

July 3, 1997

Mr. Charles M. Dugger  
Vice President Operations  
Entergy Operations, Inc.  
P. O. Box B  
Killona, LA 70066

SUBJECT: ISSUANCE OF AMENDMENT NO. 131 TO FACILITY OPERATING LICENSE  
NPF-38 - WATERFORD STEAM ELECTRIC STATION, UNIT 3 (TAC NO. M98376)

Dear Mr. Dugger:

The Commission has issued the enclosed Amendment No. 131 to Facility Operating License No. NPF-38 for the Waterford Steam Electric Station, Unit 3. The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated April 11, 1997.

The amendment changes the Appendix A TSs by revising TS 3.6.2.2 and Surveillance Requirement 4.6.2.2 for the Containment Cooling System. Also, a Surveillance Requirement is added to verify that valves actuate on a Safety Injection Actuation Signal. To support this addition, Technical Specification Bases 3/4.3.6.2.2 is also included.

A copy of our related Safety Evaluation is also enclosed. A Notice of Issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,  
ORIGINAL SIGNED BY:  
Chandu P. Patel, Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosures: 1. Amendment No. 131 to NPF-38  
2. Safety Evaluation

cc w/encls: See next page

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

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*Chandu P. Patel*

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Mr. Charles M. Dugger  
Entergy Operations, Inc.

Waterford 3

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

ENERGY OPERATIONS, INC.

DOCKET NO. 50-382

WATERFORD STEAM ELECTRIC STATION, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 131  
License No. NPF-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Entergy Operations, Inc. (the licensee) dated April 11, 1997, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. NPF-38 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 131, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3. This license amendment is effective as of its date of issuance to be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

*Chandu P. Patel*

Chandu P. Patel, Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical  
Specifications

Date of Issuance: July 3, 1997

ATTACHMENT TO LICENSE AMENDMENT NO. 131

TO FACILITY OPERATING LICENSE NO. NPF-38

DOCKET NO. 50-382

Replace the following pages of the Appendix A Technical Specifications with the attached pages. The revised pages are identified by Amendment number and contain vertical lines indicating the areas of change. The corresponding overleaf pages are also provided to maintain document completeness.

REMOVE PAGES

3/4 6-18  
B 3/4 6-3  
B 3/4 6-4  
B 3/4 6-4a  
B 3/4 6-5

INSERT PAGES

3/4 6-18  
B 3/4 6-3  
B 3/4 6-4  
B 3/4 6-4a  
B 3/4 6-5

## CONTAINMENT SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

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2. Verifying that upon a recirculation actuation test signal, the safety injection system sump isolation valves open and that a recirculation mode flow path via an OPERABLE shutdown cooling heat exchanger is established.
  3. Verifying that each spray pump starts automatically on a CSAS test signal.
- e. At least once per 10 years by performing an air or smoke flow test through each spray header and verifying each spray nozzle is unobstructed.

## CONTAINMENT SYSTEMS

### CONTAINMENT COOLING SYSTEM

#### LIMITING CONDITION FOR OPERATION

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3.6.2.2 Two independent trains of containment cooling shall be OPERABLE with two fan coolers to each train.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTION:

With one train of containment cooling inoperable, restore the inoperable train to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours; restore the inoperable containment cooling train to OPERABLE status within the next 48 hours or be in COLD SHUTDOWN within the next 30 hours.

#### SURVEILLANCE REQUIREMENTS

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4.6.2.2 Each train of containment cooling shall be demonstrated OPERABLE:

- a. At least once per 31 days by:
  1. Starting each operational fan not already running from the control room and verifying that each operational fan operates for at least 15 minutes.
  2. Verifying a cooling water flow rate of greater than or equal to 625 gpm to each cooler.
- b. At least once per 18 months by:
  1. Verifying that each fan starts automatically on an SIAS test signal.
  2. Verifying a cooling water flow rate of greater than or equal to 1200 gpm to each cooler.
  3. Verifying that each cooling water control valve actuates to its full open position on a SIAS test signal.



## CONTAINMENT SYSTEMS

### BASES

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#### 3/4.6.1.7 CONTAINMENT VENTILATION SYSTEM (Continued)

Leakage integrity tests with a maximum allowable leakage rate for purge supply and exhaust isolation valves will provide early indication of resilient material seal degradation and will allow the opportunity for repair before gross leakage failure develops. The 0.60 La leakage limit shall not be exceeded when the leakage rates determined by the leakage integrity tests of these valves are added to the previously determined total for all valves and penetrations subject to Type B and C tests.

