

Technology Research and Development (NITRD) on January 9, 2017.

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*Reports Clearance Officer, National Science Foundation.*

[FR Doc. 2017-00501 Filed 1-11-17; 8:45 am]

BILLING CODE 7555-01-P

**NUCLEAR REGULATORY COMMISSION**

[Docket No. 50-193; NRC-2016-0213]

**Rhode Island Atomic Energy Commission**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** License renewal; issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) has issued a renewal of Facility Operating License No. R-95, held by the Rhode Island Atomic Energy Commission (RINSC or the licensee) for the continued operation of its Rhode Island Nuclear Science Center reactor for an additional 20 years from the date of issuance. The facility is located on the Narragansett Bay Campus of the University of Rhode Island in Narragansett, Rhode Island.

**DATES:** The renewed facility operating license No. R-95 is effective on January 5, 2017.

**ADDRESSES:** Please refer to Docket ID NRC-2016-0213 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 Web site:* Go to <http://www.regulations.gov> and search for Docket ID NRC-2016-0213. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; email: [Carol.Gallagher@nrc.gov](mailto:Carol.Gallagher@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 "ADAMS Public Documents" and then 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](mailto:pdr.resource@nrc.gov). For the convenience of the reader, the ADAMS accession numbers are provided in a table in the "Availability of Documents" section of 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.

**FOR FURTHER INFORMATION CONTACT:** Patrick G. Boyle, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-3936; email: [Patrick.Boyle@nrc.gov](mailto:Patrick.Boyle@nrc.gov).

**SUPPLEMENTARY INFORMATION:** The NRC has issued renewed Facility Operating License No. R-95, held by the licensee, which authorizes continued operation of the RINSC reactor, located on the Narragansett Bay Campus of the University of Rhode Island in Narragansett, Rhode Island. The RINSC reactor is a heterogeneous open pool-type, natural and forced convection, light-water cooled and shielded reactor. The renewed license authorizes the licensee to operate the RINSC reactor up to a steady-state power level of 2 megawatts thermal. The renewed Facility Operating License No. R-95

will expire 20 years from its date of issuance, January 5, 2017.

The renewed facility operating license complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in chapter I of title 10 of the *Code of Federal Regulations* (10 CFR), and sets forth those findings in the renewed facility operating license. The agency afforded an opportunity for hearing in the Notice of Opportunity for Hearing published in the **Federal Register** on October 24, 2016 (81 FR 73148). The NRC received no request for a hearing or petition for leave to intervene following the notice.

The NRC staff prepared a safety evaluation report (SER)—Renewal of the Facility Operating License for the Rhode Island Nuclear Science Center Reactor related to the renewal of Facility Operating License No. R-95 and concluded, based on that evaluation, that the licensee can continue to operate the facility without endangering the health and safety of the public. The NRC staff also prepared an environmental assessment and finding of no significant impact regarding the renewal of the facility operating license, noticed in the **Federal Register** on January 5, 2017 (82 FR 1364), and concluded that renewal of the facility operating license will not have a significant impact on the quality of the human environment.

**Availability of Documents**

The documents identified in the following table are available to interested persons through ADAMS accession numbers, as indicated. The SER, prepared by the NRC staff for the license renewal, is available in ADAMS under Accession No. ML16337A325.

