



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

AUG 29 1985

Docket No.: 50-458

Mr. William J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

Dear Mr. Cahill:

SUBJECT: ISSUANCE OF FACILITY OPERATING LICENSE NPF-40 RIVER BEND STATION,
UNIT 1

The U.S. Nuclear Regulatory Commission (NRC) has issued the enclosed Facility Operating License NPF-40, together with Technical Specifications and Environmental Protection Plan for the River Bend Station, Unit 1. License No. NPF-40 authorizes operation of the River Bend Station, Unit 1 at reactor power levels not in excess of 2894 megawatts thermal (100% rated power). Pending Commission approval, operation is restricted to power levels not to exceed five percent of rated power (144.7 megawatts thermal).

Enclosed is a copy of a related notice, the original of which has been forwarded to the Office of the Federal Register for publication.

Three signed copies of Amendment No. 1 to Indemnity Agreement No. B-104 which covers the activities authorized under License No. NPF-40 are also enclosed. Please sign all copies and return one copy to this office.

An assessment of the effect of license duration on matters discussed in the Final Environmental Statement for River Bend Station, Unit 1 is contained in Enclosure 4.

Sincerely,

Frank J. Mungia
for Hugh L. Thompson, Jr., Director
Division of Licensing
Office of Nuclear Reactor Regulation

8509060177 850829
PDR ADDCK 05000458
PDR

Enclosures:

1. Facility Operating License NPF-40
2. Federal Register Notice
3. Amendment No. 1 to Indemnity Agreement No. B-104
4. Assessment of the Effect of License Duration on Matters Discussed in the FES

cc: w/enclosures:
See next page

P. J. M

DISTRIBUTION

Docket File*

50-458

AUG 29 1985

NRC PLK*
Local PDR*
PRC System*
NSIC*
LB#2 Reading
EHylton*
BSiegel*
TKovak*
JSaltzman, SAB
Dewey, OELD*
CMiles
HDenton
JRutberg
AToalston
WMiller, LFME
JPartlow*
BGrimes*
EJordan*
LHarron*
EButcher, SSPB
TBarnhart (4)*
Inez Bailey
SStern*

Docket No.: 50-458

Mr. William J. Cahill, Jr.
Senior Vice President
River Bend Nuclear Group
Gulf States Utilities Company
Post Office Box 2951
Beaumont, Texas 77704
ATTN: Mr. J. E. Booker

AUG 29 1985

Dear Mr. Cahill:

SUBJECT: ISSUANCE OF FACILITY OPERATING LICENSE NPF-40 RIVER BEND STATION,
UNIT 1

The U.S. Nuclear Regulatory Commission (NRC) has issued the enclosed Facility Operating License NPF-40, together with Technical Specifications and Environmental Protection Plan for the River Bend Station, Unit 1. License No. NPF-40 authorizes operation of the River Bend Station, Unit 1 at reactor power levels not in excess of 2894 megawatts thermal (100% rated power). Pending Commission approval, operation is restricted to power levels not to exceed five percent of rated power (144.7 megawatts thermal).

Enclosed is a copy of a related notice, the original of which has been forwarded to the Office of the Federal Register for publication.

Three signed copies of Amendment No. 1 to Indemnity Agreement No. B-104 which covers the activities authorized under License No. NPF-40 are also enclosed. Please sign all copies and return one copy to this office.

An assessment of the effect of license duration on matters discussed in the Final Environmental Statement for River Bend Station, Unit 1 is contained in Enclosure 4.

Sincerely,

FS Frank Miraglia / for
Hugh L. Thompson, Jr., Director
Division of Licensing
Office of Nuclear Reactor Regulation

Enclosures:

1. Facility Operating License NPF-40
2. Federal Register Notice
3. Amendment No. 1 to Indemnity Agreement No. B-104
4. Assessment of the Effect of License Duration on Matters Discussed in the FES

cc: w/enclosures:
See next page

DISTRIBUTION
See next page

FS
LB#2/DL
SStem:m1
08/15/85

US
LB#2/DL
EHDton
08/15/85

SP
Atoalston
08/15/85

SP
JSaltzman
08/15/85

SP
L. Dewey
08/15/85

WB
LB#2/DL
WButler
08/14/85

WB
ADL
Novak
08/29/85

FS
RTraglia
08/29/85

FS
HThompson
08/29/85

DD/NRR
DEisenhut
08/ /85

D/NRR
HDenton
08/ /85

Mr. William J. Cahill, Jr.
Gulf States Utilities Company

River Bend Nuclear Plant

cc:

Troy B. Conner, Jr., Esq.
Conner and Wetterhahn
1747 Pennsylvania Avenue, NW
Washington, D.C. 20006

Ms. Linda B. Watkins/Mr. Steven Irving
Attorney at Law
355 Napoleon Street
Baton Rouge, Louisiana 70802

Mr. William J. Reed, Jr.
Director - Nuclear Licensing
Gulf States Utilities Company
P. O. Box 2951
Beaumont, Texas 77704

Mr. David Zaloudek
Nuclear Energy Division
Louisiana Department of
Environmental Quality
P. O. Box 14690
Baton Rouge, Louisiana 70898

Richard M. Troy, Jr., Esq.
Assistant Attorney General in Charge
State of Louisiana Department of Justice
234 Loyola Avenue
New Orleans, Louisiana 70112

Mr. J. David McNeill, III
William G. Davis, Esq.
Department of Justice
Attorney General's Office
7434 Perkins Road
Baton Rouge, Louisiana 70808

Resident Inspector
P. O. Box 1051
St. Francisville, Louisiana 70775

H. Anne Plettinger
3456 Villa Rose Drive
Baton Rouge, Louisiana 70806

Gretchen R. Rothschild
Louisianians for Safe Energy, Inc.
1659 Glenmore Avenue
Baton Rouge, Louisiana 70775

James W. Pierce, Jr., Esq.
P. O. Box 23571
Baton Rouge, Louisiana 70893

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
Office of Executive Director
for Operations
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

