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Acting Director  
Nuclear Safety & Licensing

CNRO-2004-00004

January 30, 2004

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

SUBJECT: Revised License Amendment Requests  
Proposed Revision to Appendix B, Environmental Protection  
Plan (Non-Radiological) of the Facility Operating Licenses

Grand Gulf Nuclear Station, Unit 1  
Docket No. 50-416  
NPF-29

River Bend Station, Unit 1  
Docket No. 50-458  
NPF-47

Waterford Steam Electric Station, Unit 3  
Docket No. 50-382  
NPF-38

- REFERENCES:
1. License Amendment Requests  
Proposed Deletion of Appendix B, Environmental Protection  
Plan (Non-Radiological) from the Facility Operating License  
Dated November 6, 2002 (Accession No. ML023180512)
  2. Revised License Amendment Requests  
Proposed Deletion of Appendix B, Environmental Protection  
Plan (Non-Radiological) from the Facility Operating License  
Dated November 18, 2003 (Accession No. ML033290617)

Dear Sir or Madam:

By the referenced letters, Entergy Operations, Inc. (Entergy) proposed a change to revise the content of the Appendix B, Environmental Protection Plan (Non-Radiological) (EPP) for Grand Gulf Nuclear Station, Unit 1 (GGNS), River Bend Station (RBS), and Waterford Steam Electric Station, Unit 3 (Waterford 3) Facility Operating Licenses (FOLs). The amendment requests were considered to be administrative in nature and were intended to delete obsolete program information and relieve Entergy of the burden of preparing and submitting certain environmental reports.

ADDI

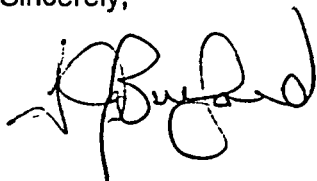
Based on discussions with the NRC staff, Entergy agreed to retain certain elements of the EPPs. Reference 2 provided Entergy's recommended changes. The NRC staff subsequently requested further clarifications. The attached marked-up pages of the EPPs contain those clarifications. There is no change to the intent and the scope of the original no significant hazards consideration included in Reference 1. These mark-ups supersede the mark-ups in the previous submittals in their entirety.

The proposed change includes no new commitments.

If you have any questions or require additional information, please contact Bill Brice at 601-433-5076.

I declare under penalty of perjury that the foregoing is true and correct. Executed on January 30, 2004.

Sincerely,



FGB/WBB/bal

Attachments:

1. Proposed Facility Operating License Changes (mark-up) – Grand Gulf Nuclear Station, Unit 1
2. Proposed Facility Operating License Changes (mark-up) – River Bend Station
3. Proposed Facility Operating License Changes (mark-up) – Waterford Steam Electric Station, Unit 3

cc: Mr. W. A. Eaton (ECH)	Louisiana Department of Environmental Quality
Mr. P. D. Hinnenkamp (RBS)	Office of Environmental Compliance
Mr. D. E. Levanway (Wise Carter)	Attn. Prosanta Chowdhury
Mr. B. S. Mallett, Administrator, Region IV	Surveillance Division
Mr. J. E. Venable (W-3)	P. O. Box 4312
Mr. G. A. Williams (GGNS)	Baton Rouge, LA 70821-4312
Mr. N. Kalyanam, Project Manager (W-3)	Louisiana Department of Environmental Quality
Mr. B. K. Vaidya, Project Manager (GGNS)	Office of Radiological Emergency Plan
Mr. M. K. Webb, Project Manager (RBS)	and Response
Mr. P. J. Alter, RBS Sr. Resident Inspector	Surveillance Division
Mr. M. C. Hay, W-3 Sr. Resident Inspector	P. O. Box 4312
Mr. T. L. Hoeg, GGNS Sr. Resident Inspector	Baton Rouge, LA 70884-4312
Mr. Brian W. Amy, MD, MHA, MPH	American Nuclear Insurers
Mississippi Department of Health	Attn: Library
P. O. Box 1700	Town Center Suite 300S
Jackson, MS 39215-1700	29 <sup>th</sup> S. Main Street
	West Hartford, CT 06107-2445

**Attachment 1**

**CNRO-2004-00004**

**Proposed Facility Operating License Changes (mark-up)**

**Grand Gulf Nuclear Station, Unit 1**

APPENDIX B  
TO FACILITY LICENSE NO. NPF-29  
GRAND GULF NUCLEAR STATION  
UNIT 1

ENTERGY OPERATIONS, INC.  
DOCKET NO. 50-416

ENVIRONMENTAL PROTECTION PLAN  
OCTOBER 1984

Amendment No. 65

GRAND GULF NUCLEAR STATION

UNIT 1

ENVIRONMENTAL PROTECTION PLAN

(NON-RADIOLOGICAL)

