

CHAPTER 136 EVALUATE FAR PART 133 OPERATOR

Section 1 Background

1. PTRS ACTIVITY CODES

A. *Maintenance*: 3202

B. *Avionics*: 5201

3. OBJECTIVE. This chapter provides guidance for evaluating an applicant for a FAR Part 133 Rotorcraft External-Load Operator Certificate.

5. GENERAL

A. The certification process provides for interaction between the applicant and the FAA, from initial inquiry to certificate issuance or denial. It ensures that programs, systems, and intended methods of compliance are thoroughly reviewed, evaluated, and tested.

B. The certification process consists of five phases. Due to the nature of FAR Part 133 operations, the way the five phases are used will depend on the size and complexity of the proposed operation. The five phases are as follows:

- Preapplication Phase
- Formal Application Phase
- Document Compliance Phase
- Demonstration and Inspection Phase
- Certification Phase

(1) In evaluating an applicant for FAR Part 133 operations, Airworthiness Aviation Safety Inspectors (ASIs) will focus primarily on the demonstration and inspection phase.

(2) An Airworthiness ASI designated as the Certification Project Manager (CPM) will be concerned

with all phases and closely coordinate all activities with the appropriate specialties.

C. Classes of External-Loads Authorizations

(1) Operations ASIs approve four distinct classes of external-loads. Regardless of class, Airworthiness ASIs will only be concerned with the load attaching and quick release devices.

(2) Class D authorizes the carrying of personnel. The personnel-lifting devices should be approved by FAA Engineering.

D. *Rotorcraft External-Load Attaching Means.* Rotorcraft external-load attaching means must meet the requirements outlined in FAR § 133.43(a).

(1) While conducting external-load operations, the aircraft must have on board a facsimile of the approved Rotorcraft External-Load Operating Certificate (FAA Form 8430-2). This certificate constitutes a valid airworthiness certificate while the operator conducts external-load operations. It in no way invalidates the airworthiness certificate issued at certification. The facsimile, carried in the aircraft, is only valid while an external-load is attached.

NOTE: The standard airworthiness certificate issued at certification must be displayed in accordance with FAR § 91.203.

(2) Each external-load attaching means must have been approved under one of the following:

- Part 8 of the Civil Air Regulations on or before January 17, 1964
- FAR Part 133, before February, 1977
- FAR Part 27 or 29, as applicable, regardless of the approval date

- Supplemental Type Certificate
- FAR Part 27 or 29, as applicable
- FAA Form 337, Repair/Alteration Data Form - Aircraft, Engineering, Appliance
- FAR Part 133, before February 1, 1977

E. Quick Release Device

(1) A quick release device must have been approved under either of the following:

(2) A control for quick release must be installed in accordance with FAR § 27.865. In addition, a manual mechanical control for the quick release device must be readily accessible to either the pilot or another crewmember.

Section 2 Procedures

1. PREREQUISITES AND COORDINATION REQUIREMENTS

A. Prerequisites

- Knowledge of the regulatory requirements of FAR Part 133
- Successful completion of Airworthiness Inspector's Indoctrination Course for General Aviation and Air Carrier Inspections, or previous equivalent

B. *Coordination.* This task requires coordination between Airworthiness and Operations Aviation Safety Inspectors (ASIs).

3. REFERENCES, FORMS, AND JOB AIDS

A. References

- CAR Part 8
- FAR Parts 27, 29, and 43
- Advisory Circular 133-1A, Rotorcraft External-Load Operations in Accordance with Federal Aviation Regulations Part 133, as amended
- Order 8300.10, Vol. 2, Ch. 137, Evaluate FAR Part 133 Rotorcraft Lease Agreement

B. Forms

- FAA Form 8430-2, Rotorcraft External-Load Operating Certificate
- FAA Form 337, Repair/Alteration Data Form - Aircraft, Engineering, Appliance

C. *Job Aids.* None.

5. PROCEDURES

A. *Determine if the External-Load Attaching Means Have Been Approved*

(1) Examine the aircraft maintenance and alterations records to ensure that the attaching means have been installed using data previously approved by the Administrator. Ensure that the data is either part of the type design of the rotorcraft or has been added as a supplement to the type design.

(2) If the approval is by Supplemental Type Certificate (STC), ensure that the approval is reflected in the rotorcraft maintenance and alteration records by an FAA Form 337.

(3) If the rotorcraft was approved before February 1, 1977, the load attachment installation may have been approved as a field approval.

B. *Observe a Demonstration.* A satisfactory demonstration of the quick-release must be performed in accordance with FAR §§ 133.41 and 133.43. If at all possible, Avionics ASIs should witness this demonstration.

C. *Ensure that Markings and Placards are Appropriately Displayed.* Determine if the external-load attaching means are

appropriately placarded for total load. Ensure that the placards containing information regarding the rotorcraft-load combination(s) and occupancy limitations are placed in the cockpit in plain view of the pilot.

D. *Debrief the Certification Project Manager.* Inform the Certification Project Manager of any discrepancies found. If there are no discrepancies noted, indicate that the airworthiness requirements have been met.

7. TASK OUTCOMES

A. *File PTRS Transmittal Form*

B. Successful completion of this task will result in the issuance or denial of an operating certificate by the Certification Project Manager.

9. FUTURE ACTIVITIES. Observe on-site activities to ensure that the operator is complying with the applicable regulations.

