NUCLEAR REGULATORY COMMISSION

10 CFR Part 52
[NRC–2015–0021]

Korea Electric Power Corporation; Korea Hydro & Nuclear Power Co., Ltd. Advanced Power Reactor 1400

AGENCY: Nuclear Regulatory Commission.

ACTION: Standard design approval; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) has issued a standard design approval (SDA) to Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd (KEPCO/KHNP) for the advanced power reactor 1400 (APR1400) standard design. The SDA allows the APR1400 standard design to be referenced in an application for a construction permit or operating license, or an application for a combined license or manufacturing license under its regulations.

DATES: The Standard Design Approval was issued on September 28, 2018.

ADDRESSES: Please refer to Docket ID NRC–2015–0021 when contacting the NRC about the availability of information regarding this document. You may obtain publicly-available information related to this document using any of the following methods:

- Federal Rulemaking Website: Go to http://www.regulations.gov and search for Docket ID NRC–2015–0021. Address questions about Docket IDs in Regulations.gov to Jennifer Borges; telephone: 301–287–9127; email: Jennifer.Borges@nrc.gov. For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.
- NRC’s Agencywide Documents Access and Management System (ADAMS): You may obtain publicly-available documents online in the ADAMS Public Documents collection at http://www.nrc.gov/reading-rm/adams.html. To begin the search, select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1–800–397–4209, 301–415–4737, or by email to pdr.resource@nrc.gov. The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.
- NRC’s PDR: You may examine and purchase copies of public documents at the NRC’s PDR, Room O1–F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.


SUPPLEMENTARY INFORMATION: The U.S. Nuclear Regulatory Commission has issued a standard design approval (SDA) to Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd (KEPCO/KHNP) for the advanced power reactor 1400 (APR1400) standard design under Subpart E, “Standard Design Approvals,” of title 10 of the Code of Federal Regulations (10 CFR) part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants.” This SDA allows the APR1400 standard design to be referenced in an application for a construction permit or operating license under 10 CFR part 50, “Domestic Licensing of Production and Utilization Facilities,” or an application for a combined license or manufacturing license under 10 CFR part 52. In addition, the Commission has issued the final safety evaluation report (FSER) (ADAMS Accession No. ML18087A364) that supports issuance of the SDA.

Issuance of this SDA signifies completion of the NRC staff’s technical review of KEPCO/KHNP’s APR1400 design. The NRC staff performed its technical review of the APR1400 design control document in accordance with the standards for review of standard design approval applications set forth in 10 CFR 52.139, “Standards for Review of Applications.”

On the basis of its evaluation and independent analyses, as described in the FSER, the NRC staff concludes that KEPCO/KHNP’s application for standard design approval meets the applicable portions of 10 CFR 52.137, “Content of Applications; Technical Information,” and the review standards identified in 10 CFR 52.139.

Copies of the APR1400 FSER and SDA have been placed in the NRC’s Public Document Room, One White Flint North, 11555 Rockville Pike, Rockville, MD 20852, for review and copying by interested persons.

Dated at Rockville, Maryland, this 5th day of October 2018.

For the Nuclear Regulatory Commission.

Andrew C. Campbell,
Deputy Director, Division of Licensing, Siting, and Environmental Analysis, Office of New Reactors.

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

RIN 2120–AA64

Airworthiness Directives; The Boeing Company Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for all The Boeing Company Model 737 airplanes, excluding Model 737–100, –200, –200C, –300, –400, and –500 series airplanes; all Model 757–200, –200PF, –200CB, and –300 series airplanes; and all Model 767–200, –300, –300F, and –400ER series airplanes. This AD was prompted by reports of latently failed motor-operated valve (MOV) actuators of the fuel shutoff valves. This AD requires replacing certain MOV actuators of the fuel shutoff valves for the left and right engines (on certain airplanes) and of the auxiliary power unit (APU) fuel shutoff valve (on Model 757 and Model 767 airplanes); and revising the maintenance or inspection program to incorporate certain airworthiness limitations (AWLs). We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective November 15, 2018.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of November 15, 2018.


