Product class	Energy efficiency ratio (EER)
(B) Split-system rated cooling capacity equal to or greater than 45,000 Btu/hr	11.7 11.0

- (ii) Any outdoor unit model that has a certified combination with a rating below 14 SEER or the applicable EER cannot be installed in this region. The least efficient combination of each basic model must comply with this standard.
- (4) Each basic model of single-package central air conditioners and central air conditioning heat pumps and each individual combination of split-system central air conditioners and central air conditioning heat pumps manufactured on or after January 1, 2015, shall have an average off mode electrical power consumption not more than the following:

Product class	Average off mode power consumption P _{W,OFF} (watts)
(i) Split-system air conditioners	30
(ii) Split-system heat pumps (iii) Single-package air condi-	33
tioners(iv) Single-package heat	30
pumps(v) Small-duct, high-velocity	33
systems(vi) Space-constrained air	30
conditioners(vii) Space-constrained heat	30
pumps	33

[FR Doc. 2016–16441 Filed 7–13–16; 8:45 am] BILLING CODE 6450–01–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 25

[Docket No. FAA-2016-6136; Special Conditions No. 25-620-SC]

Special Conditions: American Airlines, Boeing 777–200 Series Airplanes; Dynamic Test Requirements for Single-Occupant Oblique (Side-Facing) Seats Equipped With Inflatable Lapbelts

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final special conditions; request

for comments.

SUMMARY: These special conditions are issued for the Boeing 777–200 series airplane. This airplane, as modified by American Airlines, will have novel or unusual design features when compared to the state of technology envisioned in the airworthiness standards for transport-category airplanes. These airplanes will include single-occupant oblique seats with inflatable lapbelts requiring dynamic testing. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for these design features. These 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: This action is effective on American Airlines on July 14, 2016. We must receive your comments by August 29, 2016.

ADDRESSES: Send comments identified by docket number FAA–2016–6136 using any of the following methods:

- Federal eRegulations Portal: Go to http://www.regulations.gov/and follow the online instructions for sending your comments electronically.
- *Mail:* Send comments to Docket Operations, M–30, U.S. Department of Transportation (DOT), 1200 New Jersey Avenue SE., Room W12–140, West Building Ground Floor, Washington, DC 20590–0001.
- Hand Delivery or Courier: Take comments to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.
- Fax: Fax comments to Docket Operations at 202–493–2251.

Privacy: The FAA will post all comments it receives, without change, to http://www.regulations.gov/, including any personal information the commenter provides. Using the search function of the docket Web site, anyone can find and read the electronic form of all comments received into any FAA docket, including the name of the individual sending the comment (or signing the comment for an association. business, labor union, etc.). DOT's complete Privacy Act Statement can be found in the Federal Register published on April 11, 2000 (65 FR 19477-19478), as well as at http://DocketsInfo.dot.

Docket: Background documents or comments received may be read at http://www.regulations.gov/ at any time. Follow the online instructions for accessing the docket or go to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. FOR FURTHER INFORMATION CONTACT: John Shelden, FAA, Airframe and Cabin Safety Branch, ANM–115, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue SW., Renton, Washington 98057–3356; telephone 425–227–2785; facsimile 425–227–1320.

SUPPLEMENTARY INFORMATION: The FAA has determined that notice of, and opportunity for prior public comment on, these special conditions is impracticable because these procedures would significantly delay issuance of the design approval and thus delivery of the affected airplanes.

In addition, the substance of these special conditions has been subject to the public comment process in several prior instances with no substantive comments received. The FAA therefore finds that good cause exists for making these special conditions effective upon publication in the **Federal Register**.

Comments Invited

We invite interested people to take part in this rulemaking by sending written comments, data, or views. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data.

We will consider all comments we receive by the closing date for comments. We may change these special conditions based on the comments we receive.

Background

On November 3, 2015, American Airlines applied for a supplemental type certificate for installation of TSO–C39c-approved B/E Aerospace Super Diamond model oblique business-class passenger seats in Boeing Model 777–200 series airplanes. The Model 777–200 airplane, approved under type certificate no. T00001SE, is a transport-category, twin-engine jet airplane with a maximum capacity of 440 passengers and a maximum takeoff weight of 535,000 lbs.

Type Certification Basis

Under the provisions of Title 14, Code of Federal Regulations (14 CFR) 21.101, American Airlines must show that the Boeing Model 777–200 series airplane, as changed, continues to meet the applicable provisions of the regulations listed in type certificate no. T00001SE, or the applicable regulations in effect on

the date of application for the change, except for earlier amendments as agreed upon by the FAA.

In addition, the certification basis includes certain special conditions, exemptions, or later amended sections of the applicable part that are not relevant to these special conditions.

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 777–200 series airplane because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

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 feature, these special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the Boeing Model 777–200 series airplane 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.

The FAA issues special conditions, as defined in 14 CFR 11.19, in accordance with § 11.38, and they become part of the type certification basis under § 21.101.

