

instruments, and databases to provide the reach to make the next intellectual leaps.

NSF currently provides support for facility construction from two accounts: the Major Research Equipment and Facility Construction (MREFC) account, and the Research and Related Activities (R&RA) account. The MREFC account, established in FY 1995, is a separate budget line item that provides an agency-wide mechanism, permitting directorates to undertake large facility projects that exceed 10% of the Directorate's annual budget; or roughly \$100M or greater. Smaller projects continue to be supported from the R&RA Account.

Facilities are defined as shared-use infrastructure, instrumentation and equipment that are accessible to a broad community of researchers and/or educators. Facilities may be centralized or may consist of distributed installations. They may incorporate large-scale networking or computational infrastructure, multi-user instruments or networks of such instruments, or other infrastructure, instrumentation and equipment having a major impact on a broad segment of a scientific or engineering discipline. Historically, awards have been made for such diverse projects as accelerators, telescopes, research vessels and aircraft, and geographically distributed but networked sensors and instrumentation.

The growth and diversification of large facility projects require that NSF remain attentive to the ever-changing issues and challenges inherent in their planning, construction, operation, management and oversight. Most importantly, dedicated, competent NSF and awardee staff are needed to manage and oversee these projects; giving the attention and oversight that good practice dictates and that proper accountability to taxpayers and Congress demands. To this end, there is also a need for consistent, documented requirements and procedures to be understood and used by NSF program managers and awardees for all such large projects.

*Use of the Information:* Facilities are an essential part of the science and engineering enterprise, and supporting them is one major responsibility of the National Science Foundation (NSF). NSF makes awards to external entities—primarily universities, consortia of universities or non-profit organizations—to undertake construction, management and operation of facilities. Such awards frequently take the form of cooperative agreements. NSF does not directly construct or operate the facilities it

supports. However, NSF retains responsibility for overseeing their development, management and successful performance. The Large Facilities Manual is intended to:

- Provide step-by-step guidance for NSF staff and awardees to carry out effective project planning, management and oversight of large facilities while considering the varying requirements of a diverse portfolio;

- Clearly state the policies, processes and procedures pertinent to each stage of a facility's life cycle from development through construction, operations, and termination; and

- Document and disseminate "best practices" identified over time so that NSF and awardees can carry out their responsibilities more effectively.

This version of the Large Facilities Manual reflects recent changes in organization and formatting to improve readability and facilitate period revision. It also up-dates sections related to contingency and cost estimating requirements. The Manual does not replace existing formal procedures required for all NSF awards, which are described in the *Grant Proposal Guide* and *The Award and Administration Guide*. Instead, it draws upon and supplements them for the purpose of providing detailed guidance regarding NSF management and oversight of facilities projects. All facilities projects require merit and technical review, as well as approval of certain deliverables. The level of review and approval varies substantially from standard grants, as does the level of oversight needed to ensure appropriate and proper accountability for federal funds. The requirements, recommended procedures and best practices presented in the Manual apply to any facility significant enough to require close and substantial interaction with the Foundation and the National Science Board.

This Manual will be updated periodically to reflect changes in requirements, policies and/or procedures. Award Recipients are expected to monitor and adopt the requirements and best practices included in the Manual which are aimed at improving management and oversight of large facilities projects and at enabling the most efficient and cost-effective delivery of tools to the research and education communities.

The submission of proposals and subsequent project documentation to the Foundation related to the development, construction and operations of Large Facilities is part of the collection of information. This information is used to help NSF fulfill

this responsibility in supporting merit-based research and education projects in all the scientific and engineering disciplines. The Foundation also has a continuing commitment to provide oversight on facilities development and construction which must be balanced against monitoring its information collection so as to identify and address any excessive reporting burdens.

NSF has approximately twenty-two (22) Large Facilities in various stages of development, construction, operations and termination. One to two (1 to 2) new awards are made approximately every five (5) years based on science community infrastructure needs and availability of funding. Of the twenty-two large facilities, there are approximately eight (8) facilities annually that are either in development or construction. These stages require the highest level of reporting and management documentation per the Large Facilities Manual.

*Burden to the Public:* The Foundation estimates that an average of three (3) Full Time Equivalents (FTEs) are necessary for each facility project in development or construction (Total Project Cost of \$200–\$500M) to respond to NSF routine reporting and project management documentation requirements on an annual basis; or 6240 hours per year. The Foundation estimates an average of one (1) FTE for a facility in operations; or 2080 hours per year. Assuming an average of eight (8) facilities in construction and the balance in operations, this equates to roughly 80,000 public burden hours annually.

