

location where the requirements of this AD can be accomplished.

Issued in Renton, Washington, on February 23, 2001.

**Donald L. Riggan,**

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

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 2000-NM-241-AD]

RIN 2120-AA64

#### **Airworthiness Directives; McDonnell Douglas Model DC-10-30 Series Airplanes Modified by Supplemental Type Certificate SA8452SW**

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

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

**SUMMARY:** This document proposes the adoption of a new airworthiness directive (AD) that is applicable to all McDonnell Douglas Model DC-10-30 series airplanes modified by supplemental type certificate SA8452SW. This proposal would require modification of the in-flight entertainment (IFE) system and revision of the Airplane Flight Manual and the Inflight Manual. This action is necessary to ensure that the flight crew is able to remove electrical power from the IFE system when necessary and is advised of appropriate procedures for such action. Inability to remove power from the IFE system during a non-normal or emergency situation could result in inability to control smoke or fumes in the airplane flight deck or cabin. This action is intended to address the identified unsafe condition.

**DATES:** Comments must be received by April 16, 2001.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2000-NM-241-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056. Comments may be inspected at this location between 9:00 a.m. and 3:00 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. 2000-NM-241-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 Continental Airlines, Inc., 600 Jefferson Street HQJAV, Houston, Texas 77002. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the FAA, Fort Worth Airplane Certification Office, 2601 Meacham Blvd., Fort Worth, Texas.

#### **FOR FURTHER INFORMATION CONTACT:**

Ingrid Knox, Aerospace Engineer, ASW-150, FAA, Fort Worth Airplane Certification Office, 2601 Meacham Blvd., Fort Worth, Texas 76137-4298; telephone (817) 222-5139; fax (817) 222-5960.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications shall identify the Rules Docket number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the proposed rule. The proposals contained in this action may be changed in light of the comments received.

Submit comments using the following format:

- Organize comments issue-by-issue. For example, discuss a request to change the compliance time and a request to change the service bulletin reference as two separate issues.
- For each issue, state what specific change to the proposed AD is being requested.
- Include justification (e.g., reasons or data) for each request.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments

submitted in response to this action must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 2000-NM-241-AD." The postcard will be date-stamped and returned to the commenter.

##### **Availability of NPRMs**

Any person may obtain a copy of this NPRM by submitting a request to the FAA, Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2000-NM-241-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056.

##### **Discussion**

The Federal Aviation Administration (FAA) recently completed a review of in-flight entertainment (IFE) systems certified by supplemental type certificate (STC) and installed on transport category airplanes. The review focused on the interface between the IFE system and airplane electrical system, with the objective of determining if any unsafe conditions exist with regard to the interface. STC's issued between 1992 and 2000 were considered for the review.

The type of IFE systems considered for review were those that contain video monitors (cathode ray tubes or liquid crystal displays; either hanging above the aisle or mounted on individual seat backs or seat trays), or complex circuitry (i.e., power supplies, electronic distribution boxes, extensive wire routing, relatively high power consumption, multiple layers of circuit protection, etc.). In addition, in-seat power supply systems that provide power to more than 20 percent of the total passenger seats were also considered for the review. The types of IFE systems not considered for review include systems that provide only audio signals to each passenger seat, ordinary in-flight telephone systems (e.g., one telephone handset per group of seats or bulkhead-mounted telephones), systems that only have a video monitor on the forward bulkhead(s) (or a projection system) to provide passengers with basic airplane and flight information, and in-seat power supply systems that provide power to less than 20 percent of the total passenger seats.

Items considered during the review include the following:

- Can the electrical bus(es) supplying power to the IFE system be deenergized when necessary without removing power from systems that may be required for continued safe flight and landing?
- Can IFE system power be removed when required without pulling IFE system circuit breakers? [i.e., is there a

switch (dedicated to the IFE system or a combination of loads) located in the flight deck or cabin that can be used to remove IFE power?]