Examining the AD Docket

You may examine the AD docket on the internet at http://www.regulations.gov by searching for
and locating Docket No. FAA–2017–0127; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the regulatory evaluation, any comments received, and other information. The address for Docket Operations (phone: 800–647–5527) is Docket Operations, U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT: Takahisa Kobayashi, Aerospace Engineer, Propulsion Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3533; email: Takahisa.Kobayashi@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all The Boeing Company Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes; Model 757 airplanes; and Model 767 airplanes. The NPRM published in the Federal Register on March 9, 2017 (82 FR 13073). The NPRM was prompted by reports of latently failed MOV actuators of the fuel shutoff valves. The NPRM proposed to require replacing certain MOV actuators of the fuel shutoff valves for the left and right engines (on all airplanes) and of the APU fuel shutoff valve (on Model 757 and Model 767 airplanes); and revising the maintenance or inspection program, as applicable, to incorporate certain AWLs.

We subsequently issued a supplemental NPRM (SNPRM) to amend 14 CFR part 39 by adding an AD that would apply to all Model 737 airplanes, excluding Model 737–100, –200, –200C, –300, –400, and –500 series airplanes; and all Model 757 and 767 airplanes. The SNPRM published in the Federal Register on April 3, 2018 (83 FR 14207). The SNPRM proposed to add Model 737–8 airplanes and future Model 737 airplanes to the applicability.

We are issuing this AD to address a latent failure of the actuator for the engine or APU fuel shutoff valves, which could result in the inability to shut off fuel to the engine or the APU, and, in case of certain engine or APU fires, could result in structural failure.

Comments

We gave the public the opportunity to participate in developing this final rule. The following presents the comments received on the SNPRM and the FAA’s response to each comment.

Request To Exclude Model 737–8 and Future Model 737

Boeing requested that we revise the proposed AD (in the SNPRM) to exclude Model 737–8 airplanes and future Model 737 airplanes, because MOV actuator part number MA30A1017 (Boeing P/N S343T003–76) is the only certified MOV actuator for use on any future Model 737 airplanes as documented in the drawings and Illustrated Parts Catalog (IPC). The commenter stated that using airworthiness limitations to prohibit the use of parts with AD restrictions on one minor model series (Model 737 next generation (NG) airplanes) from being used on a different minor model series (Model 737–8 and future Model 737 airplanes) does not allow the use of the restricted parts is unnecessary and implies that certified configurations and ADs can be overridden via an Advisory Circular (AC) or other means.

We disagree with the commenter’s request. The MOV actuator currently allowed on Model 737–8 and 737–9 airplanes, part number MA30A1017 (Boeing P/N S343T003–76), is the only part number certificated on those models, as documented in the manufacturer’s drawings. However, manufacturer’s proprietary drawings are not readily available to all affected operators, and there is no prohibition against installing MOV actuator part numbers that were determined unsafe in this AD. We have been informed by operators that the practice of rotating physically interchangeable parts among airplanes is widespread, and even a key part of their operations. In the absence of an AD or AWL that restricts the installation of the affected parts, we cannot be assured that the unsafe condition will not be introduced to Model 737–8, 737–9, and future Model 737 airplanes. In addition, ACs are advisory in nature and do not include mandatory action. Therefore, ACs cannot prohibit the installation of unsafe equipment, and they do not take precedence over ADs. In addition, the practice of rotating parts is widespread, and revising the AC will not improve the situation in a timely manner. Certain MOV actuator part numbers have been identified to be unsafe for installation at certain locations. Since those part numbers continue to be available and acceptable for installation at certain other locations, we consider the use of AWLs to prohibit specific parts installation to be a reasonable way to address the safety concern in a timely manner. We have not changed this AD regarding this issue.

Request To Clarify Affected Part Numbers

FedEx requested that we revise paragraphs (h)(2) and (h)(3) of the proposed AD (in the SNPRM) to state that no replacement is necessary if the MOV actuator part number is one of the following alternative part numbers: AV–31–1 (Boeing P/N S343T003–111), MA11A1265 (Boeing P/N S343T003–14), or MA11A1265–1 (Boeing P/N S343T003–41). FedEx stated that the service information specified in paragraphs (h)(2) and (h)(3) of the proposed AD (in the SNPRM) explicitly state that those alternative MOV actuator part numbers are acceptable substitutes for P/N MA30A1017 (Boeing P/N S343T003–76).