TABLE OF CONTENTS

Section	Page
1.0 Objectives of the Environmental Protection Plan . . . . .	1-1
2.0 Environmental Protection Issues . . . . .	2-1
2.1 Aquatic Issues . . . . .	2-1
2.2 Terrestrial Issues . . . . .	2-1
3.0 Consistency Requirements . . . . .	3-1
3.1 Plant Design and Operation . . . . .	3-1
3.2 Reporting Related to the NPDES Permits and State Certification . . . . .	3-2
3.3 Changes Required for Compliance with Other Environmental Regulation . . . . .	3-3
4.0 Environmental Conditions . . . . .	4-1
4.1 Unusual or Important Environmental Events . . . . .	4-1
4.2 Environmental Monitoring . . . . .	4-1
5.0 Administrative Procedures . . . . .	5-1
5.1 Review and Audit . . . . .	5-1
5.2 Records Retention . . . . .	5-1
5.3 Changes in Environmental Protection Plan . . . . .	5-1
5.4 Plant Reporting Requirements . . . . .	5-2

1.0. OBJECTIVES OF THE ENVIRONMENTAL PROTECTION PLAN

The Environmental Protection Plan (EPP) is to provide for protection of environmental values during ~~construction and~~ operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the Plant is operated in an environmentally acceptable manner, as established by the FES and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility ~~and~~ construction operation and of action taken to control those effects.

Environmental concerns identified in the FES which relate to water quality matters are regulated by way of the GGNS NPDES permit.

## 2.0 ENVIRONMENTAL PROTECTION ISSUES

In the FES-OL dated September 1981, the staff considered the environmental impacts associated with the operation of the Grand Gulf Nuclear Station. Certain environmental issues were identified which required study or license conditions to resolve environmental concerns and to assure adequate protection of the environment.

### 2.1 Aquatic Issues

*Federal or State permitting authority*

No aquatic issues were identified in the FES-OL. Effluent limitations and monitoring requirements are contained in the effective NPDES permit issued by the ~~Mississippi Department of Natural Resources~~. The NRC will rely on ~~this~~ *these* ~~agency~~ *agencies* for regulation of these matters as they involve water quality and aquatic biota.

### 2.2 Terrestrial Issues

- (1) Potential erosion along transmission line corridors during and immediately following their construction.
- (2) Potential impact of cooling tower drift on vegetation surrounding the sites. In the FES the staff recommended an aerial remote sensing program. The applicant opted to do a more detailed surveillance program.

NRC requirements with regard to the terrestrial issues are specified in Subsection 4.2 of this EPP.

### 3.0 CONSISTENCY REQUIREMENTS

#### 3.1 Plant Design and Operation

The licensee may make changes in plant design or operation or perform tests or experiments affecting the environment provided such changes, tests or experiments do not involve an unreviewed environmental question, and do not involve a change in the Environmental Protection Plan.<sup>\*</sup> Changes in plant design or operation and performance of tests or experiments which do not affect the environment are not subject to the requirements of this EPP. Activities governed by Section 3.3 are not subject to the requirements of this section.

Before engaging in additional construction or operational activities which may affect the environment, the licensee shall prepare and record an environmental evaluation of such activity.<sup>\*\*</sup> When the evaluation indicates that such activity involves an unreviewed environmental question, the licensee shall provide a written evaluation of such activities and obtain prior approval from the Director, Office of Nuclear Reactor Regulation. When such activity involves a change in the Environmental Protection Plan, such activity and change to the Environmental Protection Plan may be implemented only in accordance with an appropriate license amendment as set forth in Section 5.3.

A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question if it concerns (1) a matter which may result in a significant increase in any adverse environmental impact previously evaluated in the final environmental statement (FES) as modified by staff's testimony to the Atomic Safety and Licensing Board, supplements to the FES, environmental impact appraisals, or in any decisions of the Atomic Safety and Licensing

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<sup>\*</sup> This provision does not relieve the licensee of the requirements of 10 CFR 50.59.

<sup>\*\*</sup> Activities are excluded from this requirement if all measurable environmental effects are confined to on-site areas previously disturbed during site preparation and plant construction.



Board; or (2) a significant change in effluents or power level; or (3) a matter not previously reviewed and evaluated in the documents specified in (1) of this Subsection, which may have a significant adverse environmental impact.

The licensee shall maintain records of changes in plant design or operation and of tests and experiments carried out pursuant to this Subsection. These records shall include a written evaluation which provide bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question nor constitute a decrease in the effectiveness of this EPP to meet the objectives specified in Section 1.0. The licensee shall include as part of the Annual Environmental Operating Report (per Subsection 5.4.1) brief descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

### 3.2 Reporting Related to the NPDES Permits and State Certification

Violations of the NPDES permit or the State certification (pursuant to Section 401 of the Clean Water Act, respectively) shall be reported to the NRC by submittal of copies of the reports required by the NPDES permit or certification.

Changes and additions to the NPDES permit or the State certification shall be reported to the NRC within 30 days following the date the change is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

The NRC shall be notified of changes proposed by the licensee to the effective NPDES permit by providing NRC with a copy of the proposed change at the same time it is submitted to the permitting agency. The notification of a licensee-initiated change shall include a copy of the requested revision submitted to the permitting agency. The licensee shall provide the NRC with a copy of its application for renewal of the NPDES permit at the same time the application is submitted to the permitting agency.

