



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

November 30, 2018

Mr. Keith Jury  
Vice President, Regulatory Assurance  
Entergy Services, Inc.  
M-ECH-61  
1340 Echelon Parkway  
Jackson, MS 39213

**SUBJECT: ARKANSAS NUCLEAR ONE, UNITS 1 AND 2, AND GRAND GULF NUCLEAR STATION, UNIT 1 — ISSUANCE OF CONFORMING AMENDMENTS  
RE: TRANSFERS OF RENEWED FACILITY OPERATING LICENSES  
(EPID L-2018-LLM-0003)**

Dear Mr. Jury:

By letter dated August 1, 2018 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML18177A236), the U.S. Nuclear Regulatory Commission (NRC, the Commission) issued orders to Entergy Operations, Inc. (the licensee), approving the following:

- The direct transfer of Renewed Facility Operating License (RFOL) Nos. DPR-51 and NPF-6 for Arkansas Nuclear One, Units 1 and 2, and the general license for the independent spent fuel storage installation currently held by Entergy Arkansas, Inc., as owner, to a new limited liability company, Entergy Arkansas, LLC (EAL). EAL would acquire ownership of the facilities, and Entergy Operations, Inc. would remain responsible for the operation and maintenance of Arkansas Nuclear One, Units 1 and 2, and the independent spent fuel storage installation.
- The indirect transfer of membership interests of EAL (the owner of Arkansas Nuclear One) to an intermediate company, Entergy Utility Holding Company, LLC, which would be the new parent company of EAL.
- The indirect transfer of membership interests of Entergy Louisiana, LLC (the owner of River Bend Station, Unit 1; Waterford Steam Electric Station, Unit 3; and the associated independent spent fuel storage installation), to the extent Entergy Louisiana, LLC, is affected by the addition of EAL; Entergy Mississippi, LLC; and Entergy New Orleans, LLC, to Entergy Utility Holding Company, LLC.

By letter dated November 15, 2018 (ADAMS Accession No. ML18319A347), the licensee provided satisfactory documentary evidence of the appropriate amount of insurance required by Title 10 of the *Code of Federal Regulations* (10 CFR) Part 140 and 10 CFR Section 50.54. The letter also notified the NRC of the November 30, 2018, targeted closing date for the license transfer.

Accordingly, the Commission has issued the enclosed Amendment No. 262 for RFOL No. DPR-51 (Enclosure 1) and Amendment No. 312 for RFOL No. NPF-6 (Enclosure 2) for

Arkansas Nuclear One, Units 1 and 2, respectively, to reflect the direct transfer of ownership of the facilities.

By letter dated August 1, 2018, the NRC staff determined that the transfer of antitrust responsibilities for RFOL No. NPF-29 for Grand Gulf Nuclear Station, Unit 1 (Grand Gulf), and the associated general license for the independent spent fuel storage installation, from Entergy Mississippi, Inc. to a new limited liability company, Entergy Mississippi, LLC, did not meet the criteria in 10 CFR 50.80 for a license transfer. Therefore, the NRC did not issue an order for Grand Gulf. However, the Commission has issued the enclosed Amendment No. 215 for RFOL No. NPF-29 (Enclosure 3) for Grand Gulf to reflect the name of the newly formed entity with antitrust responsibilities as a result of the proposed transaction.

The safety evaluation supporting the conforming amendments was enclosed with the orders issued on August 1, 2018.

Enclosures 4 and 5 contain signed originals of Amendment No. 13 to Indemnity Agreement No. B-65 and Amendment No. 7 to Indemnity Agreement No. B-72, respectively, which are required in connection with the transfer of the licenses. Please sign one original and return it to the NRC's Document Control Desk as proof of acceptance. Please sign the other originals and keep them for your records.

Notice of Issuance will be included in the Commission's biweekly *Federal Register* notice.