We disagree with the commenter’s request. However, we agree to clarify the requirements of paragraphs (h)(2) and (h)(3) of this AD. Paragraphs (h)(2) and (h)(3) of this AD require replacement of MOV actuator P/N MA20A2027 (Boeing P/N S343T003–56) and P/N MA30A101 (Boeing P/N S343T003–66) with an acceptable MOV actuator part number. Those paragraphs do not state or imply that MOV actuator P/N AV–31–1 (Boeing P/N S343T003–111), P/N MA11A1265 (Boeing P/N S343T003–14), or P/N MA11A1265–1 (Boeing P/N S343T003–41) must be replaced. Therefore, we consider that adding the unmanageable, and that identifying parts that are acceptable for a given airplane and installation position is a more explicit and manageable approach. Boeing added that the use of AWLs to prohibit AD-driven part installations is unnecessary and implies that certified configurations and ADs can be overridden via an AC or other means.

We disagree with the commenter’s request. The FAA is currently considering revising AC 120–77 to help prevent the rotation of parts as a minor alteration. However, ACs are advisory in nature and do not include mandatory actions. Therefore, ACs cannot prohibit the installation of unsafe equipment. and they do not take precedence over ADs. In addition, the practice of rotating parts is widespread, and revising the AC will not improve the situation in a timely manner. Certain MOV actuator part numbers have been identified to be unsafe for installation at certain locations. Since those part numbers continue to be available and acceptable for installation at certain other locations, we consider the use of AWLs to prohibit specific parts installation to be a reasonable way to address the safety concern in a timely manner. We have not changed this AD regarding this issue.

Request To Remove Requirement To Revise Maintenance Program

Boeing requested that we remove paragraph (j) of the proposed AD and revise FAA AC 120–77 or other applicable advisory material to preclude installation of equipment that both Boeing and the FAA have determined cause a potential safety issue, against certified configurations. Boeing suggested that parts that are not approved for use on a given model sets a precedent that can become
program revision, we have determined that this action takes an average of 90
work-hours per operator, although we recognize that this number may vary
from operator to operator. In the past,
we have estimated that this action takes 1 work-hour per airplane. Since operators incorporate maintenance or inspection program changes for their affected fleets, we have determined that a per-operator estimate is more accurate than a per-airplane estimate. Therefore, we estimate the total cost per operator to be $7,650 (90 work-hours × $85 per work-hour).

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency’s authority.

We are issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: “General requirements.” Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

This AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division. But, during this transition period, the Executive Director has delegated the authority to issue ADs applicable to transport category airplanes and associated appliances to the Director of the System Oversight Division.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will 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.

For the reasons discussed above, I certify that this AD:
(1) Is not a “significant regulatory action” under Executive Order 12866,
(2) Is not a “significant rule” under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
(3) Will not affect intrastate aviation in Alaska, and
(4) 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.

List of Subjects in 14 CFR Part 39

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

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

§ 39.13 [Amended]

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. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

2018–20–13 The Boeing Company:


(a) Effective Date

This AD is effective November 15, 2018.

(b) Affected ADs


(c) Applicability

This AD applies to all The Boeing Company airplanes, certificated in any category, identified in paragraphs (c)(1), (c)(2), and (c)(3) of this AD.

(1) Model 737 airplanes, excluding Model 737–700, –700C, –800, –900, and –900ER series airplanes on which any MOV actuator having P/N MA20A2027 or P/N MA30A1001 is found during the inspection if the part number of the MOV actuator at each location can be conclusively determined from that review.

(2) For airplanes identified in paragraphs (c)(2) and (c)(3) of this AD: Within 8 years after the effective date of this AD, do an inspection to determine the part numbers of the MOV actuators of the fuel shutoff valves for the left and right engines, and of the APU fuel shutoff valve, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757–28–0138, Revision 1, dated June 19, 2017 (“SB 757–28–0138 R1”); or Boeing Service Bulletin 767–28–0115, Revision 1, dated June 2, 2016 (“SB 767–28–0115 R1”); as applicable. A review of airplane maintenance records is acceptable in lieu of this inspection if the part number of the MOV actuator at each location can be conclusively determined from that review.

(d) Replacement

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes on which any MOV actuator having P/N MA20A2027 or P/N MA30A1001 is found during the inspection if the part number of the MOV actuator at each location can be conclusively determined from that review.