Insert A ↑

## **Insert A**

The NRC shall be provided with a copy of the current NPDES permit or State Clean Water Act, Section 401 certification within 30 days of approval. Changes to the NPDES permit or state certification shall be reported to the NRC within 30 days of the date the change is approved.

### 3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in plant design or operation and performance of tests or experiments ~~required to achieve compliance with~~ other Federal, State, or local environmental regulations are not subject to requirements of Section 3.1.

that are either regulated or mandated by

However, if any environmental impacts of a change are not evaluated under other Federal, State, or local environmental regulations, then those impacts are subject to the requirements of Section 3.1.

11

If an event is reportable under 10 CFR 50.72, then a duplicate immediate report under this subsection is not required. However, the follow-up written report per Subsection 5.4.2 is still required.

#### 4.0 ENVIRONMENTAL CONDITIONS

##### 4.1 Unusual or Important Environmental Events

Operations Center

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to station operation shall be recorded and promptly reported to the NRC within 24 hours by telephone, telegraph or facsimile transmissions followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events, onsite plant or animal disease outbreaks, mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973, fish kills, increase in nuisance organisms or conditions and unanticipated or emergency discharge of waste water or chemical substances.

No routine monitoring programs are required to implement this condition.

##### 4.2 Environmental Monitoring

Deviations from required monitoring programs will not be a violation of license requirements if samples are accidentally spilled or contaminated, or if samples are unattainable due to hazardous conditions, seasonal unavailability, or malfunction of equipment.

##### 4.2.1 Erosion Control Inspection

Maintenance and monitoring of the transmission line corridor rights-of-way will be conducted as a part of the normal transmission line inspections from the GGNS to the Franklin in EHV Switching Station, to the Baxter Wilson Steam Electric Station Switchyard, and to the Port Gibson Substation. These inspections, conducted by aerial surveys and walking patrols at periodic intervals, include monitoring for erosion or vehicular damage caused by right-of-way encroachment by hunters and loggers. Problem areas will be identified.

The Erosion Control and Cooling Tower Drift monitoring Programs identified in Subsection 2.3 have been completed and no further monitoring under these Programs is required.

by the aerial surveys, and walking patrols will be directed to the problem areas to evaluate the extent of the problem to be corrected.

The Erosion Control Inspection Program shall begin upon commencement of normal transmission line inspection procedures. Semi-annual surveys shall continue until stabilization of soil and vegetation (i.e., ground cover establishment) is achieved.

A summary of the field inspection program and any procedures implemented to control abnormal erosion conditions associated with transmission line maintenance activities shall be reported in the Annual Environmental Operation Report in accordance with Subsection 5.4.1. Field logs indicating locations of erosion damage and measures taken to rectify erosion problem areas and estimation of the time to achieve effective stabilization will be maintained and available for inspection for a period of five years. Results reported shall contain information encompassing but not limited to inspection date, estimated size of erosion problem area, probable cause of erosion, type of stabilization program, and date of effective stabilization, as appropriate.

#### 4.2.2 Cooling Tower Drift Program

Seven sampling sites were utilized to measure cooling tower drift-deposition. At least two of the sampling sites had duplicate sampling devices. Six of the seven sites were located in areas where maximum salt deposition was predicted. These areas were extrapolated from the Bechtel Salt Deposition Model developed for the GGMS Final Environmental Report. The seventh sampling site was a control site located south of Raymond, Mississippi. An eighth offsite control site was added in 1985 in Port Gibson, Mississippi.

Fallout samples were collected on a quarterly basis and analyzed for ten specific constituents. The details of the sampling procedure and chemical

analysis were submitted to the NRC's Environmental Engineering Branch for review and approval prior to plant operation above 5% power. An evaluation of the results of the Cooling Tower Drift Program indicated that the operation of the GGNS cooling tower produced no statistically significant effect upon the salt deposition rate for those chemical species evaluated. The cooling tower drift program was therefore terminated.

5.0 ADMINISTRATIVE PROCEDURES

5.1 Review and Audit

The licensee shall provide for review and audit of compliance with the Environmental Protection Plan. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organization structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

5.2 Records Retention

*associated with this EPP*

Records ~~and logs relative to the environmental aspects of plant operation~~ shall be made and retained in a manner convenient for review and inspection. These records ~~and logs~~ shall be made available to NRC on request.

Records of modifications to plant structures, systems and components determined to potentially affect the continued protection of the environment shall be retained ~~for the life of the plant~~. All other records ~~data and logs~~ relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies.

5.3 Changes in Environmental Protection Plan

Requests for changes in the Environmental Protection Plan shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a licensee amendment incorporating the appropriate revision to the Environmental Protection Plan.

*until the date of the termination of the License*

#### 5.4 Station Reporting Requirements

##### 5.4.1 ~~Routine Reports~~ Deleted

An Annual Environmental Operating Report describing implementation of this EPP for the previous year shall be submitted to the NRC prior to May 1 of each year. The initial report shall be submitted prior to May 1 of the year following issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license for the first operational unit.