Sincerely,



Margaret W. O'Banion, Project Manager  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-313, 50-368, 72-13,  
50-416, and 72-50

Enclosures:

1. Amendment No. 262 to DPR-51
2. Amendment No. 312 to NPF-6
3. Amendment No. 215 to NPF-29
4. Amendment No. 13 to Indemnity Agreement No. B-65
5. Amendment No. 7 to Indemnity Agreement No. B-72

cc: Listserv

**ENCLOSURE 1**

AMENDMENT NO. 262 FOR

ARKANSAS NUCLEAR ONE, UNIT 1

RENEWED FACILITY OPERATING LICENSE NO. DPR-51



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

ENTERGY OPERATIONS, INC.

DOCKET NO. 50-313

ARKANSAS NUCLEAR ONE, UNIT 1

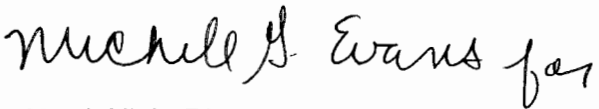
AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 262  
Renewed License No. DPR-51

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee), dated September 21, 2017, as supplemented by letter dated November 15, 2018, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended as indicated in the attachment to this license amendment.
3. The license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Ho K. Nieh, Director  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to Renewed Facility  
Operating License No. DPR-51

Date of Issuance: November 30, 2018

ATTACHMENT TO LICENSE AMENDMENT NO. 262  
RENEWED FACILITY OPERATING LICENSE NO. DPR-51  
ARKANSAS NUCLEAR ONE, UNIT 1  
DOCKET NO. 50-313

Replace the following pages of Renewed Facility Operating License No. DPR-51 with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Renewed Facility Operating License

REMOVE

1  
2

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1  
2



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

ENTERGY ARKANSAS, LLC  
ENTERGY OPERATIONS, INC.  
DOCKET NO. 50-313  
ARKANSAS NUCLEAR ONE, UNIT 1  
RENEWED FACILITY OPERATING LICENSE

Renewed License No. DPR-51

1. The U.S. Nuclear Regulatory Commission (the Commission) having previously made the findings set forth in License No. DPR-51 issued on May 21, 1974, has now found that:
  - a. The application to renew License No. DPR-51 filed by Entergy Arkansas, LLC and Entergy Operations, Inc., complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I and all required notifications to other agencies or bodies have been duly made;
  - b. Actions have been identified and have been or will be taken with respect to (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1); and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by the renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for the Arkansas Nuclear One, Unit 1 plant and that any changes made to the plant's current licensing basis in order to comply with 10 CFR 54.29(a) are in accord with the Act and the Commission's regulations;
  - c. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
  - d. There is reasonable assurance (i) that the activities authorized by this renewed license can be conducted without endangering the health and safety of the public and (ii) that such activities will be conducted in compliance with the rules and regulations of the Commission;
  - e. Entergy Operations, Inc. (EOI) is technically and financially qualified to engage in the activities authorized by this renewed license in accordance with the rules and regulations of the Commission;
  - f. Entergy Arkansas, LLC has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;

- g. The renewal of this operating license will not be inimical to the common defense and security or to the health and safety of the public;
  - h. After weighing the environmental, economic, technical, and other benefits of the facility against environmental costs and considering available alternatives, the issuance of the renewed Facility Operating License No. DPR-51 is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
  - i. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including 10 CFR Section 30.33, 40.32, 70.23 and 70.31.
2. On the basis of the foregoing findings regarding this facility, Facility Operating License DPR-51, issued on May 21, 1974, is superseded by renewed Facility Operating License No. DPR-51, which is hereby issued to Entergy Arkansas, LLC and Entergy Operations, Inc., to read as follows:
- a. This renewed license applies to Arkansas Nuclear One, Unit 1, a pressurized water reactor and associated equipment (the facility), owned by Entergy Arkansas, LLC. The facility is located in Pope County, Arkansas, and is described in the "Safety Analysis Report" (SAR) as supplemented and amended, and the Environmental Report as supplemented and amended.
  - b. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - (1) Entergy Arkansas, LLC, pursuant to Section 104b of the Act and 10 CFR Part 50, to possess but not operate the facility at the designated location in Pope County, Arkansas, in accordance with the procedures and limitations set forth in this renewed license.
    - (2) EOI, pursuant to Section 104b of the Act and 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Pope County, Arkansas in accordance with the procedures and limitations set forth in this renewed license;
    - (3) EOI, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time at the facility site and as designated solely for the facility, special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the SAR, as supplemented and amended;
    - (4) EOI, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;



**ENCLOSURE 2**

AMENDMENT NO. 312 FOR

ARKANSAS NUCLEAR ONE, UNIT 2

RENEWED FACILITY OPERATING LICENSE NO. NPF-6



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

ENTERGY OPERATIONS, INC.

