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MPIG Structure Working Group

CIP IND 2018-03 (V1, 2)

“Other Structure” procedure update Overview

29th April 2024

Issue 1

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CIP IND 2018-03 - “Other Structure” procedure update

CIP Status summary after 2023 IMRBPB:

- CIP IND 2018-03 first time reviewed during virtual IMRBPB 2021.
- The CIP aims to revise and simplify the policy for the review of “Other Structure” in the structure analysis process to adapt it to the established way of working of most participation OEMs.
- During the 2023 IMRBPB Meeting EASA proposed to focus the attention to “Other Structures” that cannot be covered by the zonal program (e.g. not possible to perform a GVI for accessibility reasons) and that are transferred to the Structures WG for evaluation (e.g. to select an SDI). Also the new NOTE (§ 2-5-1.) added to the Zonal program in MSG-3 2022.1 (IP 196) for interface between Structures WG & Zonal WG should be considered.
- **After the 2023 IMRBPB Meeting the MPIG SWG** has reviewed the CIP, the IMRBPB comments and the related EASA proposal. Together with EASA the MPIG SWG has revised the CIP and defined and agreed the new proposal for IMRBPB review.
- See dedicated presentation and updated CIP.

CIP IND 2018-03 - “Other Structure” procedure update

Background:

Actual Structure MSG-3 Logic Diagram (Figure 2-4-4.1)

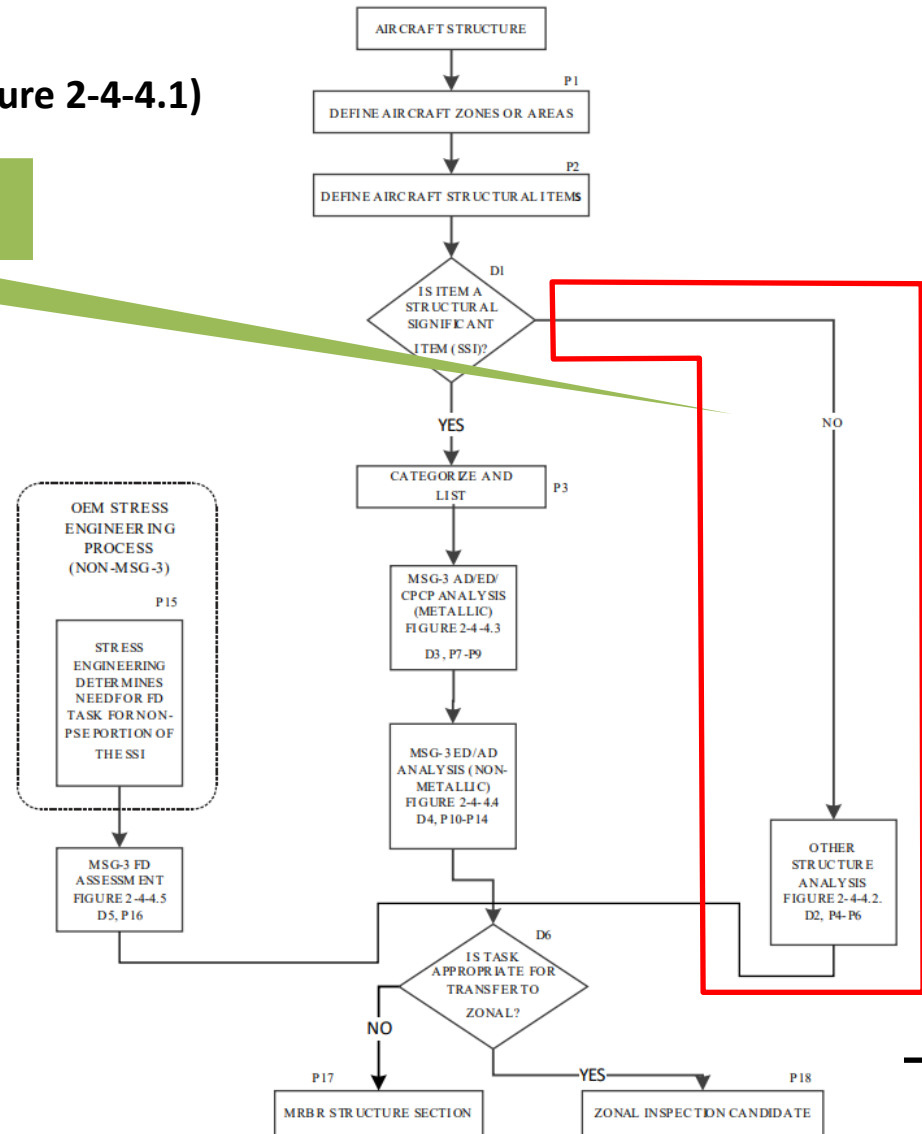
Actual Structure MSG-3 Logic requires „Structure“ analysis of all structure identified as „Other Structure“

Inspection requirements for most of the items categorized as Other Structure (P4) can be satisfied by the Zonal program. Especially after MSG-3 rev 2001 with adding the distance requirement to MSG-3.