"Rhode Island Atomic Energy Commission—'Requesting Renewal of Operating License R-095 (Enclosure 2)' [REDACTED Safety Analysis Report]," May 3, 2004.	ML14038A386
"Rhode Island Atomic Energy Commission, Requesting Renewal of Operating License R-095," May 3, 2004 .....	ML041270519
"Response to Request for Additional Information Concerning Plans for Decommissioning Facility at the End of Useful Life Ref Item 3 Parts a, b, and c," January 19, 2010.	ML100270176
"Rhode Island Nuclear Science Center, Appendix A to Safety Analysis Report, Information on Ar-41 and N-16," (received December 5, 2016), February 4, 2010.	ML16340A068
"Rhode Island Nuclear Science Center Reactor Submittal of Response to Request for Additional Information Re License Renewal," August 6, 2010.	ML102240257
"Responding to Requests for Additional Information (RAI) regarding our Analysis of the Maximum Hypothetical Accident (MHA) for Renewal of License R-95," August 18, 2010.	ML102360440
"Memorandum Steady-State Thermal-Hydraulic Analysis for Forced-Convective Flow in the Rhode Island Nuclear Science (RINSC) Reactor," September 3, 2010.	ML16062A376
"Rhode Island Atomic Energy Commission, Fourth Response to Request for Additional Information dated April 23, 2010 (Redacted)," September 8, 2010.	ML16279A516
Argonne National Laboratory Intra-Laboratory Memo from Earl E. Feldman and M. Kalimullah to James E. Matos Regarding Steady-State Thermal-Hydraulic Analysis for Natural-Convective Flow in the Rhode Island Nuclear Science Center (RINSC) Reactor, November 8, 2016.	ML16343A144
"Rhode Island Atomic Energy Commission Fifth Response to April 13, 2010 Request for Additional Information (Regarding License Renewal redacted)," November 26, 2010.	ML16279A518
"Rhode Island Atomic Energy Commission—Response to Requests for Additional Information Regarding Aging Issues Raised in RAIs," December 7, 2010.	ML103490242