DOCKET NO. 50-368

ARKANSAS NUCLEAR ONE, UNIT 2

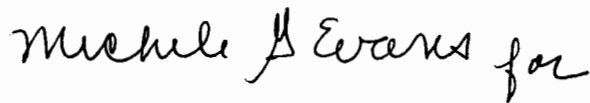
AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 312  
Renewed License No. NPF-6

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee), dated September 21, 2017, as supplemented by letter dated November 15, 2018, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended as indicated in the attachment to this license amendment.
3. The license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Ho K. Nieh, Director  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to Renewed Facility  
Operating License No. NPF-6

Date of Issuance: November 30, 2018

ATTACHMENT TO LICENSE AMENDMENT NO. 312  
RENEWED FACILITY OPERATING LICENSE NO. NPF-6  
ARKANSAS NUCLEAR ONE, UNIT 2  
DOCKET NO. 50-368

Replace the following pages of Renewed Facility Operating License No. NPF-6 with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Renewed Facility Operating License

REMOVE

1  
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INSERT

1  
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7



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

ENTERGY ARKANSAS, LLC  
ENTERGY OPERATIONS, INC.

DOCKET NO. 50-368

ARKANSAS NUCLEAR ONE, UNIT 2

RENEWED FACILITY OPERATING LICENSE NO. NPF-6

1. The Nuclear Regulatory Commission (the Commission) having previously made the findings set forth in License NPF-6 issued on September 1, 1978 has now found that:
  - A. The application to renew License NPF-6 filed by Entergy Arkansas, LLC and Entergy Operations, Inc. (EOI), complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I and all required notifications to other agencies or bodies have been duly made;
  - B. Construction of Arkansas Nuclear One, Unit 2 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-89 and the application, as amended, the provisions of the Act and the regulations of the Commission.
  - C. Actions have been identified and have been or will be taken with respect to (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1); and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by the renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for Arkansas Nuclear One, Unit 2 (the facility), and that any changes made to the facility's current licensing basis in order to comply with 10 CFR 54.29(a) are in accord with the Act and the Commission's regulations;
  - D. The facility requires exemptions from certain requirements of (1) Sections 50.55a(g)(2) and 50.55a(g)(4) of 10 CFR Part 50, (2) Appendices G and H to 10 CFR Part 50, and (3) Appendix J to 10 CFR Part 50 for a period of three years. These exemptions are described in the Office of Nuclear Reactor Regulation's safety evaluations supporting the granting of these exemptions which are enclosed in the letter transmitting this license amendment. These exemptions are authorized by law and will not endanger life or property or the common defense and security and are otherwise in the public interest. The exemptions are, therefore, hereby granted. With the granting of these exemptions, the facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission;
  - E. There is reasonable assurance: (i) that the activities authorized by this renewed operating license can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the regulations of the Commission;