The report shall include summaries and analyses of the results of the environmental protection activities required by Subsection 4.2 of this Environmental Protection Plan for the report period, including a comparison with preoperational studies, operational controls (as appropriate), and previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the station operation on the environment. If harmful effects or evidence of trends towards irreversible damage to the environment are observed, the licensee shall provide a detailed analysis of the data and a proposed course of action to alleviate the problem.

The Annual Environmental Operating Report shall also include:

- (a) A list of EPP noncompliances and the corrective actions taken to remedy them.
- (b) A list of all changes in station design or operation, tests, and experiments made in accordance with Subsection 3.1 which involved a potentially significant unreviewed environmental issue.
- (c) A list of nonroutine reports submitted in accordance with Subsection 5.4.2.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing data shall be submitted as soon as possible in a supplementary report.



5.4.2 Nonroutine Reports

any event described in section 4.1 of this plan.

A written report shall be submitted to the NRC within 30 days of occurrence of ~~a nonroutine event~~. The report shall (a) describe, analyze, and evaluate the event, including extent and magnitude of these impact and plant operating characteristics, (b) describe the probable cause of the event, (c) indicate the action taken to correct the reported event, (d) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems, and (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection which also require reports to other Federal, State, or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this subsection. The NRC shall be provided with a copy of each report at the same time it is submitted to the other agency.

**Attachment 2**

**CNRO-2004-00004**

**Proposed Facility Operating License Changes (mark-up)**

**River Bend Station**

**APPENDIX B  
TO FACILITY OPERATING LICENSE NO. NPF-47  
RIVER BEND STATION  
UNIT 1**

**ENTERGY OPERATIONS, INC.  
DOCKET NO. 50-458**

RECEIVED  
AUG 01 1995  
SDC

**ENVIRONMENTAL PROTECTION PLAN  
(NONRADIOLOGICAL)**

Amendment No. 70, 79

RIVER BEND STATION

UNIT 1

ENVIRONMENTAL PROTECTION PLAN

(NONRADIOLOGICAL)

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 Objectives of the Environmental Protection Plan .....	1-1
2.0 Environmental Protection Issues.....	2-1
2.1 Aquatic Issues.....	2-1
2.2 Terrestrial Issues.....	2-1
2.3 Noise Issues.....	2-1
3.0 Consistency Requirements .....	3-1
3.1 Plant Design and Operation .....	3-1
3.2 Reporting Related to the NPDES <sup>OR LPDES</sup> Permit and State Certifications .....	3-2
3.3 Changes Required for Compliance with Other Environmental Regulations.....	3-3
4.0 Environmental Conditions .....	4-1
4.1 Unusual or Important Environmental Events.....	4-1
4.2 Environmental Monitoring .....	4-1
5.0 Administrative Procedures .....	5-1
5.1 Review and Audit .....	5-1
5.2 Records Retention .....	5-1
5.3 Changes in Environmental Protection Plan.....	5-2
5.4 Plant Reporting Requirements.....	5-2

## 1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of nonradiological environmental values during operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the facility is operated in an environmentally acceptable manner, as established by the Final Environmental Statement - Operating Licensing Stage (FES-OL) and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility construction and operation and of actions taken to control those effects.

Environmental concerns identified in the FES-OL which relate to water quality matters are regulated by way of the licensee's NPDES of LPDES permit.

2.0 Environmental Protection Issues

In the FES-OL dated January 1985, the staff considered the environmental impacts associated with the operation of the River Bend Station Unit 1. Certain environmental issues were identified which required study or license conditions to resolve environmental concerns and to assure adequate protection of the environment.

2.1 Aquatic Issues

Insert A

No specific aquatic issues were identified by the NRC staff in the FES-OL.

2.2 Terrestrial Issues

Detection of possible changes in or damage to local flora caused by drift deposition due to the operation of the River Bend Station Cooling Towers. (FES-OL Section 5.14.1)

2.3 Noise Issues

Adverse community reaction is expected from noise of operation of the plant (FES—OL, Section 5.12). A monitoring program to identify the extent of impacts and the mitigative actions necessary, if any, is specified in Section 4.2~~2~~ (FES—OL Section 5.14)

### **Insert A**

Effluent limitations and monitoring requirements are contained in the effective NPDES or LPDES permit issued by the federal or state permitting authority. The NRC will rely on these agencies for regulation of these matters as they involve water quality and aquatic biota.

### 3.0 Consistency Requirements

#### 3.1 Plant Design and Operation

The licensee may make changes in station design or operation or perform tests or experiments affecting the environment provided such activities do not involve an unreviewed environmental question and do not involve a change in the EPP\*. Changes in station design or operation or performance of tests or experiments which do not affect the environment are not subject to the requirements of this EPP. Activities governed by Section 3.3 are not subject to the requirements of this Section.

