

is not listed in 9 CFR 72.2 as an area quarantined for splenetic or tick fever.

(D) Breeding of horses or collection of germplasm from horses is prohibited during the quarantine period unless necessary for a required import testing procedure.

(E) Horses in quarantine will be subjected to such tests and procedures as directed by an APHIS representative to determine whether they are free from communicable diseases of horses. While in quarantine, horses may be vaccinated only with vaccines that have been approved by APHIS and that are administered by an APHIS veterinarian or an accredited veterinarian under the direct oversight of an APHIS representative. APHIS will approve a vaccine only if the vaccine is licensed by APHIS in accordance with § 102.5 of this chapter.<sup>17</sup>

(F) Any death or suspected illness of horses in quarantine must be reported immediately to APHIS. The affected horses must be disposed of as the Administrator may direct or, depending on the nature of the disease, must be cared for as directed by APHIS to prevent the spread of disease.

(G) Quarantined horses requiring specialized medical attention or additional postmortem testing may be transported off the quarantine site, if authorized by APHIS. A second quarantine site must be established to house the horses at the facility of destination (e.g., veterinary college hospital). In such cases, APHIS may extend the quarantine period until the results of any outstanding tests or postmortems are received.

(H) Should the lot of horses become infected with or exposed to a communicable disease of horses, arrangements for the final disposition of the infected or exposed lot must be accomplished within 4 work days following disease confirmation. Subsequent disposition of the horses must occur under the direct oversight of APHIS representatives. The operator must have a preapproved contingency plan for the possible disposal of all horses housed in the facility prior to issuance of the import permit.

(vi) *Records.*

(A) The facility operator must maintain a current daily log to record the entry and exit of all persons entering and leaving the quarantine facility.

(B) The operator must maintain the daily log, along with any logs kept by APHIS and deposited with the operator,

for at least 2 years following the date of release of the horses from quarantine and must make such logs available to APHIS representatives upon request.

(5) *Environmental quality.* If APHIS determines that a privately operated quarantine facility does not meet applicable local, State, or Federal environmental regulations, APHIS may deny or suspend approval of the facility until appropriate remedial measures have been applied.

(6) *Variations.* The Administrator may grant variances to existing requirements relating to location, construction and other design features of the physical facility, as well as to sanitation, security, operating procedures, recordkeeping, and other provisions of paragraph (c) of this section, but only if the Administrator determines that the variance causes no detrimental impact to the overall biological security of the quarantine operations. The operator must submit a request for a variance to the Administrator in writing at least 30 days in advance of the arrival of horses to the facility. Any variance must also be expressly provided for in the compliance agreement.

8. In § 93.309, the section heading would be revised to read as follows:

**§ 93.309 Horse quarantine facilities; payment information.**

\* \* \* \* \*

9. Section 93.310 would be revised to read as follows:

**§ 93.310 Quarantine stations, visiting restricted; sales prohibited.**

Visitors are not permitted in the quarantine enclosure during any time that horses are in quarantine unless an APHIS representative specifically grants access under such conditions and restrictions as may be imposed by APHIS. An importer (or his or her agent or accredited veterinarian) may be admitted to the lot-holding area(s) containing his or her quarantined horses at such intervals as may be deemed necessary, and under such conditions and restrictions as may be imposed, by an APHIS representative. On the last day of the quarantine period, owners, officers or registry societies, and others having official business or whose services may be necessary in the removal of the horses may be admitted upon written permission from an APHIS representative. No exhibition or sale shall be allowed within the quarantine grounds.

Done in Washington, DC, this 24th day of June, 2002.

**Bobby R. Acord,**

*Administrator, Animal and Plant Health Inspection Service.*

[FR Doc. 02-16337 Filed 6-28-02; 8:45 am]

BILLING CODE 3410-34-P

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 25

[Docket No. NM217; Notice No. 25-02-07-SC]

#### Special Conditions: Boeing Commercial Airplane Group, Boeing Model 747-400 Series Airplane; Forward Lower Lobe (Service/Cargo) Compartment

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed special conditions.

