

NUCLEAR REGULATORY COMMISSION
[Docket Nos. 52-025 and 52-026; NRC-2008-0252]
Southern Nuclear Operating Company, Inc.
Vogtle Electric Generating Plant, Units 3 and 4
Pipe Rupture Hazard and Flooding Analysis

AGENCY: Nuclear Regulatory Commission.

ACTION: Exemption and combined license amendment; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is granting an exemption to allow a departure from elements of the certification information of Tier 1 of the generic AP1000 design control document (DCD) and is issuing License Amendment Nos. 107 and 106 to Combined Licenses (COL), NPF-91 and NPF-92, respectively. The COLs were issued to Southern Nuclear Operating Company, and Georgia Power Company, Oglethorpe Power Corporation, MEAG Power SPVM, LLC, MEAG Power SPVJ, LLC, MEAG Power SPVP, LLC, and the City of Dalton, Georgia (collectively referred to as the licensee); for construction and operation of the Vogtle Electric Generating Plant (VEGP) Units 3 and 4, located in Burke County, Georgia.

The granting of the exemption allows the changes to Tier 1 information asked for in the amendment. Because the acceptability of the exemption was determined in part by the acceptability of the amendment, the exemption and amendment are being issued concurrently.

The exemption revises the plant-specific Tier 1 information and corresponding changes to COL Appendix C, and the amendment changes the associated plant-specific DCD Tier 2 material incorporated into the VEGP Updated Final Safety Analysis Report (UFSAR), to address mitigation of fire protection system flooding of the Auxiliary Building identified following completion of the pipe rupture hazards analysis for the VEGP Units 3 and 4.

DATES: The exemption and amendment were issued on February 1, 2018.

ADDRESSES: Please refer to Docket ID **NRC-2008-0252** 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-2008-0252. Address questions about NRC dockets to Jennifer Borges; 301-287-9127; e-mail: 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 "[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 800-397-4209, 301-415-4737, or by e-mail 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. The request for the amendment and exemption was designated License Amendment Request (LAR) 17-010 and submitted by letter dated March 31, 2017, (ADAMS Accession No. ML17090A570) and revised and supplemented by letters dated August 21, October 9, November 1, December 1, and December 15, 2017, and January 3, 2018 (ADAMS Accession Nos. ML17233A325, ML17282A014, ML17305B507, ML17335A762, ML17349A928, and ML18003B082, respectively).

- **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: William (Billy) Gleaves, Office of New Reactors, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-5848; e-mail: Bill.Gleaves@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Introduction

The NRC is granting an exemption from paragraph B of section III, "Scope and Contents," of appendix D, "Design Certification Rule for the AP1000," to part 52 of title 10 of the *Code of Federal Regulations* (10 CFR), and issuing License Amendment Nos. 107 and 106 to COLs, NPF-91 and NPF-92, respectively, to the licensee. The exemption is required by paragraph A.4 of section VIII, "Processes for Changes and Departures," appendix D, to 10 CFR part 52 to allow the licensee to depart from Tier 1 information. With the requested amendment, the licensee proposed changes to plant-specific Tier 1 information and corresponding changes to COL Appendix C and

associated plant-specific DCD Tier 2 material incorporated into the VEGP UFSAR, by revising information to address the need for mitigation of fire protection system flooding of the Auxiliary Building identified during completion of the pipe rupture hazards analysis. The exemption met all applicable regulatory criteria set forth in 10 CFR 50.12, 10 CFR 52.7, and section VIII.A.4 of appendix D to 10 CFR part 52. The license amendment met all applicable regulatory criteria and was found to be acceptable as well. The combined safety evaluation is available in ADAMS under Accession No. ML18017A261.

Identical exemption documents (except for referenced unit numbers and license numbers) were issued to the licensee for VEGP Units 3 and 4 (COLs NPF-91 and NPF-92). The exemption documents for VEGP Units 3 and 4 can be found in ADAMS under Accession Nos. ML18017A608 and ML18017A524, respectively. The exemption is reproduced (with the exception of abbreviated titles and additional citations) in Section II of this document. The amendment documents for COLs NPF-91 and NPF-92 are available in ADAMS under Accession Nos. ML18017A386 and ML18017A577, respectively. A summary of the amendment documents is provided in Section III of this document.

