

International Maintenance Review Board Policy Board (IMRBPB)

Issue Paper (IP)

IP Number: IP 194

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:	Sampling applicability not limited to Systems and Powerplant
Submitter:	MPIG

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

Issue:

In current MSG-3 document, “Sampling” is specifically described, only in “Systems/Powerplant” section. However, the usage of Sampling is not limited to Systems and Powerplant items, as several TCHs have successfully reported the use of Sampling for Landing Gear structural items, L-HIRF items among other examples.

A “Sampling” could be a useful tool collecting data to validate expected degradation or understanding the degradation of novel technology; however, the use of “Sampling” should also be balanced to the risk associated to parts availability and impact to the fleet maintenance activities.

Problem:

Current MSG-3 document does not reflect reality and could limit “Sampling” use to Systems/Powerplant without avoiding unjustified use.

Recommendation (including Implementation):

The following MSG-3 document changes are recommended:

2-1-2 Approach

3. Method for Scheduled Maintenance Development

...

Items that, after analysis, have no scheduled task specified, may be monitored by an operator's reliability program.

...

Sampling may be established for items defined in any MSG-3 Analysis Procedures when the use of novel technology, or items which the expected degradation is not fully experienced by the equipment manufacturer for the application operational environment. In order to select applicable and effective Sampling, its selection needs to be supported by the manufacturers and ISC participants.

Sampling is an examination of a specific number of items at defined intervals in order to validate that there are no unexpected degradation characteristics. Sampling programs should not be used as a means to select initial task intervals larger than those that can be substantiated with available data (such as in service and/or design data). Non-sampled items may continue in service until sampling results highlight the need for adjustment.

...

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2-3-8. Systems/Powerplant Task Interval Determination

~~7. Sampling~~

~~Sampling may be established for items defined in the Systems and Powerplant Analysis Procedures. Sampling is an examination of a specific number of items at defined intervals in order to validate that there are no unexpected degradation characteristics. Sampling programs should not be used as a means to select initial task intervals larger than those that can be substantiated with available data. Non-sampled items may continue in service until sampling results highlight the need for additional scheduled maintenance.~~

NOTE: The original CIP proposal was submitted by Dassault-Aviation.

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IMRBPB Position:	
Date:	28 May 2021
Position:	Agreed, closed in 2021 meeting as IP194
Recommendation for Implementation:	As per effective date

Status of the Issue Paper:	☒	Active
	☐	Incorporated in MSG-3 / IMPS (with details)
	☐	Archived