**SUMMARY:** This notice proposes special conditions for the Boeing Model 747-400 series airplane. This airplane, as modified by the Boeing Commercial Airplane Group, Wichita, Kansas, will have novel or unusual design features associated with the installation of a forward lower lobe compartment that will have two functions: that of a service compartment and that of a class C cargo compartment. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These proposed special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

**DATES:** Comments must be received on or before July 31, 2002.

**ADDRESSES:** Comments on this proposal may be mailed in duplicate to: Federal Aviation Administration, Transport Airplane Directorate, Attn: Rules Docket (ANM-113), Docket No. NM217, 1601 Lind Avenue SW., Renton, Washington, 98055-4056; or delivered in duplicate to the Transport Airplane Directorate at the above address. Comments must be marked: Docket No. NM217. Comments may be inspected in the Rules Docket weekdays, except Federal holidays, between 7:30 a.m. and 4 p.m.

**FOR FURTHER INFORMATION CONTACT:** Mark Quam, FAA, Standardization Branch, ANM-113, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue SW.,

<sup>17</sup> A list of approved vaccines is available from National Center for Import and Export, Veterinary Services, APHIS, 4700 River Road, Unit 39, Riverdale, MD 20737-1231.

Renton, Washington, 98055-4056; telephone (425) 227-2145; facsimile (425) 227-1149.

**SUPPLEMENTARY INFORMATION:**

**Comments Invited**

The FAA invites interested persons to participate in this rulemaking by submitting written comments, data, or views. The most helpful comments reference a specific portion of the proposal, 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 concerning these proposed special conditions. The docket is available for public inspection 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 notice between 7:30 a.m. and 4 p.m., Monday through Friday, except Federal holidays.

We will consider all comments we receive on or before 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 the proposed special conditions in light of the comments we receive.

If you want the FAA to acknowledge receipt of your comments on this proposal, include with your comments 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 January 3, 2001, Boeing Commercial Airplane Group (BCAG)—Wichita Division Designated Alteration Station (DAS) applied for a Supplemental Type Certificate (STC) for the installation, in a Boeing Model 747-400 series airplane, of a forward lower lobe compartment that combines two functions: that of a service compartment and that of a class C cargo compartment. The Boeing Model 747-400 series airplane, currently approved under Type Certificate A20WE, is a large transport category airplane with upper and main passenger decks. The main deck is limited to 550 passengers or less and the upper deck is limited to 110 passengers or less, depending on the interior configuration. Cargo compartments are installed below the main deck. The airplane is driven by four high-bypass turbojet engines capable of a static thrust in excess of 43,000 pounds.

The 747-400 configuration proposed for certification is an interim, but certifiable, configuration. The final interior will be installed by another modifier at a later date. Boeing proposes to certificate the model with the forward half of the main deck open and the aft half of the main deck configured for passengers. However, the main deck and upper deck will be certificated with limitations specifying zero occupancy and zero cargo.

Boeing proposes to modify the configuration defined above by installing a stair from the main deck to the forward lower lobe cargo compartment and proposes to use the forward cargo compartment as a service area and as a class C cargo compartment. Further, an air-stair would be installed to allow walk-in access from the ground to the forward lower lobe (service/cargo) compartment. The forward lower lobe (service/cargo) compartment design would have provisions for flammability and smoke protection. Access would be limited to one trained crewmember and access would be allowed during flight but not during taxi, takeoff and landing, or during a fire.

To accommodate access into the forward lower lobe (service/cargo) compartment by a crewmember, Boeing proposes appropriate warning and emergency equipment will be installed as defined for a lower lobe service compartment in § 25.819. A flight attendant seat will be installed in the forward lower lobe (service/cargo) compartment for in-flight emergency use only. The seat will be located so that it meets all certification requirements for attendant seating. Speakers, warning lights, and buzzers will be installed in the forward lower lobe (service/cargo) compartment to warn the crewmember occupant of turbulent conditions, smoke detection, or the need to leave the area. A crew interphone will be provided for communications with the flight deck. In addition, emergency oxygen equipment will be provided as appropriate.

