

International Maintenance Review Board Policy Board (IMRBPB)

Issue Paper (IP)

IP Number: IP 196

Initial Date (DD/MMM/YYYY): 28/May/2021

Revision / Date (DD/MMM/YYYY): Rev. 0 / 28/May/2021

Effective Date (DD/MMM/YYYY): 27/Jul/2021

Retroactivity (Y/N): N

Title:	Zonal Procedure Scope Adjustment
Submitter:	MPIG

Applies To:	
MSG-3 Vol 1	X
MSG-3 Vol 2	X
IMPS	

Issue:

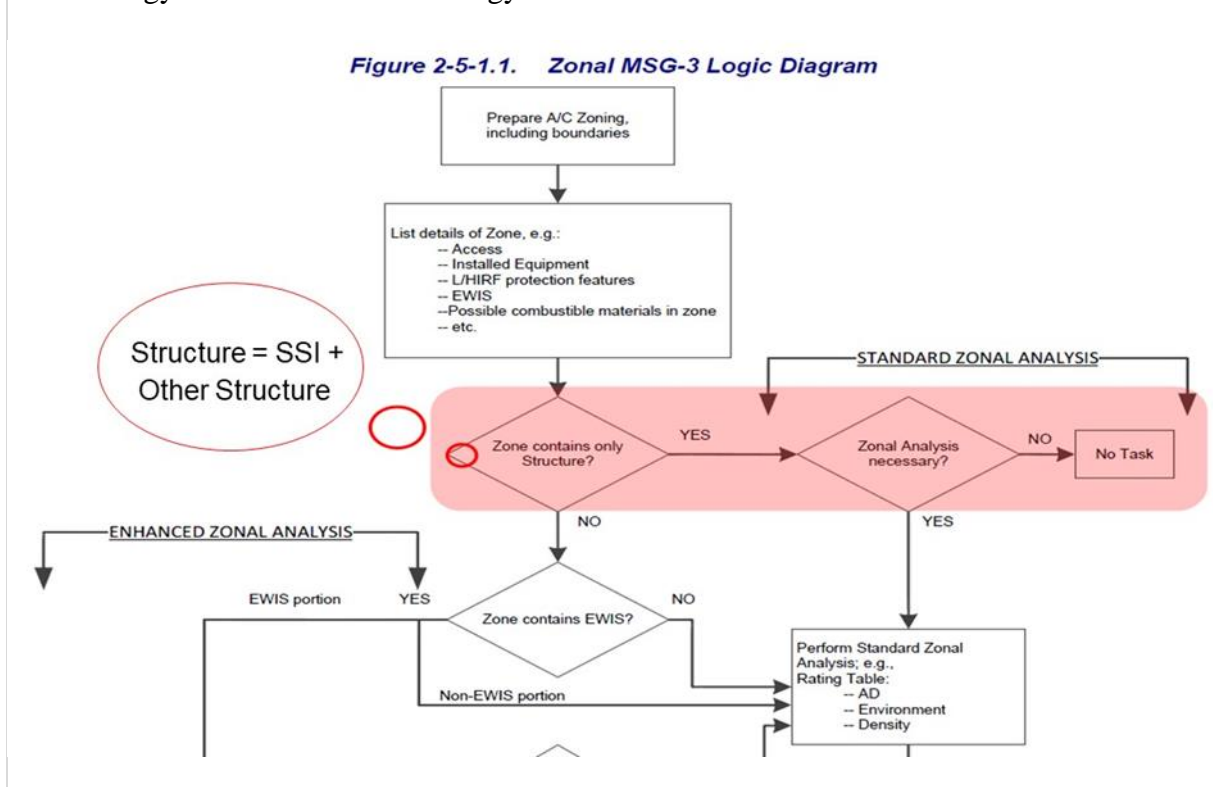
During MPIG discussions, participants questioned if the current zonal flowchart is adequately assessing all Other Structure since the decision box “Zone contains only structures?” can avoid that some of them are assessed by the zonal methodology.

Problem:

Current flowchart decision box question “Zone contains only structures?” may lead “Other Structural Items” not to be assessed by the Zonal Methodology.

According to ATA MSG-3 document, aircraft structures can be classified as “Structural Significant Items – SSI” and “Other Structure”.

Hence, zones containing Other Structure would not be assessed by the current zonal methodology or structures methodology.



