

August 11, 1986

Docket No.: 50-416

DISTRIBUTION:

Mr. Oliver D. Kingsley, Jr.
Vice President, Nuclear Operations
Mississippi Power & Light Company
Post Office Box 23054
Jackson, Mississippi 39205

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Dear Mr. Kingsley:

SUBJECT: MAXIMUM CLOSING TIME OF CONTAINMENT ISOLATION VALVE AND
ADDING AUTOMATIC SPRINKLER SYSTEM

RE: GRAND GULF NUCLEAR STATION, UNIT 1

The Commission has issued the enclosed Amendment No. 15 to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1. This amendment consists of changes to the Technical Specifications (TSs) in response to your application dated February 28, 1986.

This amendment changes the maximum closing time of a containment isolation valve and adds an automatic sprinkler system in the specification for fire suppression systems.

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

Sincerely,

Original signed by

Lester L. Kintner, Project Manager
BWR Project Directorate No. 4
Division of BWR Licensing

Enclosures:

1. Amendment No. 15 to License No. NPF-29
2. Safety Evaluation

cc w/enclosures:
See next page

PD#4/PM
MO'Brien
8/1/86

PD#4/PM
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8/7/86

FOB/D
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8/8/86

OGC
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8/4/86

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3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 11, 1986



PD#4/MA
MQIBrien
8/1/86


PD#4/PM
LKintner:lb
8/1/86

OGC
/ /86

PD#4/D
WButler
8/4/86



ATTACHMENT TO LICENSE AMENDMENT NO. 15

FACILITY OPERATING LICENSE NO. NPF-29

DOCKET NO. 50-416

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 area of change. Overleaf page(s) provided to maintain document completeness.*

Remove

3/4 6-30
3/4 7-19
3/4 7-20

Insert

3/4 6-30
3/4 7-19*
3/4 7-20

TABLE 3.6.4-1
CONTAINMENT AND DRYWELL ISOLATION VALVES

SYSTEM AND VALVE NUMBER		PENETRATION NUMBER	VALVE GROUP ^(a)	MAXIMUM ISOLATION TIME (Seconds)
1. Automatic Isolation Valves[#]				
a. Containment				
Main Steam Lines	B21-F028A	5(0)*	1	5
Main Steam Lines	B21-F022A	5(I)*	1	5
Main Steam Lines	B21-F067A-A	5(0)*	1	9
Main Steam Lines	B21-F028B	6(0)*	1	5
Main Steam Lines	B21-F022B	6(I)*	1	5
Main Steam Lines	B21-F067B-A	6(0)*	1	9
Main Steam Lines	B21-F028C	7(0)*	1	5
Main Steam Lines	B21-F022C	7(I)*	1	5
Main Steam Lines	B21-F067C-A	7(0)*	1	9
Main Steam Lines	B21-F028D	8(0)*	1	5
Main Steam Lines	B21-F022D	8(I)*	1	5
Main Steam Lines	B21-F067D-A	8(0)*	1	9
RHR Reactor Shutdown Cooling Suction	E12-F008-A	14(0)	3	40
RHR Reactor Shutdown Cooling Suction	E12-F009-B	14(I)	3	40
Steam Supply to RHR and RCIC Turbine	E51-F063-B	17(I)	4	20
Steam Supply to RHR and RCIC Turbine	E51-F064-A	17(0)	4	20
Steam Supply to RHR and RCIC Turbine	E51-F076-B	17(I)	4	20
RHR to Head Spray	E12-F023-A	18(0)	3	94
RHR to Head Spray	E12-F394-B	18(I)	3	43

(a) See Specification 3.3.2, Table 3.3.2-1, for isolation signal(s) that operates each valve group.

(b) Deleted

(c) Hydrostatically tested with water to 1.10 P_a, 12.65 psig.

(d) Hydrostatically tested by pressurizing system to 1.10 P_a, 12.65 psig.

(e) Hydrostatically tested during system functional tests.

(f) Deleted

(g) Normally closed or locked closed manual valves may be opened on an intermittent basis under administrative control.

*The provisions of Specification 4.0.4 are not applicable for entry into OPERATIONAL CONDITIONS 2 or 3 provided the surveillance is performed within 12 hours after reaching a reactor steam pressure of 600 psig and prior to entry into OPERATIONAL CONDITION 1.

#The "-A, -B, -C, -(A), -(B), -(C)" designators on the valve numbers indicate associated electrical divisions.