Boeing proposes the forward lower lobe (service/cargo) compartment will meet the class C requirements of § 25.857(c) and will include an approved built-in fire extinguisher or suppression system controllable from the cockpit. In the event of a fire, the forward lower lobe (service/cargo) compartment will be evacuated, and the pilot will initiate a Halon suppression system. A means will be provided to prevent inadvertent access to the compartment when the fire suppression system has been activated. The intention of the fire suppression system is to eliminate the necessity for sending

someone into the compartment to fight a fire.

The existing regulations address a service area and a class C cargo compartment as independent compartments, but do not address one compartment that has two uses. The service compartment can be occupied and the Class C cargo compartment cannot. Further, fire fighting is dealt with differently in each compartment. The crew fights a fire in a service compartment and a flooding extinguisher system is used to fight a fire in a class C cargo compartment. The concept Boeing proposes may be acceptable if it can be assured that when the compartment is used for either function, a level of safety would be achieved that would be equivalent to compartment installations that are independent. Therefore, special conditions requiring warnings, limitations, and equipment installations are being proposed to achieve a level of safety that would allow a lower lobe compartment to be used as a service compartment or a class C cargo compartment when the aircraft is to be certificated in a similar configuration to that which Boeing proposes (*i.e.* forward lower lobe compartment with stair access, emergency escape routes, *etc.*).

**Type Certification Basis**

Under the provisions of § 21.101, the Boeing Commercial Airplane Group must show that the Model 747-400 series airplane, as changed, continues to meet the applicable provisions of the regulations incorporated by reference in Type Certificate A20WE or the applicable regulations in effect on the date of application for the change. The regulations incorporated by reference in the type certificate are commonly referred to as the "original type certification basis." The regulations incorporated by reference in Type Certificate A20WE for the Boeing Model 747-400 series airplanes include 14 CFR part 25, as amended by Amendments 25-1 through 25-70, with certain exceptions listed in the type data sheet. The U.S. type certification basis for the Boeing Model 747-400 series airplane is established in accordance with 14 CFR 21.17 and 21.21 and the type certification application date. The type certification basis is listed in Type Certificate Data Sheet No. A20WE.

If the Administrator finds that the applicable airworthiness regulations (*i.e.*, 14 CFR part 25) do not contain adequate or appropriate safety standards for the Boeing Model 747-400 series airplane because of a novel or unusual design feature, special conditions are

prescribed under the provisions of § 21.16.

In addition to the applicable airworthiness regulations and special conditions, the Boeing Model 747-400 series airplanes must comply with the fuel vent and exhaust emission requirements of 14 CFR part 34 and the noise certification requirements of 14 CFR part 36.

Special conditions, as defined in § 11.19, are issued in accordance with § 11.38 and become part of the type certification basis in accordance with § 21.101(b)(2).

Special conditions are initially applicable to the model for which they are issued. Should the applicant apply for a supplemental type certificate to modify any other model included on the same type certificate to incorporate the same novel or unusual design features, the special conditions would also apply to the other model under the provisions of § 21.101(a)(1).

#### Novel or Unusual Design Features

The Boeing Model 747-400 series airplane will incorporate the following novel or unusual design features: the forward lower lobe compartment will be used as a service area or a class C cargo compartment with certain combined features.

#### Discussion

The requirements listed in these proposed special conditions are developed to allow the use of the forward lower lobe as a service compartment and as a class C cargo compartment during flight conditions. To make this concept work, these proposed special conditions establish communication, warning, and personal safety requirements, because the existing requirements, §§ 25.819 versus 25.855, 25.857, and 25.858, are exclusive. As an example, to use the fire control system of a class C cargo compartment, the compartment must not be occupied, because the means of fire control is to flood the compartment with fire suppressant.

No provisions for satisfying regulatory requirements for occupancy of the forward lower lobe (service/cargo) compartment during taxi, takeoff, and landing are being proposed. Therefore, limitations for taxi, takeoff, and landing are being applied.

The approach to establishing requirements for a common compartment with two uses is to apply the existing requirements for a service compartment when used as a service compartment and for cargo compartments when used as a class C compartment, and to propose special

conditions where the rules are inadequate to address the functionality of both.

