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:

99-18-04 Dornier Luftfahrt GMBH:

Amendment 39–11270. Docket 96–NM– 113–AD.

Applicability: Model 328–100 series airplanes, serial numbers 3005, 3008, 3009, and 3011 through 3079 inclusive; except airplanes on which Dornier Service Bulletin SB–328–53–184, Revision 1, dated July 2, 1997, has been accomplished; 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 prevent reduced structural integrity of the lower part of the main landing gear (MLG) fairing, and consequent separation of part of the fairing from the airplane and possible damgae to the airplane or injury to persons on the ground, accomplish the following:

Inspections and Repairs

(a) Within 300 hours time-in-service after the effective date of this AD, perform a visual inspection to detect cracking of the lower attachment flanges in the area of the bend radii of the forward and aft support beams of the MLG, in accordance with Dornier Alert Service Bulletin ASB-328-53-010, dated October 13, 1995.

(1) If no cracking is found, repeat the inspection thereafter at intervals not to exceed 300 hours time-in-service, until the actions required by either paragraph (a)(2)(iii) or (b) of this AD have been accomplished.

(2) If any cracking is found and the crack is less than 50 millimeters (1.97 inches) in length, accomplish paragraphs (a)(2)(i), (a)(2)(ii), and (a)(2)(iii) of this AD.

(i) Prior to further flight, accomplish stop drilling as a one-time temporary repair in accordance with the alert service bulletin.

(ii) Repeat the inspection thereafter at intervals not to exceed 300 hours time-inservice until accomplishment of paragraph (a)(2)(iii) of this AD. If any inspection reveals that the cracking has grown beyond the stop drilled area, prior to further flight, accomplish paragraph (a)(2)(iii) of this AD.

(iii) Within 6 months after the cracking is detected, accomplish the permanent repair in accordance with the alert service bulletin. Accomplishment of the permanent repair constitutes terminating action for the repetitive inspections required by this AD.

(3) If any crack is found and the crack is greater than or equal to 50 millimeters (1.97 inches) in length, prior to further flight, accomplish the permanent repair in accordance with the alert service bulletin. Accomplishment of the permanent repair constitutes terminating action for the repetitive inspections by this AD.

Terminating Modification

(b) Within 3,000 hours time-in-service after the effective date of this AD, install reinforcement parts for the longitudinal beam of the MLG, in accordance with Dornier Service Bulletin SB–328–53–184, Revision 1, dated July 2, 1997. Accomplishment of this installation constitutes terminating action for the requirements of 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, International Branch, ANM–116, FAA, Transport Airplane Directorate. Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, International Branch, ANM–116.

Note: 2: Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the International Branch, ANM–116.

Special Flight Permits

(d) Special flight permits may be issued in accordance with sections 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.

Incorporation by Reference

(e) The actions shall be done in accordance with Dornier Alert Service Bulletin ASB-328-53-010, dated October 13, 1995; and Dornier Service Bulletin SB-328-53-184. Revision 1, dated July 2, 1997. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Fairchild Dornier, Dornier Luftfahrt GmbH, P.O. Box 1103, D-82230 Wessling, Germany. Copies may be inspected at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the Office of the Federal Register, 800 North Capitol Street, NW., Suite 700, Washington, DC

Note 3: The subject of this AD is addressed in German airworthiness directives 95–413, dated November 2, 1995, and 97–073, dated March 27, 1997.

(f) This amendment becomes effective on October 6, 1999.

Issued in Renton, Washington, on August 23, 1999.

Vi L. Lipski,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service. [FR Doc. 99–22390 Filed 8–31–99; 8:45 am] BILLING CODE 4910–13–M

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 99-NM-111-AD; Amendment 39-11282; AD 99-18-16]

RIN 2120-AA64

Airworthiness Directives; Boeing Model 747–400, 757–200, 767–200, and 767–300 Series Airplanes

AGENCY: Federal Aviation Administration, DOT. **ACTION:** Final rule; request for comments.

