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CIP MPIG 2023-01 Rev. 3– Use of other applicable and effective tools for visual inspections

May 5, 2025

Background

MPIG understood the PB feedback as follows:

- The PB supports a standardized approach for the introduction of other/new “visual aids”
- Analysis of applicable and effective tooling meeting the task intent should occur at the WG level
- Other visual aids may satisfy the task’s intent, improve safety, access, and efficiency
- Initial application should be focused on Zonal GVI

Sub-Team considerations

- The WG's methodology should consider currently available tools that are applicable and effective in meeting a GVI's task's intent
- Amend MSG-3's visual inspection (GVI) language
- Introduce IMPS guidance addressing validation and related criteria in the PPH:
 - Confirm task intent is met with applied methods and tooling
 - Define related limitations (e.g., Zonal GVI)
- Innovation is providing technicians/inspectors with more readily available tools that are safer, more effective, and efficient than a mirror and a flashlight for image capturing
 - Cell phone cameras, power-controlled devices with cameras
- MSG-3 is not keeping up with these tooling innovations

Proposed IMPS revision

A. Revise IMPS 3.7 to add guidance for the TCH to consider the use of industry standard tools in the task validation process.

Note: Other edits are grammatical corrections evident and fixed

3.7 The type certificate holder ~~has the responsibility to develop~~ is responsible for ~~developing~~ a methodology to validate the maintenance procedures ~~written to support the completion of~~ supporting MRBR tasks. The objective of ~~the this~~ validation is to ensure the ~~maintenance~~ procedure can be performed and that the intent of the MRBR task is ~~also complied with met~~. ~~The validation includes any methods or tooling deemed applicable and effective by the MSG-3 analysis.~~ The results of the validation shall be made available to the CA or VA upon request. If ~~task~~ validation ~~reveals finds that the intent of~~ the MRB task cannot be met, this should ~~be reported be fed back~~ to the ISC. ~~They should~~ for review and ~~correction of any errors in the analysis. for possible errors and correct as required.~~

Proposed IMPS revision

continued: Revise IMPS Section 3.7

3.7.1 The TCH will identify the applicable and effective tools for the working group to consider in meeting the task's intent. The PPH may include additional criteria, conditions, and/or limitations related to tool usage as appropriate. This could involve categorizing some tools as optional and defining limits on their scope of application (e.g., zonal GVI for optional image-capturing devices) as agreed upon by the TCH and the certifying authority.

Proposed MSG-3 revision

B. Amend MSG-3 Chapter 2-1-2 as follows:

3. Method for Scheduled Maintenance Development

...This information (e.g. task purpose, accesses, tools/GSE, main steps of the procedure, estimated elapsed time/labor hour, pass/fail criteria ...) will be recorded in the MSG-3 analysis or referenced supporting documentation for tracking purposes. During task selection, working groups should evaluate the applicability and effectiveness of aerospace tooling (e.g., image capturing devices) capable of meeting the task's intent

Proposed MSG-3 revision

Amend the glossary definition for “Inspection – General Visual (GVI) as follows:

A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A visual aid (e.g. mirror or image capturing device) may be ~~necessary~~ appropriate to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight or drop-light and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked. Basic cleaning may be required to ensure appropriate visibility.

Summary Conclusion

<u>Policy Board feedback</u>	<u>Recommended action</u>
The PB supports a standardized approach for the introduction of other/new “visual aids”	Proposed a standardized approach
The analysis of applicable and effective tooling meeting the task intent should occur at the WG level	<p>Proposed new text in Chapter 2-1-2 to define that working groups should evaluate applicable and effective tooling that meets the task’s intent.</p> <p>Proposed IMPS 3.7 content that emphasizes validation should include any methods or tooling deemed applicable and effective by the MSG-3 analysis, plus other grammatical clean up</p>

Summary Conclusion

<u>Policy Board feedback</u>	<u>Recommended action</u>
Other visual aids may satisfy the task's intent, improve safety, access, and efficiency	Proposed a minor MSG-3 glossary change to: Inspection – General Visual (GVI) to introduce ...A visual aid (e.g., mirror, image capturing device) may be necessary appropriate to enhance...
Initial application should be focused on Zonal GVI	Introduced new 3.7.1 IMPS guidance for the PPH to other conditions or criteria such as: <ul style="list-style-type: none">• Tooling limitations (e.g., Zonal GVI) requiring CA approval• Annotate if any tools considered are optional



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Question, comments?