#### Proposed Special Condition 1

Currently, § 25.819 addresses a service compartment, which can be occupied, but does not need to be evacuated under certain normal conditions or under certain unsafe conditions (e.g., in the case of fire, the occupant could function as a firefighter). The class C cargo compartment requirements address a stand-alone cargo compartment that is not occupied; fire detection is automatic and suppression relies on a total flood system. To maintain the advantages of both a service compartment and a class C cargo compartment, certain warnings need to be addressed.

#### Proposed Special Condition 1(a)

Special Condition 1(a) would require a visual means in the cockpit to advise the flightcrew when the forward lower lobe (service/cargo) compartment is occupied. The potential exists that the forward lower lobe (service/cargo) compartment may inadvertently be occupied when it is not supposed to be, such as during taxi, takeoff and landing, or during certain emergency events. This requirement is proposed to ensure the flightcrew is aware of that situation and can take appropriate action to evacuate the forward lower lobe before flooding the compartment with fire suppressant agent. The advisory should be clear as to its intent, either by light with placard or lighted advisory message or equivalent.

#### Proposed Special Condition 1(b)

Special Condition 1(b) would require an "on/off" visual advisory/warning stating "Do Not Enter" (or similar words) to be located outside and on or near the entrance door from the main deck to the forward lower lobe (service/cargo) compartment. The advisory/warning is to be controlled from the flight deck. This is to prevent someone entering the forward lower lobe (service/cargo) compartment when it is not supposed to be occupied. Those conditions exist during taxi, takeoff and landing, and if smoke or fire is detected. Opening the door during a fire would, among other things, degrade the effectiveness of the fire suppressant and allow smoke, flame, and/or suppressant into the cabin.

#### Proposed Special Condition 1(c)

Special Condition 1(c) would require a visible and audible advisory/warning means in the forward lower lobe (service/cargo) compartment to notify

the occupant that the occupant must exit the forward lower lobe (service/cargo) compartment. To be effective, the visible and audible advisory/warning must be able to be seen and heard from any part of the compartment. The visible and audible advisory/warning is to be controlled from the flight deck. As the forward lower lobe (service/cargo) compartment may be occupied on the ground or in the air, a means must be provided to notify the occupant to exit the compartment prior to taxi, takeoff and landing, or during certain emergency conditions (other than fire, which is dealt with under Special Condition 1(e)). A visual advisory/warning is included in case the audible warning were to become masked or distorted by engine, equipment, or ground noises.

#### Proposed Special Condition 1(d)

Special condition 1(d) would require a means (visible and audible) to notify the occupant of the forward lower lobe (service/cargo) compartment of the need to put on supplemental oxygen equipment in the event of a decompression. As the occupant could be anywhere in the forward lower lobe (service/cargo) compartment, the means should be heard and be visible from anywhere in the forward lower lobe (service/cargo) compartment. Further, the warning should be distinct from other warnings in the forward lower lobe (service/cargo) compartment to prevent confusion and inappropriate action. An automatic decompression warning is proposed (*i.e.*, not requiring a separate crew action) to ensure that the forward lower lobe (service/cargo) compartment occupant does not delay putting on the oxygen equipment. This section of the special conditions is partially in lieu of the visual effect provided by the automatic presentation feature required by § 25.1447.

#### Proposed Special Condition 1(e)

Special Condition 1(e) would require a visible and audible means to warn the occupant of the forward lower lobe (service/cargo) compartment of the need to evacuate the forward lower lobe (service/cargo) compartment if a fire is detected. The means must be heard and be visible from anywhere in the forward lower lobe (service/cargo) compartment and must be distinct from other warnings in the forward lower lobe (service/cargo) compartment in order to prevent confusion and to elicit correct action. The fire/smoke detection warning in the forward lower lobe (service/cargo) compartment must be automatic (*i.e.*, not requiring or depending on a separate crew action), to

ensure that the occupant exits the forward lower lobe (service/cargo) compartment prior to the flight deck crew releasing the fire suppressant agent.

*Proposed Special Condition 2*

The lower lobe (service/cargo) compartment must be evacuated if a fire occurs. Further, a means must be provided to prevent access into the compartment during taxi, takeoff or landing, and in the event of a fire. Placards and limitations are proposed to assist in these situations.

