frequently you would like to receive emails (daily, weekly, or monthly).

List of Subjects in 10 CFR Part 72

Administrative practice and procedure, Criminal penalties, Hazardous waste, Indians, Intergovernmental relations, Manpower training programs, Nuclear energy, Nuclear materials, Occupational safety and health, Penalties, Radiation protection, Reporting and recordkeeping requirements, Security measures, Spent fuel, Whistleblowing.

For the reasons set out in the preamble and under the authority of the Atomic Energy Act of 1954, as amended; the Energy Reorganization Act of 1974, as amended; the Nuclear Waste Policy Act of 1982, as amended; and 5 U.S.C. 552 and 553; the NRC is adopting the following amendments to 10 CFR part 72:

PART 72—LICENSING REQUIREMENTS FOR THE INDEPENDENT STORAGE OF SPENT NUCLEAR FUEL, HIGH-LEVEL RADIOACTIVE WASTE, AND REACTOR-RELATED GREATER THAN CLASS C WASTE

■ 1. The authority citation for part 72 continues to read as follows:

Authority: Atomic Energy Act of 1954, secs. 51, 53, 57, 62, 63, 65, 69, 81, 161, 182, 183, 184, 186, 187, 189, 223, 234, 274 (42 U.S.C. 2071, 2073, 2077, 2092, 2093, 2095, 2099, 2111, 2201, 2210e, 2232, 2233, 2234, 2236, 2237, 2238, 2273, 2282, 2021); Energy Reorganization Act of 1974, secs. 201, 202, 206, 211 (42 U.S.C. 5841, 5842, 5846, 5851); National Environmental Policy Act of 1969 (42 U.S.C. 4332); Nuclear Waste Policy Act of 1982, secs. 117(a), 132, 133, 134, 135, 137, 141, 145(g), 148, 218(a) (42 U.S.C. 10137(a), 10152, 10153, 10154, 10155, 10157, 10161, 10165(g), 10168, 10198(a)); 44 U.S.C. 3504 note.

■ 2. In § 72.214, Certificate of Compliance 1031 is revised to read as follows:

§ 72.214 List of approved spent fuel storage casks.

Certificate Number: 1031. Initial Certificate Effective Date: February 4, 2009, superseded by Initial Certificate, Revision 1, on February 1, 2016.

Initial Certificate, Revision 1, Effective Date: February 1, 2016.

Amendment Number 1 Effective Date: August 30, 2010, superseded by Amendment Number 1, Revision 1, on February 1, 2016.

Amendment Number 1, Revision 1, Effective Date: February 1, 2016.

Amendment Number 2 Effective Date: January 30, 2012, superseded by Amendment Number 2, Revision 1, on February 1, 2016.

Amendment Number 2, Revision 1,

Effective Date: February 1, 2016. Amendment Number 3 Effective Date:

July 25, 2013, superseded by

Amendment Number 3, Revision 1, on

February 1, 2016.

- Amendment Number 3, Revision 1, Effective Date: February 1, 2016.
- Amendment Number 4 Effective Date: April 14, 2015.
- Amendment Number 5 Effective Date: June 29, 2015.
- Amendment Number 6 Effective Date: December 21, 2016.
- SAR Submitted by: NAC
- International, Inc.
- *SAR Title:* Final Safety Analysis Report for the MAGNASTOR® System.
- Docket Number: 72–1031.

Certificate Expiration Date: February 4, 2029.

Model Number: MAGNASTOR®.

Dated at Rockville, Maryland, this 23rd day of September, 2016.

For the Nuclear Regulatory Commission.

Glenn M. Tracy,

Acting Executive Director for Operations. [FR Doc. 2016–24317 Filed 10–6–16; 8:45 am] BILLING CODE 7590–01–P

FARM CREDIT ADMINISTRATION

12 CFR Parts 600, 602, 603, and 606

RIN 3052-AD17

FCA Organization; Updates and Technical Corrections

AGENCY: Farm Credit Administration. **ACTION:** Notice of effective date.

SUMMARY: The Farm Credit Administration (FCA, we, Agency or our) amended our regulations to reflect changes to the FCA's organizational structure and correct the zip code for the field office located in Irving, TX. In addition, references in our regulations to various FCA offices, which have changed, have been revised. We also reordered the list of FCA offices into a more logical progression that is consistent with FCA's organizational chart. In accordance with the law, the effective date of the rule is no earlier than 30 days from the date of publication in the Federal Register during which either or both Houses of Congress are in session.