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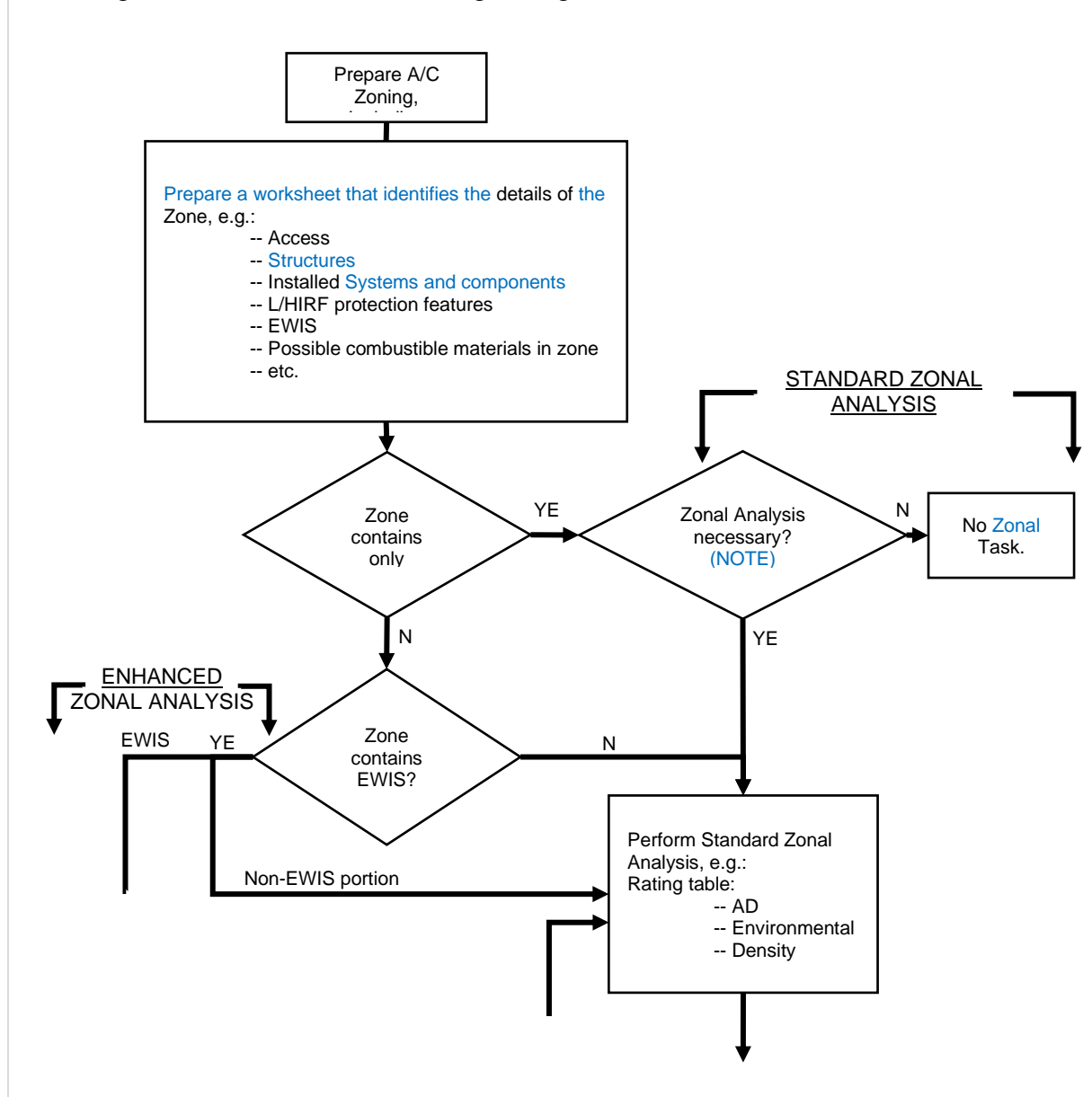
Retroactivity (Y/N): N

Furthermore, zonal methodology procedure, Section 2-5-1, paragraph (d) narrows the zonal assessment to zones containing systems installations only.

- d. For all zones containing systems installations, perform a standard zonal analysis using the rating tables from paragraph (c.) to define the extent and interval of zonal inspection tasks. Multiple zonal inspections may be identified for each zone with those requiring increased access typically resulting in less frequent inspection intervals due to the better ratings (e.g. less accidental damage risk, better visibility).

Recommendation (including Implementation):

Revise Figure 2-5-1.1. Zonal MSG-3 Logic Diagram as follows:



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In addition, revise **section 2-5-1. Procedure, bullets c. and d.** as follows:

From:

- c. For each zone, prepare a work sheet that identifies data such as: zone location, zone boundaries, access (e.g. doors, panels, linings, insulation blankets), approximate size (volume), systems and components installed, typical power levels in any wiring bundles, features specific to L/HIRF protection, etc. In addition, assess potential for the presence of combustible material, either through contamination (e.g., dust and lint) or occurring by design (e.g., fuel vapor). This assessment shall be made in operational condition with all systems, components, interior, linings, insulation blankets etc. installed.
- d. For all zones containing systems installations, perform a standard zonal analysis using the rating tables from paragraph (c.) to define the extent and interval of zonal inspection tasks. Multiple zonal inspections may be identified for each zone with those requiring increased access typically resulting in less frequent inspection intervals due to the better ratings (e.g. less accidental damage risk, better visibility).

To:

- c. For each zone, prepare a work sheet that identifies data such as: zone location, zone boundaries, access (e.g. doors, panels, linings, insulation blankets), approximate size (volume), **structures (including other structure)**, systems and components installed, typical power levels in any wiring bundles, features specific to L/HIRF protection, etc. In addition, assess potential for the presence of combustible material, either through contamination (e.g., dust and lint) or occurring by design (e.g., fuel vapor). This assessment shall be made in operational condition with all systems, components, interior, linings, insulation blankets etc. installed.
- d. For all **aircraft** zones, perform a standard zonal analysis using the rating tables from paragraph (c.) to define the extent and interval of zonal inspection tasks. Multiple zonal inspections may be identified for each zone with those requiring increased access typically resulting in less frequent inspection intervals due to the better ratings (e.g. less accidental damage risk, better visibility).

Note: Zonal Analysis is not required if the zone only contains SSI structure or if the zone contains SSI and Other Structure but the access does not allow for a GVI. In the latter case, the zonal WG to advise Structure WG that any need to inspect the Other Structure must be covered by a task in the structures section.

NOTE: *The original CIP proposal was submitted by Gulfstream Aerospace.*

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IMRBPB Position:	
Date:	28 May 2021
Position:	Agreed, closed in 2021 meeting as IP196
Recommendation for Implementation:	As per effective date

Status of the Issue Paper:	<input checked="" type="checkbox"/>	Active
	<input type="checkbox"/>	Incorporated in MSG-3 / IMPS (with details)
	<input type="checkbox"/>	Archived