*Proposed Special Condition 2(a)*

Special Condition 2(a) would require a placard to be located outside the forward lower lobe (service/cargo) compartment door to limit access to the forward lower lobe (service/cargo) compartment to one crewmember trained in evacuation means. The accommodations and emergency support equipment provided necessitate limiting access (*i.e.*, one seat, one oxygen bottle, one protective breathing device, one fire extinguisher, etc.).

*Proposed Special Condition 2(b)*

Special Condition 2(b) would require placards, located inside and outside the forward lower lobe (service/cargo) compartment door, stating that the compartment door must remain closed except when entering and leaving the compartment. The smoke/fire detection and suppression systems are certified with the door closed, and the door needs to remain closed to retain their certified characteristics and to be effective. In the event the single occupant falls asleep in the chair provided, the smoke alarm will still function and a warning will be provided to warn the occupant to exit the compartment.

*Proposed Special Condition 2(c)*

Special Condition 2(c) would require a limitation be placed in the airplane flight manual (AFM) and placards be posted inside and outside the forward lower lobe (service/cargo) compartment door, all stating that the forward lower lobe (service/cargo) compartment may not be occupied during taxi, takeoff, landing, or during a fire emergency. These placards are being specified because the compartment is not being certified as occupied during taxi, takeoff, and landing and because the cargo compartment must not be occupied during a fire so that the occupant is not exposed to the fire and suppressant. These placards are somewhat redundant to the advisory required under 1(b) and 1(c), but have

the benefit of the information being available to the occupant in the event the flightcrew fails to activate the advisory/warnings of 1(b) and 1(c).

*Proposed Special Condition 2(d)*

Special Condition 2(d), with respect to the forward lower lobe (service/cargo) compartment, would require the AFM supplement include flight deck crew instructions for: allowing access; procedures for fire/smoke/detection/fire fighting; procedures for decompression; and limitations prohibiting occupancy during taxi, takeoff, and landing. Further, this special condition would require that the weight and balance manual include cargo loading restrictions requiring cargo to be loaded and restrained in a manner so that escape paths are maintained. These proposals are to insure the single flight crewmember can safely access the cargo compartment during flight and exit safely during failure conditions.

*Proposed Special Condition 2(e)*

Because access is being provided to the forward lower lobe (service/cargo) compartment, there is a concern that, during flight, passengers may retrieve hazardous materials and weapons stored in luggage. Ideally, access could be prevented by locking the forward lower lobe (service/cargo) compartment and that is being proposed as one solution (proposed Special Condition 2(e)(1)). However, this airplane is being designed for private use, will have limited access, and will have placards limiting access. Further, there is notification to the flightcrew if the forward lower lobe (service/cargo) compartment is occupied (proposed Special Condition 1(a)). Therefore, as an alternative to locking the lower lobe (service/cargo) compartment, in addition to limiting access under proposed Special Conditions 2(a) and 2(d), prohibiting the airplane from being operated for hire, or offered for common carriage, is proposed (proposed Special Condition 2(e)(2)).

*Proposed Special Condition 3*

Special Condition 3 would require equipment in addition to that required by § 25.819.

*Proposed Special Condition 3(a)*

Special Condition 3(a) would require availability at all times of portable oxygen equipment sufficient to supply a crewmember who is allowed to occupy (except during taxi, takeoff and landing, and a fire) the forward lower lobe (service/cargo) compartment. It was first proposed that the oxygen bottle be stored inside the cargo compartment

near the seat, along with a portable extinguisher and a protective breathing device. Because the portable oxygen bottle would not be immediately available (a requirement of § 25.1447(c)(1)) in the event of rapid decompression, and it would not be advisable to provide drop-down masks in a cargo compartment or store a portable oxygen bottle in the compartment (even though the bottle would be afforded some protection), the FAA elected to propose that a portable oxygen bottle be mounted at the outside of the main deck entrance of the forward lower lobe (service/cargo) compartment, along with a placard that specifies that anyone entering the forward lower lobe (service/cargo) compartment during flight must carry portable oxygen equipment on their person for the entire time that they are in the compartment.