#### 3/4.6.2 DEPRESSURIZATION AND COOLING SYSTEMS

##### 3/4.6.2.1 and 3/4.6.2.2 CONTAINMENT SPRAY SYSTEM and CONTAINMENT COOLING SYSTEM

The OPERABILITY of the Containment Spray System and the Containment Cooling System ensures that containment depressurization and cooling capability will be available in the event of a LOCA or MSLB for any double-ended break of the largest reactor coolant pipe or main steam line. Under post-accident conditions these systems will maintain the containment pressure below 44 psig and temperatures below 269.3°F during LOCA conditions or 413.5°F during MSLB conditions. The systems also reduce the containment pressure by a factor of 2 from its post-accident peak within 24 hours, resulting in lower containment leakage rates and lower offsite dose rates.

The Containment Spray System also provides a mechanism for removing iodine from the containment atmosphere under post-LOCA conditions to maintain doses in accordance with 10 CFR Part 100 limits as described in Section 6.5.2 of the FSAR.

In MODE 4 when shutdown cooling is placed in operation, the Containment Spray System is realigned in order to allow isolation of the spray headers. This is necessary to avoid a single failure of the spray header isolation valve causing Reactor Coolant System depressurization and inadvertent spraying of the containment. To allow for this realignment, the Containment Spray System may be taken out-of-service when RCS pressure is  $\leq 400$  psia. At this reduced RCS pressure and the reduced temperature associated with entry into MODE 4, the probability and consequences of a LOCA or MSLB are greatly reduced. The Containment Cooling System is required OPERABLE in MODE 4 and is available to provide depressurization and cooling capability.

A train of Containment Cooling consists of two fans (powered from the same safety bus) and their associated coolers (supplied from the same cooling water loop). One Containment Cooling train and Containment Spray train has sufficient capacity to meet post accident heat removal requirements.

Operating each containment cooling train fan unit for 15 minutes and verifying a cooling water flow rate of 625 gpm ensures that all trains are OPERABLE and that all associated controls are functioning properly. It also ensures that blockage, fan or motor failure, or excessive vibration can be detected and corrective action taken.

## CONTAINMENT SYSTEMS

### BASES

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#### 3/4 6.2.1 and 3/4.6.2.2 CONTAINMENT SPRAY SYSTEM and CONTAINMENT COOLING SYSTEM (con't)

The 18 month Surveillance Requirement verifies that each containment cooling fan actuates upon receipt of an actual or simulated SIAS actuation signal. The 18 month frequency is based on engineering judgment and has been shown to be acceptable through operating experience.

Verifying a cooling water flow rate of 1200 gpm to each cooling unit provides assurance that the design flow rate assumed in the safety analyses will be achieved. The safety analyses assumed a cooling water flow rate of 1100 gpm. The 1200 gpm requirement accounts for measurement instrument uncertainties and potential flow degradation. Also considered in selecting the 18 month frequency were the known reliability of the Cooling Water System, the two train redundancy, and the low probability of a significant degradation of flow occurring between surveillances. The flow measurement for the 18 month test shall be done in a configuration equivalent to the accident lineup to ensure that in an accident situation adequate flow will be provided to the containment fan coolers for them to perform their safety function.

Verifying that each valve actuates to the full open position provides further assurance that the valves will travel to their full open position on a Safety Injection Actuation Signal.

#### 3/4.6.3 CONTAINMENT ISOLATION VALVES

The OPERABILITY of the containment isolation valves ensures that the containment atmosphere will be isolated from the outside environment in the event of a release of radioactive material to the containment atmosphere or pressurization of the containment and is consistent with the requirements of GDC 54 through GDC 57 of Appendix A to 10 CFR Part 50. Containment isolation within the time limits specified for those isolation valves designed to close automatically ensures that the release of radioactive material to the environment will be consistent with the assumptions used in the analyses for a LOCA.

The opening of locked or sealed closed containment isolation valves on an intermittent basis under administrative control includes the following considerations: (1) stationing an operator, who is in constant communication with control room, at the valve controls, (2) instructing this operator to close these valves in an accident situation, and (3) assuring that environmental conditions will not preclude access to close the valves and that this action will prevent the release of radioactivity outside the containment.

"Containment Isolation Valves", previously Table 3.6-2, have been incorporated into Plant Procedure UNT-005-026.

#### 3/4.6.4 COMBUSTIBLE GAS CONTROL

The OPERABILITY of the equipment and systems required for the detection and control of hydrogen gas ensures that this equipment will be available to maintain the

## CONTAINMENT SYSTEMS

### BASES

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#### 3/4.6.4 COMBUSTIBLE GAS CONTROL (Continued)

hydrogen concentration within containment below its flammable limit during post-LOCA conditions. Either recombiner unit is capable of controlling the expected hydrogen generation associated with (1) zirconium-water reactions, (2) radiolytic decomposition of water, and (3) corrosion of metals within containment. These hydrogen control systems are consistent with the recommendations of Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment Following a LOCA," March 1971.