- If the IFE system requires changes to flight crew procedures, has the airplane flight manual (AFM) been properly amended?
- If the IFE system requires changes to cabin crew procedures, have they been properly amended?
- Does the IFE system require periodic or special maintenance?

In all, approximately 180 IFE systems approved by STC were reviewed by the FAA. The review results indicate that potential unsafe conditions exist on some IFE systems installed on various transport category airplanes. These conditions can be summarized as:

- Electrical bus(es) supplying power to the IFE system cannot be deenergized when necessary without removing power from systems that may be required for continued safe flight and landing.
- Power cannot be removed from the IFE system when required without pulling IFE system circuit breakers (i.e., there is no switch dedicated to the IFE system or combination of systems for the purpose of removing power).
- Installation of the IFE system has affected crew (flight crew and/or cabin crew) procedures, but the procedures have not been properly revised.

**FAA’s Determination**

As part of its review of IFE systems, the FAA has determined that an unsafe condition exists on McDonnell Douglas Model DC-10-30 series airplanes modified by STC SA8452SW. The IFE system (an in-seat video system) on these airplanes is connected to an electrical bus that cannot be deenergized without also cutting power to airplane systems necessary for safe flight and landing. Also, there is no means available to the flight crew or cabin crew to remove power from the IFE system without pulling circuit breakers for the system, and the

Airplane Flight Manual and Inflight Manual do not provide instructions on how to remove power from the IFE system when responding to an emergency. This condition, if not corrected, could result in failure to remove power from the IFE system during a non-normal or emergency situation, and consequent inability to control smoke or fumes in the airplane flight deck or cabin.

**Explanation of Relevant Service Information**

The FAA has reviewed and approved Continental Airlines Top Drawing 2330DA11072, Revision B, dated September 15, 2000, which describes procedures for modifying the IFE system to incorporate a toggle switch and relay. Installation of the toggle switch will enable the cabin crew to remove power from the IFE system when necessary. Top Drawing 2330DA11072, Revision B, refers to the following Continental Airlines drawings as additional sources of information for accomplishment of the modification:

- 1100DB11064, Revision A, dated September 5, 2000;
- 2330DB11063, dated August 2, 2000;
- 2500DB11059, Revision A, dated August 18, 2000;
- 2330DB11073, Revision A, dated September 5, 2000;
- 2330DA11074, Revision A, dated September 5, 2000; and
- 2330DB11075, Revision A, dated September 5, 2000.

Top Drawing 2330DA11072, Revision B, also refers to Continental Airlines Engineering Change/Repair Authorizations (EC/RA) 2330-02334 and 2330-02335, both dated September 15, 2000. EC/RA 2330-02334 describes a revision to the “Electrical Fire or Smoke Source Unknown Checklist” in the Airplane Flight Manual, to alert the flight crew to the existence of the master power switch for the IFE system. EC/RA 2330-02335 describes revisions to the “Fires” section, “General Procedures”

paragraph, and “Smoke in the Cabin” section of the Inflight Manual to alert the flight crew and cabin crew to the existence of the master power switch for the IFE system and to ensure that the flight crew and cabin crew are informed of where to find and how to operate the switch.

Accomplishment of the actions specified in the drawings and EC/RA’s described previously is intended to adequately address the identified unsafe condition.

**Explanation of Requirements of Proposed Rule**

Since an unsafe condition has been identified that is likely to exist or develop on other products of this same type design, the proposed AD would require accomplishment of the actions specified in the drawings and EC/RA’s described previously.

**Calculation of Compliance Time**

In developing an appropriate compliance time for this action, the FAA considered not only the degree of urgency associated with addressing the subject unsafe condition, but the amount of time necessary to accomplish the proposed actions, the availability of necessary parts, and the practical aspect of accomplishing the proposed actions within an interval of time that parallels normal scheduled maintenance for the affected operator. In consideration of all of these factors, the FAA has determined that 18 months after the effective date of this AD represents an appropriate interval of time allowable wherein an acceptable level of safety can be maintained.