*Proposed Special Condition 3(b)*

Special Condition 3(b) would require at least one readily accessible hand-held fire extinguisher and one 15-minute protective breathing equipment device be located within the forward lower lobe (service/cargo) compartment adjacent to the seat. This proposal is to ensure the occupant has the means to exit the compartment if a fire occurs between the occupant and the exit.

*Proposed Special Condition 3(c)*

Special Condition 3(c) would require, in addition to the two evacuation route (including exit) requirements of § 25.819(a), a means to keep the evacuation routes clear. The cargo in the compartment should be restrained to ensure that the crewmember's paths to the exits are clear. Further, all entrances and exits from the forward lower lobe (service/cargo) compartment must be capable of being closed after exiting. In addition to the concern for cargo blocking the escape paths, there is the concern about hazardous quantities of smoke, flames, or fire suppressant agent entering any compartments occupied by passengers or crew and the concern about the loss of fire suppressant agent from the compartment during a fire. The forward lower lobe (service/cargo) compartment must be capable of being closed off because, after evacuation, it must comply with the requirements applicable to the class C cargo compartment, including §§ 25.855, 25.857, and 25.858.

*Proposed Special Condition 3(d)*

Special Condition 3(d) would require supplemental handheld lighting (with locator light) in the event the occupant is in the forward lower lobe (service/cargo) compartment and power to the

compartment or the emergency escape path lighting is off, or lost, or visibility is poor. At least two flashlights would be required. One flashlight would be located adjacent to the secondary emergency exit in the forward lower lobe (service/cargo) compartment at the foot of the stairs in the compartment. The other would be located adjacent to the seat in the forward lower lobe (service/cargo) compartment. Note that this proposal is in addition to the requirement for an automatic emergency lighting system required by § 25.819(a).

#### *Proposed Special Condition 4*

Special Condition 4 addresses training manuals and the training associated with the proposed special conditions above for:

(a) Use and actions associated with the warnings and placards of these proposed special conditions.

(b) Accessing and exiting the cargo forward lower lobe (service/cargo) compartment, including emergency exiting (includes those special conditions associated with Special Conditions 1(b), 1(c), 1(d), 1(e), 2(a), 2(b), 2(c), 2(d), and 3(b)).

(c) Checking the oxygen bottle's pressure for adequacy prior to entering the cargo compartment (associated with Special Condition 3(a)).

(d) Carrying the oxygen bottle when entering the forward lower lobe (service/cargo) compartment (associated with Special Condition 3(a)).

(e) Maintaining an exit path aisle and access to the evacuation routes (associated with Special Condition 3(c)).

#### *Proposed Special Condition 5*

Special Conditions 25-71-NW-3, which included criteria applicable to the stairs between the main deck and upper deck, were incorporated in the Model 747 series airplane certification basis on August 27, 1976. These special conditions have been reviewed, and sections 3(a)(1), 3(a)(2) and 3(a)(7) are proposed as applicable to the stair between the forward lower lobe (service/cargo) compartment and the main deck. These special conditions are renumbered and repeated as 5(a), 5(b), and 5(c).

#### **Applicability**

As discussed above, these special conditions are applicable to the Boeing Model 747-400 series airplane. Should Boeing Commercial Airplane Group apply at a later date for a supplemental type certificate to modify any other model included on Type Certificate A20WE to incorporate the same novel or unusual design features, the special conditions would apply to that model as

well under the provisions of § 21.101(a)(1).

Certification of the Boeing Model 747-400 series airplanes modified by Boeing Commercial Airplane Group, Wichita Division Designated Alteration Station, is currently scheduled for mid-June 2002. For this reason, and because a delay would significantly affect the applicant's installation of the system and certification of the airplane, the public comment period is being shortened to 30 days.

#### **Conclusion**

This action affects only certain novel or unusual design features on one Boeing Model 747-400 series airplane. It is not a rule of general applicability, and it affects only the applicant who applied to the FAA for approval of these features on the airplane.

#### **List of Subjects in 14 CFR Part 25**

Aircraft, Aviation safety, Reporting and record keeping requirements.

