Proposed Rules

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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 33

[Docket No. NE133; Notice No. 33-11-02-SC]

Special Conditions: Pratt and Whitney Canada Model PT6C–67E Turboshaft Engine

AGENCY: Federal Aviation Administration (FAA), DOT. **ACTION:** Notice of proposed special conditions.

SUMMARY: This action proposes special conditions for Pratt and Whitney Canada (PWC) model PT6C-67E engines. The engine model will have a novel or unusual design feature which is a 30-Minute All Engines Operating (AEO) power rating. This rating is primarily intended for high power hovering operations during search and rescue missions. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These proposed special conditions contain the added safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards. DATES: We must receive your comments by August 8, 2011.

ADDRESSES: You may mail two copies of your comments to: Federal Aviation Administration, Engine and Propeller Directorate, Attn: Marc Bouthillier, Rules Docket (ANE111), Docket No. NE133, 12 New England Executive Park, Burlington, Massachusetts 01803–5299. You may deliver two copies to the Engine and Propeller Directorate at the above address. You may send comments via e-mail to marc.bouthillier@faa.gov. You must mark your comments: Docket No. NE133. You can inspect comments in the Rules Docket weekdays, except Federal holidays, between 7:30 a.m. and 4 p.m.

FOR FURTHER INFORMATION CONTACT: For technical questions concerning this proposed rule, contact Marc Bouthillier, ANE-111, Engine and Propeller Directorate, Aircraft Certification Service, 12 New England Executive Park, Burlington, Massachusetts 01803-5299; telephone (781) 238-7120; facsimile (781) 238–7199; e-mail marc.bouthillier@faa.gov. For legal questions concerning this proposed rule, contact Vincent Bennett, ANE-7, Engine and Propeller Directorate, Aircraft Certification Service, 12 New England Executive Park, Burlington, Massachusetts 01803–5299; telephone (781) 238-7044; facsimile (781) 238-7055; e-mail vincent.bennett@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

We invite interested people to take part in this rulemaking by sending written comments, data, or views. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data. We ask that you send us two copies of written comments.

We will file in the docket all comments we receive, as well as a report summarizing each substantive public contact with FAA personnel about these special conditions. You can inspect the docket before and after the comment closing date. If you wish to review the docket in person, go to the address in the **ADDRESSES** section of this preamble between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

We will consider all comments we receive by the closing date for comments. We will consider comments filed late if it is possible to do so without incurring expense or delay. We may change these special conditions based on the comments we receive.

If you want us to let you know we received your comments on this proposal, send us a pre-addressed, stamped postcard on which the docket number appears. We will stamp the date on the postcard and mail it back to you.

Background

On July 10, 2008, PWC applied for type certification for the model PT6C– 67E turboshaft engine. The PT6C–67E engine is a derivative of the PT6C–67C engine which has been type certificated by the FAA. This engine incorporates a four-stage axial compressor and a centrifugal compressor driven by a single stage high pressure turbine (HPT) and a two-stage power turbine (PT) driving a helicopter rotor system via a direct drive to the engine output shaft. The control system includes a dual channel full authority digital electronic control.

The engine will incorporate a novel or unusual design feature which is a 30minute AEO power rating. This rating was requested by the applicant to support rotorcraft search and rescue missions that require extensive hover operations at high power. The use of 30minute AEO power is limited to a cumulative total of 50 minutes for any given flight. However, the number of times the rating can be accessed on any given flight is not limited, as long as 50 minutes total time per flight is not exceeded.

The applicable airworthiness standards do not contain adequate or appropriate airworthiness standards to address this design feature. Therefore a special condition is necessary to apply additional requirements for rating definition, instructions for continued airworthiness (ICA), and endurance testing. The ICA requirement is intended to address the unknown nature of actual rating usage and associated engine deterioration. The applicant is expected to make an assessment of the expected usage and publish ICA's and Airworthiness Limitations section limits in accordance with those assumptions, such that engine deterioration is not excessive.

The endurance test requirement of 25 hours operation at 30 minutes AEO is similar to several special conditions issued over the past 20 years. Because the PT6C–67E model has a Continuous One-Engine-Inoperative (OEI) rating and limits equal to or higher than the 30minute AEO rating, the test time performed at the Continuous OEI rating may be credited toward the 25-hour requirement. However, test time spent at other rating elements of the test, such as takeoff or other OEI ratings (that may be equal to or higher values), may not be counted toward the 25 hours of required running.

These special conditions contain the additional airworthiness standards necessary to establish a level of safety equivalent to the level that would result from compliance with the applicable standards of airworthiness in effect on the date of application.

Type Certification Basis

Under the provisions of 14 CFR 21.17 and 21.101(a), PWC must show that the model PT6C-67E turboshaft engine meets the provisions of the applicable regulations in effect on the date of application, unless otherwise specified by the FAA. The current certification basis for this model series is 14 CFR part 33 Amendment 20; however, PWC proposes to demonstrate compliance to later amendments of part 33 for this model. In accordance with 14 CFR 21.101(b), the FAA concurs with the PWC proposal. Therefore, the certification basis for the PT6C–67E model turboshaft engine will be part 33, effective February 1, 1965, as amended by Amendments 33–1 through 33–30.