**Other Relevant Proposed Rulemaking**

This proposed action is one of a number of proposed AD’s on airplanes modified by STC’s that have been determined to be subject to similar unsafe conditions. Other currently proposed AD’s include the following airplanes and STC’s:

Model/Series	STC number	Docket number
Boeing 757-200 .....	SA1727GL	2000-NM-228-AD
McDonnell Douglas DC-9-51 and DC-9-83 .....	SA8026NM	2000-NM-229-AD
McDonnell Douglas DC-10-30 .....	ST00054SE	2000-NM-231-AD
Boeing 767-300 and 767-300ER .....	SA5765NM SA5978NM	2000-NM-232-AD
Boeing 767-300 .....	ST00157SE	2000-NM-233-AD
Boeing 747-100 and -200 .....	ST00196SE	2000-NM-234-AD

Model/Series	STC number	Docket number
Boeing 767-200 .....	SA5134NM	2000-NM-235-AD
Boeing 767-300 .....	ST00118SE	2000-NM-236-AD
Boeing 737-300 .....	ST00171SE	2000-NM-237-AD
Boeing 767-200 .....	SA4998NM-D	2000-NM-238-AD
Boeing 767-300 .....	SA7019NM-D	2000-NM-239-AD
Boeing 747-100 and -200 .....	SA8622SW	2000-NM-240-AD
Boeing 737-700 .....	ST09100AC-D ST09104AC-D ST09105AC-D ST09106AC-D	2000-NM-242-AD
Boeing 767-200 .....	ST09022AC-D	2000-NM-243-AD
Boeing 747SP .....	ST09097AC-D	2000-NM-244-AD
Boeing 747-400 .....	SA8843SW	2000-NM-245-AD
Airbus A340-211 .....	ST0902AC-D	2000-NM-246-AD

### Cost Impact

There are approximately 31 airplanes of the affected design in the worldwide fleet. The FAA estimates that 31 airplanes of U.S. registry would be affected by this proposed AD.

It would take approximately 16 work hours per airplane to accomplish the proposed modification, at an average labor rate of \$60 per work hour. Required parts would cost approximately \$2,000 per airplane. Based on these figures, the cost impact of the proposed modification on the affected U.S. operator is estimated to be \$91,760, or \$2,960 per airplane.

It would take approximately 1 work hour per airplane to accomplish the proposed manual revisions, at an average labor rate of \$60 per work hour. Based on these figures, the cost impact of the proposed manual revisions on the affected U.S. operator is estimated to be \$1,860, or \$60 per airplane.

The cost impact figures discussed above are based on assumptions that no operator has yet accomplished any of the proposed requirements of this AD action, and that no operator would accomplish those actions in the future if this proposed AD were not adopted. The cost impact figures discussed in AD rulemaking actions represent only the time necessary to perform the specific actions actually required by the AD. These figures typically do not include incidental costs, such as the time required to gain access and close up, planning time, or time necessitated by other administrative actions.

### Regulatory Impact

The regulations proposed herein would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government. Therefore, it is determined that this proposal would not have federalism implications under Executive Order 13132.

For the reasons discussed above, I certify that this proposed regulation (1) is not a "significant regulatory action" under Executive Order 12866; (2) is not a "significant rule" under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and (3) if promulgated, will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act. A copy of the draft regulatory evaluation prepared for this action is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption **ADDRESSES**.

### List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

### The Proposed Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

### PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

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

#### § 39.13 [Amended]

2. Section 39.13 is amended by adding the following new airworthiness directive:

**McDonnell Douglas:** Docket 2000-NM-241-AD.

*Applicability:* Model DC-10-30 series airplanes modified by supplemental type certificate (STC) SA8452SW; certificated in any category.

**Note 1:** This AD applies to each airplane identified in the preceding applicability provision, regardless of whether it has been otherwise modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

*Compliance:* Required as indicated, unless accomplished previously.

To ensure that the flight crew is able to remove electrical power from the in-flight entertainment (IFE) system when necessary and is advised of appropriate procedures for such action, accomplish the following:

#### Modification

(a) Within 18 months after the effective date of this AD, accomplish paragraphs (a)(1), (a)(2), and (a)(3) of this AD.

