UNITED STATES OF AMERICA
CIVIL AERONAUTICS BOARD
WASHINGTON, D. C.

Civil Air Regulations Amendment 21-2
Effective: July 1, 1958
Adopted: April 2, 1958

AIRLINE TRANSPORT PILOT RATING

HELICOPTER CATEGORY RATING

The Civil Aeronautics Act of 1938, as amended, requires that the certificate issued to pilots serving in scheduled air transportation be designated "airline transport pilot." In view of this provision, Part 21 of the Civil Air Regulations sets forth the present requirements for the issuance of an "airline transport pilot" certificate with appropriate ratings.

This amendment to Part 21 establishes provisions for the issuance of an airline transport pilot certificate with a helicopter category rating, including provisions for the issuance of a helicopter rating to persons presently holding an airline transport pilot certificate with an airplane rating. In promulgating this amendment, careful consideration has been given to comment received in response to Civil Air Regulations Draft Release No. 53-13, circulated July 23, 1953, the results of a public meeting held in Washington, D. C., in June of 1954, and comment received in response to Civil Air Regulations Draft Release No. 56-3, circulated January 19, 1956.

This amendment differs from the detailed proposals circulated in Draft Releases 53-13 and 56-3 in some respects. For example, it does not require an applicant for an airline transport pilot certificate with a helicopter category rating to have an instrument rating. Inasmuch as no helicopters are presently approved for instrument flight and no helicopter instrument operations are authorized, to require an instrument rating would make it necessary for a helicopter pilot to secure the rating in an airplane, thus imposing an unnecessary and unreasonable financial burden upon the applicant. It is considered necessary, however, that there be indicated on each certificate with a helicopter category rating that the holder thereof is authorized to pilot helicopters in accordance with VFR flight rules only. At such time as the Board by regulation authorizes helicopter IFR operations, Part 21 will be amended to require all holders of an airline transport pilot certificate with a helicopter category rating to qualify for an instrument rating by demonstrating competence and knowledge of the appropriate procedures involving instrument flight in helicopters.

A person holding a valid airline transport pilot certificate with an airplane category rating is required, among other things, to have at least 15 hours of night flight time in a helicopter to qualify for a helicopter category rating. Such a requirement is considered necessary in the interest of safety in view of the flight characteristics of the helicopter; the degree of proficiency required for night operations, particularly in autorotative landing configurations; and the low weather minimums authorized for night operations.

In addition, a holder of an airline transport pilot certificate with an airplane category rating who desires to obtain a helicopter category rating is required to complete 100 hours of helicopter flight time as pilot in command or complete a training program conducted by a certificated air carrier or other approved agency requiring at least 75 hours of helicopter flight time. The Board considers that 75 hours of flight time under the supervision of an approved agency or certificated air carrier will provide a degree of proficiency on the part of the pilot at least the equivalent of that which would be provided by 100 hours of unsupervised helicopter flight time as originally proposed.

In establishing these minimum experience requirements for an additional category rating, the Board has taken into consideration the 1,200-hour experience requirement already met by the applicant, and the fact that prior to serving in scheduled air transportation each pilot must comply with the training program required by the several air carrier operating parts of the Civil Air Regulations.

Further, it is the Board's opinion that insofar as safety is concerned, no useful purpose would be served by requiring pilots presently serving as pilots in command in scheduled air carrier helicopter operations to accomplish the written and flight examinations set forth in this amendment. It is considered that a satisfactory level of competence has been assured by the accomplishment of the required periodic flight checks, the requirement for 100 hours as pilot in command in scheduled air carrier operations, and by participation in the various air carrier training programs.

Interested persons have been afforded an opportunity to participate in the making of this regulation (21 F. R. 630), and due consideration has been given to all relevant matter presented.

In consideration of the foregoing, the Civil Aeronautics Board hereby amends Part 21 of the Civil Air Regulations (14 CFR Part 21, as amended) effective July 1, 1958.

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1. By adding new §§ 21.19, 21.19a, 21.19b, 21.19c, and 21.19d to read as follows:

21.19 Airline transport pilot certificate (helicopter). An applicant for an airline transport pilot certificate with a helicopter rating authorizing the piloting of a helicopter under VFR flight rules only shall meet the aeronautical requirements of §§ 21.19a through 21.19c in lieu of §§ 21.15 through 21.18: Provided, That an airline transport pilot certificate with a helicopter category rating and appropriate class and type ratings will be issued to a pilot who has served for at least 100 hours as pilot in command in scheduled air carrier helicopter operations within the 12 months immediately preceding the date of application and who otherwise meets the qualification requirements of this part.