(e) Unsafe Condition

This AD was prompted by reports of engine or APU fires, which could result in the inability to shut off fuel to the engine or the APU, and, in case of certain engine or APU fires, could result in structural damage. We are issuing this AD to prevent a latent failure of the actuator for the engine or auxiliary power unit (APU) fuel shutoff valves, which could result in the inability to shut off fuel to the engine or the APU, and, in case of certain engine or APU fires, could result in structural failure in Alaska.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Inspection To Determine Part Number (P/N)

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: Within 8 years after the effective date of this AD, do an inspection to determine the part numbers of the MOV actuators of the fuel shutoff valves for the left and right engines, and of the APU fuel shutoff valve, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757–28–0138, Revision 1, dated June 19, 2017 (“SB 757–28–0138 R1”); or Boeing Service Bulletin 767–28–0115, Revision 1, dated June 2, 2016 (“SB 767–28–0115 R1”); as applicable. A review of airplane maintenance records is acceptable in lieu of this inspection if the part number of the MOV actuator at each location can be conclusively determined from that review.

(2) For airplanes identified in paragraphs (c)(2) and (c)(3) of this AD: Within 8 years after the effective date of this AD, do an inspection to determine the part numbers of the MOV actuators of the fuel shutoff valves for the left and right engines, and of the APU fuel shutoff valve, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757–28–0138, Revision 1, dated June 19, 2017 (“SB 757–28–0138 R1”); or Boeing Service Bulletin 767–28–0115, Revision 1, dated June 2, 2016 (“SB 767–28–0115 R1”); as applicable. A review of airplane maintenance records is acceptable in lieu of this inspection if the part number of the MOV actuator at each location can be conclusively determined from that review.
AV–31–1 (Boeing P/N S343T003–111), or P/N MA11A1265–1 (Boeing P/N S343T003–41), in accordance with the Accomplishment Instructions of SB 757–28–0138 R1. Where SB 757–28–0138 R1 specifies the installation of a new MOV actuator, this AD allows the installation of a new or serviceable MOV actuator. While not required by this AD, the Accomplishment Instructions specified in SB 757–28–0138 R1 for replacing MOV actuators having Boeing P/N S343T003–66 or Boeing P/N S343T003–66 may be used for replacing MOV actuators having P/N MA20A1001–1 (Boeing P/N S343T003–39).

(3) For airplanes identified in paragraph (c)(3) of this AD on which any MOV actuator having P/N MA20A2027 (Boeing P/N S343T003–56) or P/N MA30A1001 (Boeing P/N S343T003–66) is found during the inspection required by paragraph (g)(2) of this AD: Within 8 years after the effective date of this AD, replace each affected MOV actuator with an MOV actuator having P/N MA30A1017 (Boeing P/N S343T003–76), P/N AV–31–1 (Boeing P/N S343T003–111), P/N MA11A1265 (Boeing P/N S343T003–14), or P/N MA11A1265–1 (Boeing P/N S343T003–41), in accordance with the Accomplishment Instructions of SB 757–28–0115 R1. Where SB 757–28–0115 R1 specifies the installation of a new MOV actuator, this AD allows the installation of a new or serviceable MOV actuator. While not required by this AD, the Accomplishment Instructions specified in SB 757–28–0115 R1, for replacing MOV actuators having Boeing P/N S343T003–66 or Boeing P/N S343T003–66 may be used for replacing MOV actuators having P/N MA20A1001–1 (Boeing P/N S343T003–39).

(i) Maintenance or Inspection Program

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes with an original certificate of airworthiness or original export certificate of airworthiness issued on or before the effective date of this AD: Prior to or concurrently with the actions required by paragraph (h)(1) of this AD or within 30 days after the effective date of this AD, whichever is later, revise the maintenance or inspection program as applicable, to add the airworthiness limitations (AWLs) specified in paragraphs (i)(1)(i), (i)(1)(ii), and (i)(1)(iii) of this AD. The initial compliance time for accomplishing the actions required by AWL No. 28–AWL–24 is within 6 years since the most recent inspection was performed in accordance with AWL No. 28–AWL–24, or within 6 years since the actions specified in Boeing Alert Service Bulletin 737–28A1207 were accomplished, whichever is later.


(2) For airplanes identified in paragraph (c)(2) of this AD: Prior to or concurrently with the actions required by paragraph (h)(2) of this AD, revise the maintenance or inspection program, as applicable, to add the AWLs specified in paragraphs (i)(2)(i), (i)(2)(ii), and (i)(2)(iii) of this AD. The initial compliance time for accomplishing the actions required by AWL No. 28–AWL–25 is within 6 years since the most recent inspection was performed in accordance with AWL No. 28–AWL–25, or within 6 years since the actions specified in Boeing Alert Service Bulletin 737–28A0088 were accomplished, whichever is later.