DATES: *Effective Date:* Under the authority of 12 U.S.C. 2252, the regulation amending 12 CFR parts 600, 602, 603, and 606 published on July 22,

2016 (81 FR 47691) is effective October 7, 2016.

FOR FURTHER INFORMATION CONTACT:

Michael T. Wilson, Policy Analyst, Office of Regulatory Policy, Farm Credit Administration, McLean, VA 22102–5090, (703) 883–4124, TTY (703) 883–4056,

or

Autumn Agans, Attorney-Advisor, Office of General Counsel, Farm Credit Administration, McLean, VA 22102–5090, (703) 883–4020, TTY (703) 883–4056.

SUPPLEMENTARY INFORMATION: The Farm Credit Administration amended our regulations to reflect changes to the FCA's organizational structure and correct the zip code for the field office located in Irving, TX. In addition, references in our regulations to various FCA offices, which have changed, have been revised. We also re-ordered the list of FCA offices into a more logical progression that is consistent with FCA's organizational chart. In accordance with 12 U.S.C. 2252, the effective date of the final rule is no earlier than 30 days from the date of publication in the Federal Register during which either or both Houses of Congress are in session. Based on the records of the sessions of Congress, the effective date of the regulations is October 7, 2016.

(12 U.S.C. 2252(a)(9) and (10))

Dale L. Aultman,

Secretary, Farm Credit Administration Board. [FR Doc. 2016–24313 Filed 10–6–16; 8:45 am] BILLING CODE 6705–01–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 23

[Docket No. FAA-2016-9224; Special Conditions No. 23-277-SC]

Special Conditions: Beechcraft, Model A36, Bonanza Airplanes; as Modified by Avionics Design Services, Ltd.; Installation of Rechargeable Lithium Battery

AGENCY: Federal Aviation Administration (FAA), DOT. **ACTION:** Final special conditions; request for comments.

SUMMARY: These special conditions are issued for the Beechcraft, Model A36, Bonanza airplane. This airplane, as modified by Avionics Design Services, Ltd., will have a novel or unusual design feature associated with the use of a replacement option of a lithium battery instead of nickel-cadmium and lead-acid rechargeable batteries. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

DATES: The effective date of these special conditions is October 7, 2016. We must receive your comments by

November 21, 2016. **ADDRESSES:** Send comments identified by docket number FAA–2016–9224 using any of the following methods:

• Federal eRegulations Portal: Go to http://www.regulations.gov and follow the online instructions for sending your comments electronically.

• *Mail:* Send comments to Docket Operations, M–30, U.S. Department of Transportation (DOT), 1200 New Jersey Avenue SE., Room W12–140, West Building Ground Floor, Washington, DC, 20590–0001.

• Hand Delivery of Courier: Take comments to Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

• *Fax:* Fax comments to Docket Operations at 202–493–2251.

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

Docket: Background documents or comments received may be read at *http://www.regulations.gov* at any time. Follow the online instructions for accessing the docket or go to the Docket Operations in Room W12–140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Quentin Coon, Federal Aviation Administration, Aircraft Certification Service, Small Airplane Directorate, ACE-112, 901 Locust, Room 301, Kansas City, MO; telephone (816) 329-4168; facsimile (816) 329-4090. SUPPLEMENTARY INFORMATION: The FAA has determined that notice and opportunity for prior public comment hereon are impracticable because these procedures would significantly delay issuance of the approval design and thus delivery of the affected aircraft. In addition, the FAA has determined, in accordance with 5 U.S. C. 553(b)(3)(B) and 553(d)(3), that notice and opportunity for prior public comment hereon are unnecessary because the substance of these special conditions has been subject to the public comment process in several prior instances with no substantive comments received. The FAA therefore finds that good cause exists for making these special conditions effective upon issuance.

Special condi- tions No.	Company/airplane model
23–15–01–	Kestrel Aircraft Company/
SC ¹ .	Model K-350.
23-09-02SC ²	Cessna Aircraft Company/ Model 525C (CJ4).
23–08–05–	Spectrum Aeronautical, LLC/
SC ³ .	Model 40.

Comments Invited

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

We will consider all comments we receive on or before the closing date for comments. We will consider comments filed late if it is possible to do so without incurring expense or delay. We may change these special conditions based on the comments we receive.