Novel or Unusual Design Features

The Boeing Model 777–200 series airplane will incorporate the following novel or unusual design features: Single-occupant oblique (side-facing) seats with inflatable lapbelts.

Discussion

Amendment 25–15 to part 25, dated October 24, 1967, introduced the subject of side-facing seats, and a requirement that each occupant in a side-facing seat must be protected from head injury by a safety belt and a cushioned rest that will support the arms, shoulders, head, and spine.

Subsequently, Amendment 25–20, dated April 23, 1969, clarified the definition of side-facing seats to require that each occupant of a seat that is positioned at more than an 18-degree angle to the vertical plane containing the airplane centerline must be protected from head injury by a safety belt and an energy-absorbing rest that supports the arms, shoulders, head, and spine; or by a safety belt and shoulder harness that prevents the head from contacting injurious objects. The FAA

concluded that a maximum 18-degree angle would provide an adequate level of safety based on tests that were performed at the time, and thus adopted that standard.

Amendment 25–64, dated June 16, 1988, revised the emergency-landing conditions that must be considered in the design of the airplane. It revised the static-load conditions in § 25.561 and added a new § 25.562, requiring dynamic testing for all seats approved for occupancy during takeoff and landing. The intent was to provide an improved level of safety for occupants on transport-category airplanes. Because most seating on transport-category airplanes is forward-facing, the pass/fail criteria developed in Amendment 25-64 focused primarily on forward-facing seats. Therefore, the testing specified in the rule did not provide a complete measure of occupant injury in seats that are not forward-facing. However, § 25.785 does require that occupants of all seats that are occupied during taxi, takeoff, and landing not suffer serious injury as a result of the inertia forces specified in §§ 25.561 and 25.562.

To address recent research findings and accommodate commercial demand, the FAA developed a methodology to address all fully side-facing seats (i.e., seats oriented in the airplane with the occupant facing 90 degrees to the direction of airplane travel) and has documented those requirements in a set of proposed new special conditions. The FAA issued policy statement PS-ANM-25-03-R1 on November 12, 2012, titled, "Technical Criteria for Approving Side-Facing Seats," which conveys the injury criteria to be used in the special conditions. Some of those criteria are applicable to oblique seats but others are not, because the motion of an occupant in an oblique seat is different from the motion of an occupant in a fully side-facing seat during emergency

landing conditions. For shallower installation angles, the FAA has granted equivalent level of safety (ELOS) findings for oblique-seat installations on the premise that an occupant's kinematics in an oblique seat during a forward impact would result in the body aligning with the impact direction. We predicted that the occupant response would be similar to an occupant of a forward-facing seat, and would produce a level of safety equivalent to that of a forward-facing seat. These ELOS findings were subject to many conditions that reflected the injury-evaluation criteria and mitigation strategies available at the time of issuance of the ELOS. However, review of dynamic test results for many of these oblique seat installations raised

concerns that the premise was not correct. Potential injury mechanisms exist that are unique to oblique seats and are not mitigated by the ELOS self-alignment approach even if the occupant appears to respond similarly to a forward-facing seat.

These seats will be installed at a maximum angle of 30 degrees to the aircraft centerline and will include an inflatable lapbelt restraint system for occupant restraint and injury protection.

The airbag in the inflatable lapbelt is designed to limit occupant forward excursion in the event of an emergency landing condition. This reduces the potential for head injury, thereby reducing the Head Injury Criteria (HIC) measurement. The use of an inflatable airbag in this fashion is novel for commercial aviation.

These 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.

Applicability

As discussed above, these special conditions are applicable to the Boeing Model 777–200 series airplane. Should American Airlines apply at a later date for a supplemental type certificate to modify any other model included on type certificate no. T00001SE, to incorporate the same novel or unusual design feature, these special conditions would apply to that model as well.

Conclusion

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

The substance of these special conditions has been subject to the public-comment process with no substantive comments received. It is unlikely that prior public comment would result in a significant change from the substance contained herein. Therefore, because a delay would significantly affect the certification of the airplane, the FAA has determined that prior public notice and comment are unnecessary and impracticable, and good cause exists for adopting these special conditions upon publication in the Federal Register. The FAA is requesting comments to allow interested persons to submit views that may not have been submitted in response to the prior opportunities for comment described above.

List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

The authority citation for these special conditions is as follows:

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

The Special Conditions

Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued as part of the type certification basis for Boeing Model 777–200 series airplanes modified by American Airlines.

In addition to the requirements of § 25.562:

1. Head-Injury Criteria

Compliance with § 25.562(c)(5) is required, except that, if the anthropomorphic test device (ATD) has no apparent contact with the seat/structure but has contact with an airbag, a HIC unlimited score in excess of 1000 is acceptable, provided the HIC15 score (calculated in accordance with 49 CFR 571.208) for that contact is less than

2. Body-to-Wall/Furnishing Contact

If a seat is installed aft of structure (e.g. interior wall or furnishings) that does not provide a homogenous contact surface for the expected range of occupants and yaw angles, then additional analysis and/or tests may be required to demonstrate that the injury criteria are met for the area which an occupant could contact. For example, if an airbag device is present, different yaw angles could result in different airbag-device performance, and additional analysis or separate tests may be necessary to evaluate performance.