(i) AWL No. 28–AWL–23, Motor Operated Valve (MOV) Actuator—Lightning and Fault Current Protection Electrical Bond, as specified in Boeing 757 Maintenance Planning Data (MPD) Document, Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs), D622N001–9, Revision May 2018.

(ii) AWL No. 28–AWL–24, MOV Actuator—Electrical Design Feature, as specified in Boeing 757 Maintenance Planning Data (MPD) Document, Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs), D622N001–9, Revision May 2018.

(iii) AWL No. 28–AWL–25, Motor Operated Valve (MOV) Actuator—Lightning and Fault Current Protection Electrical Bond, as specified in Boeing 757 Maintenance Planning Data (MPD) Document, Section 9, Airworthiness Limitations (AWLs) and Certification Maintenance Requirements (CMRs), D622N001–9, Revision May 2018.

(j) Maintenance or Inspection Program

Revision for Parts Installation Prohibition

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: After accomplishing the actions required by paragraphs (g)(1), (h)(1), and (i)(1) of this AD, as applicable, on all airplanes in an operator’s fleet, and within 8 years after the effective date of this AD, revise the maintenance or inspection program, as applicable, by incorporating the AWL specified in figure 1 to paragraph (j)(1) of this AD.
Figure 1 to Paragraph (j)(1) of this AD –
AWL for Model 737-600, -700, -700C, -800, -900, and -900ER series airplanes

<table>
<thead>
<tr>
<th>AWL No.</th>
<th>Applicability</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28-AWL-MOVA</td>
<td>All</td>
<td>Motor Operated Valve (MOV) Actuator - Prohibition of Installation of Specific Part Numbers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Installation of MOV actuator part number (P/N) MA30A1001 (Boeing P/N S343T003-66) and P/N MA20A2027 (Boeing P/N S343T003-56) is prohibited at the following positions:</td>
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<td></td>
<td></td>
<td>1. Left engine fuel shutoff spar valve position</td>
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<tr>
<td></td>
<td></td>
<td>2. Right engine fuel shutoff spar valve position</td>
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</tbody>
</table>

(2) For airplanes identified in paragraph (c)(2) of this AD: After accomplishing the actions required by paragraphs (g)(2), (h)(2), and (i)(2) of this AD, as applicable, on all airplanes in an operator’s fleet, and within 8 years after the effective date of the AD, revise the maintenance or inspection program, as applicable, by incorporating the AWL.

Figure 2 to Paragraph (j)(2) of this AD –
AWL for airplanes identified in paragraph (c)(2) of this AD

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<td></td>
<td>2. Right engine fuel shutoff spar valve position</td>
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<tr>
<td></td>
<td></td>
<td>3. APU fuel shutoff valve position</td>
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</tbody>
</table>

(3) For airplanes identified in paragraph (c)(3) of this AD: After accomplishing the actions required by paragraphs (g)(2), (h)(3), and (i)(3) of this AD, as applicable, on all airplanes in an operator’s fleet, and within 8 years after the effective date of the AD, revise the maintenance or inspection program, as applicable, by incorporating the AWL.

specified in figure 2 to paragraph (j)(2) of this AD.

specified in figure 3 to paragraph (j)(3) of this AD.
For airplanes identified in paragraph (c)(1) of this AD, excluding Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: Within 30 days since the date of issuance of the original standard airworthiness certificate or the date of issuance of the original export certificate of airworthiness, or within 30 days after the effective date of this AD, whichever is later, revise the maintenance or inspection program, as applicable, by incorporating the AWL specified in figure 4 to paragraph (j)(4) of this AD.

**Figure 3 to Paragraph (j)(3) of this AD — AWL for airplanes identified in paragraph (c)(3) of this AD**

<table>
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<tr>
<td></td>
<td></td>
<td>Installation of MOV actuator part number (P/N) MA30A1001 (Boeing P/N S343T003-66) and P/N MA20A2027 (Boeing P/N S343T003-56) is prohibited at the following positions:</td>
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<tr>
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</tr>
</tbody>
</table>
(k) No Alternative Actions, Intervals, and Critical Design Configuration Control Limitations (CDCCLs)

(1) After the maintenance or inspection program has been revised as required by paragraph (i) of this AD, no alternative actions (e.g., inspections), intervals, or CDCCLs, may be used unless the actions, intervals, and CDCCLs are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (o) of this AD.