River Bend

cc: Attorney General
Department of Justice
State Capitol
Baton Rouge, Louisiana 79804

Office of Environmental Affairs
ATTN: Administrator, Nuclear
Energy Division
Post Office Box 14690
Baton Rouge, Louisiana 70898

President
West Feliciana Police Jury
Post Office Drawer N
St. Francisville, Louisiana 70775

Mr. Bruce Blanchard
Environmental Projects Review
U.S. Department of the Interior
18th & C Streets, N.W. - Room 4256
Washington, D.C. 20240

Defense Mapping Agency Aerospace
Center (ADL)
St. Louis Air Force Station, Missouri 63118



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

GULF STATES UTILITIES COMPANY AND
CAJUN ELECTRIC POWER COOPERATIVE
DOCKET NO 50-458
RIVER BEND STATION, UNIT 1
FACILITY OPERATING LICENSE

License No. NPF-40

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The application for license filed by Gulf States Utilities Company, acting on behalf of itself and Cajun Electric Power Cooperative, 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 River Bend Station, Unit 1 (the facility) has been substantially completed in conformity with Construction Permit No. CPPR-145 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 in Section 2.D. below);
 - D. There is reasonable assurance: (i) that the activities authorized by this 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 in Section 2.D. below);
 - E. Gulf States Utilities Company* is technically qualified to engage in the activities authorized by this operating license in accordance with the Commission's regulations set forth in 10 CFR Chapter I;
 - F. Gulf States Utilities Company and Cajun Electric Power Cooperative 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 license will not be inimical to the common defense and security or to the health and safety of the public;

*Gulf States Utilities Company is authorized to act as agent for Cajun Electric Power Cooperative and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

8509060180 850829
PDR ADOCK 05000458
PDR

- 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 Facility Operating License No. NPF-40, subject to the conditions for protection of the environment set forth herein, 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 license will be in accordance with the Commission's regulations in 10 CFR Parts 30, 40 and 70.
2. Based on the foregoing findings Facility Operating License NPF-40 is hereby issued to Gulf States Utilities Company and Cajun Electric Power Cooperative (the licensees), to read as follows:
- A. This license applies to the River Bend Station, Unit 1, a boiling water nuclear reactor and associated equipment, owned by Gulf States Utilities Company and Cajun Electric Power Cooperative. The facility is located approximately 2 miles east of the Mississippi River in West Feliciana Parish, Louisiana, approximately 2.7 miles southeast of St. Francisville, Louisiana and approximately 18 miles northwest of the city limits of Baton Rouge, Louisiana, and is described in the licensees' "Final Safety Analysis Report," as supplemented and amended, and in the licensees' Environmental Report-Operating License Stage, as supplemented and amended.
 - B. Subject to the conditions and requirements incorporated herein, the Commission hereby licenses:
 - (1) Gulf States Utilities Company (GSU) and Cajun Electric Power Cooperative to possess the facility at the designated location in West Feliciana Parish, Louisiana, in accordance with the procedures and limitations set forth in this license;
 - (2) GSU, pursuant to Section 103 of the Act and 10 CFR Part 50, to use and operate the facility at the above designated location in accordance with the procedures and limitations set forth in this license;
 - (3) GSU, pursuant to the Act and 10 CFR Part 70, to receive, possess and to use at any time 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;

- (4) GSU, 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;
 - (5) GSU, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess, and use in amounts as required any byproduct, source or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components; and
 - (6) GSU, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.
- C. This license shall be deemed to contain and is subject to the conditions specified in the Commission's regulations set forth in 10 CFR Chapter I and is subject to all applicable provisions of the Act and to the rules, regulations and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

GSU is authorized to operate the facility at reactor core power levels not in excess of 2894 megawatts thermal (100% rated power) in accordance with the conditions specified herein. Pending Commission approval this license is restricted to power levels not to exceed five percent of rated power (144.7 megawatts thermal). The items identified in Attachment 1 to this license shall be completed as specified. Attachment 1 is hereby incorporated into this license.

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. GSU shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

(3) Antitrust Conditions

GSU shall comply with the antitrust conditions in Appendix C attached hereto, which is hereby incorporated into this license.

(4) Turbine System Maintenance Program (Section 3.5.1 and 3.3, SER)*

GSU shall submit a turbine system maintenance program by November 1, 1987. Prior to review and approval of that program by the NRC staff, GSU shall volumetrically inspect all low pressure turbine rotors at the second refueling outage and every other (alternate) refueling outage thereafter.

(5) Seismic and Dynamic Qualification of Seismic Category 1 Mechanical and Electrical Equipment (Section 3.10, SER and SSER 3)

GSU shall complete the requirements of the seismic and dynamic qualification of mechanical and electrical equipment as specified in Attachment 2. Attachment 2 is hereby incorporated into this license.

(6) Equipment Qualification (Section 3.11, SER and SSER 3)

All electrical equipment within the scope of 10 CFR 50.49 shall be environmentally qualified by November 30, 1985.

(7) Mark III Related Issues (Section 6.2.1.9, SER and SSER 2)

- a. GSU shall not use the residual heat removal system in the steam condensing mode.
- b. Prior to startup following the first refueling outage, GSU shall furnish the outstanding information identified in Appendix K of SSER 2 addressing the Mark III containment related issues.

(8) Inservice Inspection Program (Section 5.2.4.3 and 6.6.3, SER and SSER 3)

GSU shall submit the inservice inspection program for NRC staff review and approval by one year from date of this license.

(9) Bypassed and Inoperable Status Indication (Section 7.5.2.2, SER and SSER 3)

Prior to startup following the first refueling outage, GSU shall implement design modifications to improve the capabilities of existing bypassed and inoperable status indication used to monitor the status of safety related systems. The specific design changes to be implemented are identified in a GSU letter dated December 3, 1984 as clarified in a GSU letter dated March 5, 1985.