With IP 196 the Zonal procedure scope has been revised to adequately address “Other Structure” within the Zonal analysis.

New NOTE in MSG-3 Rev 2022.1 (§2-5-1.):

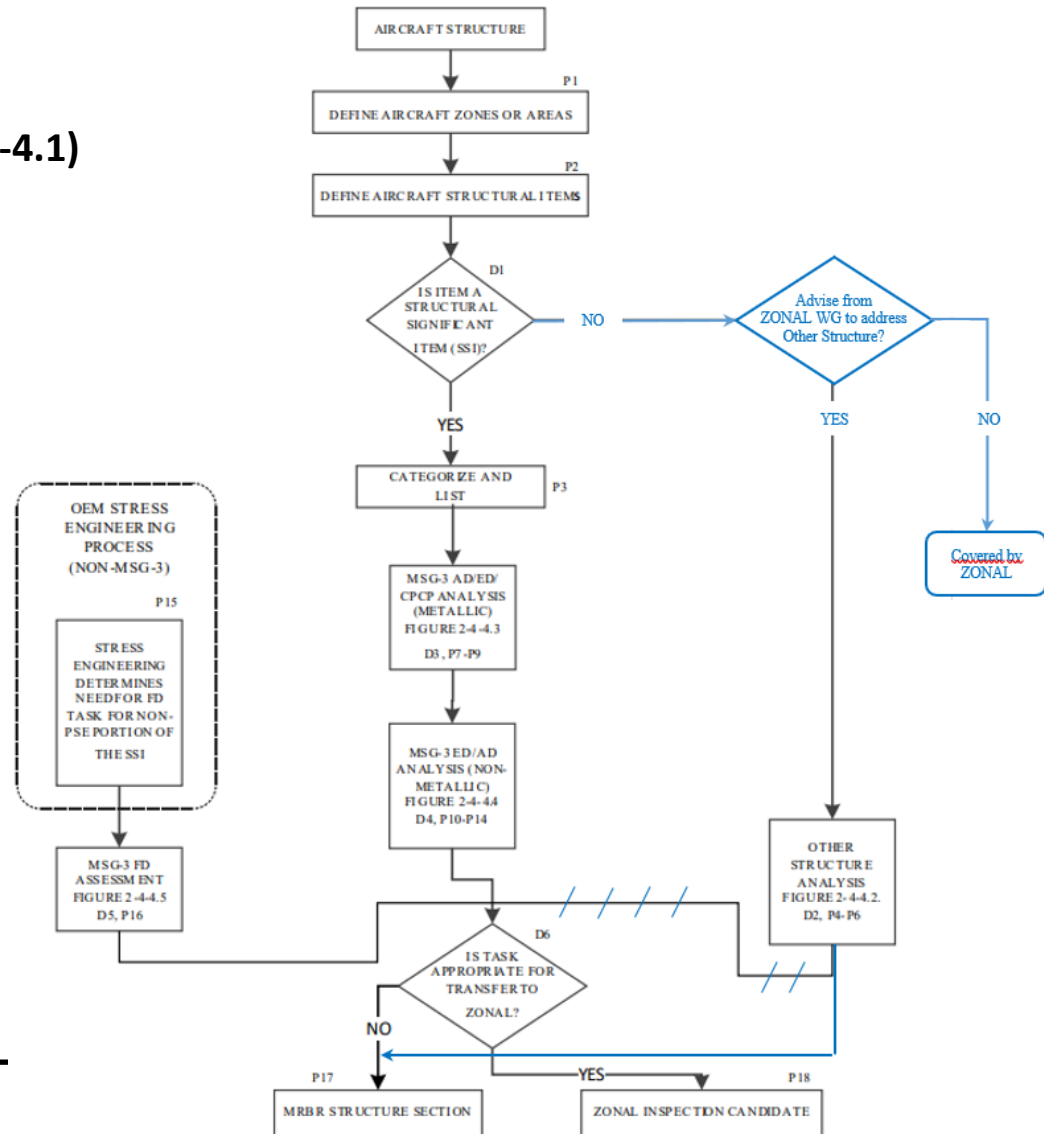
NOTE: Zonal Analysis is not required if the zone only contains SSI structure or if the zone contains SSI and Other Structure but the access does not allow for a GVI. **In the latter case, the zonal WG to advise Structure WG that any need to inspect the Other Structure must be covered by a task in the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



CIP IND 2018-03 - “Other Structure” procedure update

Proposal:

Revise Structure MSG-3 Logic Diagram (Figure 2-4-4.1)



CIP IND 2018-03 - “Other Structure” procedure update

Proposal:

Revise 2-4-4.1 Procedure

From:

(...)