(2) After the maintenance or inspection program has been revised as required by paragraph (j) of this AD, no alternative actions (e.g., inspections), intervals, or CDCCLs, may be used unless the actions, intervals, and CDCCLs are approved as an AMOC in accordance with the procedures specified in paragraph (o) of this AD.

<table>
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</table>

Concern: Installation of the following MOV actuator part numbers (P/N) is not part of the airplane type design: P/N MA30A1001 (Boeing P/N S343T003-66), P/N MA20A2027 (Boeing P/N S343T003-56), P/N MA20A1001-1 (Boeing P/N S343T003-39). However, there is a potential for those part numbers to be installed on the airplane using provisions provided in FAA Advisory Circular 120-77 or other means due to their continued availability and use on other Model 737 airplanes. Such an alteration will create unsafe conditions.

1. Installation of MOV actuator P/N MA20A1001-1 (Boeing P/N S343T003-39) is prohibited at any location.

2. Installation of MOV actuator part number (P/N) MA30A1001 (Boeing P/N S343T003-66) and P/N MA20A2027 (Boeing P/N S343T003-56) is prohibited at the following positions:
   a. Left engine fuel shutoff spar valve position
   b. Right engine fuel shutoff spar valve position

(l) Parts Installation Prohibition

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: As of the effective date of this AD, no person may replace an MOV actuator having P/N MA30A1017 (Boeing P/N S343T003–76) with an MOV actuator having P/N MA20A2027 or P/N MA30A1001 (Boeing P/N S343T003–56 or Boeing P/N S343T003–66, respectively) for the left engine and right engine fuel shutoff valves.

(2) For airplanes identified in paragraph (c)(2) of this AD: As of the effective date of this AD, no person may replace an MOV actuator having P/N AV–31–1 (Boeing P/N S343T003–111), P/N MA11A1265 (Boeing P/N S343T003–14), P/N MA11A1265–1 (Boeing P/N S343T003–41), or P/N MA30A1017 (Boeing P/N S343T003–76) with an MOV actuator having P/N MA30A1001 (Boeing P/N S343T003–66) or P/N MA20A2027 (Boeing P/N S343T003–56) for the left engine and right engine fuel shutoff valves and the APU fuel shutoff valve.

(3) For airplanes identified in paragraph (c)(3) of this AD: As of the effective date of this AD, no person may replace an MOV actuator having P/N AV–31–1 (Boeing P/N S343T003–111), P/N MA11A1265 (Boeing P/N S343T003–14), P/N MA11A1265–1 (Boeing P/N S343T003–41), or P/N MA30A1017 (Boeing P/N S343T003–76) with an MOV actuator having P/N MA30A1001 (Boeing P/N S343T003–66) or P/N MA20A2027 (Boeing P/N S343T003–56) for the left engine and right engine fuel shutoff valves and the APU fuel shutoff valve.

(4) For airplanes identified in paragraph (c)(1) of this AD, excluding Model 737–600, –700, –700C, –800, –900, and –900ER series
airplanes: As of the effective date of this AD, no person may install an MOV actuator having P/N MA20A1001–1 (Boeing P/N S343T003–39) or replace an MOV actuator with an MOV actuator having P/N MA20A2027 or P/N MA30A1001 (Boeing P/N S343T003–66 or Boeing P/N S343T003–66, respectively) for the left engine and right engine fuel shutoff valves.

(m) Terminating Action

(1) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: Accomplishing the actions required by paragraph (j)(1) of this AD terminates the requirements of paragraph (f)(1) of this AD and all requirements of AD 2015–21–10.

(2) For airplanes identified in paragraph (c)(2) of this AD: Accomplishing the action required by paragraph (j)(2) of this AD terminates the requirements of paragraph (f)(2) of this AD and all requirements of AD 2015–19–04.

(3) For airplanes identified in paragraph (c)(3) of this AD: Accomplishing the action required by paragraph (j)(3) of this AD terminates the requirements of paragraph (f)(3) of this AD and all requirements of AD 2015–21–09.

(4) For airplanes identified in paragraph (c)(1) of this AD, excluding Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes: Accomplishing the action required by paragraph (j)(4) of this AD terminates the requirements of paragraph (f)(4) of this AD.

(n) Credit for Previous Actions

(1) This paragraph provides credit for the actions specified in paragraph (g)(2) or (h)(2) of this AD, as applicable, if those actions were performed before the effective date of this AD using Boeing Service Bulletin 757–28–0138, dated May 18, 2016.