*The parenthetical notation following the title of many license conditions denotes the section of the Safety Evaluation Report and/or its supplements wherein the license condition is discussed.

(10) TDI Diesel Engines (Section 8.3.1 SSER 3)

GSU shall complete the TDI diesel requirements as specified in Attachment 3. Attachment 3 is hereby incorporated into this license.

(11) Ultimate Heat Sink (Section 9.2.5, SER and SSER 3)

Prior to startup following the first refueling outage GSU shall have installed and operational in the ultimate heat sink a permanent temperature monitoring system acceptable to the NRC staff and Technical Specification modifications as required.

(12) Fire Protection (Section 9.5.1, SER and SSER 3)

GSU shall comply with the requirements of the fire protection program as specified in Attachment 4. Attachment 4 is hereby incorporated into this license.

(13) Operating Staff Experience Requirements (Section 13.1.2.1, SSER 2)

GSU shall have a licensed senior operator on each shift who has had at least six months of hot operating experience on a plant comparable to River Bend Station, including at least six weeks at power levels greater than 20% of full power, and who has had startup and shutdown experience. For those shifts where such an individual is not available on the plant staff, an advisor shall be provided who has had at least four years of power plant experience, including two years of nuclear plant experience, and who has had at least one year of experience on shift as a licensed senior operator at a comparable facility or its equivalent as approved by the staff. Use of advisors who were licensed only at the RO level will be evaluated on a case by case basis. Advisors shall be trained on plant procedures, Technical Specifications and plant systems, and shall be examined on these topics at a level sufficient to assure familiarity with the plant. For each shift, the remainder of the shift crew shall be trained as to the role of the advisors. The training of the advisors and remainder of the shift crew shall be completed prior to achieving criticality. Prior to achieving criticality, GSU shall certify to the NRC the names of the advisors who have been examined and have been determined to be competent to provide advice to the operating shifts. These advisors or fully trained and qualified replacements shall be retained until the experience levels for licensed senior operators identified in the first sentence above have been achieved. Any replacement advisor shall be certified by GSU prior to being placed on shift. The NRC shall be notified at least 30 days prior to the release of any special assigned advisors.

(14) Post- Fuel- Loading Initial Test Program (Section 14, SER and SSER 3)

Any changes to the initial test program described in Section 14 of the FSAR made in accordance with the provisions of 10 CFR 50.59 shall be reported in accordance with 50.59(b) within one month of such change.

(15) Partial Feedwater Heating (Section 15.1, SER)

The facility shall not be operated with partial feedwater heating for the purpose of extending the normal fuel cycle.

(16) Emergency Response Capabilities (Generic Letter 82-33, Supplement 1 to NUREG-0737, Section 7.5.2.4, SER and SSER 3, Section 18, SER, SSER 2 and SSER 3)

GSU shall complete the requirements of NUREG-0737 Supplement #1 as specified in Attachment 5. Attachment 5 is hereby incorporated into this license.

(17) Salem ATWS Event, Generic Letter 83-28

GSU shall submit responses to and implement the requirements of Generic Letter 83-28 on a schedule which is consistent with that given in its letters dated August 3, 1984 and May 20, 1985.

(18) Emergency Planning (Section 13.3, SER, SSER 2 and SSER 3)

In the event the NRC staff finds that the lack of progress in completion of the procedures in the Federal Emergency Management Agency's final rule, 44 CFR Part 350, is an indication that a major substantive problem exists in achieving or maintaining an adequate state of emergency preparedness, the provisions of 10 CFR Section 50.54(s)(2) will apply.

- D. The facility requires an exemption from certain requirements of Appendix A to 10 CFR Part 50. This is an exemption for operation up to five percent of rated power from General Design Criterion (GDC) 2 of Appendix A, for the qualification of two air operated valves (IDFR*AOV 144 and 145) in the suppression pool pump back system (Sections 3.10.1 and 9.3.3, SSER 3). This exemption is authorized by law and will not endanger life or property or the common defense and security and is otherwise in the public interest. Therefore, this exemption is hereby granted pursuant to 10 CFR 50.12. With the granting of this exemption the facility will operate, to the extent authorized herein, in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission.

- E. GSU shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans, including all amendments and revisions made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p), which are part of the license. These plans, which contain safeguards information protected under 10 CFR 73.21, are entitled: "River Bend Station Physical Security Plan," "River Bend Station Security Training and Qualification Plan" and "River Bend Station Safeguards Contingency Plan."
- F. Except as otherwise provided in the Technical Specifications or Environmental Protection Plan, GSU shall report any violations of the requirements contained in Section 2.C of this license in the following manner: initial notification shall be made within 24 hours to the NRC Operations Center via the Emergency Notification System with written followup within thirty days in accordance with the procedures described in 10 CFR 50.73(b), (c), and (e).
- G. The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.
- H. This license is effective as of the date of issuance and shall expire at midnight on **AUG 29** 2025

FOR THE NUCLEAR REGULATORY COMMISSION



Darrell G. Eisenhut, Acting Director
Office of Nuclear Reactor Regulation

Enclosures:

1. Attachments 1-5
2. Appendix A - Technical Specifications (NUREG-1142)
3. Appendix B - Environmental Protection Plan
4. Appendix C - Antitrust Conditions

Date of Issuance: **AUG 29 1985**

- E. GSU shall fully implement and maintain in effect all provisions of the Commission-approved physical security, guard training and qualification, and safeguards contingency plans, including all amendments and revisions made pursuant to the authority of 10 CFR 50.90 and 10 CFR 50.54(p), which are part of the license. These plans, which contain safeguards information protected under 10 CFR 73.21, are entitled: "River Bend Station Physical Security Plan," "River Bend Station Security Training and Qualification Plan" and "River Bend Station Safeguards Contingency Plan."
- F. Except as otherwise provided in the Technical Specifications or Environmental Protection Plan, GSU shall report any violations of the requirements contained in Section 2.C of this license in the following manner: initial notification shall be made within 24 hours to the NRC Operations Center via the Emergency Notification System with written followup within thirty days in accordance with the procedures described in 10 CFR 50.73(b), (c), and (e).
- G. The licensees shall have and maintain financial protection of such type and in such amounts as the Commission shall require in accordance with Section 170 of the Atomic Energy Act of 1954, as amended, to cover public liability claims.
- H. This license is effective as of the date of issuance and shall expire at midnight on **1 AUG 29 2025**