Before engaging in additional construction or operational activities which may significantly affect the environment, the licensee shall prepare and record an environmental evaluation of such activity. Activities are excluded from this requirement if all measurable nonradiological environmental effects are confined to the on-site areas previously disturbed during site preparation and plant construction. When the evaluation indicates that such activity involves an unreviewed environmental question, the licensee shall provide a written evaluation of such activity and obtain prior NRC approval. When such activity involves a change in the EPP, such activity and change to the EPP may be implemented only in accordance with an appropriate license amendment as set forth in Section 5.3 of this EPP.

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\* This provision does not relieve the licensee of the requirements of 10 CFR 50.59.



A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question if it concerns: (1) a matter which may result in a significant increase in any adverse environmental impact previously evaluated in the FES-OL, environmental impact appraisals, or in any decisions of the Atomic Safety and Licensing Board; or (2) a significant change in effluents or power level; or (3) a matter, not previously reviewed and evaluated in the documents specified in (1) of this Subsection, which may have a significant adverse environmental impact.

The licensee shall maintain records of changes in facility design or operation and of tests and experiments' carried out pursuant to this Subsection. These records shall include written evaluations which provide bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question or constitute a decrease in the

effectiveness of this EPP to meet the objectives specified in Section 1.0. The licensee shall include as part of the Annual Environmental Operating Report (per Subsection 5.4.1) brief descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

or LPDES

3.2 Reporting Related to the NPDES Permit and State Certification

Insert B →

The licensee shall notify the NRC of proposed revisions to the effective NPDES Permit if the proposed revision is a significant change of waste stream flow rate, concentration, or point of discharge. This shall be done by providing NRC with a copy of the proposed revision at the same

## **Insert B**

The NRC shall be provided with a copy of the current NPDES or LPDES permit or State Clean Water Act, Section 401 certification within 30 days of approval. Changes to the NPDES or LPDES permit or state certification shall be reported to the NRC within 30 days of the date the change is approved.

time it is submitted to the permitting agency. The licensee shall provide the NRC a copy of the application for renewal of the NPDES Permit at the same time the application is submitted to the permitting agency.

Changes to, or renewals of, the NPDES Permits or the State certification shall be reported to the NRC within 30 days following the date the change or renewal is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

### 3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in plant design or operation and performance of tests or experiments ~~which are required to achieve compliance with~~ other Federal, State, and local environmental regulations are not subject to the requirements of Section 3.1.

*That are either regulated or mandated by*

*However, if any environmental impacts of a change are not evaluated under other federal, state, or local environmental regulations, then those impacts are subject to the requirements of Section 3.1.*

If an event is reportable under 10 CFR 50.72, then a duplicate immediate report under this subsection is not required. However, the follow-up written report per Subsection 5.4.2 is still required.

4.0 Environmental Conditions

4.1 Unusual or Important Environmental Events

Operation Center

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to plant operation shall be recorded and reported to the NRC within 24 hours followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events, onsite plant or animal disease outbreaks, mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973, fish kills, increase in nuisance organisms or conditions, and unanticipated or emergency discharge of waste water or chemical substances.

No routine monitoring programs are required to implement this condition.

4.2 Environmental Monitoring

The Terrestrial and Noise Monitoring programs identified in Subsections 2.2 and 2.3 have been completed and no further monitoring under these programs is required.

4.2.1 Aquatic Monitoring

The certifications and permits required under the Clean Water Act provide mechanisms for protecting water quality and, indirectly, aquatic biota. The NRC will rely on the decisions made by the U.S. Environmental Protection Agency and the State of Louisiana under the authority of the Clean Water Act for any requirements for aquatic monitoring.

#### 4.2.2 Terrestrial Monitoring

Vegetative communities of the site and vicinity within 1 Kilometer of the cooling towers in all directions shall be aerially photographed to detect and assess the significance of damage, or lack thereof, as related to cooling tower drift dispersions. Photography shall be done by aerial overflight during September or early October. Monitoring shall include a program of low altitude color Infrared photography. The scale for full coverage shall be adequate to enable identification of vegetative damage over relatively small areas of terrain. Some circumstances may warrant inspection of photographs discerning individual trees. Such scale should be adequate to resolve impacted features. Photographs taken during plant operation shall be compared with pre-operational photographs (baseline) to ascertain changes in vegetation. Photographic interpretations shall be verified by ground inspection surveys to confirm areas of stress and non-stress. This program shall require aerial photographic monitoring to begin 2 years preceding initiation of cooling tower operation and during the following first and third years. If adverse effects are observed, the NRC will require the applicant to repeat the study in additional years and to perform examinations of vegetation, both on and off site, to determine the extent of the damage. Such studies are necessary to determine the need for any corrective action to mitigate the impacts.

A report shall be submitted as part of the annual report following each aerial photographic monitoring period. The report shall contain a

description of the program, results and interpretative analysis of environmental impacts. Results reported shall contain information encompassing but not limited to the following: sampling date, time of day, film types, and one (1) set of resultant color transparencies encompassing an area within approximately a one Kilometer (1 Km) radius of the Station's normal cooling towers.

