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MPIG Structure Working Group

MPIG SWG Report

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Issue 1

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Structure MPIG SWG Report

Structure MPIG SWG activities in 2023/24

- After the 2023 IMRBPB meeting 8 Structure MPIG SWG meetings have been held:
 - 3 in 2023, 5 in 2024 to progress the CIPs for 2024 IMRBPB review:
 - Main Subjects discussed were the STR MPIG CIPs which have been returned to the STR:
 - CIP IND 2018-04 - SSI selection and analysis organization guideline
 - CIP IND 2018-03 - “Other Structure” procedure update
 - Collaborative review with EASA on EASA CIP 2023-07 - "SSI definition update in MSG-3” > ROADMAP
 - Participation between 3 and 12 participants



CIP Status summary after 2023 IMRBPB:

- CIP IND 2018-04 first time reviewed during 2019 IMRBPB
- The CIP contains two parts, part A and part B
 - Part A: SELECTION OF THE SSI (with proposed changes to MSG-3)
 - Part B: ORGANIZING THE SSI ANALYSES (Guidance without MSG-3 changes)
- Further review and discussions during 2021, 2022 and 2023 IMRBPB meetings
- During IMRBPB meeting 2023 the IMRBPB voted to add the information reported in the CIP Part B to the existing IMPS Appendix 3, renaming the appendix accordingly.

Action Item 2023-06 had been opened: At the next IMPS revision opportunity, to rework IMPS Appendix 3, to make it a repository of additional supporting information/general practices. The Appendix has to be structured in sub appendices (3.1, 3.2). The title of Appendix 3 has to be properly defined.

- **After the 2023 IMRBPB Meeting the MPIG SWG** has raised the question to EASA how to progress/continue with the CIP as the part B has been accepted to become a new IMPS appendix and the content of part A is in question as well by other CIP e.g. EASA CIP 2023-07.
- One option could be to reduce the content of the CIP to the actual part B to become the new formal source for the appendix after IMRBPB acceptance.
- The MPIG SWG has not further worked on the CIP STR

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). Structure WG should also look at the NOTE added to the Zonal program in MSG-3 2022.1 (IP 196) for interface between Structures WG & Zonal WG.
- **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.

EASA CIP 2023-07 - "SSI definition update in MSG-3"

CIP Status summary after 2023 IMRBPB:

- The EASA CIP has been first time reviewed during 2023 IMRBPB
- The CIP aims to align the SSI definitions between MSG-3 Vol 1 and Vol 2 by considering IP147 (Clarification of “human occupant”) and IP 192 (In-flight loss of Structural items) in one common definition.
- During IMRBPB meeting MPIG raised objections against the expansion of the scope of the SSI definition and proposed to discuss the CIP at the level of the MPIG Structures WG, starting with a better definition of the issue.
- **After the 2023 IMRBPB Meeting the MPIG SWG** has reviewed the CIP, the IMRBPB comments and the EASA position. MPIG SWG concluded that there is room for alignment of the Vol 1 and Vol 2 SSI definition considering IP147 and IP192. As it became evident that the limited time would not be sufficient to conclude together to a MPIG SWG / EASA agreed update of the EASA CIP EASA proposed to agree on a roadmap on the subject. In two dedicated MPIG SWG meetings MPIG SWG support EASA on a roadmap, see IMRBPB AOB.

Future MPIG SWG Activities

Future subjects

- Continue to improve the actual CIPs to be mature for the policy board meeting.
- Revisit of IP105 Structure Health Monitoring, launch of new related CIP

Monthly MPIG SWG WebEx meetings



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Questions?

Thank you.