FOR THE NUCLEAR REGULATORY COMMISSION

151

Darrell G. Eisenhut, Acting Director
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Attachments 1-5
- 2. Appendix A - Technical Specifications (NUREG-1142)
- 3. Appendix B - Environmental Protection Plan
- 4. Appendix C - Antitrust Conditions

Date of Issuance: **1 AUG 29 1985**

DL/LB#2 SStern *	DL/LB#2 EHylton *	SAB AToalston *	SP TSaltzman *	OELD JRutberg *	OELD
8/ /85	8/ /85	8/ /85	8/ /85	8/ /85	
DL/LB#2 WButler *	AD/L/DL TNovak *	DO/DEN FMUaglia	DO/DEN HTThompson	DD/NBR DEisenhut	DO/NRC TRIDenton
8/ /85	8/ /85	8/29/85	8/29/85	8/29/85	8/29/85

* See Prev. CONCURRENCE

AUG 29 1985

ATTACHMENT 1
To-NPF 40

Prior to achieving the condition indicated on or before the date indicated, the following items shall be completed to the satisfaction of Region IV:

1. OUTSTANDING ITEM TO BE COMPLETED PRIOR TO INSTALLING THE REACTOR VESSEL HEAD
 - a. Complete the testing of the off-gas systems and off-gas vault refrigeration system.

2. OUTSTANDING ITEMS TO BE ACCOMPLISHED PRIOR TO ACHIEVING INITIAL CRITICALITY
 - a. Modify operating procedures to require the monitoring of cooling water for control room HVAC chillers when cooling is from the standby service water source as described in the 10 CFR 50.55(e) report identified as DR-314.
 - b. Modify emergency operating procedures relative to Limitorque operators as identified in the 10 CFR 50.55(e) report identified as DR-280.
 - c. Verify that the plant's air flow characteristics are from areas of potentially low radioactive concentrations to areas of potentially high radioactive concentrations. (50-458/8406-20)
 - d. Place in service as tested and calibrated, including installed process instrumentation, the following panels: turbine plant sampling, condensate demineralization, and radwaste sampling. (50-458/8424-06)
 - e. Complete the testing of service water modifications/TDI diesel generator load reduction modifications and then conduct the following Technical Specification surveillance tests: 4.8.1.1.2.f.2 through 4.8.1.1.2.f.7 and 4.8.1.1.2.f.9 through 4.8.1.1.2.f.12.
 - f. Completion of HVAC preoperational testing and loading of activated charcoal as committed to in GSU's letter RBG-21603 of July 22, 1985. This includes in-place testing of HEPA and charcoal filters and laboratory testing of charcoal for Iodine removal efficiency.

3. OUTSTANDING ITEMS TO BE ACCOMPLISHED PRIOR TO EXCEEDING FIVE PERCENT RATED POWER

- a. Complete the following fire protection and prevention items:
 - Testing of CO₂ fire protection system for the turbine generator,
 - Fire wrapping² of electrical raceways in the control building,
 - All modifications required to provide a means to safely shutdown the plant, in the event of a fire in the main control room, from outside of the control room, and
 - Revision of the plant procedures and re-training of the operators for control room abandonment because of fire including resolution of the communications requirement.
- b. Complete testing of liquid, gaseous and solid radwaste systems and place these systems in service.
- c. Complete modification necessary, including providing qualified operators for valves IDFR*AOV 144 and 145, to prevent draining of the suppression pool in the event of a failure of suction piping as delineated in the 10 CFR Part 50.55(e) report identified as DR-193.
- d. Complete installation and testing of the post-accident sampling and place this system in service.
- e. Complete the remaining modifications described in GSU's letter dated May 16, 1985 to reduce the maximum emergency service load to 2884 kw for the Division I diesel generator and to 2780 kw for the Division II diesel generator.

4. OUTSTANDING ITEMS TO BE ACCOMPLISHED PRIOR TO COMPLETION OF THE INITIAL TEST PROGRAM

- a. Verify the station electric distribution voltage analyses are in accordance with the guidelines of Branch Technical Position PSB-1, Position 4.
- b. Perform an engineering evaluation and complete modifications on the battery powered lighting system used in areas of the plant outside the main control room required for safe shutdown and personnel evacuation to upgrade those areas identified as deficient with regard to the requirements contained in FSAR Table 9.5-2

5. OUTSTANDING ITEM TO BE COMPLETED PRIOR TO THE FIRST REFUELING OUTAGE

- a. Complete and have operational the fuel building sampling system. Off-loading of irradiated fuel prior to the first refueling outage shall be performed as described in GSU's letter dated June 13, 1985.

6. OUTSTANDING ITEMS TO BE COMPLETED PRIOR TO FIRST DESIGN USE OR PRIOR TO STARTUP FOLLOWING THE FIRST REFUELING OUTAGE (WHICHEVER IS FIRST)
 - a. Complete a load test which meets all the OSHA requirements for load handling capability on all remaining cranes and hoists not previously tested.
 - b. Install and have operational the chlorination systems for the normal and standby service water systems for Asiatic clam control prior to first introduction of Mississippi River water into these systems.

7. OUTSTANDING ITEMS TO BE ACCOMPLISHED PRIOR TO STARTUP FOLLOWING THE FIRST REFUELING OUTAGE
 - a. Rework fuse block connectors as delineated in the 10 CFR 50.55(e) report identified as DR-287.
 - b. Repair or replace the control valves on HVAC chillers as delineated in the 10 CFR 50.55(e) report identified as DR-314.
 - c. Verify that adequate radio communication capability exists from all appropriate plant areas.