#### 4.2.3 Noise Monitoring

A noise monitoring program shall be conducted in the site vicinity during the first full year following the onset of commercial operation of River Bend Station. The purpose of the program is to characterize the Station's operational noise levels, to compare these levels with ambient levels recorded during 1972 and 1980 surveys, and to evaluate the community impact, if any, of cooling tower fan blade tonal noise and incremental broadband noise.

The monitoring program will include measurements of sound levels at the nearest residence in each of six 45° (forty-five degree) directional sectors from the Northwest through the South (i.e., residences R1, R4, and R7 shown on Figure 5.22 FES-OL, and three additional residences in the compass sectors East, Southeast, and South. At each location daytime and nighttime (midnight to 4:00 a.m.) measurements will be made once in Winter and Summer to obtain statistical indicators ( $L_{90}$ ,  $L_{50}$ ,  $L_{eq}$ ) for a weighted decibel levels. Additionally one-third octave band analysis will be performed at each location on each visit.

Results of these surveys will be evaluated and included in the annual environmental monitoring report. If noise impacts are identified during the Summer or Winter surveys a discussion of proposed mitigative measures will be included in the monitoring report.

5.0 Administrative Procedures

5.1 Review and Audit

The licensee shall provide for review and audit of compliance with the EPP. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organization structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

5.2 Records Retention

*associated with this EPP*  
~~Records and logs relative to the environmental aspects of station operation~~ shall be made and retained in a manner convenient for review and inspection. These records ~~and logs~~ shall be made available to NRC on request.

Records of modifications to station structures, systems and components determined to potentially affect the continued protection of the environment shall be retained ~~for the life of the~~  
~~station~~. All other records ~~data and logs~~ relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies

*until the date of termination of the license*



### 5.3 Changes in Environmental Protection Plan

Requests for changes in the EPP shall include an assessment of the environmental impact of the proposed change and a supporting justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a license amendment incorporating the appropriate revision to the EPP.

### 5.4 Plant Reporting Requirements

#### 5.4.1

~~Routine Reports Deleted~~

An Annual Environmental Operating Report describing implementation of this EPP for the previous year shall be submitted within 90 days following each anniversary of issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license.

The report shall include summaries and analyses of the results of the environmental protection activities required by Subsection 4.2 of this EPP for the report period, including a comparison with related preoperational studies, operational controls (as appropriate), and previous nonradiological environmental monitoring reports, and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of trends toward irreversible damage to the environment are observed, the licensee shall provide a detailed analysis of the data and a proposed course of mitigating action.

The Annual Environmental Operating Report shall also include:

- (1) A list of EPP noncompliances and the corrective actions taken to remedy them.
- (2) A list of all changes in station design or operation, tests, and experiments made in accordance with Subsection 3.1 which involved a potentially significant unreviewed environmental question.
- (3) A list of nonroutine reports submitted in accordance with Subsection 5.4.2.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing results shall be submitted as soon as possible in a supplementary report.

#### 5.4.2 Nonroutine Reports

A written report shall be submitted to the NRC within 30 days of occurrence of a nonroutine

event. The report shall (a) describe, analyze, and evaluate the event, including extent and magnitude of the impact, and plant operating characteristics, (b) describe the probable cause of the event, (c) indicate the action taken to correct the reported event, (d) indicate the corrective

*any event described  
in Section 4.1 of this  
Plan. ↓*

action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems, and (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection which also require reports to other Federal, State or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this subsection. The NRC shall be provided with a copy of such report at the same time it is submitted to the other agency.

**Attachment 3**

**CNRO-2004-00004**

**Proposed Facility Operating License Changes (mark-up)**

**Waterford Steam Electric Station, Unit 3**

APPENDIX B  
TO FACILITY OPERATING LICENSE NO. NPF-38  
WATERFORD STEAM ELECTRIC STATION - UNIT NO. 3

ENTERGY LOUISIANA, INC.  
DOCKET NO. 50-382

ENVIRONMENTAL PROTECTION PLAN  
(NONRADIOLOGICAL)

MARCH 1985

AMENDMENT NO. 134

WATERFORD STEAM ELECTRIC STATION - UNIT NO. 3

ENVIRONMENTAL PROTECTION PLAN  
(NON-RADIOLOGICAL)

TABLE OF CONTENTS

Section	Page
1.0 Objectives of the Environmental Protection Plan. . . . .	1-1
2.0 Environmental Protection Issues. . . . .	2-1
2.1 Aquatic Resources Issues. . . . .	2-1
2.2 Terrestrial Resources Issues. . . . .	2-1
2.3 Cultural Resources Issues . . . . .	2-1
3.0 Consistency Requirements. . . . .	3-1
3.1 Plant Design and Operation. . . . .	3-1
3.2 Reporting Related to the <del>NPDES</del> <u>NPDES or LPDES</u> Permit and State Certification . . . . .	3-2
3.3 Changes Required for Compliance with other Environmental Regulations . . . . .	3-3
4.0 Environmental Conditions. . . . .	4-1
4.1 Unusual or Important Environmental Events. . . . .	4-1
4.2 Environmental Monitoring. . . . .	4-1
5.0 Administrative Procedures . . . . .	5-1
5.1 Review and Audit. . . . .	5-1
5.2 Records Retention . . . . .	5-1
5.3 Changes in Environmental Protection Plan. . . . .	5-1
5.4 Plant Reporting Requirements. . . . .	5-2