The authority citation for these special conditions is as follows:

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

#### **The Proposed Special Conditions**

Accordingly, the Federal Aviation Administration (FAA) proposes the following special conditions as part of the type certification basis for Boeing Model 747-400 airplanes modified by Boeing Commercial Airplane Group, Wichita Division Designated Alteration Station, with a forward lower lobe configured for use as a service compartment and a class C cargo compartment.

1. *Required Warnings* (in addition to fire/smoke detection and decompression aural warnings required in § 25.819(c)):

(a) There must be a visual means in the cockpit to advise the flightcrew when the forward lower lobe (service/cargo) compartment is occupied. The advisory light should be accompanied by a placard or message indicating someone is in the forward lower lobe (service/cargo) compartment.

(b) There must be an "on/off" visual advisory/warning stating "Do Not Enter" (or similar words) to be located outside and on or near the entrance door to the forward lower lobe (service/cargo) compartment. The advisory/warning is to be controlled from the flight deck.

(c) There must be a visible and audible advisory/warning means in the forward lower lobe (service/cargo) compartment to notify the occupant that the occupant must exit the forward lower lobe (service/cargo) compartment. The visible and audible warning must be seen and heard from any part of the

forward lower lobe (service/cargo) compartment. The visible and audible advisory/warning is to be controlled from the flight deck.

(d) A means (visible and audible) must be provided to notify the occupant of the forward lower lobe (service/cargo) compartment of the need to put on supplemental oxygen equipment in the event of a decompression. The means must be heard and be visible from anywhere in the forward lower lobe (service/cargo) compartment and be distinct from other warnings in the forward lower lobe (service/cargo) compartment. This decompression warning should be automatic (i.e., not requiring a separate crew action), to ensure that the forward lower lobe (service/cargo) compartment occupant does not delay putting on the oxygen equipment. This section of the special conditions is partially in lieu of the visual effect provided by the automatic presentation feature required by § 25.1447.

(e) A means (visible and audible) must be provided to warn the occupant of the forward lower lobe (service/cargo) compartment of the need to evacuate the forward lower lobe (service/cargo) compartment at fire detection. The means must be heard and be visible from anywhere in the forward lower lobe (service/cargo) compartment and be distinct from other warnings in the forward lower lobe (service/cargo) compartment. The fire/smoke detection warning in the forward lower lobe (service/cargo) compartment must be automatic (i.e., not requiring a separate crew action), to ensure that the occupant exits the forward lower lobe (service/cargo) compartment prior to the flight deck crew releasing fire suppressant agent.

2. *Required Placards and Limitations* (beyond those required in Part 25):

(a) There must be a placard located outside the forward lower lobe (service/cargo) compartment door limiting access to the forward lower lobe (service/cargo) compartment to one crewmember trained in evacuation means.

(b) There must be placards located inside and outside the forward lower lobe (service/cargo) compartment door stating that the forward lower lobe (service/cargo) compartment door must remain closed except when entering and leaving the compartment.

(c) A limitation must be placed in the airplane flight manual (AFM) supplement and placards must be posted inside and outside the forward lower lobe (service/cargo) compartment door, all stating that the forward lower lobe (service/cargo) compartment may

not be occupied during taxi, takeoff, landing, or during a fire emergency.

(d) With respect to the forward lower lobe (service/cargo) compartment, the AFM supplement must include flight deck crew instructions for: allowing access; procedures for fire/smoke/detection/fire fighting; procedures for decompression; limitations prohibiting occupancy during taxi, takeoff, and landing. The weight and balance manual must include cargo loading restrictions to maintain escape paths.

(e) A limitation must be placed in the AFM Supplement stating: "Carriage of hazardous material and/or weapons in the forward lower lobe (service/cargo) compartment is prohibited" unless:

(1) Access to the compartment is locked during flight and the key to the lock remains with the flight deck crew only; or

(2) The airplane is not operated for hire, or offered for common carriage. This provision does not preclude the operator from receiving remuneration to the extent consistent with 14 CFR part 125, 14 CFR part 91, and subpart F, as applicable.