AUG 29 1985

ATTACHMENT 2

To-NPF 40

SEISMIC DYNAMIC QUALIFICATION OF SEISMIC CATEGORY 1 MECHANICAL AND
ELECTRICAL EQUIPMENT

GSU shall complete the following requirements for seismic and dynamic qualification on the schedule noted below:

1. GSU shall, prior to startup following the second refueling outage, have completed modifications to the hydraulic control units to install an additional brace as used in the qualification testing of the hydraulic control unit as described in GSU's letter dated May 15, 1985.
2. GSU shall complete the seismic qualification of the in-vessel rack prior to its use.

AUG 29 1985

ATTACHMENT 3
To-NPF 40
TDI DIESEL ENGINES REQUIREMENTS

GSU shall comply with the following requirements related to the TDI diesel engines.

1. Changes to the maintenance and surveillance program for the TDI diesel engines, as identified and approved by the NRC staff in Supplement 3 to the SER, shall be subject to the provisions of 10 CFR 50.59.

2. Crankshafts shall be inspected as follows:

SD 1B: During the first refueling outage, inspect the fillets and oil holes of the three most heavily loaded crankpin journals (Nos. 5, 6, and 7) with fluorescent liquid penetrant and ET as appropriate.

SD 1A and 1B: During the second and subsequent refueling outages, inspect the fillets and oil holes of two of the three most heavily loaded crankpin journals in the manner just mentioned.

SD 1A and 1B: During each major engine overhaul, inspect the fillets and oil holes of the two main bearing journals between crankpin Nos. 5, 6, and 7, using fluorescent liquid penetrant and ET as appropriate. This inspection is in addition to the crankpin inspections.

3. Cylinder blocks shall be inspected at intervals calculated using the cumulative damage index (CDI) model and using inspection methodologies described by Failure Analysis Associates, Inc. in Design Review of TDI R-4 and RV-4 Series Emergency Diesel Generator Cylinder Blocks (FaAA-84-9-11-1). Liquid penetrant inspection of cylinder liner landing area shall be performed any time cylinder liners are removed. Visual daily inspection between adjacent cylinder heads and the general block top during any period of continuous operation following automatic diesel generator startup.
4. GSU shall roll the engines over with the air start system prior to any planned starts, unless that planned start occurs within four hours of a shutdown. In addition, after engine operation, the engines shall be rolled over on air after four hours but not more than eight hours after engine shutdown and then rolled over once again approximately 24 hours after each shutdown. In the event an engine is removed from service for any reason other than the rolling over procedure prior to expiration of the eight hour or 24 hour periods noted above, that engine need not be rolled over while it is out of service. Once the engine is returned to service, GSU shall roll it over with air once at the time that it is returned to service. Any head which leaks due to a crack shall be replaced.

5. If inspection of diesel generators 1A and/or 1B should reveal cracks in the crankshaft or in the cylinder block between stud holes of adjacent cylinders, this condition shall be reported promptly to the NRC staff and the affected engine(s) shall be considered inoperable. The engine(s) shall not be restored to "operable" status until the proposed disposition and/or corrective actions have been approved by the NRC staff.
6. The following actions are required if SD 1A or SD 1B is operated in excess of 3130 KW⁽¹⁾:
 - a) For indicated engine loads in the range of 3130 KW to 3200 KW for a period less than two hours⁽²⁾, no additional action shall be required.
 - b) For indicated engine loads in the range of 3130 KW to 3200 KW for a period equal to or exceeding two hours⁽²⁾, a crankshaft inspection pursuant to Item d below shall be performed at the next refueling outage.
 - c) For indicated engine loads in the range of 3200 KW to 3500 KW for a period less than 1 hour⁽²⁾, a crankshaft inspection pursuant to item d below shall be performed for the affected engine at the next refueling outage.
 - d) For indicated engine loads in the range of 3200 KW to 3500 KW for periods equal to or exceeding one hour⁽²⁾, and for engine loads exceeding 3500 KW for any period of time, (1) the engine shall be removed from service as soon as safely possible, (2) the engine shall be declared inoperable, and (3) the crankshaft shall be inspected. The crankshaft inspection shall include crankpin journal numbers 5, 6, and 7 (the most heavily loaded) and the two main journals in between using fluorescent liquid penetrant and eddy current as appropriate.
7. Operation beyond the first refueling outage is subject to NRC staff approval based on the staff's final review of the Owners Group generic findings and of the overall design review and quality revalidation program at River Bend.

(1) Momentary transients (not exceeding 5 seconds) due to changing of bus loads need not be considered as an overload.

(2) If there are multiple overload events within a given load range since the previous crankshaft inspection, then the time period criterion applies to the total accumulated time in that load range.

ATTACHMENT 4
To-NPF 40
FIRE PROTECTION PROGRAM REQUIREMENTS

GSU shall comply with the following requirements of the fire protection program:

1. GSU shall implement and maintain in effect all provisions of the approved fire protection program as described in the Final Safety Analysis Report for the facility through Amendment 21 and as approved in the SER dated May 1984 and Supplement 3 dated August 1985 subject to provisions 2 and 3 below.
2. GSU may make no change to the approved fire protection program which would significantly decrease the level of fire protection in the plant without prior approval of the Commission. To make such a change GSU must submit an application for license amendment pursuant to 10 CFR 50.90.
3. GSU may make changes to features of the approved fire protection program which do not significantly decrease the level of fire protection without prior Commission approval provided (a) such changes do not otherwise involve a change in a license condition or technical specification or result in an unreviewed safety question (see 10 CFR 50.59), and (b) such changes do not result in failure to complete the fire protection program approved by the Commission prior to license issuance. GSU shall maintain, in an auditable form, a current record of all such changes, including an analysis of the effects of the change on the fire protection program, and shall make such records available to NRC inspectors upon request. All changes to the approved program shall be reported to the Director of the Office of Nuclear Reactor Regulation, along with the FSAR revisions required by 10 CFR 50.71(e).