21.19a Aeronautical knowledge. Applicant shall be familiar with and shall accomplish a satisfactory written examination on:

(a) Provisions of the Civil Air Regulations pertinent to the air carrier operation of helicopters;

(b) Helicopter design, components, systems, and performance limitations;

(c) Basic principles of loading and weight distribution and their effect on helicopter flight characteristics;

(d) Air traffic control systems and procedures pertinent to the operation of helicopters;

(e) Procedures for the operation of helicopters in potentially hazardous meteorological conditions; and

(f) Theory of flight as applicable to helicopters.

21.19b Aeronautical experience. Applicant shall hold a valid commercial pilot certificate or equivalent as determined by the Administrator, and shall have had at least 1,200 hours of flight time as pilot within the last 8 years, of which:

(a) 5 hours shall have been in helicopters within 60 days immediately preceding the date of application;

(b) 500 hours shall have been cross-country flight time;

(c) 100 hours shall have been night flight time, of which at least 15 hours shall have been in helicopters; and

(d) 200 hours shall have been in helicopters, of which 75 hours shall have been as pilot in command of a helicopter, or as copilot actually performing the duties and functions of a pilot in command under the surveillance of a pilot in command, or any combination thereof.

21.19c Aeronautical skill. Applicant shall demonstrate to the satisfaction of the Administrator his ability to pilot helicopters. Such demonstration shall include at least the following:

(a) Maneuvers consisting of normal take-offs and landings, cross-wind landings, climbs and climbing turns, steep turns, maneuvering at minimum speed, rapid descent, and quick stops;

(b) Simulated emergency procedures including failure of an engine or other components or systems, fire, ditching, evacuation, and operation of emergency equipment;

(c) Autorotative approaches and landings with simulated one engine inoperative; and

(d) Such other maneuvers as the Administrator may deem necessary to demonstrate the competence of the applicant.

21.19d Additional category ratings.

(a) A person holding a valid airline transport pilot certificate with an airplane category rating who applies for a helicopter category rating authorizing the piloting of a helicopter under VFR flight rules only shall:

(1) Comply with the provisions of §§ 21.19a and 21.19c; and

(2) Have completed at least 100 hours, including 15 hours at night, of helicopter flight time as pilot in command of a helicopter, or as copilot actively performing the duties and

functions of a pilot in command under the surveillance of a pilot in command who holds a valid airline transport pilot certificate with the appropriate helicopter rating, or any combination thereof; or have completed a training program conducted by a certificated air carrier or other approved agency requiring at least 75 hours of helicopter pilot-in-command, copilot, solo, or dual instruction time, or any combination thereof of which 15 hours shall have been at night.

(b) A person holding a valid airline transport pilot certificate with a helicopter category rating who applies for an airplane category rating shall:

(1) Comply with the provisions of §§ 21.15 through 21.18; and

(2) Have completed at least 100 hours, including 15 hours at night, of airplane flight time as pilot in command of an airplane, or as copilot actively performing the duties and functions of a pilot in command under the surveillance of a pilot in command who holds a valid airline transport pilot certificate with the appropriate airplane rating, or any combination thereof; or have completed a training program conducted by a certificated air carrier or other approved agency requiring at least 75 hours of airplane pilot-in-command, copilot, solo, or dual instruction time, or any combination thereof, of which 15 hours shall have been at night.

2. By amending § 21.34 by adding a new paragraph (e) to read as follows:

21.34 Aircraft category rating. * * *

(e) Helicopter.

3. By amending § 21.35 by adding a sentence to the end of paragraph (b) to read as follows: "A helicopter type rating shall be issued for each type of helicopter."

(Sec. 205 (a), 52 Stat. 984; 49 U.S.C. 425 (a). Interpret or apply secs. 601, 602, 52 Stat. 1007, 1008; as amended, 49 U.S.C. 551, 552)

By the Civil Aeronautics Board:

/s/ M. C. Mulligan

M. C. Mulligan
Secretary

(SEAL)

Part 21 last printed October 20, 1956.