3. *Required Equipment* (in addition to that required by § 25.819):

(a) There must be portable oxygen equipment available at all times sufficient to supply a crewmember who is allowed to occupy the forward lower lobe (service/cargo) compartment (except during taxi, takeoff and landing, and a fire). The equipment is to be mounted at the outside of the main deck entrance to the forward lower lobe (service/cargo) compartment along with a placard specifying that anyone entering the forward lower lobe (service/cargo) compartment during flight must carry portable oxygen equipment on his/her person for the entire time that he/she is in the forward lower lobe (service/cargo) compartment.

(b) At least one readily accessible hand-held fire extinguisher and one 15-minute protective breathing equipment (PBE) device must be located within the forward lower lobe (service/cargo) compartment adjacent to the seat.

(c) In addition to the two evacuation route (including exit) requirements of § 25.819(a), a means must be provided to keep the evacuation routes clear; *i.e.*, cargo in the compartment should be restrained to ensure that the crewmember's paths to the exits are clear. All entrances and exits from the forward lower lobe (service/cargo) compartment must be capable of being closed after entering and exiting and, after closing, must prevent hazardous quantities of smoke, flames, or fire suppressant agent from entering any compartments occupied by passengers

or crew and must prevent loss of fire suppressant agent during a fire.

(d) In addition to the emergency illumination required by § 25.829(a), there must be supplemental handheld lighting (with locator light) located within the forward lower lobe (service/cargo) compartment. At least two flashlights will be required. One flashlight must be located adjacent to the secondary emergency exit of the forward lower lobe (service/cargo) compartment. The other must be adjacent to the seat in the forward lower lobe (service/cargo) compartment.

4. *Training manuals and training must include:*

(a) Use and actions associated with warnings and placards specified herein.

(b) Accessing and exiting the cargo forward lower lobe (service/cargo) compartment, including emergency exiting.

(c) Checking the oxygen bottle's pressure for adequacy prior to entering the forward lower lobe (service/cargo) compartment.

(d) Carrying the oxygen bottle when entering the forward lower lobe (service/cargo) compartment.

(e) Maintaining exit path aisle and access for the evacuation routes.

5. *The stairway between the forward lower lobe (service/cargo) compartment and the main deck* (applicable portions excerpted from Special Conditions 25-71-NM-3 issued August 27, 1976) *must meet the following requirements:*

(a) The stairway must have essentially straight route segments with a landing at each significant change in segment direction.

(b) The stairs must have essentially rectangular treads.

(c) General illumination must be provided so that, when measured along the centerlines of each tread and landing, the illumination is not less than .05 foot-candle.

Issued in Renton, Washington, on June 17, 2002.

**Kalene C. Yanamura,**

*Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 2002-NM-24-AD]

RIN 2120-AA64

#### Airworthiness Directives; Boeing Model 747 Series Airplanes

**AGENCY:** Federal Aviation Administration, DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** This document proposes the superseding of an existing airworthiness directive (AD), applicable to certain Boeing Model 747 series airplanes, that currently requires inspection of the flap tracks of the wing trailing edge flaps for adequate cadmium plating and for corrosion of certain bolt holes of the fail-safe bar, and plating of such holes, if necessary. This new action would require post-modification inspections of certain bolt holes of the fail-safe bar of the flap tracks of the wing trailing edge flaps for discrepancies, and corrective actions, if necessary. This proposal is prompted by reports of corrosion and cracks found in certain bolt holes reworked according to the existing AD. The actions specified by the proposed AD are intended to find and fix discrepancies of the bolt holes, which could result in fracture of the flap track, separation of the flap, and consequent loss of control of the airplane. This action is intended to address the identified unsafe condition.

**DATES:** Comments must be received by August 15, 2002.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2002-NM-24-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056. Comments may be inspected at this location between 9 a.m. and 3 p.m., Monday through Friday, except Federal holidays. Comments may be submitted via fax to (425) 227-1232. Comments may also be sent via the Internet using the following address: 9-anm-nprmcomment@faa.gov. Comments sent via fax or the Internet must contain "Docket No. 2002-NM-24-AD" in the subject line and need not be submitted in triplicate. Comments sent via the Internet as attached electronic files must be formatted in Microsoft Word 97 for Windows or ASCII text.

The service information referenced in the proposed rule may be obtained from