AUG 29 1985

ATTACHMENT 5
To-NPF 40
EMERGENCY RESPONSE CAPABILITIES

GSU shall complete the following requirements of NUREG-0737 Supplement #1 on the schedule noted below:

1. The Safety Parameter Display System shall be installed and operational prior to March 1, 1986.
2. Actions and schedules for correcting all human engineering discrepancies (HEDs) identified in the "Detailed Control Room Design Review Summary Report dated October 31, 1984 and Supplements dated May 14, June 12, 1985, and July 31, 1985, shall be implemented in accordance with the schedule committed to by GSU in the summary report and supplements and accepted by the NRC staff in SER Section 18.1.
3. As part of TMI-2 Item I.C.1, information shall be submitted pertaining to containment venting emergency guidelines to be reviewed and approved by NRC staff prior to operation above five percent of rated power.
4. Prior to startup following the first refueling outage, GSU shall implement modifications (installation or upgrade) for those items listed below consistent with the guidance of Regulatory Guide 1.97, Revision 2 unless prior approval of an alternate design of these items is granted by the NRC staff. These items as listed in GSU's letter of June 24, 1985 are:
 - a) neutron flux;
 - b) coolant level in the reactor;
 - c) suppression pool water level;
 - d) drywell atmosphere temperature;
 - e) primary system safety relief valve position;
 - f) standby liquid control system storage tank level;
 - g) emergency ventilation damper position; and
 - h) airborne radiohalogens and particulates.



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

AUG 29 1985

APPENDIX C

ANTITRUST CONDITIONS
FACILITY OPERATING LICENSE NO. NPF-40

Gulf States Utilities Company (GSU) is subject to the following antitrust conditions:

(1) Definitions

- (1)(a) "Bulk Power" means the electric power, and any attendant energy, supplied or made available at transmission or subtransmission voltage by an entity from its generating facilities.
- (1)(b) "Entity" means person, a private or public corporation, governmental agency, an association, a joint stock association, business trust, municipality, or rural electric cooperative owning, operating, or proposing to own or operate equipment facilities for the generation, transmission, or distribution of electricity primarily for sale or resale to the public. Provided, that, except for municipalities, governmental agencies, or rural electric cooperatives, "entity" is further 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.
- (1)(c) "Cost" means all operating and maintenance expenses and ownership and capital costs properly allocable to the particular transaction. "Cost" to be shared by participants under paragraph (9) shall include all costs of acquisition, construction, ownership, capital, operation, and maintenance reasonably allocable to the subject unit. Costs shall include no value for loss of revenues from sale of power at wholesale or retail by one party to a customer which another party might otherwise serve, except as otherwise authorized by any regulatory authority having jurisdiction. Costs shall include a reasonable return on GSU's investment.
- (2) GSU shall interconnect with and coordinate reserves by means of the sale and purchase of emergency and/or scheduled maintenance bulk power with any entity(ies) in or within reasonable proximity to GSU's service area in Louisiana engaging in or proposing to engage in electric bulk power supply on terms that will provide for GSU's costs in connection therewith and allow the other entity(ies) full access to the benefits and obligations of reserve coordination.
- (3) Such emergency service and/or scheduled maintenance service to be provided by each entity shall be furnished to the fullest extent available from the supplying entity and desired by the entity in need. GSU and each entity(ies) shall provide to the other such emergency service and/or scheduled maintenance service if and when available from its own

generation and from generation of others to the extent it can do so without impairing service to its customers including other electric systems to whom it has firm commitments.

- (4) GSU and the other entity(ies) which is (are) party(ies) to a reserve sharing arrangement shall from time to time jointly establish the minimum reserves to be installed and/or provided as necessary to maintain in total a reserve margin sufficient to provide adequate reliability of power supply to the interconnected systems of the parties, consistent with good utility industry practice in the region. If GSU plans its reserve margin on a pooled basis with other regional companies, the reserves jointly established hereunder shall be on the same basis. Unless otherwise agreed upon or established by such regional practice, minimum reserves shall be calculated as a percentage of estimated peak-load responsibility.

No party to the arrangement shall be required to maintain greater reserves than the percentage of its estimated peak-load responsibility which results from the aforesaid calculation; provided that if the reserve requirements of GSU are increased over the amount GSU would be required to maintain without such interconnection, then the other party(ies) shall be required to carry or provide for as its (their) reserves the full amount in kilowatts of such increase.

- (5) The entities which are parties to such a reserve sharing agreement shall provide such amounts of ready reserve capacity as may be adequate to avoid the imposition of unreasonable demands on the others in meeting the normal contingencies of operating its system. However, in no circumstances shall the ready reserve requirement exceed the installed reserve requirement.
- (6) Interconnections will not be limited to low voltages when higher voltages are available from GSU's installed facilities in the area where interconnection is desired, when the proposed arrangement is found to be technically and economically feasible. Control and telemetering facilities shall be provided as required for safe and prudent operation of the interconnected system.
- (7) Interconnection and coordination agreements shall not embody any unlawful or unreasonably restrictive provisions pertaining to intersystem coordination. Good industry practice as developed in the area from time to time (if not unlawfully or unreasonably restrictive) will satisfy this provision.
- (8) GSU will sell (when available) bulk power at its costs to or purchase (when needed) bulk power from any other entity(ies) in or within reasonable proximity to GSU's service area in Louisiana engaging in or proposing to engage in generation of electric power at such entity(ies) cost when such transactions would serve to reduce the overall costs of new such bulk power supply, each for itself and for the other party(ies) to the transactions and would serve to coordinate the planning of new generation, transmission, and related facilities by both GSU and the other

entity. This provision shall not be construed to require GSU to purchase or sell bulk power if it finds such purchase or sale infeasible or its costs in connection with such purchase or sale would exceed its benefits therefrom.

