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U. S. Department of Commerce — Civil Aeronautics Administration

Civil Aeronautics Manuals and Supplements thereto are issued by the Office of Aviation Safety, Civil Aeronautics Administration, for the guidance of the public and are published in the Federal Register and the Code of Federal Regulations.

Supplement No. 8 — December 22, 1950

SUBJECT: 61.266
Protective Breathing Equipment for the Flight Crew

The purpose of this supplement is to make available current policies concerning protective breathing equipment installed on air-carrier aircraft and the rules affecting requirement of protective breathing equipment in nonpressurized cabin airplanes.

61.266-1 PROTECTIVE BREATHING EQUIPMENT AND INSTALLATION
61.266-2 REQUIREMENT OF PROTECTIVE BREATHING EQUIPMENT IN NONPRESSURIZED CABIN AIRPLANES

Attached hereto is a new page headed "61.266" dated December 22, 1950. This page should be retained as one in a series of similar statements that will be issued explaining or implementing Civil Air Regulation 61. This material has been published in the Federal Register and becomes effective on January 1, 1951.

E. S. Hensley

E. S. Hensley
Director, Office of
Aviation Safety

Attachment

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40 All Tabs, 40-B, 40-C, 40-D, 40-E, 40-F-1

"CAR 61.266 Protective breathing equipment for the flight crew -- (a) Pressurized cabin airplanes. Each flight crew member on flight deck duty shall have easily available at his station protective breathing equipment covering the eyes, nose, and mouth, or the nose and mouth where accessory equipment is provided to protect the eyes, to protect him from the effects of smoke, carbon dioxide, and other harmful gases.

"(1) Not less than a 300-liter STPD supply of oxygen for each flight crew member on flight deck duty shall be provided for this purpose.

"(b) Nonpressurized cabin airplanes. The requirement stated in paragraph (a) of this section shall apply to nonpressurized cabin airplanes, if the Administrator finds that it is possible to obtain a dangerous concentration of smoke, carbon dioxide, or other harmful gases in the flight crew compartments in any attitude of flight which might occur when the aircraft is flown in accordance with either the normal or emergency procedures approved by the Administrator."

61.266-1 PROTECTIVE BREATHING EQUIPMENT AND INSTALLATION. (CAA policies which apply to section 61.266).

Protective breathing equipment for the flight crew and its installation should comply with CAM 4b.651-1 and CAM 4b.651-2.

61.266-2 REQUIREMENT OF PROTECTIVE BREATHING EQUIPMENT IN NONPRESSURIZED CABIN AIRPLANES. (CAA rules which apply to section 61.266 (b)).

Protective breathing equipment for the flight crew shall be required in nonpressurized cabin aircraft having built-in carbon dioxide fire extinguisher systems in fuselage compartments (for example, cargo or combustion heater compartments); except that protective breathing equipment will not be required where:

(a) not more than five pounds of carbon dioxide will be discharged into any one such compartment in accordance with established fire control procedures, or

(b) the carbon dioxide concentration at the flight crew stations has been determined in accordance with CAM 4b.484-1 and found to be less than 3% by volume (corrected to standard sea-level conditions).