- F. EOI is technically and financially qualified to engage in the activities authorized by this renewed operating license in accordance with the regulations of the Commission;
  - G. Entergy Arkansas, LLC has satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
  - H. The issuance of this renewed operating license will not be inimical to the common defense and security or to the health and safety of the public;
  - I. After weighing the environmental, economic, technical and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Renewed Facility Operating License No. NPF-6 subject to the conditions for protection of the environment set forth herein, is in accordance with 10 CFR Part 51 (formerly Appendix D to 10 CFR Part 50) of the Commission's regulations and all applicable requirements have been satisfied; and
  - J. The receipt, possession, and use of source, byproduct and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70, including 10 CFR Sections 30.33, 40.32, 70.23 and 70.31.
2. Facility Operating License No. NPF-6, issued September 1, 1978, is superceded by Renewed Facility Operating License No. NPF-6, which is hereby issued to Entergy Arkansas, LLC and Entergy Operations, Inc. to read as follows:
- A. This renewed license applies to Arkansas Nuclear One, Unit 2, a pressurized water reactor and associated equipment (the facility) owned by Entergy Arkansas, LLC. The facility is located in Pope County, Arkansas and is described in the Final Safety Analysis Report as supplemented and amended (Amendments 20 through 47) and the Environmental Report as supplemented and amended (Amendments 1 through 7).
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
    - (1) Entergy Arkansas, LLC pursuant to Section 103 of the Act and 10 CFR Part 50, to possess, but not operate, the facility at the designated location in Pope County, Arkansas in accordance with the procedures and limitations set forth in this renewed license.
    - (2) EOI, pursuant to Section 103 of the Act and 10 CFR Part 50, "Licensing of Production and Utilization Facilities," to possess, use, and operate the facility at the designated location in Pope County, Arkansas in accordance with the procedures and limitations set forth in this renewed license;
    - (3) EOI, pursuant to the Act and 10 CFR Part 70, to receive, possess and use at any time at the facility site and as designated solely for the facility, special nuclear material as reactor fuel, in accordance with the limitations for storage and amounts required for reactor operation, as described in the Final Safety Analysis Report, as supplemented and amended;

- 2.C.(3)(l) Deleted per Amendment 24, 6/19/81.
- 2.C.(3)(m) Deleted per Amendment 12, 6/12/79.
- 2.C.(3)(n) Deleted per Amendment 7, 12/1/78.
- 2.C.(3)(o) Deleted per Amendment 7, 12/1/78.
- 2.C.(3)(p) Deleted per Amendment 255, 9/28/04.
- 2.C.(4) (Number has never been used.)
- 2.C.(5) Deleted per Amendment 255, 9/28/04.
- 2.C.(6) Deleted per Amendment 255, 9/28/04.
- 2.C.(7) Deleted per Amendment 78, 7/22/86.

(8) Antitrust Conditions

EOI shall not market or broker power or energy from Arkansas Nuclear One, Unit 2. Entergy Arkansas, LLC is responsible and accountable for the actions of its agents to the extent said agent's actions affect the marketing or brokering of power or energy from ANO, Unit 2.

(9) Rod Average Fuel Burnup

Entergy Operations is authorized to operate the facility with an individual rod average fuel burnup (burnup averaged over the length of a fuel rod) not to exceed 60 megawatt-days/kilogram of uranium.

(10) Mitigation Strategies

The licensee shall develop and maintain strategies for addressing large fires and explosions that include the following key areas:

- (i) Fire fighting response strategy with the following elements:
  1. Pre-defined coordinated fire response strategy and guidance
  2. Assessment of mutual aid fire fighting assets
  3. Designated staging areas for equipment and materials
  4. Command and control
  5. Training of response personnel
- (ii) Operations to mitigate fuel damage considering the following:
  1. Protection and use of personnel assets
  2. Communications
  3. Minimizing fire spread
  4. Procedures for implementing integrated fire response strategy
  5. Identification of readily-available pre-staged equipment
  6. Training on integrated fire response strategy
  7. Spent fuel pool mitigation measures

**ENCLOSURE 3**

AMENDMENT NO. 215 FOR

GRAND GULF NUCLEAR STATION, UNIT 1

RENEWED FACILITY OPERATING LICENSE NO. NPF-29





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

ENERGY OPERATIONS, INC.

SYSTEM ENERGY RESOURCES, INC.

COOPERATIVE ENERGY, A MISSISSIPPI ELECTRIC COOPERATIVE

ENERGY MISSISSIPPI, INC.

