



U.S. Department
of Transportation
**Federal Aviation
Administration**

Compliance and Airworthiness Division

ECO Branch
1200 District Avenue
Burlington, MA 01803
(781) 238-7140, Fax: (781) 238-7199

July 20, 2020

David Vega Alvarado
CF34-8C Airframer and Technical Integration Leader
GE Aviation
1000 Western Avenue
Lynn, MA 01910
USA

Subject: Global Alternative Method of Compliance request for Airworthiness
Directive 2019-22-05 on CF34-8C Engines

Dear Mr. Vega,

The Federal Aviation Administration (FAA) received your letter dated May 8, 2020 proposing a global alternative method of compliance (AMOC) to paragraph (g) of Airworthiness Directive (AD) 2019-22-05.

In your letter you propose that the 880 flight hours repeat inspection of the Operability Bleed Valve (OBV) and Environmental Control System (ECS) supporting links is not required once OBV Part Number (PN) 4123T71P06 is installed and an operator's maintenance program is updated to comply with the CF34-8C ENGINE MANUAL GEK105091 - Rev 49, 04/01/2020 or higher - ESM 05-21-00. The updated maintenance program adds a detailed inspection, or replacement, of the ECS supporting links every 16,000 flight hours.

The ECO Branch reviewed the data supporting your proposal that the OBV PN 4123T71P06 redesign addresses the issues discussed in the AD so does not require the repeat inspections. The P06 OBV features Al2618 Cap material with better mechanical properties compared to Al6061 material used in previous OBV configurations, and larger Rosan™ fittings. These design changes eliminate the potential for fuel leaks resulting from fitting loosening or pullout. The P06 OBV provides an acceptable level of safety without the repeat inspections required by the AD. Therefore, the FAA approves your global AMOC proposal as alternate action to the repeat inspections in paragraph (g) of AD 2019-22-05 for CF34-8C engines with the specified OBV PN 4123T71P06.

The ECO Branch has approved your AMOC proposal to FAA AD 2019-22-05, that the repeat inspections in paragraph (g) are not required if OBV PN 4123T71P06 is installed, and the maintenance program complies with CF34-8C ENGINE MANUAL GEK105091 - Rev 49, 04/01/2020 or higher - ESM 05-21-00, a detailed inspection, or replace with new, of the ECS supporting links every 16,000 flight hours. This AMOC is applicable to the engines affected by the AD, all GE CF34-8C1, CF34-8C5, CF34-8C5A1, CF34-8C5B1, CF34-8C5A2, and CF34-8C5A3 model turbofan engines.

This FAA AMOC is transferable with the aircraft to an operator who operates the aircraft under U.S. registry.

Upon transfer of the aircraft to U.S. registry, the following statement applies in accordance with FAA Order 8110.103B if you have not used the AMOC:

Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local Flight Standards District Office/Certificate Holding District Office.

All provisions of FAA AD 2019-22-05 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

This AMOC only applies to the FAA AD listed above. The FAA does not have the authority to approve this as an AMOC to any AD issued by another civil aviation authority (CAA). Approval of an AMOC to another CAA's AD must come from that CAA. A copy of this response will be forwarded to the CAA where these aircraft are registered for their consideration.

If you have any questions or need additional information, please contact Michael Richardson-Bach at telephone 781-238-7747 fax 781-238-7199, or electronic mail at michael.richardson-bach@faa.gov.

Sincerely,

Kevin

McAllister Clark

Digitally signed by Kevin
McAllister Clark
Date: 2020.07.20
12:58:58 -04'00'

(for) Tomasz Rakowski
Manager, ECO Branch

cc: Doug Otis ODA RCE, doug.otis@ge.com