**Suzanne H. Plimpton,**  
*Reports Clearance Officer, National Science Foundation.*

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## NUCLEAR REGULATORY COMMISSION

[Docket No. 50-483; NRC-2012-0001]

### License Renewal for Callaway Plant, 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-30 to Union Electric Company (dba Ameren Missouri or the licensee), the operator of the Callaway Plant, Unit 1 (Callaway). Renewed facility operating license No.

NPF-30 authorizes operation of Callaway by the licensee at reactor core power levels not in excess of 3565 megawatts thermal, in accordance with the provisions of the Callaway 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-30.

**DATES:** The license renewal of facility operating license No. NPF-30 was effective on March 6, 2015.

**ADDRESSES:** Please refer to Docket ID NRC-2012-0001 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-2012-0001. 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). 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:** John Daily, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555; telephone: 301-415-3873; email: [John.Daily@nrc.gov](mailto:John.Daily@nrc.gov).

**SUPPLEMENTARY INFORMATION:** Notice is hereby given that the NRC has issued renewed facility operating license No. NPF-30 to Union Electric Company, the operator of Callaway. Renewed facility operating license No. NPF-30 authorizes operation of Callaway by the licensee at reactor core power levels not

in excess of 3565 megawatts thermal, in accordance with the provisions of the Callaway renewed license and technical specifications. The NRC's ROD that supports the NRC's decision to renew facility operating license No. NPF-30 is available in ADAMS under Accession No. ML14302A238. As discussed in the ROD and the final supplemental environmental impact statement (FSEIS) for Callaway, Supplement 51 to NUREG-1437, "Generic Environmental Impact Statement for License Renewal of Nuclear Plants Regarding Callaway Plant, Unit 1," dated October 2014 (ADAMS Accession No. ML14289A140), the NRC has considered a range of reasonable alternatives that included natural gas combined-cycle, supercritical pulverized coal, new nuclear, wind power, energy efficiency measures, 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 Callaway are not so great that preserving the option of license renewal for energy planning decisionmakers would be unreasonable.

Callaway, Unit 1, is a pressurized water reactor located in Callaway County, Missouri. The application for the renewed license, "Callaway Plant, Unit 1, License Renewal Application," dated December 15, 2011, as supplemented by letters dated through June 20, 2014 (ADAMS Accession No. ML113530372), 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*, 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 February 24, 2012 (77 FR 11173).

For further details with respect to this action, see: (1) Union Electric Company's (dba Ameren Missouri) license renewal application for Callaway Plant, Unit 1 dated December 15, 2011, as supplemented by letters dated through June 20, 2014; (2) the NRC's safety evaluation report published in August 2014 (ADAMS Accession No. ML14232A380); (3) the NRC's final environmental impact statement (NUREG-1437, Supplement 51), for Callaway, Unit 1, published in October 2014; and (4) the NRC's ROD.

Dated at Rockville, Maryland, this 6th day of March, 2015.

For the Nuclear Regulatory Commission.  
**Christopher G. Miller,**  
*Director, Division of License Renewal, Office of Nuclear Reactor Regulation.*

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## **NUCLEAR REGULATORY COMMISSION**

### **Advisory Committee on Reactor Safeguards (ACRS); Meeting of the ACRS Subcommittee on Thermal Hydraulic Phenomena; Notice of Meeting**

The ACRS Subcommittee on Thermal Hydraulic Phenomena will hold a meeting on March 20, 2015, Room T-2B1, 11545 Rockville Pike, Rockville, Maryland.

The meeting will be open to public attendance, with the exception of portions that may be closed to protect information that is propriety pursuant to 5 U.S.C. 552(c)(4). The agenda for the subject meeting shall be as follows:

**Friday, March 20, 2015—1:00 p.m. Until 5:00 p.m.**

The Subcommittee will review Topical Report NEDE-33766P, "GEH Simplified Stability Solution" (GS3). The Subcommittee will hear presentations by and hold discussions with the NRC staff, General Electric-Hitachi, and other interested persons regarding this matter. The Subcommittee will gather information, analyze relevant issues and facts, and formulate proposed positions and actions, as appropriate, for deliberation by the Full Committee.

Members of the public desiring to provide oral statements and/or written comments should notify the Designated Federal Official (DFO), Zena Abdullahi (Telephone 301-415-8716 or Email: [Zena.Abdullahi@nrc.gov](mailto:Zena.Abdullahi@nrc.gov)) five days prior to the meeting, if possible, so that appropriate arrangements can be made. Thirty-five hard copies of each presentation or handout should be provided to the DFO thirty minutes before the meeting. In addition, one electronic copy of each presentation should be emailed to the DFO one day before the meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the DFO with a CD containing each presentation at least thirty minutes before the meeting. Electronic recordings will be permitted only during those portions of the meeting that are open to the public. Detailed procedures for the conduct of and participation in ACRS meetings were