3. Neck Injury Criteria

The seating system must protect the occupant from experiencing serious neck injury. If an airbag device is present, the assessment of neck injury must be conducted with the airbag device activated, unless there is reason to also consider that the neck-injury potential would be higher for impacts below the airbag-device deployment threshold.

- a. The N_{ij} (calculated in accordance with 49 CFR 571.208) must be below 1.0, where N_{ij} =F_z/F_{zc} + M_y/M_{yc} , and N_{ij} critical values are:
- i. F_{zc} = 1530 lb for tension ii. F_{zc} = 1385 lb for compression iii. M_{yc} = 229 lb-ft in flexion iv. M_{yc} = 100 lb-ft in extension

b. In addition, peak upper-neck F_z must be below 937 lb in tension and 899 lb in compression.

- c. Rotation of the head about its vertical axis, relative to the torso, is limited to 105 degrees in either direction from forward-facing.
- d. The neck must not impact any surface that would produce concentrated loading on the neck.
- 4. Spine and Torso Injury Criteria
- a. The lumbar spine tension (Fz) cannot exceed 1200 lb.
- b. Significant concentrated loading on the occupant's spine, in the area between the pelvis and shoulders during impact, including rebound, is not acceptable. During this type of contact, the interval for any rearward (X direction) acceleration exceeding 20g must be less than 3 milliseconds as measured by the thoracic instrumentation specified in 49 CFR part 572, subpart E, filtered in accordance with SAE International (SAE) Recommended Practice J211/1, "Instrumentation for Impact Test—Part 1—Electronic Instrumentation."
- c. The occupant must not interact with the armrest or other seat components in any manner significantly different than would be expected for a forward-facing seat installation.

5. Pelvis Criteria

Any part of the load-bearing portion of the bottom of the ATD pelvis must not translate beyond the edges of the seat bottom seat-cushion supporting structure.

6. Femur Criteria

Axial rotation of the upper leg (about the z-axis of the femur per SAE Recommended Practice J211/1) must be limited to 35 degrees from the nominal seated position. Evaluation during rebound does not need to be considered.

7. ATD and Test Conditions

Longitudinal tests conducted to measure the injury criteria above must be performed with the FAA Hybrid III ATD, as described in SAE 1999–01–1609, "A Lumbar Spine Modification to the Hybrid III ATD for Aircraft Seat Tests," V. Gowdy, et al. (1999). The tests must be conducted with an undeformed floor, at the most-critical yaw cases for injury, and with all lateral structural supports (e.g., armrests or walls) installed.

Note: In addition to these special conditions, the inflatable lapbelts must meet the criteria of special conditions no. 25–187A–SC, titled, "Boeing Model 777 Series Airplanes; Seats with Inflatable Lapbelts."

Issued in Renton, Washington, on July 7, 2016

Michael Kaszycki,

Assistant Manager, Transport Airplane Directorate, Aircraft Certification Service. [FR Doc. 2016–16639 Filed 7–13–16; 8:45 am] BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 71

[Docket No. FAA-2016-4429; Airspace Docket No. 16-ASW-8]

Amendment of Class E Airspace for the Following Louisiana Towns; De Quincy, LA; Minden, LA; Slidell, LA; and Revocation of Class E Airspace; Homer, LA

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This action modifies Class E airspace extending upward from 700 feet above the surface at De Quincy Industrial Airpark, De Quincy, LA; Minden Airport, Minden, LA; and Slidell, Airport, Slidell, LA. The decommissioning of non-directional radio beacons (NDB) and/or cancellation of NDB approaches due to advances in Global Positioning System (GPS) capabilities, and implementation of area navigation (RNAV) procedures have made this action necessary for the safety and management of Instrument Flight Rules (IFR) operations at these airports. This action also removes Class E airspace extending upward from 700 feet above the surface at Homer Municipal Airport, Homer, LA, as controlled airspace is no longer needed. Additionally, the name of Minden Airport (formerly Minden-Webster Airport) and the geographic coordinates at De Quincy Industrial Airpark, Minden Airport, and Slidell Airport are being adjusted to coincide with the FAA's aeronautical database.

DATES: Effective 0901 UTC, September 15, 2016. The Director of the Federal Register approves this incorporation by reference action under Title 1, Code of Federal Regulations, part 51, subject to the annual revision of FAA Order 7400.9 and publication of conforming amendments.

ADDRESSES: FAA Order 7400.9Z, Airspace Designations and Reporting Points, and subsequent amendments can be viewed online at http://www.faa.gov/air_traffic/publications/. For further information, you can contact the Airspace Policy Group, Federal Aviation