SURVEILLANCE REQUIREMENT SR 4.6.4.2.a requires performance of a system functional test for each hydrogen recombiner to ensure that the recombiners are operational and can attain and sustain the temperature necessary for hydrogen recombination. In particular, this SR requires verification that the minimum heater sheath temperature increases to  $\geq 700^{\circ}\text{F}$  in  $\leq 90$  minutes. After reaching  $700^{\circ}\text{F}$ , the power is increased to maximum for approximately 2 minutes and verified to be  $\geq 60$  kW.

SURVEILLANCE REQUIREMENT SR 4.6.4.2.b ensures that there are no physical problems that could affect recombiner operation. Since the recombiners are mechanically passive, they are not subject to mechanical failure. The only credible failures involve loss of power, blockage of the internal flow path, missile impact, etc. A visual inspection is sufficient to determine abnormal conditions that could cause such failures.

SURVEILLANCE REQUIREMENT SR 4.6.4.2.c requires performance of a resistance to ground test for each heater phase to ensure that there are no detectable grounds in any heater phase. This is accomplished by verifying that the resistance to ground for any heater phase is  $\geq 10,000$  ohms.

#### 3/4.6.5 VACUUM RELIEF VALVES

The OPERABILITY of the primary containment to annulus vacuum relief valves with a setpoint of less than or equal + 0.3 psid ensures that the containment internal pressure differential does not become more negative than the containment design limit for internal pressure differential of 0.65 psi. This situation would occur, for the worst case, if all containment heat removal systems (containment spray, containment cooling, and other HVAC systems) were inadvertently started with only one vacuum relief valve OPERABLE.

#### 3/4.6.6 SECONDARY CONTAINMENT

##### 3/4.6.6.1 SHIELD BUILDING VENTILATION SYSTEM

The OPERABILITY of the shield building ventilation systems ensures that containment vessel leakage occurring during LOCA conditions into the annulus will be filtered through the HEPA filters and charcoal adsorber trains prior to discharge to the atmosphere. This requirement is necessary to meet the assumptions used in the safety analyses and limit the site boundary radiation doses to within the limits of 10 CFR Part 100 during LOCA conditions.

## CONTAINMENT SYSTEMS

### BASES

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#### 3/4.6.6.1 SHIELD BUILDING VENTILATION SYSTEM (Continued)

Operation of the system with the heaters on for at least 10 hours continuous over a 31-day period is sufficient to reduce the buildup of moisture on the adsorbers and HEPA filters. Obtaining and analyzing charcoal samples after 720 hours of adsorber operation (since the last sample and analysis) ensures that the adsorber maintains the efficiency assumed in the safety analyses and is consistent with Regulatory Guide 1.52.

#### 3/4.6.6.2 SHIELD BUILDING INTEGRITY

SHIELD BUILDING INTEGRITY ensures that the release of radioactive materials from the primary containment atmosphere will be restricted to those leakage paths and associated leak rates assumed in the safety analyses. This restriction, in conjunction with operation of the shield building ventilation system, will limit the site boundary radiation doses to within the limits of 10 CFR Part 100 during accident conditions.

#### 3/4.6.6.3 SHIELD BUILDING STRUCTURAL INTEGRITY

This limitation ensures that the structural integrity of the containment shield building will be maintained comparable to the original design standards for the life of the facility. Structural integrity is required to provide (1) protection for the steel vessel from external missiles, (2) radiation shielding in the event of a LOCA, and (3) an annulus surrounding the steel vessel that can be maintained at a negative pressure during accident conditions. A visual inspection is sufficient to demonstrate this capability.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 131 TO

FACILITY OPERATING LICENSE NO. NPF-38

ENERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

1.0 INTRODUCTION

By application dated April 11, 1997, Entergy Operations, Inc. (the licensee), submitted a request for changes to the Waterford Steam Electric Station, Unit 3 (Waterford 3), Technical Specifications (TSs). The requested changes would revise TS 3.6.2.2 and Surveillance Requirement 4.6.2.2 for the Containment Cooling System (CCS). These changes are intended to make TS consistent with the containment cooling assumptions made in containment analysis for Waterford 3. Also, a Surveillance Requirement will be inserted to verify that valves actuate on a Safety Injection Actuation Signal. To support this addition, Technical Specification Bases 3/4.3.6.2.2 has been included.