(2) This paragraph provides credit for the actions specified in paragraph (g)(2) or (h)(3) of this AD, as applicable, if those actions were performed before the effective date of this AD using Boeing Service Bulletin 767–28–0115, dated October 10, 2015.

(3) For Model 737–600, –700, –700C, –800, –900, and –900ER series airplanes with an original certificate of airworthiness or original export certificate of airworthiness issued on or before the effective date of this AD, this paragraph provides credit for the actions specified in paragraph (j)(2) of this AD if those actions were performed before the effective date of this AD using Boeing Special Compliance Items/Airworthiness Limitations, D622T001–9–04, Revision July 2015, Revision March 2016, Revision May 2016, Revision May 2016 R1, or Revision June 2016; or Boeing 767–200/300/300F/400 Special Compliance Items/Airworthiness Limitations, D622T001–9–04, Revision January 2018.

(4) For airplanes identified in paragraph (c)(3) of this AD with an original certificate of airworthiness or original export certificate of airworthiness issued on or before the effective date of this AD, this paragraph provides credit for the actions specified in paragraph (j)(3)(ii) of this AD if those actions were performed before the effective date of this AD using Boeing 767 Special Compliance Items/Airworthiness Limitations, D622T001–9–04, Revision October 2014.

(o) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Seattle ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (p)(1) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local Flight Standards District Office/ certification holding district office.

(3) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by the Boeing Commercial Airplanes Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(4) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (o)(4)(i) and (o)(4)(ii) of this AD apply.

(i) The steps labeled as RC, including substeps under an RC step and any figures identified in an RC step, must be done to comply with the AD. If a step or substep is labeled “RC Exempt,” then the RC requirement is removed from that step or substep. An AMOC is required for any deviations to RC steps, including substeps and identified figures.

(ii) Steps not labeled as RC may be deviated from using accepted methods in accordance with the operator’s maintenance or inspection program without obtaining approval of an AMOC, provided the RC steps, including substeps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

(p) Related Information

(1) For more information about this AD, contact Tak Kobayashi, Aerospace Engineer, Propulsion Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206–231–3553; email: Takahisa.Kobayashi@faa.gov.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (q)(3) and (q)(4) of this AD.

(q) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(i) Boeing 737–600/700/700C/800/900/900ER Special Compliance Items/ Airworthiness Limitations, D626A001–9–04, Revision June 2018.

(ii) Boeing 757 Special Compliance Items/Airworthiness Limitations, D622N001–9, Revision May 2018.

(iii) Boeing 767–200/300/300F/400ER Special Compliance Items/Airworthiness Limitations, D622T001–9–04, Revision March 2018.


(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to http://www.archives.gov/federal-register/cfr/ibr-locations.html.
EXAMINING THE AD DOCKET
You may examine the AD docket on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2018–0410; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the regulatory evaluation, any comments received, and other information. The address for Docket Operations (phone: 800–647–5527) is Docket Operations, U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT:
Kathleen Arrigotti, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206–231–3218.

SUPPLEMENTARY INFORMATION:

Discussion
We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all Airbus SAS Model A350–941 airplanes. The NPRM published in the Federal Register on May 15, 2018 (83 FR 22414). The NPRM was prompted by an inspection on the production line that revealed evidence of paint peeling on the forward and aft cargo frame forks around the hook bolt hole. The NPRM proposed to require a detailed visual inspection for any deficiency of the frame forks around the hook bolt hole on certain forward and aft cargo doors and applicable corrective actions. We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective November 15, 2018.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 15, 2018.

ADDRESSES: For service information identified in this final rule, contact Airbus SAS, Airworthiness Office—EAL, Rond-Point Emile Dewoitine No: 2, 31700 Bagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 45 80; email continued-airworthiness.a350@airbus.com; internet http://www.airbus.com. You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. It is also available on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2018–0410.

We reviewed the relevant data and determined that air safety and the public interest require adopting this final rule as proposed, except for minor editorial changes. We have determined that these minor changes:

• Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
• Do not add any additional burden upon the public than was already proposed in the NPRM.

Related Service Information Under 1 CFR Part 51
Airbus SAS has issued Airbus Service Bulletin A350–52–P011, dated May 12, 2017. This service information describes procedures for a one-time detailed visual inspection of the frame forks around the hook bolt hole on the forward and aft cargo door, and applicable corrective actions. This service information is reasonably...