Background

On September 17, 2015, Avionics Design Services, Ltd., (Avionics) applied for a supplemental type certificate (STC) to install a rechargeable lithium battery on the Model A36 Bonanza airplane. The Model A36 airplane is a normal category airplane, powered by a single-piston engine that drives an aircraft propeller, with passenger seating up to six (6) and a maximum takeoff weight of 3600 pounds.

The current regulatory requirements for part 23 airplanes do not contain adequate requirements for the application of rechargeable lithium batteries in airborne applications. This type of battery possesses certain failure and operational characteristics with maintenance requirements that differ significantly from that of the nickelcadmium (Ni-Cd) and lead-acid rechargeable batteries currently approved in other normal, utility, acrobatic, and commuter category airplanes. Therefore, the FAA is proposing this special condition to address (1) all characteristics of the rechargeable lithium batteries and their installation that could affect safe operation of the modified Model A36 airplane, and (2) appropriate Instructions for Continued Airworthiness (ICAW) that include maintenance requirements to ensure the availability of electrical power from the batteries when needed.

Type Certification Basis

Under the provisions of Title 14, Code of Federal Regulations (CFR) 21.101, Avionics must show that the Model A36 airplane, as changed, continues to meet the applicable provisions of the regulations incorporated by reference in Type Certificate Data Sheet No. 3A15⁴ or the applicable regulations in effect on the date of application for the change.

If the Administrator finds that the applicable airworthiness regulations (*i.e.*, 14 CFR part 23) do not contain adequate or appropriate safety standards for the Model A36 airplane because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

In addition to the applicable airworthiness regulations and special conditions, the Model A36 airplane must comply with the fuel vent and exhaust emission requirements of 14 CFR part 34 and the noise certification requirements of 14 CFR part 36.

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

Special conditions are initially applicable to the models for which they

¹ http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgSC.nsf/0/39B156C006EB842E86257EF 3004BB13C?OpenDocument&Highlight=installation %20of%20rechargeable%20lithium%20battery.

² http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgSC.nsf/0/902232309CT9F0D4862575 CB0045ACOD?OpenDocument&Highlight= installation%200f%20rechargeable%20lithium %20battery.

³ http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgSC.nsf/0/28E630294DCC27 B986257513005968A3?OpenDocument&Highlight= installation%200f%20rechargeable%20lithium %20battery.

⁴ http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgMakeModel.nsf/0/360C62B668 F4C1878625801B0069FB5F?OpenDocument.

are issued. Should the applicant apply for an STC to modify any other model included on the same type certificate to incorporate the same novel or unusual design feature, these special conditions would also apply to the other model under § 21.101.

Novel or Unusual Design Features

The Beechcraft Model A36 airplane will incorporate the following novel or unusual design features:

The installation of a rechargeable lithium battery as a main or engine start aircraft battery.

Discussion

The applicable part 23 airworthiness regulations governing the installation of batteries in general aviation airplanes, including § 23.1353, were derived from Civil Air Regulations (CAR) 3 as part of the recodification that established 14 CFR part 23. The battery requirements, which are identified in § 23.1353, were a rewording of the CAR requirements that did not add any substantive technical requirements. An increase in incidents involving battery fires and failures that accompanied the increased use of Ni-Cd batteries in aircraft resulted in rulemaking activities on the battery requirements for small airplanes. These regulations were incorporated into § 23.1353(f) and (g), which apply only to Ni-Cd battery installations.

The introduction of lithium batteries into aircraft raises some concern about associated battery or cell monitoring systems and the impact to the electrical system when monitoring components fail. Associated battery or cell monitoring systems (*e.g.*, temperature, state of charge, etc.) should be evaluated with respect the expected extremes in the aircraft operating environment.

Lithium batteries typically have different electrical impedance characteristics than Ni-Cd or lead-acid batteries. Avionics needs to evaluate other components of the aircraft electrical system with respect to these characteristics.

Presently, there is limited experience with use of rechargeable lithium batteries and rechargeable lithium battery systems in applications involving commercial aviation. However, other users of this technology, ranging from personal computers, wireless telephone manufacturers to the electric vehicle industry, have noted safety problems with rechargeable lithium batteries. These problems include overcharging, over-discharging, flammability of cell components, cell internal defects, and during exposure to extreme temperatures that are described in the following paragraphs.