"Rhode Island Atomic Energy Commission Response to April 13, 2010, Request for Additional Information Regarding License Renewal Technical Specifications (Redacted)," December 14, 2010.	ML16279A519
"Reply to your Request for Additional Information (RAI) dated April 13, 2010, regarding License Renewal for the Rhode Island Nuclear Science Center Reactor (RINSC)," January 24, 2011.	ML110320416
"Letter re: Request for Additional Information dated April 13, 2010 Regarding License Renewal for the Rhode Island Nuclear Science Center Reactor (RINSC)," February 24, 2011.	ML110600699
"Rhode Island Atomic Energy Commission Response to Request for Additional Information Regarding License Renewal," July 15, 2011.	ML11202A287
"Rhode Island Atomic Energy Commission Tenth Response to the April 13, 2010, Request for Additional Information Regarding License Renewal (Redacted)," July 5, 2011.	ML16279A520
"Rhode Island Atomic Energy Commission Responses to Request for Additional Information Regarding License Renewal (Redacted)," July 15, 2011.	ML16279A521
"Rhode Island Nuclear Science Center Tenth Response to NRC Request for Additional Information dated April 13, 2010, Pages 126 Through 204," July 15, 2011.	ML11202A290
"Response to NRC's Request for Additional Information Regarding Rhode Island Nuclear Science Center Reactor License Renewal," March 15, 2013.	ML13080A361
"Response to NRC's Request for Additional Information Regarding Rhode Island Nuclear Science Center Reactor License Renewal," March 15, 2013.	ML13080A362
"Response to NRC's Request for Additional Information Regarding Rhode Island Nuclear Science Center Reactor License Renewal, Proposed Technical Specification 130314," March 15, 2013.	ML13080A364
"Response to Request for Additional Information Regarding Financial Qualifications for the RINSC Reactor License Renewal," September 16, 2013.	ML13260A474
"Rhode Island Atomic Energy Commission License Renewal Historical Resource Impact Response Letter," December 19, 2013.	ML14006A420
"Response to Request for Additional Information Regarding Requalification Plan for the RINSC Reactor License Renewal," February 24, 2014.	ML14057A639
"Compilation of All Submitted Requests for Additional Information for the Rhode Island Nuclear Science Center Reactor License Renewal. Part 1 of 3," April 28, 2014.	ML14126A192
"Rhode Island Atomic Energy Commission Consolidated Responses to Request for Additional Information Regarding License Renewal. Part 2 of 3 (Redacted)," April 28, 2014.	ML16279A523
"Compilation of All Submitted Requests for Additional Information for the Rhode Island Nuclear Science Center Reactor License Renewal. Part 3 of 3," April 28, 2014.	ML14126A195
"Rhode Island Nuclear Science Center Reactor—Updated Proposed Technical Specifications," June 30, 2014	ML14184B361
"Rhode Island Nuclear Science Center Updated Technical Specifications," August 7, 2015	ML15223A953
"Rhode Island Nuclear Science Center Submittal of Updated Proposed Technical Specification," August 11, 2015	ML15223A952
"Summary of Changes to the Proposed Technical Specifications," August 11, 2015	ML15223A954
"Contractor Comments and Responses," August 11, 2015	ML15223A955
"Rhode Island Nuclear Science Center Transient Analyses Revised January 20, 2016," January 20, 2016	ML16062A378
"Rhode Island Nuclear Science Center Technical Specifications," February 26, 2016	ML16062A380
"Rhode Island Atomic Energy Commission—Response to Requests for Additional Information dated September 3, 2015," March 1, 2016.	ML16062A373
"Fuel Failure Addendum 160229," March 1, 2016	ML16062A381
"New Transient Analysis Results 160226," March 1, 2016	ML16062A379
"150903 RAI Responses 160301," March 1, 2016	ML16062A374
"Core Change Summary for Conversion from RINSC LEU Core #5 to LEU Core #6," March 1, 2016	ML16062A375
"[RINSC] Fuel Failure Analysis [Dose Table]," March 1, 2016	ML16062A382
"Request for Change to License for the Rhode Island Atomic Energy Commission," April 21, 2016	ML16112A071
"Rhode Island Atomic Energy Commission Research Reactor—Responses to NRC Staff Request for Additional Information for License Renewal Review (Redacted Version)," July 20, 2016.	ML16202A008
"State of Rhode Island and Providence Plantations—Response to Request for Additional Dated August 3, 2016, Rhode Island Nuclear Science Center Response to NRC Request for Additional Information Regarding the Renewal, and Rhode Island Nuclear Science Center Technical Specifications," October 6, 2016.	ML16280A420
"State of Rhode Island and Providence Plantations—Response to Request for Additional Information Regarding Calculations for Fuel Element Failure Accident Scenario," Letter and Responses, November 1, 2016.	ML16306A063
"Rhode Island Atomic Energy Commission—Transmittal of Supplemental Information in Support of Relicensing for the Rhode Island Nuclear Science Center (R-95)," Letter and Responses, November 14, 2016.	ML16319A298
Rhode Island Nuclear Science Center—"Supplemental Information for the Relicensing of the Rhode Island Atomic Energy Commission, Rhode Island Nuclear Science Center—Safety Analysis Report, and Rhode Island Nuclear Science Center—Technical Specifications," December 1, 2016.	ML16336A734
State of Rhode Island and Providence Plantations—"Supplemental Information Regarding Relicensing for the Rhode Island Nuclear Science Center," December 8, 2016.	ML16343A851
Rhode Island December 13, 2016 Conversation Record, December 13, 2016	ML16351A003
Supplemental Information Re: Relicensing for the Rhode Island Nuclear Science Center (R-95), December 15, 2016	ML16350A042
Rhode Island December 15 2016 Conversation Record, December 15, 2016	ML16351A012
Rhode Island Nuclear Science Center—Supplemental Information Regarding Relicensing, December 15, 2016	ML16350A256
Rhode Island Atomic Energy Commission—Issuance of Renewed Facility Operating License No. R-95 for the Rhode Island Nuclear Science Center Reactor (TAC No. ME1598) January 5, 2017.	ML16337A322

Dated at Rockville, Maryland, this 5th day of January, 2017.

For the Nuclear Regulatory Commission.

**Michael Balazik,**

*Chief (Acting), Research and Test Reactors Licensing Branch, Division of Policy and Rulemaking, Office of Nuclear Reactor Regulation.*

[FR Doc. 2017-00527 Filed 1-11-17; 8:45 am]

**BILLING CODE 7590-01-P**

## **NUCLEAR REGULATORY COMMISSION**

**[Docket No. 52-047; NRC-2016-0119]**

### **Tennessee Valley Authority; Clinch River Nuclear Site**

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Early site permit application; acceptance for docketing.

**SUMMARY:** On May 12, 2016, the Tennessee Valley Authority (TVA) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for an early site permit (ESP) for the Clinch River Nuclear Site located in Oak Ridge, Tennessee. A notice of receipt and availability of this application was published in the **Federal Register** on June 23, 2016. The TVA also provided supplemental information in support of the application to the NRC.