SUMMARY: This amendment adopts a new airworthiness directive (AD) that is applicable to certain Boeing Model 747-400, 757–200, 767–200, and 767–300 series airplanes. This action requires repetitive checks to detect certain failures in the warning electronic unit (WEU) or modular avionic warning electronic assembly (MAWEA); repetitive tests to detect any failure of tactile, visual, or aural alert generated by the WEU or MAWEA; and corrective action, if necessary. This AD also provides for an optional terminating action for the repetitive checks and tests. This amendment is prompted by a report of a MAWEA power supply failure due to inadequate over-voltage protection. The actions specified in this AD are intended to detect and correct such a failure, which could result in loss of visual, aural, and tactile alerts to the flightcrew. Absence of such alerts could result in the flightcrew being unaware that an immediate or appropriate action should be taken in the event of an unsafe condition. DATES: Effective September 16, 1999.

The incorporation by reference of

certain publications listed in the regulations is approved by the Director of the Federal Register as of September 16, 1999.

Comments for inclusion in the Rules Docket must be received on or before November 1, 1999.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM–114, Attention: Rules Docket No. 99–NM– 111–AD, 1601 Lind Avenue, SW., Renton, Washington 98055–4056.

The service information referenced in this AD may be obtained from Boeing Commercial Airplane Group, P.O. Box 3707, Seattle, Washington 98124–2207. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

FOR FURTHER INFORMATION CONTACT: Sheila I. Mariano, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Transport Airplane Directorate, Seattle Aircraft Certification Office, 1601 Lind Avenue, SW., Renton, Washington 98055-4056; telephone (425) 227-2675; fax (425) 227-1181. SUPPLEMENTARY INFORMATION: The FAA has received a report that, during a production flight test of a Boeing Model 747–400 series airplane, the flight test group noticed a power supply failure on the status page of the engine indication and crew alerting system (EICAS). Investigation revealed that the automated bench test procedure for the modular avionic warning electronic assembly (MAWEA) overstressed the 5.7 volt over-voltage clamp circuit which resulted in the failure of the circuit to protect the warning cards in the MAWEA. A slow failure of the MAWEA power supply could result in the gradual degradation of available visual, aural, and tactile alerts. Absence of such alerts could result in the flightcrew not being aware and not taking immediate or appropriate action in the event of an unsafe condition (i.e., a fire, overspeed condition, autopilot disconnect, stall, not in takeoff configuration, or landing gear not extended).

The warning electronic unit (WEU) power supply units on certain Boeing 757–200, 767–200, and 767–300 series airplanes are identical to those on the MAWEA power supply on the affected Boeing Model 747–400 series airplanes. Therefore, all of these airplanes may be subject to the same unsafe condition.

Explanation of Relevant Service Information

The FAA has reviewed and approved Boeing Service Bulletins 747–31–2288, dated December 17, 1998, and Revision 1, dated January 28, 1999 (for Model 747–400 series airplanes); 757–31–0066, Revision 1, dated December 17, 1998 (for Model 757–200 series airplanes); and 767–31–0106, Revision 1, dated December 17, 1998 (for Model 767–200 and 767–300 series airplanes). These service bulletins describe procedures for replacement (including system functional tests) of the MAWEA or WEU power supply with a new power supply.

Explanation of the Requirements of the Rule

Since an unsafe condition has been identified that is likely to exist or develop on other Boeing Model 747-400, 757-200, 767-200, and 767-300 series airplanes of the same type design, this AD is being issued to detect and correct failure of the MAWEA or WEU, which could result in loss of any visual, aural, or tactile alert to the flightcrew when an unsafe condition exists. This AD requires repetitive checks of the status page on the EICAS display system for any MAWEA or WEU failure; repetitive system functional tests to detect the loss of any visual, aural, or tactile alert; and replacement of the MAWEA or WEU power supply with a new power supply, if necessary. This AD also provides for an optional terminating action for the repetitive checks and functional tests. The replacement, if accomplished, shall be accomplished in accordance with the service bulletins described previously.

Interim Action

This is considered to be interim action. The FAA may consider further rulemaking action to require the accomplishment of the optional terminating action currently specified in this AD. However, the proposed compliance time for accomplishment of that action is sufficiently long so that prior notice and time for public comment will be practicable.

Determination of Rule's Effective Date

Since a situation exists that requires the immediate adoption of this regulation, it is found that notice and opportunity for prior public comment hereon are impracticable, and that good cause exists for making this amendment effective in less than 30 days.

