

Continued Airworthiness Notification to the International Community

To: Civil Aviation Authorities
From: Federal Aviation Administration (FAA)
Engine and Propeller Standards Branch, AIR-6A0
1200 District Avenue
Burlington, MA 01803

Date: January 21, 2020

Subject: This message is to advise you of the FAA's ongoing activities related to multiple in-flight shutdown (IFSD) events on CFM International S.A. (CFM) LEAP-1B model turbofan engines installed on Boeing 737-8 and -9 (MAX) airplanes.

Accident/ Incident Description: This AD was prompted by multiple reports of in-flight engine shutdowns (IFSDs) and defects in the related applicable systems and one report of a melt-related defect found in a part manufactured from the same material as the LEAP-1B high-pressure turbine (HPT) stage 2 disk.

Aircraft/ Engine Make, Model and Series: CFM International (CFM) International LEAP-1B21, LEAP -1B23, LEAP -1B25, LEAP -1B27, LEAP -1B28, LEAP -1B28B1, LEAP -1B28B2, LEAP -1B28B2C, LEAP -1B28B3, LEAP -1B28BBJ1, and LEAP-1B28BBJ2 turbofan engines.

U.S.-registered fleet: 162 engines **Worldwide fleet:** 838 engines

Operators: Southwest Airlines, American Airlines, Air Canada, China Southern Airlines, Air China, Hainan Airlines

Ongoing activities: The FAA is issuing a Notice of Proposed Rulemaking, Supersedure, proposing revisions to the airworthiness limitations section of the Engine Shop Manual and to the operator's continued airworthiness maintenance program for the affected CFM LEAP-1B model turbofan engines. These revisions would require a one-time inspection of the HPT stage 2 disk; engine condition monitoring or repetitive inspections of the HPT static structures; repetitive inspections of the radial drive shaft bearing; and a software modification.

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