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PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

4.7.6.1.3 The diesel driven fire pump starting 24-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
 1. The electrolyte level of each cell in each battery is above the plates, and
 2. The overall battery set voltage is greater than or equal to 24 volts.
- b. At least once per 92 days by verifying that the specific gravity for each cell is appropriate for continued service of the battery. The specific gravity, corrected to 77°F and full electrolyte level, shall be greater than or equal to 1.20.
- c. At least once per 18 months by verifying that:
 1. The battery case and battery racks show no visual indication of physical damage or abnormal deterioration, and
 2. Battery terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material.

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

3.7.6.2 The following spray/sprinkler systems shall be OPERABLE:

- a. Diesel Generator Building
 - 1. Diesel Generator A pre-action sprinkler system N1P64D142A
 - 2. Diesel Generator B pre-action sprinkler system N1P64D142B
 - 3. Diesel Generator C pre-action sprinkler system N1P64D142C

- b. Auxiliary Building*
 - 1. Elevation 93'/103' Northeast Corridor N1P64D150
 - 2. Elevation 119' Northeast Corridor N1P64D151
 - 3. Elevation 139' Northeast Corridor N1P64D152
 - 4. Elevation 166' Northeast Corridor N1P64D153
 - 5. Elevation 119' West Corridor N1P64D158
 - 6. Elevation 139' West Corridor N1P64D159
 - 7. Elevation 166' Northwest Corridor N1P64D162

- c. Control Building*
 - 1. Elevation 148' Lower Cable Room N1P64D154
 - 2. Elevation 189' Upper Cable Room N1P64D155
 - 3. Elevation 93' NSP64D140

- d. Fire Pump House* NSP64D136A/B

APPLICABILITY: Whenever equipment protected by the spray/sprinkler systems is required to be OPERABLE.

ACTION:

- a. With one or more of the above required spray and/or sprinkler systems inoperable, within one hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged; for other areas, establish an hourly fire watch patrol.
- b. The provisions of Specification 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.7.6.2 The above required spray and sprinkler systems shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve, manual, power operated or automatic, in the flow path is in its correct position.

*Wet pipe sprinkler system.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 15 TO FACILITY OPERATING LICENSE NO. NPF-29
MISSISSIPPI POWER & LIGHT COMPANY
MIDDLE SOUTH ENERGY, INC.
SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION
GRAND GULF NUCLEAR STATION, UNIT 1
DOCKET NO. 50-416

1.0 INTRODUCTION

By letter dated February 28, 1986, Mississippi Power & Light Company, Middle South Energy, Inc., and South Mississippi Electric Power Association (the licensees) requested an amendment to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1. The proposed amendment would change the Technical Specifications by: (1) changing the closing time of a containment isolation valve in Table 3.6.4-1, "Containment and Drywell Isolation Valves" and deleting the associated footnote; and (2) adding the location of an automatic sprinkler system in Specification 3/4.7.6, "Fire Suppression Systems."

2.0 EVALUATION

2.1 Closing Time of Residual Heat Removal (RHR) to Head Spray Valve

The proposed change will increase the maximum closure time of valve E12-F394 from 35 seconds to 43 seconds. Valve E-12-F-394 is designated in Technical Specification Table 3.6.4-1 as the RHR to Head Spray valve for which an initial closure time of 35 seconds is specified with a footnote that final closure time is to be determined during ASME Section XI testing. MP&L had committed to revise the maximum closure time of valve E12-F394 within 90 days after completion of the second ASME Section XI closure time test. This was approved by the staff on November 8, 1985 as Amendment 7 to Facility Operating License No. NPF-29.

In the February 28, 1986 submittal, the licensee stated that the second ASME Section XI closure time test was completed on November 30, 1985. A maximum closing time of 43 seconds was determined using the method described in the Technical Specification Bases 3/4.6.4. which was accepted by the staff. Therefore, the staff concludes that the change to Table 3.6.4.-1 is acceptable.

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2.2 Automatic Sprinkler in Auxiliary Building

The proposed change would add a sprinkler system recently installed in the auxiliary building Elevation 166 feet, Northwest Corridor to Specification 3/4.7.6. This change fulfills a commitment made during the operating license review.

The licensee installed a wet pipe sprinkler system in fire zones 1A424, 1A417 and 1A428 which are at Elevation 166'-0" of the auxiliary building. The system has been designed and installed in accordance with NFPA 13. The proposed changes reflect the inclusion of this sprinkler system in Specification 3.7.6.2, which lists those sprinkler systems which shall be operable and subject to surveillance. We find this change acceptable because it meets the applicable fire protection code.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The 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 this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this 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 this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (51 FR 18685) on May 21, 1986, and consulted with the state of Mississippi. No public comments were received, and the state of Mississippi did not have any comments.

The staff 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, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and the security nor to the health and safety of the public.

Principal Contributor: J. Stang, Project Directorate No. 1, DBL

Dated: August 11, 1986