## 1.0 Objectives of the Environmental Protection Plan

The Environmental Protection Plan (EPP) is to provide for protection of environmental values during ~~construction and~~ operation of the nuclear facility. The principal objectives of the EPP are as follows:

- (1) Verify that the plant is operated in an environmentally acceptable manner, as established by the FES-OL and other NRC environmental impact assessments.
- (2) Coordinate NRC requirements and maintain consistency with other Federal, State, and local requirements for environmental protection.
- (3) Keep NRC informed of the environmental effects of facility ~~construction and operation~~ and of actions taken to control those effects.

Environmental concerns identified in the FES-OL which relate to water quality matters and regulated by way of the licensee's NPDES permit.

or LPDES

## 2.0 Environmental Protection Issues

In the FES-OL dated September 1981, the staff considered the environmental impacts associated with the operation of Waterford Steam Electric Station Unit No. 3. The environmental resources which were evaluated, and the corresponding NRC staff decisions regarding the protection of each resource are as follows:

### 2.1 Aquatic Resources Issues

Permit issued by the Federal or State permitting authority  
Effluent limitations and monitoring requirements are contained in the NPDES or LPDES  
Permit (No. LA 0007374) issued by the U.S. Environmental Protection Agency,  
Region VI. The NRC will rely on EPA for regulation of matters involving the  
protection of water quality and aquatic biota. These agencies

### 2.2 Terrestrial Resources Issues

No terrestrial resources issues were raised by the staff in the FES-OL.

### 2.3 Cultural Resources Issues

There are two archaeological sites on the licensee's property which have been determined to be eligible for the National Register of Historic Places. Protection for these two sites will be provided through a Cultural Resources Protection Plan. NRC requirements with regard to the cultural resources issue are specified in Subsection 4.2.1 of this EPP.



### 3.0 Consistency Requirements

#### 3.1 Plant Design and Operation

The licensee may make changes in station design or operation or perform tests or experiments affecting the environment, provided such activities do not involve an unreviewed environmental question and do not involve a change in the EPP. Changes in plant design or operation or performance of tests or experiments which do not affect the environment are not subject to the requirements of this EPP. Activities governed by Section 3.3 are not subject to the requirements of this Section.

Before engaging in construction or operation activities which may significantly affect the environment, the licensee shall prepare and record an environmental evaluation of such activity. Activities are excluded from this requirement if all measurable nonradiological effects are confined to the on-site areas previously disturbed during site preparation and plant construction. When the evaluation indicates that such activity involves an unreviewed environmental question, the licensee shall provide a written evaluation of such activity and obtain prior NRC approval. When such activity involves a change in the EPP, such activity and change to the EPP may be implemented only in accordance with an appropriate license amendment as set forth in Section 5.3 of this EPP.

A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question if it concerns: (1) a matter which may result in a significant increase in any adverse environmental impact previously evaluated

in the FES-OL, environmental impact appraisals, or in any decisions of the Atomic Safety and Licensing Board; or (2) a significant change in effluents or power level [in accordance with 10 CFR Part 51.5(b)(2)] or (3) a matter, not previously reviewed and evaluated in the documents specified in (1) of this Subsection, which may have a significant adverse environmental impact.

The licensee shall maintain records of changes in facility design or operation and of tests and experiments carried out pursuant to this Subsection. These records shall include written evaluations which provide bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question or constitute a decrease in the effectiveness of this EPP to meet the objectives specified in Section 1.0.

The licensee shall include as part of its Annual Environmental Operating Report (per Subsection 5.4.1) brief descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

or LPDES

### 3.2 Reporting Related to the NPDES Permit and State Certification

Insert A

Violations of the NPDES Permit or the State certification (pursuant to Section 401 of the Clean Water Act) shall be reported to the NRC by providing copies of the reports required by the NPDES Permit or State Certification. The licensee shall also provide the NRC with copies of the results of studies, other than routine monitoring, conducted in accordance with the NPDES Permit at the same time they are submitted to the permitting agency.

## **Insert A**

The NRC shall be provided with a copy of the current NPDES or LPDES permit or State Clean Water Act, Section 401 certification within 30 days of approval. Changes to the NPDES or LPDES permit or state certification shall be reported to the NRC within 30 days of the date the change is approved.

Changes to, or renewals of, the NPDES Permit or the State certification shall be reported to the NRC within 30 days following the date the change or renewal is approved. If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days following the date the stay is granted.

The NRC shall be notified of changes to the effective NPDES Permit proposed by the licensee by providing NRC with a copy of the proposed change at the same time it is submitted to the permitting agency. The licensee shall provide the NRC a copy of the application for renewal of the NPDES Permit at the same time the application is submitted to the permitting agency.