1. Overcharging: In general, rechargeable lithium batteries are significantly more susceptible than their Ni-Cd or lead-acid counterparts to thermal runway, which is an internal failure that can result in self-sustaining increases in temperature and pressure. This is especially true for overcharging which causes heating and destabilization of the components of the cell, leading to the formation (by plating) of highly unstable metallic lithium. The metallic lithium can ignite, resulting in a self-sustaining fire or explosion. Finally, the severity of thermal runaway due to overcharging increases with increasing battery capacity due to the higher amount of electrolyte in large batteries.

2. Over-discharging: Discharge of some types of rechargeable lithium battery cells beyond the manufacturer's recommended specification can cause corrosion of the electrodes of the cell, resulting in loss of battery capacity that cannot be reversed by recharging. This loss of capacity may not be detected by the simple voltage measurements commonly available to flight crews as a means of checking battery status-a problem shared with Ni-Cd batteries. In addition, over-discharging has the potential to lead to an unsafe condition (creation of dendrites that could result in internal short circuit during the recharging cycle).

3. Flammability of Cell Components: Unlike Ni-Cd and lead-acid batteries, some types of rechargeable lithium batteries use liquid electrolytes that are flammable. The electrolyte can serve as a source of fuel for an external fire, if there is a breach of the battery container.

4. *Cell Internal Defects:* The rechargeable lithium batteries and rechargeable battery systems have a history of undetected cell internal defects. These defects may or may not be detected during normal operational evaluation, test and validation. This may lead to an unsafe condition during in service operation.

5. *Extreme Temperatures:* Exposure to an extreme temperature environment has the potential to create major hazards. Care must be taken to ensure that the lithium battery remains within the manufacturer's recommended specification.

These problems experienced by users of lithium batteries raise concern about the use of lithium batteries in aviation. The intent of the proposed special condition is to establish appropriate airworthiness standards for lithium battery installations in the Model A36 airplanes and to ensure, as required by §§ 23.1309 and 23.601, that these battery installations are not hazardous or unreliable.

Applicability

The special conditions are applicable to the Model A36 airplane. Should Avionics apply at a later date for an STC to modify any other model included on Type Certificate No. 3A15, to incorporate the same novel or unusual design feature, the special conditions would apply to that model as well.

Conclusion

This action affects only certain novel or unusual design features on the Model A36 airplane. It is not a rule of general applicability and affects only the applicant who applied to the FAA for approval of these features on the airplane.

The substance of these special conditions has been subjected to the notice and comment period in several prior instances and has been derived without substantive change from those previously issued. It is unlikely that prior public comment would result in a significant change from the subject contained herein. Therefore, notice and opportunity for prior public comment hereon are unnecessary and the FAA finds good cause, in accordance with 5 U.S. Code §§ 553(b)(3)(B) and 553(d)(3), making these special conditions effective upon issuance. The FAA is requesting comments to allow interested persons to submit views that may not have been submitted in response to the prior opportunities for comment described above.

List of Subjects in 14 CFR Part 23

Aircraft, Aviation safety, Signs and symbols.

Citation

■ The authority citation for these special conditions is as follows:

Authority: 49 U.S.C. 106(g), 40113 and 44701; 14 CFR 21.16 and 21.101; and 14 CFR 11.38 and 11.19.

The Special Conditions

Accordingly, pursuant to the authority delegated to me by the Administrator, the following special conditions are issued as part of the supplemental type certification basis for Beechcraft, Model A36 airplanes modified by Avionics Design Services, Ltd.

1. Installation of Lithium Battery

The FAA adopts that the following special conditions be applied to lithium battery installations on the Model A36 airplanes in lieu of the requirements § 23.1353(a)(b)(c)(d)(e), amendment 49. Lithium battery installations on the Model A36 airplanes must be designed and installed as follows:

a. Safe cell temperatures and pressures must be maintained during any probable charging or discharging condition, or during any failure of the charging or battery monitoring system not shown to be extremely remote. The lithium battery installation must be designed to preclude explosion or fire in the event of those failures.

b. Lithium batteries must be designed to preclude the occurrence of selfsustaining, uncontrolled increases in temperature or pressure.

c. No explosive or toxic gasses emitted by any lithium battery in normal operation or as the result of any failure of the battery charging or monitoring system, or battery installation not shown to be extremely remote, may accumulate in hazardous quantities within the airplane.

