

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: October 28, 2019

Subject: This message is to advise you of the FAA's ongoing activities related to in-flight shutdown (IFSD) events on Pratt & Whitney (PW) 1500G series model turbofan engines installed on Airbus A220 airplanes. The engine is of similar design to the PW1900G, installed on the Embraer E190-E2 airplanes, which are therefore also included in the FAA's actions.

Accident/ Incident Description: Between July 25, 2019, and October 15, 2019, three Airbus A220 airplanes, powered by PW PW1524G-3 engines, on Swiss Air Lines International (Swiss Air) flights have experience IFSDs after failures of the low-pressure compressor (LPC) rotor 1 (R1). In addition, cracks have been found in the LPC R1 on two affected PW engines installed as "zero time spare engines" (spare engines installed on airplanes already in service).

Aircraft/ Engine Make, Model and Series: PW PW1519G, PW1521G, PW1521GA, PW1524G, PW1525G, PW1521G-3, PW1524G-3, PW1525G-3, PW1919G, PW1921G, PW1922G, PW1923G, and PW1923G-A model turbofan engines model turbofan engines installed on Airbus A220 airplanes and Embraer E190-E2 airplanes

U.S.-registered fleet: 18 engines **Worldwide fleet:** 186 engines

Operators: Air Tanzania (Tanzania); Air Baltic (Latvia); Korean Air Lines (South Korea); Air Astana (Kazakhstan); EgyptAir (Egypt); Swiss Air (Switzerland); and Wideroe Airlines (Norway).

Ongoing activities: The FAA issued airworthiness directive (AD) 2019-19-11 on September 24, 2019, to require initial and repetitive borescope inspections of the LPC inlet guide vanes (IGVs) and the LPC R1 and, depending on the results of the inspection, possible repair or replacement of the LPC. The FAA is superseding this AD with another AD that requires the same inspection of the LPC R1, removes the inspection of the LPC IGV, expands the applicability to certain additional PW turbofan engines, and reduces the compliance time for these inspections for certain other PW turbofan engines.

Next update, if any: None.

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