~~e. Items categorized as Other Structure (P4) are compared to similar items on existing aircraft (D2). Maintenance recommendations are developed by the Structures Working Group (SWG) for items which are similar and by the manufacturer for those which are not, e. g., new materials or design concepts (P5). All tasks selected by the SWG (P6) are evaluated for zonal transfer (D6) and will either become zonal inspection candidate (P17) or will be included in the scheduled structural maintenance (P18).~~

To

e. The inspection requirements for items categorised as Other Structure are generally satisfied by the zonal tasks resulting from the zonal analysis procedure. If requested by the ZONAL WG [refer to Section 2-5-1. Procedure, NOTE], the Structure Working Group (SWG) analyse the Other Structure (Figure 2-4-4.2).

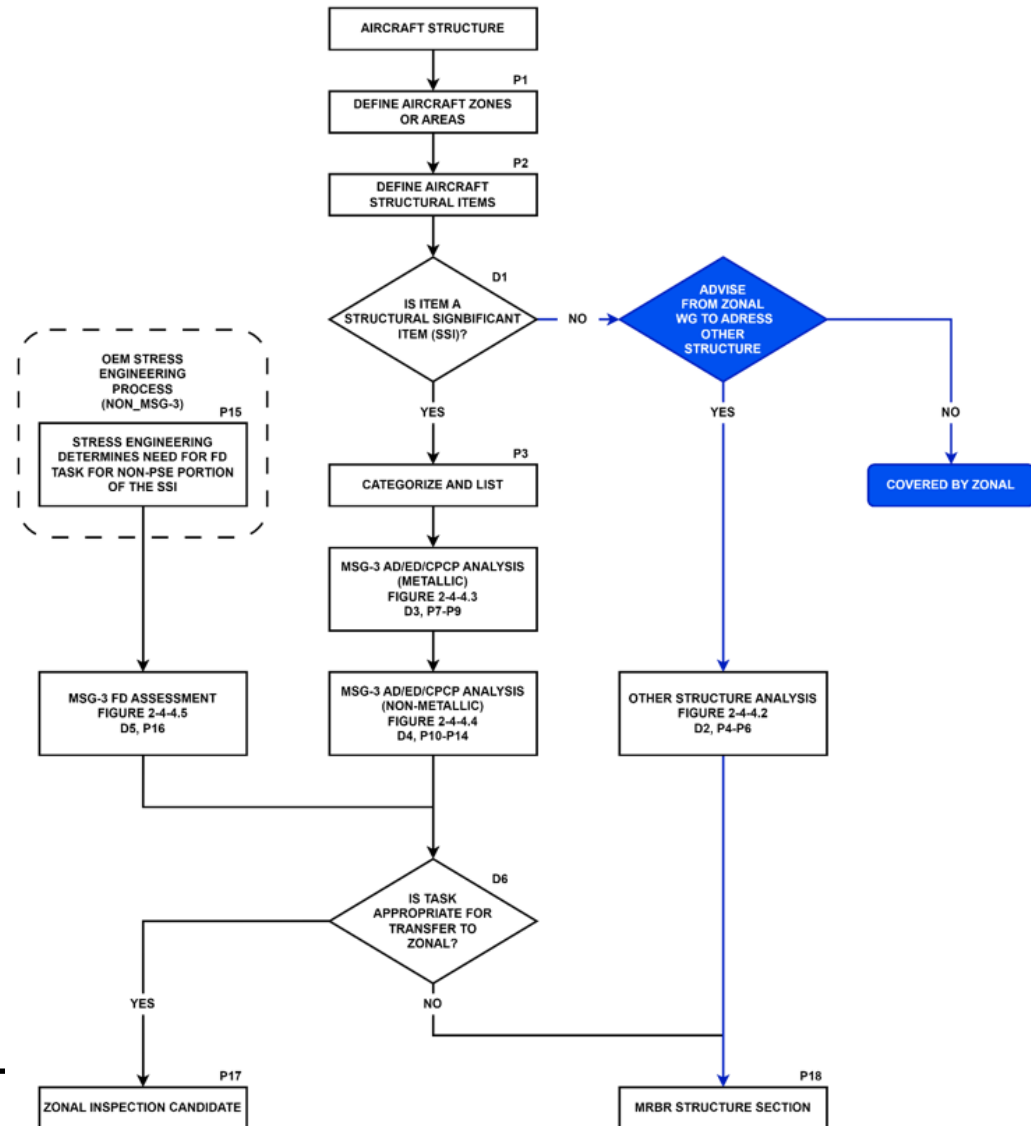
Items categorized as Other Structure (P4) are compared to similar items on existing aircraft (D2). Inspection requirements are developed by the SWG for items which are similar and by the manufacturer for those which are not, e. g., new materials or design concepts (P5). All tasks selected by the SWG (P6) will be included in the scheduled structural maintenance (P17).



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Proposal

**NOTE, if agreed the revised
Structure MSG-3 Logic Diagram
(Figure 2-4-4.1):**



See revised CIP



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Questions?

Thank you.