d. Lithium batteries that contain flammable fluids must comply with the flammable fluid fire protection requirements of 14 CFR 23.863(a) through (d).

e. No corrosive fluids or gases that may escape from any lithium battery may damage airplane structure or essential equipment.

f. Each lithium battery installation must have provisions to prevent any hazardous effect on structure or essential systems that may be caused by the maximum amount of heat the battery can generate during a short circuit of the battery or of its individual cells.

g. Lithium battery installations must have—

(1) A system to control the charging rate of the battery automatically to prevent battery overheating or overcharging, or

(2) A battery temperature sensing and over-temperature warning system with a means for automatically disconnecting the battery from its charging source in the event of an over-temperature condition or,

(3) A battery failure sensing and warning system with a means for automatically disconnecting the battery from its charging source in the event of battery failure.

h. Any lithium battery installation functionally required for safe operation of the airplane, must incorporate a monitoring and warning feature that will provide an indication to the appropriate flight crewmembers, whenever the capacity and state of charge of the batteries have fallen below levels considered acceptable for dispatch of the airplane. i. The ICAW must contain recommended manufacturer's maintenance and inspection requirements to ensure that batteries, including single cells, meet a functionally safe level essential to the aircraft's continued airworthiness.

(1) The ICAW must contain operating instructions and equipment limitations in an installation maintenance manual.

(2) The ICAW must contain installation procedures and limitations in a maintenance manual, sufficient to ensure that cells or batteries, when installed according to the installation procedures, still meet safety functional levels essential to the aircraft's continued airworthiness. The limitations must identify any unique aspects of the installation.

(3) The ICAW must contain corrective maintenance procedures to check battery capacity at manufacturer's recommended inspection intervals.

(4) The ICAW must contain scheduled servicing information to replace batteries at manufacturer's recommended replacement time.

(5) The ICAW must contain maintenance and inspection requirements how to check visually for battery and charger degradation.

j. Batteries in a rotating stock (spares) that have degraded charge retention capability or other damage due to prolonged storage must be checked at manufacturer's recommended inspection intervals.

k. If the lithium battery application contains software and/or complex hardware, in accordance with AC 20–115 ⁵ and AC 20–152,⁶ they should be developed to the standards of DO–178 for software and DO–254 for complex hardware.

Compliance with the requirements of this Special Condition must be shown by test or analysis, with the concurrence of the New York Aircraft Certification Office.

Issued in Kansas City, Missouri on September 28, 2016.

William Schinstock,

Acting Manager, Small Airplane Directorate, Aircraft Certification Service.

[FR Doc. 2016–24343 Filed 10–6–16; 8:45 am] BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA–2016–3986; Directorate Identifier 2015–NM–147–AD; Amendment 39–18661; AD 2016–19–12]

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 certain The Boeing Company Model 747-400, 747-400D, and 747-400F series airplanes. This AD was prompted by a determination that a certain fastener type in the fuel tank walls has insufficient bond to the structure, and an electrical wiring short could cause arcing to occur at the ends of fasteners in the fuel tanks. This AD requires the installation of new clamps and polytetrafluoroethylene (TFE) sleeves on the wire bundles of the front spars and rear spars of the wings. This AD also requires inspecting the existing TFE sleeves under the wire bundle clamps for correct installation, and replacement if necessary. We are issuing this AD to prevent potential ignition sources in the fuel tank in the event of a lightning strike or high-powered short circuit, and consequent fire or explosion. **DATES:** This AD is effective November

14, 2016.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of November 14, 2016.

ADDRESSES: For service information identified in this final rule, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P.O. Box 3707, MC 2H–65, Seattle, WA 98124–2207; telephone: 206–544–5000, extension 1; fax: 206–766–5680; Internet: https://

www.myboeingfleet.com. You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425–227–1221. It is also available on the Internet at http:// www.regulations.gov by searching for and locating Docket No. FAA–2016– 3986.

Examining the AD Docket

You may examine the AD docket on the Internet at *http://*

⁵ http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgAdvisoryCircular.nsf/0/E35FBC0060 E2159186257BBE00719FB3?OpenDocument& Highlight=ac%2020–115b.

⁶ http://rgl.faa.gov/Regulatory_and_Guidance_ Library/rgAdvisoryCircular.nsf/0/6D4AE0BF 1BDE3579862570360055D119?Open Document&Highlight=ac%2020-152.