II. Exemption

Reproduced below is the exemption document issued to VEGP Units 3 and Unit 4. It makes reference to the combined safety evaluation that provides the reasoning for the findings made by the NRC (and listed under Item 1) in order to grant the exemption:

1. In a letter dated March 31, 2017, as supplemented and revised by letters dated August 21, October 9, November 1, December 1 and December 15, 2017, and

January 3, 2018, Southern Nuclear Operating Company requested from the Nuclear Regulatory Commission (NRC or Commission) an exemption to allow departures from Tier 1 information in the certified DCD incorporated by reference in Title 10 10 CFR part 52, appendix D, "Design Certification Rule for the AP1000 Design," as part of license amendment request (LAR) 17-010, "Request for License Amendment and Exemption: Pipe Rupture Hazard and Flooding Analyses."

For the reasons set forth in Section 3.1 of the NRC staff's Safety Evaluation, which can be found at ADAMS Accession No. ML18017A261 the Commission finds that:

- A. the exemption is authorized by law;
- B. the exemption presents no undue risk to public health and safety;
- C. the exemption is consistent with the common defense and security;
- D. special circumstances are present in that the application of the rule in this circumstance is not necessary to serve the underlying purpose of the rule;
- E. the special circumstances outweigh any decrease in safety that may result from the reduction in standardization caused by the exemption;
and

- F. the exemption will not result in a significant decrease in the level of safety otherwise provided by the design.

2. Accordingly, the licensee is granted an exemption from the certified AP1000 DCD Tier 1 information, with corresponding changes to Appendix C of the Facility Combined License as described in the request dated March 31, 2017, as supplemented and revised by letters dated August 21, October 9, November 1, December 1 and December 15, 2017 and January 3, 2018. This exemption is related to, and necessary for, the granting of License Amendment Nos. 107 and 106, which is issued concurrently with this exemption.

3. As explained in Section 6.0 of the NRC staff's Safety Evaluation (ADAMS Accession Number ML18017A261, this exemption meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Therefore, pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment needs to be prepared in connection with the issuance of the exemption.

- 4. This exemption is effective as of the date of its issuance.

III. License Amendment Request

By letter dated March 31, 2017 (ADAMS Accession No. ML17090A570), and revised and supplemented by letters dated August 21, October 9, November 1, December 1, and December 15, 2017, and January 3, 2018 (ADAMS Accession Nos. ML17233A325, ML17282A014, ML17305B507, ML17335A762, ML17349A928, and ML18003B082, respectively), the licensee requested that the NRC amend the COLs for

VEGP, Units 3 and 4, COLs NPF-91 and NPF-92. The proposed amendment is described in Section I of this *Federal Register* notice.

The Commission has determined for these amendments that the application 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 rules and regulations in 10 CFR chapter I, which are set forth in the license amendment.

A notice of consideration of issuance of amendment to facility operating license or COL, as applicable, proposed no significant hazards consideration determination, and opportunity for a hearing in connection with these actions, was published in the *Federal Register* on June 6, 2017 (82 FR 26123). No comments were received during the 30-day comment period.

The Commission has determined that these amendments satisfy the criteria for categorical exclusion in accordance with 10 CFR 51.22. Therefore, pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared for these amendments.

IV. Conclusion

Using the reasons set forth in the combined safety evaluation, the staff granted the exemption and issued the amendment that the licensee requested by letter dated March 31, 2017, (ADAMS Accession No. ML17090A570) and revised and supplemented by letters dated August 21, October 9, November 1, December 1, and December 15, 2017, and January 3, 2018 (ADAMS Accession Nos. ML17233A325,

ML17282A014, ML17305B507, ML17335A762, ML17349A928, and ML18003B082, respectively).

The exemption and amendment were issued to the licensee on February 1, 2018, as part of a combined package (ADAMS Accession No. ML18017A721).

Dated at Rockville, Maryland, this 7th day of March, 2018.

For the Nuclear Regulatory Commission.

/RA/

Jennifer L. Dixon-Herrity, Chief,
Licensing Branch 4,
Division of New Reactor Licensing,
Office of New Reactors.