

International Maintenance Review Board Policy Board (IMRBPB)

Issue Paper (IP)

IP Number: CIP IND 2020-07

Initial Date: 23/03/2020

Revision / Date: 04/1~~0~~/2020

Effective Date: TBD

Retroactivity: 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 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):

1) MSG-3 Document Changes (Changed text in **blue**, removed text in **red**)

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 known or understood 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.

NOTE: 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 and/or design detail. Non-sampled items may continue in service until sampling results highlight the need for adjustment. ~~additional scheduled maintenance~~.

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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.

IMRBPB Position:

Date:

Position:

**Recommendation for
Implementation:**

**Status of the Issue
Paper:**

<input type="checkbox"/>
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Active

Incorporated in MSG-3 / IMPS (with details)

Archived