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AIRWORTHINESS DIRECTIVE
ҰШУҒА ЖАРАМДЫЛЫҚ ДИРЕКТИВАСЫ
ДИРЕКТИВА ЛЕТНОЙ ГОДНОСТИ

AD number AD 2020-01 **Revision** 0
Effective date December 25, 2020

ATA 26 – Class V cargo compartment fire extinguishing system

Applicability All aeroplanes of a maximum certificated take-off mass greater than 5700 kg with class V cargo and/or baggage compartments as defined by airworthiness standards for civil aircraft of the Republic of Kazakhstan

Reason Investigations into several catastrophic aircraft cargo compartment fires in the United States has concluded that cargo compartments were contributory to the loss of aeroplanes as there was no system to detect the fire until the cargo compartment had been breached by the fire. This directive retrospectively introduces the new design requirements to upgrade class V cargo compartments on applicable aeroplanes.

Definition: Class V cargo and/or baggage compartments, which are not accessible to a crewmember in flight.

Required action

1. Class V cargo and/or baggage compartments in a passenger-carrying aeroplane shall be equipped with:
 - a. Fire alarm triggered by smoke, flame, or temperature rise.
 - b. Fire extinguishing system that ensures the elimination of a fire or elimination of flame combustion in the event of residual smouldering of cargo or baggage materials and prevention of the recurrence of flame combustion during the time required for the aircraft to land at the nearest airfield and evacuate passengers.
 - c. Means to remotely shut off the ventilating airflow or reduce it in case of in-flight fire if environmental control system is installed on the aircraft.
2. Class V cargo compartments on an all-cargo aeroplane shall be equipped with:
 - a. Fire alarm triggered by smoke, flame, or temperature rise.
 - b. Means to remotely shut off the ventilating airflow or reduce it

in case of in-flight fire if environmental control system for class V compartments is installed on the aircraft.

3. Aircraft shall be equipped with the following mechanisms (means) to check the effectiveness of the fire detection and extinguishing systems specified in paragraphs 1 and 2:

- a. Means to perform operational check of the electrical system of fire detection and extinguishing equipment prior to aircraft departure.
- b. Electrical power supply to fire alarm systems and fire extinguishing control panel, taking into consideration the expected operating conditions, including the special situation with automatic switching to the emergency power supply.

Compliance time

Within 36 months after the effective date of this AD

Remarks

If requested and appropriately substantiated, Aviation administration of Kazakhstan may agree Alternative Methods of Compliance for this AD.

Contact details

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