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO RENEWED FACILITY OPERATING LICENSE

Amendment No. 215  
Renewed License No. NPF-29

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee), dated September 21, 2017, as supplemented by letter dated November 15, 2018, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended as indicated in the attachment to this license amendment.
3. The license amendment is effective as of its date of issuance and shall be implemented within 60 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert J. Pascarelli, Chief  
Plant Licensing Branch IV  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to Renewed Facility  
Operating License No. NPF-29 and  
Appendix C Antitrust Conditions

Date of Issuance: November 30, 2018

ATTACHMENT TO LICENSE AMENDMENT NO. 215

RENEWED FACILITY OPERATING LICENSE NO. NPF-29

GRAND GULF NUCLEAR STATION, UNIT 1

DOCKET NO. 50-416

Replace the following pages of Renewed Facility Operating License No. NPF-29 and Appendix C Antitrust Conditions with the attached revised pages. The revised pages are identified by amendment number and contain marginal lines indicating the areas of change.

Renewed Facility Operating License

REMOVE

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INSERT

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Appendix C Antitrust Conditions

REMOVE

1

INSERT

1



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

ENTERGY OPERATIONS, INC.

SYSTEM ENERGY RESOURCES, INC.

COOPERATIVE ENERGY, A MISSISSIPPI ELECTRIC COOPERATIVE

ENTERGY MISSISSIPPI, LLC

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

RENEWED FACILITY OPERATING LICENSE

Renewed License No. NPF-29

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
  - A. The application for renewed license filed by Mississippi Power & Light Company (MP&L) (now renamed Entergy Mississippi, LLC), for itself and Middle South Energy, Inc., (now renamed System Energy Resources, Inc. (SERI), and South Mississippi Electric Power Association (SMEPA), (now renamed Cooperative Energy, A Mississippi electric cooperative (Cooperative Energy)), as amended, (hereinafter referred to as the licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I, and all required notifications to other agencies or bodies have been duly made;
  - B. Construction of the Grand Gulf Nuclear Station, Unit 1 (the facility), has been substantially completed in conformity with Construction Permit No. CPPR-118 and the application, as amended, the provisions of the Act, and the regulations of the Commission;
  - C. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission (except as exempted from compliance in Section 2.D. below);
  - D. There is reasonable assurance: (i) that the activities authorized by this renewed operating license can be conducted without endangering the health and safety of the public; and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I (except as exempted from compliance in Section 2.D. below);

- E. Entergy Operations, Inc. (EOI), is technically qualified to engage in the activities authorized by this renewed operating license in accordance with the Commission's regulations set forth in 10 CFR Chapter I;
  - F. The licensees have satisfied the applicable provisions of 10 CFR Part 140, "Financial Protection Requirements and Indemnity Agreements," of the Commission's regulations;
  - G. The issuance of this renewed license will not be inimical to the common defense and security or to the health and safety of the public;
  - H. After weighing the environmental, economic, technical, and other benefits of the facility against environmental and other costs and considering available alternatives, the issuance of Renewed Facility Operating License No. NPF-29, subject to the conditions for protection of the environment set forth in the Environmental Protection Plan attached as Appendix B, is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied;
  - I. The receipt, possession, and use of source, by-product and special nuclear material as authorized by this renewed license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40, and 70; and
  - J. Actions have been identified and have been or will be taken with respect to (1) managing the effects of aging during the period of extended operation on the functionality of structures and components that have been identified to require review under 10 CFR 54.21(a)(1); and (2) time-limited aging analyses that have been identified to require review under 10 CFR 54.21(c), such that there is reasonable assurance that the activities authorized by this renewed license will continue to be conducted in accordance with the current licensing basis, as defined in 10 CFR 54.3, for the facility, and that any changes made to the facility's current licensing basis in order to comply with 10 CFR 54.29(a) are in accordance with the Act and the Commission's regulations.
2. Based on the foregoing findings regarding this facility and pursuant to Commission Order CLI-84-19, dated October 25, 1984, License NPF-13, as amended, is superseded by this Renewed Facility Operating License NPF-29 which is hereby issued to Entergy Operations, Inc., Entergy Mississippi, LLC, System Energy Resources, Inc., and Cooperative Energy to read as follows:
- A. This renewed license applies to the Grand Gulf Nuclear Station (GGNS), Unit 1, a boiling water nuclear reactor and associated equipment (the facility), owned by System Energy Resources, Inc., and Cooperative Energy and operated by Entergy Operations, Inc. The facility is located in Claiborne County, Mississippi, and is described in the licensees' "Final Safety Analysis Report," as supplemented and amended, and in the licensees' Environmental Report, as supplemented and amended.
  - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:

(3) Antitrust Conditions

- (a) Entergy Mississippi, LLC and SERI shall comply with the antitrust conditions delineated in Appendix C. SERI is authorized to transfer its rights to possess, to use and to operate the facility to EOI, provided however, that until further authorization of the Commission, Entergy Mississippi, LLC and SERI shall continue to be responsible for compliance with the obligations imposed on the licensees in these antitrust conditions, and provided further that EOI accepts the right to possess, use and operate the facility and SERI accepts the right to possess the facility subject to the outcome of the pending separate antitrust review of the antitrust considerations related to the application dated September 2, 1986. SERI is authorized to transfer its rights to operate the facility to EOI.
- (b) Entergy Mississippi, LLC and SERI are responsible and accountable for the actions of their respective agents to the extent said agent's actions contravene the antitrust conditions in Appendix C.

(4) Independent Verification of Staff Performance and Other Plant Activities  
(Section 13.4, SER, SSER #2)

- (a) MP&L<sup>1</sup> shall establish a subcommittee of the Corporate Safety Review Committee to review and evaluate the:
1. Status and readiness of the plant and systems needed to support intended modes of operation and/or testing;
  2. Readiness of personnel to conduct intended operation and testing;
  3. Morale and attitudes of plant personnel that have a bearing on safe plant operation;
  4. Past performance in plant operations and adherence to procedures and administrative controls;
  5. Changes in current organization with regard to experience and qualifications of plant management and supervisory personnel since the last evaluation;
  6. Results and effectiveness of the Plant Safety Review Committee (PSRC),

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<sup>1</sup> The original license authorized Mississippi Power & Light Company (MP&L) to operate the facility. Amendment 27 authorized SERI to operate the facility. Amendment 125 resulted in a name change for Mississippi Power & Light Company (MP&L) to Entergy Mississippi, Inc., which was subsequently changed to Entergy Mississippi, LLC.

## APPENDIX C

### ANTITRUST CONDITIONS OPERATING LICENSE NO. NPF-29

Entergy Mississippi, LLC and SERI (the term licensees in Appendix C refers to Entergy Mississippi, LLC and SERI) shall comply with the following conditions:

#### I. DEFINITIONS

- (a) "Western Mississippi Area" means the counties of: Walthall, Lawrence, Jefferson Davis, Covington; Simpson, Smith, Scott, Leake, Attala, Choctaw, Montgomery, Grenada, Yalobusha, Panola, Tate, DeSoto, Pike, Amite, Wilkinson, Adams, Franklin, Lincoln, Copiah, Jefferson, Claiborne, Hinds, Rankin, Madison, Yazoo, Warren, Issaquena, Sharkey, Humphreys, Holmes, Carroll, Leflore, Sunflower, Washington, Bolivar, Tallahatchie, Quitman, Coahoma, and Tunica. An entity shall be deemed to be in the "Western Mississippi Area" if it has electric power generation, transmission, or distribution facilities located in whole or in part in the above described area.
- (b) "Bulk Power" means the electric power, and any attendant energy, supplied or made available at transmission or subtransmission voltage by one entity to another.
- (c) "Entity" means a person, a private or public corporation a municipality, a cooperative, an association, a joint stock association or business trust owning, operating or proposing to own or operate equipment or facilities for the generation, transmission or distribution of electricity, provided that, except for municipalities or rural electric cooperatives, "entity" is restricted to those which are or will be public utilities under the laws of the state in which the entity transacts or will transact business or under the Federal Power Act, and are or will be providing electric service under a contract or rate schedule on file with and subject to the regulation of a state regulatory commission or the Federal Power Commission.
- (d) "Cost" means any operating and maintenance expenses involved together with any ownership costs which are reasonably allocable to the transaction consistent with power pooling practices (where applicable). No value shall be included for loss of revenues from sale of power at wholesale or retail by one party to a customer which another party might otherwise serve. Cost shall include a reasonable return on Licensees' investment. The sale of portion of the capacity of a generating unit shall be upon the basis of a rate that will recover to the seller the pro rata part of the fixed costs and operating and maintenance