- (9) GSU and any successor in title, shall offer an opportunity to participate in River Bend Station, Unit 1 for the term of the instant license, or any extensions or renewals thereof, or such shorter term as GSU and the participant(s) may mutually agree upon, to any entity(ies) in or within reasonable proximity to GSU's service area in the State of Louisiana which has in writing requested participation therein prior to March 1, 1974, and which no later than March 31, 1975 has entered into any executory contract with respect to such participation, having taken all necessary action for it to lawfully do so prior to so doing, to a fair and reasonable extent and on reasonable terms and conditions and on a basis that will fully compensate GSU for its costs incurred and to be incurred and that will not adversely affect the financing and constructing of this nuclear unit. GSU shall similarly offer an opportunity to participate in any additional nuclear generating unit(s) the power from which is intended for use in GSU's general system operations, which GSU may construct, own, and operate in Louisiana during the term of the instant license(s), or any extension(s) or renewal(s), thereof.

Participation shall be either by ownership of or purchase of unit participation power from the respective nuclear units. Participation in any form shall be on an equitable basis whereby the participants, in proportion to their interests, share fully in all costs and risks of the respective nuclear units. In connection with such participation, GSU will offer transmission service as may be required for delivery of such power to such participant(s) on a basis that will fully compensate GSU for its costs.

- (10) GSU shall facilitate the exchange of bulk power by transmission over its transmission facilities between two or more entities engaging in bulk power supply in its service area in Louisiana with which it is interconnected; and between any such entity(ies) and any entity(ies) engaging in bulk power supply outside GSU's service area in Louisiana between whose facilities GSU's transmission lines and other transmission lines would form a continuous electrical path; provided that (i) permission to utilize such other transmission lines has been obtained by the entities involved; (ii) GSU has appropriate agreements for transmission service with the entities interconnected with GSU at both the receiving and delivery points on GSU's system; and (iii) the arrangements reasonably can be accommodated from a functional and technical standpoint. Such transmission shall be on terms that fully compensate GSU for its cost. Any entity(ies) requesting such transmission arrangements shall give reasonable advance notice of its (their) schedule and requirements. (The foregoing applies to any entity(ies) engaging in bulk power supply to which GSU may be interconnected in the future as well as those to which it is now interconnected).

- (11) GSU shall include in its planning and construction program sufficient transmission capacity as required for the transactions referred to in paragraph (10); provided, that any entity(ies) in its service area in Louisiana gives GSU sufficient advance notice as may be necessary to accommodate its (their) requirements from a functional and technical standpoint and that such entity(ies) fully compensate GSU for its cost. GSU shall not be required to construct transmission facilities which will be of no demonstrable present or future benefit to GSU.
- (12) GSU will sell power (when available) for resale to any entity(ies) in its service area in Louisiana now engaging in or proposing in good faith to engage in retail distribution of electric power, whenever power to meet the needs of such entity(ies) is not available from alternate sources at competitive costs.
- (13) The foregoing conditions shall be in all respects implemented on reasonable terms and conditions in a manner consistent with the provisions of the Federal Power Act and other applicable Federal and State laws and regulatory orders, and shall be subject to force majeure, applicable curtailment programs, and engineering and technical feasibility for GSU's system. None of the foregoing conditions shall require GSU to sell power, perform any service, or engage in any course of action on a basis which would be unlawfully preferential or discriminatory under any applicable law or that would impair GSU's ability to render adequate and reliable service to its own customers. All rates, charges or practices in connection therewith are to be subject to the approval of regulatory agencies having jurisdiction over them.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-458

RIVER BEND STATION, UNIT NO. 1

GULF STATES UTILITIES AND CAJUN ELECTRIC POWER COOPERATIVE

NOTICE OF ISSUANCE OF FACILITY

OPERATING LICENSE

Notice is hereby given that the Nuclear Regulatory Commission (the Commission), has issued Facility Operating License No. NPF-40 to the Gulf States Utilities and Cajun Electric Power Cooperative (licensees), which authorizes operation of the River Bend Station Unit No. 1 (the facility) at reactor core power levels not in excess of 2894 megawatts thermal in accordance with provisions of the License, the Technical Specifications and the Environmental Protection Plan with a condition currently limiting operation to five percent of rated power (144.7 megawatts thermal). Authorization to operate beyond five percent rated power will require specific Commission approval.

The River Bend Station, Unit No. 1, is a boiling water nuclear reactor located approximately 2 miles east of the Mississippi River in West Feliciana Parish, Louisiana, approximately 2.7 miles southeast of St. Francisville, Louisiana and approximately 18 miles northwest of the city limits of Baton Rouge, Louisiana.

The application for the license complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the License. Prior public notice of the overall action involving the proposed issuance of an operating license was published in the Federal Register on September 4, 1981 (46 F.R. 44539-44540).

8509060191 850829
PDR ADOCK 05000458
P PDR

The Commission has determined that the issuance of this license will not result in any environmental impacts other than those evaluated in the Final Environmental Statement since the activity authorized by the license is encompassed by the overall action evaluated in the Final Environmental Statement.

For further details in respect to this action, see (1) Facility Operating License NPF-40 complete with Technical Specifications and the Environmental Protection Plan; (2) the interim report of the Advisory Committee on Reactor Safeguards, dated July 17, 1984; (3) the Commission's Safety Evaluation Report, dated May 1984, Supplement No. 1 dated October 1984, Supplement No. 2 dated August, 1985, and Supplement No. 3 dated August 1985; (4) the Final Safety Analysis Report and Amendments thereto; (5) the Environmental Report and supplements thereto; and (6) the Final Environmental Statement dated January 1985.