Comments Invited

Although this action is in the form of a final rule that involves requirements affecting flight safety and, thus, was not preceded by notice and an opportunity for public comment, comments are invited on this rule. Interested persons are invited to comment on this 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 under the caption ADDRESSES. All communications received on or before the closing date for comments will be considered, and this rule may be amended in light of the comments

received. Factual information that supports the commenter's ideas and suggestions is extremely helpful in evaluating the effectiveness of the AD action and determining whether additional rulemaking action would be needed.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the rule that might suggest a need to modify the 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 that summarizes each FAA-public contact concerned with the substance of this AD will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this rule must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 99–NM–111–AD." The postcard will be date stamped and returned to the commenter.

Regulatory Impact

The regulations adopted herein will not have substantial direct effects 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, in accordance with Executive Order 12612, it is determined that this final rule does not have sufficient federalism implications to warrant the preparation of a Federalism Assessment.

The FAA has determined that this regulation is an emergency regulation that must be issued immediately to correct an unsafe condition in aircraft, and that it is not a "significant regulatory action" under Executive Order 12866. It has been determined further that this action involves an emergency regulation under DOT **Regulatory Policies and Procedures (44** FR 11034, February 26, 1979). If it is determined that this emergency regulation otherwise would be significant under DOT Regulatory Policies and Procedures, a final regulatory evaluation will be prepared and placed in the Rules Docket. A copy of it, if filed, may be obtained from the Rules Docket at the location provided under the caption ADDRESSES.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration amends 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:

99–18–16 Boeing: Amendment 39–11282. Docket 99–NM–111–AD.

Applicability: Model 747–400 series airplanes, line numbers 1121 through 1177 inclusive; Model 757–200 series airplanes, line numbers 761 through 828 inclusive; and Model 767–200 and 767–3300 series airplanes, line numbers 668 through 723 inclusive; equipped with either a modular avionics warning electronic assembly (MAWEA) or a warning electronics unit (WEU) power supply, part number 285T0035–201; certificated in any category.

Note 1: This AD applies to each airplane identified in the preceding applicability provision, regardless of whether it has been 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 (f) 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 detect and correct failure of the MAWEA or WEU, which could result in a gradual degradation and eventual loss of visual, aural, or tactile alerts to the flightcrew, accomplish the following:

Model 747–400 Series Airplanes: Checks and Functional Tests

(a) For Model 747–400 series airplanes: Within 15 days after the effective date of this AD, check the status page of the engine indication and crew alerting system (EICAS) for any MAWEA failure; and perform the system functional tests required by paragraphs (a)(1), (a)(2), (a)(3), (a)(4), and (a)(5) of this AD to detect loss of any visual, aural, or tactile alert. Thereafter, repeat the EICAS status page check and the system functional tests before each flight.

Note 2: The following tests are an abbreviated version of Section 3, Work Instructions, of Boeing Service Bulletin 747–

31–2288, dated December 17, 1998, and Revision 1, dated January 28, 1999.

(1) Perform a takeoff (T/O) configuration warning test to check the T/O configuration warning card, master monitors A and B, and left and right aural synthesizer cards.

(i) Set the parking brake.(ii) Initiate the following central

maintenance computer (CMC) ground test— 31 indication/recording: T/O warning.

(iii) Verify that the left and right master warning lights (MWL) illuminate and the siren is heard from both the left and right speakers.

(2) Perform an altitude alert test to check the crew alert module.

(i) Verify the parking brake is still set. (ii) Set the selected altitude on the mode control panel (MCP) to approximately 400 feet above the current altitude.

(iii) Verify that the box around the current altitude on the altitude tape becomes bright white.

(iv) Set the selected altitude on the MCP to 10,000 feet.

(v) Verify the aural warning owl is not activated.

(3) Perform a stall warning test to check the left and right stall management module cards.

(i) Ensure that the air data computers (ADC) are operational.

(ii) Initiate the following CMC ground test—27 stall warning: Left.

 (iii) Verify that both stick shakers activate.
 (iv) Initiate the following CMC ground test—27 stall warning: Right.

(v) Verify that both stick shakers activate.

(4) Perform an autopilot (A/P) disconnect test to check the left and right clacker wailer card.

(i) Press and hold the A/P disconnect on either control wheel.

(ii) Verify the wailer aural is heard over the left and right speakers and MWL's.

(iii) Release the A/P disconnect switch.
(5) Perform a MAWEA card light emitting diode (LED) test per Airplane Maintenance Manual (AMM) task 31–51–00–715–014,
"MAWEA operational test," to verify that no

"MAWEA operational test," to verify that no red LED on the MAWEA circuit cards illuminate.