If the Administrator finds that the applicable airworthiness regulations in part 33, as amended, do not contain adequate or appropriate safety standards for the PWC model PT6C–67E turboshaft engine, because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

The FAA issues special conditions, as defined by 14 CFR 11.19, in accordance with 14 CFR 11.38, which become part of the type certification basis in accordance with § 21.17(b)(2).

Special conditions are initially applicable to the model for which they are issued. Should the type certificate for that model be amended later to include another related model that incorporates the same or similar novel or unusual design feature, or should any other model already included on the same type certificate be modified to incorporate the same or similar novel or unusual design feature, the special conditions would also apply to the other model.

Novel or Unusual Design Features

The PWC model PT6C–67E turboshaft engine will incorporate a novel or unusual design feature which is a 30-Minute All Engine Operating (AEO) power rating, for use up to 30 minutes at any time between take-off and landing. Special conditions for a 30-Minute AEO rating are proposed to address this novel and unusual design feature. The special conditions are discussed below.

Discussion

The PWC model PT6C–67E turboshaft engine is a free turbine turboshaft designed for a transport category twinengine helicopter. The helicopter manufacturer anticipates that for search and rescue extended hovering maneuvers may require more than maximum continuous power for up to 30 minutes. PWC has requested a 30-Minute All Engine Operating (AEO) rating for use up to 30 minutes at any time between the take-off and landing phases of a flight. PWC has indicated that the number of times this rating can be accessed in one flight is not limited; but total time is limited to a cumulative total of 50 minutes for any one flight.

Applicability

As discussed above, these special conditions are applicable to PWC model PT6C–67E turboshaft engines. If Pratt and Whitney Canada applies later for a change to the type certificate to include another closely related model incorporating the same novel or unusual design feature, these special conditions would apply to that model as well.

Conclusion

This action affects only certain novel or unusual design features on the Pratt and Whitney Canada Model PT6C–67E Turboshaft Engine. It is not a rule of general applicability, and it affects only Pratt and Whitney Canada who applied to the FAA for approval of these features on the engine.

List of Subjects in 14 CFR Part 33

Air transportation, Aircraft, Aviation safety, Safety.

The authority citation for these special conditions continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701–44702, 44704.

The Proposed Special Conditions

Accordingly, the FAA proposes the following special conditions as part of the type certification basis for PWC model PT6C–67E turboshaft engines.

1. PART 1—DEFINITIONS

Unless otherwise approved by the Administrator and documented in the appropriate manuals and certification documents, the following definition applies to this special condition: "Rated 30 Minute AEO Power" means the approved shaft horsepower developed under static conditions at the specified altitude and temperature, and within the operating limitations established under part 33, and limited in use to periods not exceeding 30 minutes, and limited to a cumulative total of 50 minutes use for any given flight.

2. PART 33—REQUIREMENTS

(a) Sections 33.1 Applicability and 33.3 General: As applicable, all

documentation, testing and analysis required to comply with the part 33 certification basis must account for the 30 minute AEO rating, limits and usage.

(b) Section 33.4, Instructions for Continued Airworthiness (ICA). In addition to the requirements of § 33.4, the ICA must:

(1) Include instructions to ensure that in-service engine deterioration due to rated 30 minute AEO power usage will not be excessive, meaning that all other approved ratings, including One Engine Inoperative (OEI), are available (within associated limits and assumed usage) for each flight; and that deterioration will not exceed that assumed for declaring a Time Between Overhaul period.

(i) The applicant must validate the adequacy of the maintenance actions required under paragraph (b)(1) above.

(2) Include in the Airworthiness Limitations section, any mandatory inspections and serviceability limits related to the use of the 30-minute AEO rating.

(c) Section 33.87, Endurance Test. In addition to the requirements of §§ 33.87(a) and 33.87(d), the overall test run must include a minimum of 25 hours of operation at 30 minute AEO power and limits, divided into periods of 30 minutes AEO power with alternate periods at maximum continuous power or less.

(1) Each § 33.87(d) continuous OEI rating test period of 30 minutes or longer, run at power and limits equal to or higher than the 30 minute AEO rating, may be credited toward this requirement.

Issued in Burlington, Massachusetts, on June 23, 2011.

Peter A. White,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service. [FR Doc. 2011–16814 Filed 7–6–11; 8:45 am] BILLING CODE 4910–13–M

DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

37 CFR Chapter I

[Docket No. PTO-C-2011-0026]

Preliminary Plan for Retrospective Analysis of Existing Rules

AGENCY: United States Patent and Trademark Office, Commerce. **ACTION:** Request for comments.

SUMMARY: The United States Patent and Trademark Office ("USPTO" or "Office") has prepared a preliminary