### 3.3 Changes Required for Compliance with Other Environmental Regulations

Changes in plant design or operation and performance of tests or experiments ~~which are required to achieve compliance with~~ other Federal, State, and local environmental regulations are not subject to the requirements of Section 3.1.

*That are either regulated or mandated by*

*However, if any environmental impacts of a change are not evaluated under other Federal, State, or local environmental regulations, then those impacts are subject to the requirements of Section 3.1.*

IF an event is reportable under 10 CFR 50.72, then a duplicate immediate report under this Subsection is not required. However, the follow-up written report per Subsection 5.4.2 is still required.

#### 4.0 Environmental Conditions

##### 4.1 Unusual or Important Environmental Events

Operations Center

Any occurrence of an unusual or important event that indicates or could result in significant environmental impact causally related to plant operation shall be recorded and reported to the NRC within 24 hours, followed by a written report per Subsection 5.4.2. The following are examples: excessive bird impaction events, onsite plant or animal disease outbreaks, mortality or unusual occurrence of any species protected by the Endangered Species Act of 1973, fish kills, increase in nuisance organisms or conditions, and unanticipated or emergency discharge of waste water or chemical substances.

No routine monitoring programs are required to implement this condition.

##### 4.2 Environmental Monitoring

###### 4.2.1 Cultural Resources Protection Plan

The licensee, the NRC and the State Historic Preservation Officer (SHPO) concur that the appropriate action to be taken to negate any possible adverse effects to the Waterford 3 cultural resources by the operation and maintenance activities of the licensee will be through a Cultural Resources Protection Plan that provides documentation of a "no adverse effect" determination.

This Cultural Resources Protection Plan was transmitted to the NRC and the SHPO by a letter from L. V. Maurin to G. W. Knighton, dated April 15, 1983 for

final review and concurrence, after which the NRC submitted the plan to the Advisory Council on Historic Preservation (ACHP) for comment on September 28, 1983. ACHP concurrence was received by the NRC, on October 18, 1983 without change.

The Cultural Resources Protection Plan, as referenced above, is the binding document to which the licensee will adhere and this Section of the EPP is considered fully satisfied with no further action required.

## 5.0 Administrative Procedures

### 5.1 Review and Audit

The licensee shall provide for review and audit of compliance with the Environmental Protection Plan. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. A description of the organizational structure utilized to achieve the independent review and audit function and results of the audit activities shall be maintained and made available for inspection.

### 5.2 Records Retention

*associated with this EPP*  
~~Records and logs relative to the environmental aspects of station operation~~ shall be made and retained in a manner convenient for review and inspection. These records ~~and logs~~ shall be made available to the NRC on request.

Records of modifications to plant structures, systems and components determined to potentially affect the continued protection of the environment shall be retained ~~for the life of the plant~~. All other records ~~data and logs~~ relating to this EPP shall be retained for five years or, where applicable, in accordance with the requirements of other agencies.

*until the date of the termination of the license*

### 5.3 Changes in Environmental Protection Plan

Request for a change in the Environmental Protection plan shall include an assessment of the environmental impact of the proposed change and a supporting

justification. Implementation of such changes in the EPP shall not commence prior to NRC approval of the proposed changes in the form of a license amendment incorporating the appropriate revision to the Environmental Protection Plan.

#### 5.4 Plant Reporting Requirements

##### 5.4.1 ~~Routine Reports~~ Deleted

An Annual Environmental Operating Report describing implementation of this EPP for the previous year shall be submitted to the NRC prior to May 1 of each year. The initial report shall be submitted prior to May of the year following issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license.

The report shall include summaries and analyses of the results of the environmental protection activities required by Subsection 4.2 of this Environmental Protection Plan for the report period, including a comparison with any related preoperational studies, operational controls (as appropriate), and previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the plant operation on the environment. If harmful effects or evidence of trends toward irreversible damage to the environment are observed, the licensee shall provide a detailed analysis of the data and a proposed course of mitigating actions.



The Annual Environmental Operating Report shall also include:

- (a) A list of EPP noncompliances and the corrective actions taken to remedy them.
- (b) A list of all changes in station design or operation, tests, experiments made in accordance with Subsection 3.1 which involved a potentially significant unreviewed environmental question.
- (c) A list of nonroutine reports submitted in accordance with Subsection 5.4.2.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing results shall be submitted as soon as possible in a supplementary report.

#### 5.4.2 Nonroutine Reports

A written report shall be submitted to the NRC within 30 days of occurrence of any event described in Section 4.1 of this Plan. The reports shall (a) describe, analyze, and evaluate the event, including extent and magnitude of the impact and plant operating characteristics, (b) describe the probable cause of the event, (c) indicate the action taken to correct the reported event, (d) indicate the corrective action taken to preclude repetition of the event and to prevent similar occurrences involving similar components or systems, and (e) indicate the agencies notified and their preliminary responses.

Events reportable under this subsection which also require reports to other Federal, State or local agencies shall be reported in accordance with those reporting requirements in lieu of the requirements of this subsection. The NRC shall be provided a copy of such report at the same time it is submitted to the other agency.