

***International Maintenance Review Board Policy Board (IMRBPB)***

***Issue Paper (IP)***

***Date:*** Nov 17, 2008

***IP Number:*** Candidate IP 3 for IMRBPB 2009

***Revision / Date:-***

**Title:** Redefinition of FD analysis in the MSG-3

**Submitter:** Embraer

**Issue:** FD analysis methodology should be updated in the MSG-3 to reflect the industry understanding that the MSG3-related activity of the FD analysis should only deal with the maintainability/feasibility evaluation of the Damage Tolerance Analysis results. The FD requirements couldn't be exclusively derived by a rating system, as currently described in the methodology.

**Problem:** Current version of Structures MSG-3 methodology includes a Fatigue Damage (FD) analysis that should be performed by means of a rating system.  
It is common sense in the industry that Damage Tolerance Analysis is the most appropriate mean to assess Fatigue Damage and its results evaluated in terms of maintainability/feasibility should be the only scope of the MSG-3 analysis.  
A rating system, as part of the FD analysis, should only be used to assess the detectability of the damages.

**Recommendation (including Implementation):**

Revise MSG-3 methodology Section 2-4 to redefine FD analysis as a maintainability/feasibility evaluation of the DTA results.. (See proposal attached)

**IMRBPB Position:**

**Date:**  
**Position:**

**Status of Issue Paper (when closed state the closure date):**

**Recommendation Implementation:**

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