2.0 EVALUATION

There are two Containment Heat Removal Systems provided at Waterford 3. Each system consists of a CCS and a Containment Spray System (CSS). They are both equally rated at 100 percent heat removal capacity meaning that either system can remove the design heat load from containment. Since the proposed TSs changes only relate to the CCS, CSS will not be discussed in this evaluation.

Each CCS has two fan coolers both discharging into a common duct. The duct work system then distributes the discharge to different areas of the containment. Component cooling water (CCW) flows through each cooler to remove containment heat. The fans are two speed, fast for normal operation and slow for accident mitigation. The fans are normally turned on manually as needed to maintain containment temperature between 90-120 °F. Upon receipt of a Safety Injection Actuation Signal (SIAS), the fan coolers are automatically energized at low fan speed. It is important to note that the fan coolers in the accident mode cannot be manually initiated without the presence of an SIAS signal and the high speed fan cannot be energized in the accident mode.

The original TS 3.6.2.2 for the CCS required that two independent groups of containment cooling fans be operable with two fan systems to each group. As a result of reanalysis in May 1988, the licensee concluded that acceptable containment peak pressures and temperatures could be achieved at full power with only one cooling fan per train operable at the start of the accident. Long term operation was also found acceptable when the analysis verified that the containment peak pressure can be reduced by a factor of two within 24 hours after the accident. These analyses assumed a 1325 gpm flow rate through the coolers.

Based on the above analysis, the Staff granted TS changes by letter dated June 2, 1988, which changed the operability requirement from two fans per group to one fan in each group. However, the water flow rate was maintained at the original 1325 gpm value. These TSs have been in place since that time.

During Sept-Oct 1995, as part of a Waterford 3 initiated program to perform flow balance testing on the CCW system, it was found that measured flow rates were less than TS value of 1325 gpm. An evaluation was performed and determined that the CCS remained operable with the measured flows. Licensee also determined that the fouling in the Dry Cooling Towers (DCT) caused the low flow condition in CCW. The DCT tubes were cleaned during January through March, 1996. Subsequent measurements showed that at least one cooler in each train exceeded the criteria of 1325 gpm after the tube cleaning.

Operations continued with TSs that required only one fan system per train. In addition, the flow rate criteria of 1325 gpm has been maintained. However, by letter dated April 11, 1997, the licensee requested to change the TSs for CCS to make it consistent with the current supporting analyses for Waterford 3. The proposed change will require two independent trains of containment cooling system with two fan coolers in each train instead of one fan cooler per train. The staff finds the change acceptable because this change will return this specification back to the original requirement.

Supporting this change is a request to lower the required flow rate to each cooler from 1325 gpm to 1200 gpm. The lower flow rate will restore the originally intended margin relative to pump performance. An additional specification (SR 4.6.2.2.b.3) has been added to verify that each cooling water control valve goes to the open position on an SIAS. In the process of making these changes the licensee has replaced the nomenclature of "group of containment cooling fans" with "train of containment cooling" in both the Specification and Surveillance. Other minor changes have also been included consistent with the above changes. These changes have been modeled after the containment cooling Specification in NUREG 1432, "Standard Technical Specifications - Combustion Engineering Plants". The staff has reviewed these changes and agrees that the revised nomenclature more closely follows the guidance provided in the NUREG. Therefore the staff finds these changes acceptable.

The lower flow rate of 1200 gpm from the 1325 gpm is supported by the revised analyses using CONTEMPT computer code. The results of these analyses were provided in the April 11, 1997, submittal. It is important to note that CONTEMPT is the same computer program that was used in the original design basis analyses which the staff had found to be acceptable. In addition, the revised analyses used the same set of assumptions as the current analyses of record documented in the FSAR, except for the CCW flow to CFCs and shutdown cooling heat exchanger, air flow rate for each CFC, and the number of CFCs per train.

The results of these analyses show that all design criteria are satisfied with a flow rate of 1100 gpm. Therefore, the proposed TS change to 1200 gpm still contains a 100 gpm margin over the supporting analyses. In addition, the air flow rate was assumed to be 33,250 ACFM. This represents a 5 percent reduction from the value provided by the fan cooler vendor (American Air Filter). The value provided by the vendor represents the design air flow rate of the CFC. In addition, the licensee indicated that CFC flow rate will be measured as part of the implementation of Generic Letter 89-13 program.

Based on the above discussion and evaluation of the proposed TS changes, the NRC staff determined that the changes to the TSs are consistent with the analyses performed by the licensee using the computer program that has been accepted by the staff. Therefore, the staff finds the proposed changes acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Louisiana State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding (62 FR 19626). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

## 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Kudrick

Date: July 3, 1997