These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. 20555, and at the Government Documents Department, Louisiana State University, Baton Rouge, Louisiana 70803. A copy of Facility Operating License NPF-40 may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing. Copies of the Safety Evaluation Report and its Supplements 1, 2, and 3 (NUREG-0989) and the Final Environmental Statement (NUREG-1073) may be purchased at current rates from the National Technical Information Service, Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, or may be ordered by calling (202) 275-2060 or (202) 275-2171 or by writing to the Superintendent of Documents, U.S. Government Printing Office, P.O. Box 37082, Washington, D.C. 20013-7082. All orders should clearly identify the NRC publication number and the requestor's GPO deposit account, or VISA or Mastercard number and expiration

date.

Dated at Bethesda, Maryland this 29th day of August 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

Walter R. Butler

Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

date.

Dated at Bethesda, Maryland this 29th day of August 1985.

FOR THE NUCLEAR REGULATORY COMMISSION

(S)
Walter R. Butler, Chief
Licensing Branch No. 2
Division of Licensing

LB#2/DL/LA
EHJ:ton
08/15/85

on 8/15
LB#2/DL/PM
BSiegel:1b
08/15/85

W. Butler 8/23
OELD
L. Dewey
08/15/85

LB#2/DL/BC
WButler
08/14/85

WB



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

Docket No. 50-458

AMENDMENT TO INDEMNITY AGREEMENT NO. B-104
AMENDMENT NO. 1

Effective August 29, 1985, Indemnity Agreement No. B-104, between Gulf States Utilities Company, Cajun Electric Power Cooperative, Inc., and the Nuclear Regulatory Commission, dated January 15, 1985, is hereby amended as follows:

Item 2a. of the Attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 2 - Amount of financial protection

- a. \$1,000,000 (From 12:01 a.m., January 15, 1985 to
12 midnight August 28, 1985,
inclusive)
\$160,000,000* (From 12:01 a.m., August 29, 1985)

Item 3 of the attachment to the indemnity agreement is deleted in its entirety and the following substituted therefor:

Item 3 - License number or numbers

- SNM-1943 (From 12:01 a.m., January 15, 1985 to
12 midnight August 28, 1985,
inclusive)
NPF-40 (From 12:01 a.m., August 29, 1985)

*and, as of August 1, 1977, the amount available as secondary financial protection.

Item 5 of the attachment to the indemnity agreement is amended by adding the following:

Nuclear Energy Liability Policy (Facility Form) No. MF-119
issued by Mutual Atomic Energy Liability Underwriters.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

for *S. Weynellers*

Jerome Saltzman, Assistant Director
State and Licensee Relations
Office of State Programs

Accepted _____

By _____
GULF STATES UTILITIES COMPANY

Accepted _____

By _____
CAJUN ELECTRIC POWER COOPERATIVE, INC.



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

AUG 29 1985

ASSESSMENT OF THE EFFECT ON LICENSE DURATION ON MATTERS DISCUSSED
IN THE FINAL ENVIRONMENTAL STATEMENT FOR THE RIVER BEND STATION
UNIT 1 (DATED JANUARY 1985)

INTRODUCTION

The Final Environmental Statement (FES) for the operation of the River Bend Station, Unit 1 was published in January 1985. It has been past practice to issue operating licenses for a period of 40 years from the date of the construction permit. For River Bend, the CP was issued in March 1977, thus, approximately 32 years of operating life would be available.

By letters dated July 29, 1985 and August 2, 1985 Gulf States Utilities Company requested that the operating license for River Bend Station, Unit 1 have a duration of 40 years from the date of issuance.

DISCUSSION

The staff has reviewed the River Bend FES to determine which aspects considered in the FES are affected by the duration of the operating license. In general, the FES assesses various impacts associated with operation of the facility in terms of annual energy production benefits. Thus, the overall assessment and conclusions would not be dependent on specific operating life. There are, however, two areas in the FES for which a specific operating life was assumed:

1. Radiological assessments are based on a 20-year plant midlife.
2. Uranium fuel cycle impacts are based on one initial core load and annual refuelings.

In addition there is a third area which is affected by the duration of the operating life which was not specifically addressed in the FES.

3. Uranium availability is evaluated through 30 years of operation.

Radiological assessments were evaluated based on a 40 year operating period (20-year plant midlife) in Section 5.9.3.1 of the FES. Therefore only the uranium fuel cycle impacts and uranium availability needed to be assessed to determine whether the use of a 40-year operating period rather than a 30-year operating period would significantly affect our assessment concerning these areas.

EVALUATION

The staff's appraisal of the significance of the use of 40 years of operation rather than 30 as it affects these two areas is presented in the following discussions:

Uranium Fuel Cycle Impacts - The impacts of the uranium fuel cycle are based on 30 years of operation of a model LWR. The fuel requirements for the model LWR were assumed to be one initial core load and 29 annual refuelings (approximately 1/3 core). The annual fuel requirement for the model LWR averaged out over a 40-year operating life (1 initial core and 39 refuelings of approximately 1/3 core) would be reduced slightly as compared to the annual fuel requirement averaged for a 30-year operating life.

The net result would be an approximately 1.5% reduction in the annual fuel requirement for the model LWR. This small reduction in fuel requirements would not lead to significant changes in the impacts of the uranium fuel cycle. The staff does not believe that there would be any changes to River Bend FES Table 5.12 (S-3) that would be necessary in order to consider 40 years of operation. If anything, the values in Table 5.12 become more conservative when a 40-year period of operation is considered.

Uranium Resources - A 25% increase in the River Bend operating life (to 40 years) would still be within the projected uranium resources since the cancellation of many reactors will result in an off-setting reduction in demand. Furthermore, the increase in operating life assumption to 40-years will reduce the need for replacement generating capacity, including nuclear, at the end of 32 years.

CONCLUSION

The staff has evaluated the environmental impact of these areas which are dependent on a specific operating life for the River Bend, Unit 1 plant. We have concluded, based on the reasons discussed above, that the impacts associated with a 40-year operating license duration are not significantly different from those associated with a 32-year operating license duration and are not significantly different from those assessed in the River Bend FES.