



## NUCLEAR REGULATORY COMMISSION

[Docket No. 50-416; NRC-2016-0236]

### License Renewal for Grand Gulf Nuclear Station, Unit 1

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** License renewal and record of decision; issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) has issued renewed facility operating license No. NPF-29 to Entergy Company (Entergy or the licensee), the operator of Grand Gulf Nuclear Station, Unit 1 (GGNS). Renewed facility operating license No. NPF-29 authorizes operation of GGNS by the licensee at reactor core power levels not in excess of 4,408 megawatts thermal, in accordance with the provisions of the GGNS renewed license and technical specifications. In addition, the NRC has prepared a record of decision (ROD) that supports the NRC's decision to renew facility operating license No. NPF-29.

**DATES:** The license renewal of facility operating license No. NPF-29 was effective on December 1, 2016.

**ADDRESSES:** Please refer to Docket ID **NRC-2016-0236** 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-2016-0236**. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; e-mail: [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 e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov). The ADAMS accession number for each document referenced in this document (if that document is available in ADAMS) is provided the first time that a document is referenced.

- **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:** Emmanuel Sayoc, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555; telephone: 301-415-4084; e-mail: [Emmanuel.Sayoc@nrc.gov](mailto:Emmanuel.Sayoc@nrc.gov).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the NRC has issued renewed facility operating license No. NPF-29 to Entergy Company, the operator of GGNS. Renewed facility operating license No. NPF-29 authorizes operation of GGNS by the licensee at reactor core power levels not in excess of 4,408 megawatts thermal, in accordance with the provisions of the GGNS renewed license and technical specifications. The NRC's ROD that supports the NRC's decision to renew facility operating license No. NPF-29 is available in ADAMS under

Accession No. ML16243A024. As discussed in the ROD and the final supplemental environmental impact statement (FSEIS) for GGNS, Supplement 50 to NUREG-1437, “Generic Environmental Impact Statement for License Renewal of Nuclear Plants Regarding Grand Gulf Nuclear Station, Unit 1,” dated November 30, 2014 (ADAMS Accession No. ML14328A171), the NRC has considered a range of reasonable alternatives that included natural gas combined-cycle (NGCC), supercritical pulverized coal, combination of wind, solar, and NGCC, and the no action alternative. The ROD and FSEIS document the NRC decision for the environmental review that the adverse environmental impacts of license renewal for GGNS are not so great that preserving the option of license renewal for energy planning decision makers would be unreasonable.

Grand Gulf Nuclear Station, Unit 1 is a boiling water reactor located 20 miles southwest of Vicksburg, Mississippi. The application for the renewed license, “License Renewal Application, Grand Gulf Nuclear Station, Unit 1,” dated October 28, 2011, as supplemented by letters dated through October 3, 2016 (ADAMS Accession No. ML11308A052), complied with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the NRC’s regulations. As required by the Act and the NRC’s regulations in chapter 1 of title 10 of the *Code of Federal Regulations* (10 CFR), the NRC has made appropriate findings, which are set forth in the license. A public notice of the proposed issuance of the renewed license and an opportunity for a hearing was published in the *Federal Register* on December 27, 2011 (76 FR 80980).

For further details with respect to this action, see: (1) Entergy Company, license renewal application for Grand Gulf Nuclear Station, Unit 1, dated October 28, 2011, as supplemented by letters dated through October 3, 2016; (2) the NRC’s safety evaluation report

published on October 18, 2016 (ADAMS Accession No. ML16288A185); (3) the NRC's final environmental impact statement (NUREG-1437, Supplement 50), for GGNS published in November 2014; and (4) the NRC's record of decision.

Dated at Rockville, Maryland, this 1<sup>st</sup> day of December, 2016.

For the U.S. Nuclear Regulatory Commission.

Jane E. Marshall, Acting Director,  
Division of License Renewal,  
Office of Nuclear Reactor Regulation.

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