appendix A, Figure 1. In addition, changes are required to clarify the integration between the standard and enhanced portions of the flow diagram, and text and terminology should be revised for consistency with AC 25-27A, Appendix A, Figure 1.
- 2) Figure 2-5-1.2 addresses the “Wiring Inspection Task Determination” process flow. Terminology changes are required for consistency with AC 25-27A and changes to the flow logic are required to clarify the integration back to Figure 2-5-1.1.
- 3) Section 2-5 and 2-5.1 uses the terms “wiring” and “electrical wiring” instead of “EWIS”.
- 4) ATA MSG-3 Appendix A (Glossary) does not include a definition for “Enhanced Zonal Analysis Procedure (EZAP)” and “Inspection – General Visual (GVI) - Stand-Alone”, and the definition of “Electrical Wiring Interconnection Systems (EWIS)” should be revised for consistency with AC 25-27A.

**Recommendation (including Implementation):**

- 1) Revise ATA MSG-3 Figure 2-5-1.1 (red-line and publish-ready copies attached).
- 2) Revise Figure 2-5-1.2 (red-line and publish-ready copies attached).
- 3) Revise text and terminology in Section 2-5 and Section 2-5.1 (see red-line copy attached).
- 4) Revise MSG-3 Appendix A (see red-line copy attached).

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**IMRBPB Position:**

**Date: April 26, 2013**

**Position: Additional changes incorporated and accepted during the IMRBPB meeting.**

**Status of Issue Paper (when closed state the closure date): Closed as IP 133, April 26, 2013**

**Recommendation for implementation: Implementation into MSG-3 Volume I and II at next revision.**

**Important Note:** The IMRBPB positions are not policy. Positions become policy only when the policy is issued formally by the appropriate National Aviation Authority.

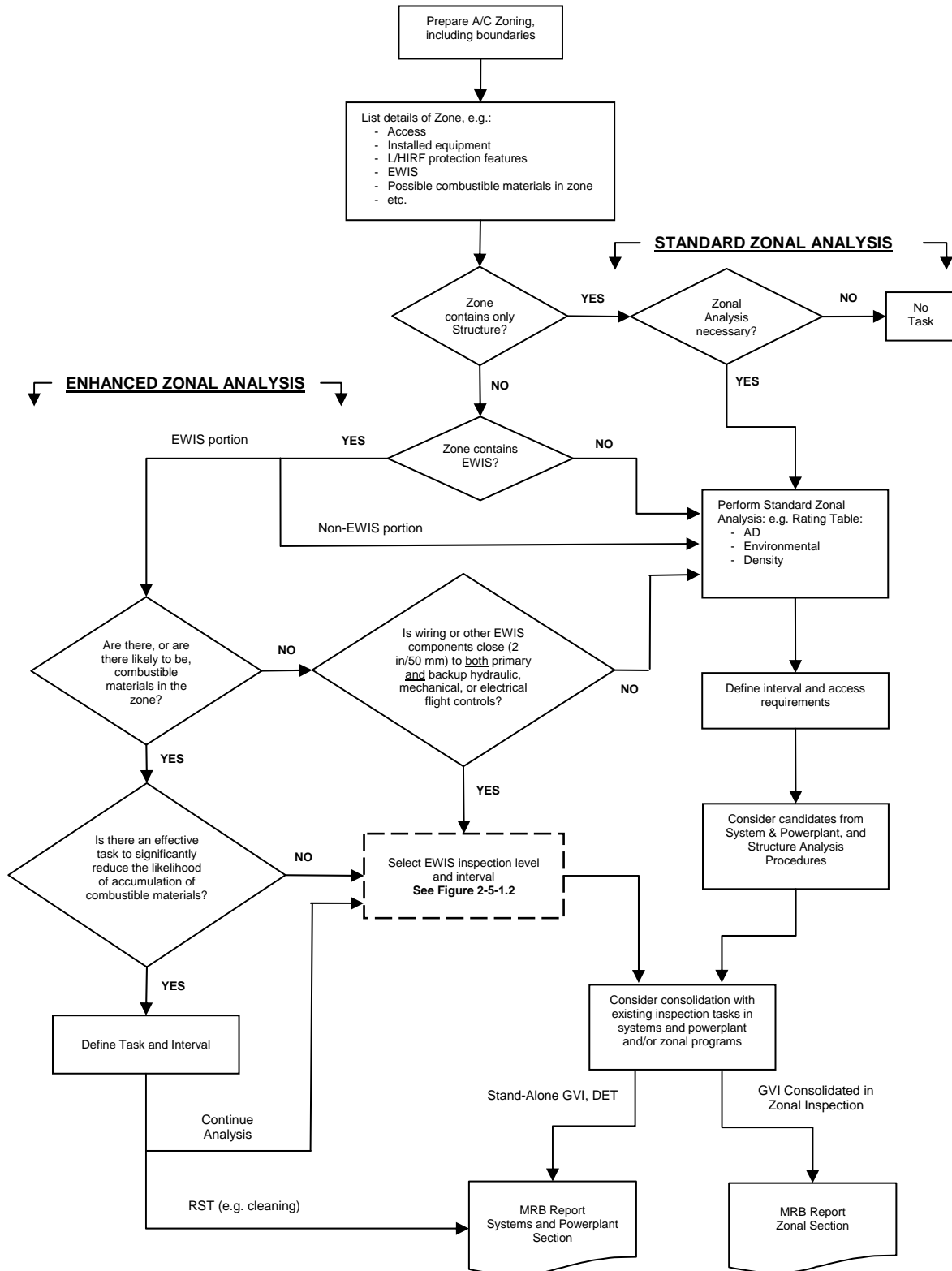
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**Figure 2-5-1.1 Typical Zonal Analysis Procedure**



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**Figure 2-5-1.2 EWIS Inspection Task Determination**