Note 3: The EICAS status page check and the system functional tests are considered maintenance functions that require airplane log book entree and maintenance release prior to flight.

Model 757–200, 767–200, and 767–300 Series Airplanes: Checks and Functional Tests

(b) For Model 757-200, 767-200, and 767-300 series airplanes: Within 15 days after the effective date of this AD, check the status page of the EICAS for any WEU failure; and perform the Work Instructions in Section 3, Part 1, of Boeing Service Bulletin 757–31-0066, Revision 1, dated December 17, 1998 (for Model 757-200 series airplanes); or Boeing Service Bulletin 767–31–0106. Revision 1, dated December 17, 1998 (for Model 767-200 and 767-300 series airplanes); as applicable; to detect loss of any visual, aural, or tactile alert. Thereafter, repeat the EICAS status page check and the Work Instructions in Section 3, Part 1 of the applicable service bulletin before each flight.

Note 4: The EICAS status page check and performance of the Work Instructions in Section 3, Part 1, of the applicable service bulletin are considered maintenance functions that require airplane log book entree and maintenance release prior to flight.

Corrective Action

(c) If any failure of the MAWEA or WEU. as applicable, or the loss of any visual, aural, or tactile alert is detected during any test required by either paragraph (a) or (b) of this AD, prior to further flight, replace the power supply of the MAWEA or WEU with a new power supply, P/N 285T0035-202 Mod A, in accordance with either Boeing Service Bulletin 747-31-2288, dated December 17, 1998, or Revision 1, dated January 28, 1999 (for Model 747-400 series airplanes); 757-31-0066, Revision 1, dated December 17, 1998 (for Model 757-200 series airplanes); or 767-31-0106, Revision 1, dated December 17, 1998 (for Model 767-200 and 767-300 series airplanes); as applicable. Accomplishment of this action constitutes terminating action for the repetitive inspection requirements of this AD.

Note 5: Page 59 of Boeing Service Bulletin 747–31–2288, Revision 1, dated January 28, 1999, incorrectly references the Boeing 767 AMM as the appropriate source of service information for accomplishment of the removal and installation of the power supply. However, the correct reference is the Boeing 747 AMM.

Spares

(d) As of the effective date of this AD, no person shall install a MAWEA or WEU power supply, part number 285T0035–201, on any airplane.

Optional Terminating Action

(e) Replacement of the power supply of the MAWEA or WEU with a new power supply, P/N 285T0035–202 Mod A, in accordance with Boeing Service Bulletin 747–31–2288, dated December 17, 1998, or Revision 1, dated January 28, 1999 (for Model 747–400 series airplanes); 757–31–0066, Revision 1, dated December 17, 1998 (for Model 757–200 series airplanes); or 767–31–0106, Revision 1, dated December 17, 1998 (for Model 767–200 series airplanes); a applicable; constitutes terminating action for the repetitive system functional tests and EICAS status page checks required by this AD.

Alternative Methods of Compliance

(f) 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, Seattle Aircraft Certification Office (ACO), FAA, Transport Airplane Directorate. Operators shall submit their requests through an appropriate FAA Principal Maintenance Inspector, who may add comments and then send it to the Manager, Seattle ACO.

Note 6: Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Manager, Seattle ACO.

Special Flight Permits

(g) Special flight permits may be issued in accordance with sections 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.

Incorporation by Reference

(h) The replacement, if accomplished, shall be done in accordance with Boeing Service Bulletin 747-31-2288, dated December 17, 1998, or Boeing Service Bulletin 747-31-2288, Revision 1, dated January 28, 1999; Boeing Service Bulletin 757-31-0066, Revision 1, dated December 17, 1998; or Boeing Service Bulletin 767-31-0106, Revision 1, dated December 17, 1998; as applicable. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Boeing Commercial Airplane Group, P.O. Box 3707, Seattle, Washington 98124-2207. Copies may be inspected at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(i) This amendment becomes effective on September 16, 1999.

Issued in Renton, Washington, on August 24, 1999.