**ENCLOSURE 4**

AMENDMENT NO. 13 TO  
INDEMNITY AGREEMENT NO. B-65





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

Docket No. 50-313  
50-368  
72-013

AMENDMENT TO INDEMNITY AGREEMENT NO. B-65  
AMENDMENT NO. 13

Effective November 30, 2018, Indemnity Agreement No. B-65, between Entergy Arkansas, Inc., and Entergy Operations, Inc., and the United States Nuclear Regulatory Commission, dated November 8, 1972, as amended, is hereby further amended as follows:


The name "Entergy Arkansas Inc." is deleted wherever it appears in the agreement and substituted in lieu thereof by the name: "Entergy Arkansas, LLC."

Item 1 of the Attachment to the indemnity agreement is modified by deleting the name "Entergy Arkansas, Inc." wherever it appears in the agreement and substituted in lieu thereof by the name:

Item 1 – Licensee      Entergy Arkansas, LLC  
  
Address                425 West Capitol Avenue  
                              Little Rock, Arkansas 72201

In light of the above, Indemnity Agreement No. B-65 is between "Entergy Arkansas, LLC," "Entergy Operations, Inc.," and the United States Nuclear Regulatory Commission.

FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

  
\_\_\_\_\_  
Anthony Bowers, Chief  
Financial Projects Branch  
Division of Licensing Projects  
Office of Nuclear Reactor Regulation

Accepted \_\_\_\_\_ 20\_\_

Accepted \_\_\_\_\_ 20\_\_

By \_\_\_\_\_  
Entergy Arkansas, LLC

By \_\_\_\_\_  
Entergy Operations, Inc.

**ENCLOSURE 5**

AMENDMENT NO. 7 TO  
INDEMNITY AGREEMENT NO. B-72



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

Docket No. 50-416  
72-050

AMENDMENT TO INDEMNITY AGREEMENT NO. B-72  
AMENDMENT NO. 7

Effective November 30, 2018, Indemnity Agreement No. B-72, between Entergy Operations, Inc., System Energy Resources, Inc., Cooperative Energy, a Mississippi electric cooperative, and Entergy Mississippi, Inc., and the United States Nuclear Regulatory Commission, dated July 15, 1981, as amended, is hereby further amended as follows:

The name "Entergy Mississippi, Inc." is deleted wherever it appears in the agreement and substituted in lieu thereof by the name: "Entergy Mississippi, LLC"

In light of the above, Indemnity Agreement No. B-72 is between "Entergy Operations, Inc.," "System Energy Resources, Inc.," "Cooperative Energy, a Mississippi electric cooperative," "Entergy Mississippi, LLC," and the United States Nuclear Regulatory Commission.

FOR THE UNITED STATES NUCLEAR REGULATORY COMMISSION

Anthony Bowers, Chief  
Financial Projects Branch  
Division of Licensing Projects  
Office of Nuclear Reactor Regulation

Accepted \_\_\_\_\_ 20\_\_

By \_\_\_\_\_  
Entergy Operations, Inc.

Accepted \_\_\_\_\_ 20\_\_

By \_\_\_\_\_  
Entergy Mississippi, LLC

Accepted \_\_\_\_\_ 20\_\_

By \_\_\_\_\_  
System Energy Resources, Inc.

Accepted \_\_\_\_\_ 20\_\_

By \_\_\_\_\_  
Cooperative energy, a Mississippi electric cooperative

**SUBJECT: ARKANSAS NUCLEAR ONE, UNITS 1 AND 2, AND GRAND GULF NUCLEAR STATION, UNIT 1 — ISSUANCE OF CONFORMING AMENDMENTS RE: TRANSFERS OF RENEWED FACILITY OPERATING LICENSES (EPID L-2018-LLM-0003) DATED NOVEMBER 30, 2018**

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\*by e-mail

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