(1) Modify the IFE system to incorporate a master power switch and relay, in accordance with Continental Airlines Top Drawing 2330DA11072, Revision B, dated September 15, 2000.

(2) Revise the "Electrical Fire or Smoke Source Unknown Checklist" in the Airplane Flight Manual to alert the flight crew to the existence of the master power switch for the IFE system, in accordance with Continental Airlines Engineering Change/Repair Authorization (EC/RA) 2330-02334, dated September 15, 2000.

(3) Revise the "Fires" section, "General Procedures" paragraph, and "Smoke in the Cabin" section of the Inflight Manual to alert the flight crew and cabin crew to the existence of the master power switch for the IFE system and to inform the flight crew and cabin crew of where to find and how to operate the switch, in accordance with Continental Airlines EC/RA 2330-02335, dated September 15, 2000.

**Note 2:** Continental Airlines Top Drawing 2330DA11072, Revision B, refers to the following drawings as additional sources of information for accomplishment of the modification: 1100DB11064, Revision A, dated September 5, 2000; 2330DB11063, dated August 2, 2000; 2500DB11059, Revision A, dated August 18, 2000; 2330DB11073, Revision A, dated September 5, 2000; 2330DA11074, Revision A, dated September 5, 2000; and 2330DB11075, Revision A, dated September 5, 2000.

#### Spares

(b) As of the effective date of this AD, no person shall install an IFE system in accordance with STC SA8452SW on any airplane, unless it is modified and the applicable manuals are revised in accordance with this AD.

#### Alternative Methods of Compliance

(c) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Fort Worth Airplane Certification Office (ACO), FAA. Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Fort Worth ACO.

**Note 3:** Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Fort Worth ACO.

#### Special Flight Permits

(d) Special flight permits may be issued in accordance with §§ 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be accomplished.

Issued in Renton, Washington, on February 23, 2001.

#### Donald L. Riggins,

*Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.*  
[FR Doc. 01-4948 Filed 3-1-01; 8:45 am]

**BILLING CODE 4910-13-U**

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. 2000-NM-242-AD]

RIN 2120-AA64

#### **Airworthiness Directives; Boeing Model 737-700IGW Series Airplanes Modified by Supplemental Type Certificate ST09100AC-D, ST09104AC-D, ST09105AC-D, or ST09106AC-D**

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

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

**SUMMARY:** This document proposes the adoption of a new airworthiness directive (AD) that is applicable to all Boeing Model 737-700IGW series airplanes modified by supplemental type certificate ST09100AC-D, ST09104AC-D, ST09105AC-D, or ST09106AC-D. This proposal would require modifying the passenger entertainment system (PES) installed by those STC's and revising the Airplane Flight Manual. This action is necessary to ensure that the flight crew is able to remove electrical power from the PES when necessary and is advised of appropriate procedures for such action. Inability to remove power from the PES during a non-normal or emergency situation could result in inability to control smoke or fumes in the airplane flight deck or cabin. This action is intended to address the identified unsafe condition.

**DATES:** Comments must be received by April 16, 2001.

**ADDRESSES:** Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2000-NM-242-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056. Comments may be inspected at this location between 9:00 a.m. and 3:00 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. 2000-NM-242-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

Raytheon Systems Company, Intelligence Information and Aircraft Integration Systems, 7500 Maehre Road, Waco, Texas 76705. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the FAA, Fort Worth Airplane Certification Office, 2601 Meacham Blvd., Fort Worth, Texas.

**FOR FURTHER INFORMATION CONTACT:** Ingrid Knox, Aerospace Engineer, ASW-150, FAA, Fort Worth Airplane Certification Office, 2601 Meacham Blvd., Fort Worth, Texas 76137-4298; telephone (817) 222-5139; fax (817) 222-5960.

#### **SUPPLEMENTARY INFORMATION:**

##### **Comments Invited**

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