Vi L. Lipski,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service. [FR Doc. 99–22532 Filed 8–31–99; 8:45 am] BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 99–NM–187–AD; Amendment 39–11283; AD 99–18–17]

RIN 2120-AA64

Airworthiness Directives; Boeing Model 737–100, –200, –300, –400, and –500 Series

Airplanes

AGENCY: Federal Aviation Administration, DOT. **ACTION:** Final rule; request for comments.

SUMMARY: This amendment adopts a new airworthiness directive (AD) that is applicable to all Boeing Model 737–100, –200, –300, –400, and –500 series airplanes. This action requires repetitive replacements of the airplane battery with a new or reconditioned battery, and for certain airplanes, replacement of the battery charger with a new or serviceable battery charger. This action also requires performing repetitive tests

to determine the condition of a certain diode of the Generator Control Units (GCU); and corrective actions, if necessary. This amendment is prompted by an incident during which all electrical power was lost due to a combination of a weak or depleted battery and the failure of a certain diode of the GCU. The actions specified in this AD are intended to prevent failure of all electrically powered airplane systems, which could result in the inability to continue safe flight and landing. DATES: Effective September 16, 1999.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of September 16, 1999.

Comments for inclusion in the Rules Docket must be received on or before November 1, 1999.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM–114, Attention: Rules Docket No. 99–NM– 187–AD, 1601 Lind Avenue, SW., Renton, Washington 98055–4056.

The service information referenced in this AD may be obtained from Boeing Commercial Airplane Group, P.O. Box 3707, Seattle, Washington 98124-2207. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC. FOR FURTHER INFORMATION CONTACT: Stephen S. Oshiro, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Transport Airplane Directorate, Seattle Aircraft Certification Office, 1601 Lind Avenue, SW., Renton, Washington 98055–4056; telephone (425) 227-2793; fax (425) 227-1181.

SUPPLEMENTARY INFORMATION: The FAA has received a report of an incident during which all electrical power was lost due to a combination of a weak or depleted battery and the failure of a certain diode of the GCU on a Boeing Model 737-200 series airplane. The electrical configuration of a Boeing Model 737–200 series airplane is similar in design to that of Boeing Model 737-100, -300, -400, and -500 series airplanes. Therefore, Boeing Model 737-100, -300, -400, and -500 series airplanes maybe subject to the same unsafe condition revealed on the Model 737-200 series airplane. The report revealed that, during an approach for landing, all electrical power was lost while the flight crew attempted a routine, in-flight start of the Auxiliary Power Unit (APU).

Following from that incident, an assessment of airplane battery maintenance was conducted, which resulted in the determination that some operators have extended the maintenance intervals beyond those recommended by the manufacturer. Such extended maintenance intervals increase the likelihood of allowing an airplane to operate with a weak or depleted airplane battery. The risk of a weak or depleted battery is greater on Model 737-100 and -200 series airplanes than the Model 737-300, -400 and -500 series airplanes because some of these airplanes utilize an older version of a battery charger. This older version of a battery charger has charging characteristics (overcharges and dries out the battery) that are not compatible with the extended airplane battery maintenance intervals. Additionally, certain diodes of the GCU have exhibited a susceptibility to shortcircuit failure. The cause of these failures is under investigation.

If an attempt is made to start the APU during flight with a weak or depleted battery, and a short-circuit failure of a certain diode of the GCU has occurred, all electrical power could be lost for all airplane systems. Such failure could result in the inability to continue safe flight and landing.

Explanation of Relevant Service Information

The FAA has reviewed and approved Boeing Telex Message M–7200–99– 01528, dated March 5, 1999, which describes procedures for performing repetitive tests to determine the condition of a certain diode of the GCU; and corrective actions, if necessary. The corrective actions include replacement of any GCU with a new or serviceable GCU if a failed diode is detected, and for certain conditions, replacement of the airplane battery with a new or reconditioned airplane battery.

The FAA also has reviewed and approved Boeing 737 Airplane Maintenance Manual (AMM) Chapters 20–10–111 and 24–31–11. These service documents describe the following: • AMM 20–10–111: For Model 737–

• AMM 20–10–111: For Model 737– 100 and –200 series airplanes, this AMM describes procedures for removal and installation of black box units. For these airplane models, the airplane battery charger is considered to be a black box unit.

• AMM 24–31–11: For all Model 737– 100, –200, –300, –400, and –500 series airplanes this AMM describes procedures for removal and installation of the airplane battery with a new or reconditioned airplane battery. Additionally, the AMM describes