

Docket No. 50-416

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Mr. J.P. McGaughy, Jr.
 Assistant Vice President - Nuclear
 Production
 Mississippi Power & Light Company
 P.O. Box 1640
 Jackson, Mississippi 39205

Dear Mr. McGaughy:

Subject: Amendment No. 4 to Facility Operating License No. NPF-13 -
 Grand Gulf Nuclear Station, Unit 1

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 4 to Facility Operating License No. NPF-13 for the Grand Gulf Nuclear Station, Unit 1. The amendment is in response to your letters dated July 2, 1982 and September 13, 1982. The amendment grants changes to the Technical Specifications and adds an additional license condition consistent with your July 2 and September 13, 1982 requests. The changes to the Technical Specifications relate to Specifications Table 3.8.4.1-1, Molded Case Circuit Breaker Response Time and 3/4.6.5, Drywell Post-LOCA Vacuum Breakers. The additional license condition relates to the Drywell Post-LOCA Vacuum Breaker Position Indicators.

A copy of the related safety evaluation supporting Amendment No. 4 to Facility Operating License NPF-13 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,



Darrell G. Eisenhut, Director
 Division of Licensing
 Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 4 to NPF-13
2. Safety Evaluation
3. Federal Register Notice

cc w/enclosures:
 See next page

*SEE ATTACHED PAGES FOR PREVIOUS CONCURRENCES

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Docket No. 50-416

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Assistant Vice President - Nuclear
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P.O. Box 1640
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P.O. Box 1640
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See next page

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DATE	10/8/82	10/8/82	10/ /82	10/ /82	10/ /82	10/ /82	

Grand Gulf

Mr. J. P. McGaughy
Assistant Vice President
Nuclear Production
Mississippi Power & Light Company
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Jackson, Mississippi 39205

Mr. R. Trickovic, Project Manager
Grand Gulf Nuclear Station
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Gaithersburg, Maryland 20877

Mr. Alan G. Wagner
Resident Inspector
Route 2, Box 150
Port Gibson, Mississippi 39150

Grand Gulf

cc: (continued)

President
Claiborne County Board of Supervisors
Port Gibson, Mississippi 39150

Office of the Governor
State of Mississippi
Jackson, Mississippi 39201

U. S. Environmental Protection Agency
Attn: EIS Coordinator
Region IV Office
345 Courtland Street, N. E.
Atlanta, Georgia 30309

Office of Attorney General
Attn: William J. Guste, Jr.
Department of Justice
7434 Parkins Road, Suite C
Baton Rouge, Louisiana 70808

MISSISSIPPI POWER AND LIGHT COMPANY

MIDDLE SOUTH ENERGY, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

License No. NPF-13
Amendment No. 4

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
 - A. The applications for the amendments filed by the Mississippi Power and Light Company dated July 2, 1982 and September 13, 1982 comply 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;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended as follows:
 - A. Page changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) to read as follows:
 - (2) The Technical Specifications contained in Appendix A, as revised through Amendment No. 4, 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.

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B. Add paragraph 2.C.(46) to read as follows:

(46) Post-LOCA Vacuum Breaker Position Indicators

Prior to startup following the first refueling outage, MP&L shall install position indicators with redundant indication and alarm in the control room for the check valves associated with the drywell post-LOCA vacuum breakers.

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Darrell G. Eisenhower, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: October 14, 1982

*SEE ATTACHED PAGE FOR PREVIOUS CONCURRENCES

*Not of amendment only
conditioned on model
change in SER of
transmittal letter*

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DATE	10/8/82	10/8/82	10/14/82	10/14/82	10/14/82	10/14/82	

B. Add paragraph 2.C.(46) to read as follows:

~~(46) Post-LOCA Vacuum Breaker Position Indicators~~

~~Prior to startup following the first refueling outage, MP&L shall install position indication switches on the check valves for the drywell post-LOCA vacuum breakers.~~

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Barrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Date of Issuance: October 14, 1982

OFFICE ▶	DL:LB#2/PM	DL:LB#2/LA	DL:LB#2/BC	OELD	DL:AD/L	DL:DIR	
SURNAME ▶	DHouston:pt	EHyKton	ASchwencer		TNovak	DEisenhut	
DATE ▶	10/8/82	10/9/82	10/ /82	10/ /82	10/ /82	10/ /82	

ATTACHMENT TO LICENSE AMENDMENT NO. 4

FACILITY OPERATING LICENSE NO. NPF-13

DOCKET NO. 50-416

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. This revised page is identified by Amendment number and contains a vertical line indicating the area of change.

REMOVE

3/4 6-45

-

3/4 8-22

3/4 8-23

3/4 8-24

3/4-8-25

3/4 8-26

3/4 8-27

INSERT

3/4 6-45

3/4 6-45a

3/4 8-22

3/4 8-23

3/4 8-24

3/4 8-25

3/4 8-26

3/4 8-27

REMOVE

3/4 8-28

3/4 8-29

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3/4 8-31

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3/4 8-33

3/4 8-34

3/4 8-35

3/4 8-36

3/4 8-37

INSERT

3/4 8-28

3/4 8-29

3/4 8-30

3/4 8-31

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3/4 8-37

CONTAINMENT SYSTEMS

3/4.6.5 DRYWELL POST-LOCA VACUUM BREAKERS

LIMITING CONDITION FOR OPERATION

3.6.5 All drywell post-LOCA vacuum breakers shall be OPERABLE and closed.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

ACTION:

- a. With one drywell post-LOCA vacuum breaker inoperable for opening but known to be closed, restore the inoperable vacuum breaker to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. With one drywell post-LOCA vacuum breaker open, restore the open vacuum breaker to the closed position within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- c. With the position indicator of an OPERABLE drywell post-LOCA vacuum breaker inoperable, verify the vacuum breaker to be closed at least once per 24 hours by local indication. Otherwise declare the vacuum breaker inoperable. (See Note 1)

SURVEILLANCE REQUIREMENTS

4.6.5 Each drywell post-LOCA vacuum breaker shall be:

- a. Verified closed at least once per 7 days.
- b. Demonstrated OPERABLE:
 1. At least once per 31 days by:
 - a) Cycling the vacuum breaker and isolation valve(s) through at least one complete cycle of full travel.
 - b) Verifying the position indicator OPERABLE by observing expected valve movement during the cycling test. (See Note 1)
 2. At least once per 18 months by:
 - a) Verifying the pressure differential required to open the vacuum breaker, from the closed position, to be less than or equal to 1.0 psid, and (See Note 1)
 - b) Verifying the position indicator OPERABLE by performance of a CHANNEL CALIBRATION. (See Note 1)

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

3. By verifying the OPERABILITY of the vacuum breaker isolation valve differential pressure actuation instrumentation with the opening setpoint 1.0 psid by performance of a:
 - a) CHANNEL CHECK at least once per 24 hours,
 - b) CHANNEL FUNCTIONAL TEST at least once per 31 days, and
 - c) CHANNEL CALIBRATION at least once per 18 months.
-
-

Note 1: Until restart after the first refueling outage, the following requirements shall apply:

3.6.5

- c. With the position indicator of an OPERABLE drywell post-LOCA vacuum breaker inoperable, verify the isolation valve to be closed at least once per 24 hours by local indication. Otherwise declare the isolation valve inoperable.

4.6.5.b.1

- b. Verifying the position indicator for the vacuum breaker isolation valve OPERABLE by observing expected valve movement during the cycling test.

4.6.5.b.2

At least once per 18 months by:

- a) Verifying the pressure differential required to open the vacuum breaker, from the closed position, to be less than or equal to 1.0 psid by use of an equivalent test weight and lever arm on the vacuum breaker, and
- b) Verifying the position indicator for the vacuum breaker isolation valve OPERABLE by performance of a CHANNEL CALIBRATION.

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

2. Type, NZM

BREAKER NUMBER	TRIP SETPOINT (Amperes ³)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1112-01	500	0.100	NEUTRON MON SYS DRIVE MECHANISM (1C51-J001A)
52-1112-02	500	0.100	NEUTRON MON SYS DRIVE MECHANISM (1C51-J001B)
52-1112-03	500	0.100	NEUTRON MON SYS DRIVE MECHANISM (1C51-J001C)
52-1112-04	500	0.100	NEUTRON MON SYS DRIVE MECHANISM (1C51-J001D)
52-1112-05	175	0.100	STEAM TUNNEL CLR INSIDE CTMT FAN (N1M41C004A-N)
52-1112-06	500	0.100	NEUTRON MON SYS DRIVE MECHANISM (1C51-J001E)
52-1112-07	1200	0.100	LIGHTING XFMR [#] 1X105 (N1R18S105-D)
52-1112-10	1200	0.100	LIGHTING XFMR [#] 1X109 (N1R18S109-D)
52-1112-15	320	0.100	RWCU BACKWASH TRANSFER PUMP (N1G36C004-N)
52-1112-18	24	0.100	PRECOAT TANK AGITATOR (N1G36D019-N)
52-1112-20	90	0.100	RWCU FILTER DEMIN HOLDING PUMP (N1G36C001A-N)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes ⁴)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1112-21	800	0.100	480 V RECEPTACLE
52-1112-22	5	0.100	MOV-STM TUNNEL COOLER INLET (N1P44F105A-N)
52-1112-24	32	0.100	MOV CLEANUP LINE RECIRC LOOP A (Q1G33F100-N)
52-1112-27	24	0.100	RESIN TANK AGITATOR (N1G36D020-N)
52-1112-28	38	0.100	MOV RWCU HEAT EXCHANGER BYPASS (N1G33F104-N)
52-1112-31	38	0.100	MOV RWCU HEAT EXCHANGER BYPASS (N1G33F044-N)
52-1112-36	500	0.100	REAC. RECIRC. PUMP SPACE HEATER (TB1B33C001A)
52-1112-37	800	0.100	480 V RECEPTACLE
52-1113-07	125	0.100	CNTMT FLOOR DRAIN SUMP PUMP (N1P45C019B-N)
52-1113-21	60	0.100	DRYWELL EQUIP DRAIN SUMP PUMP (N1P45C002B-N)
52-1113-30	28	0.100	MOV RWCU HX OUTL ISOL VLV (N1G33F254-N)
52-1113-44	800	0.100	480 V RECEPTACLE

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT _T (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1113-47	500	0.100	SPARE
52-1151-06	240	0.100	CNTMT COOLING FILTER TRAIN FAN (N1M41D002A-N)
52-1151-07	17.5	0.100	REAC. RECIRC. HPU OIL PUMP FAN (N1B33D003A3-N)
52-1151-10	600	0.100	REAC. RECIRC. HPU OIL PUMP (N1B33D003A1-N)
52-1151-12	75	0.100	MOV - RECIRC PUMP SUCTION (Q1B33F023A-N)
52-1151-19	75	0.100	MOV RECIRC PUMP DISCHARGE (Q1B33F067A-N)
52-1151-20	600	0.100	REAC. RECIRC. HPU OIL PUMP (N1B33D003A2-N)
52-1151-21	17.5	0.100	REAC. RECIRC. HPU OIL PUMP FAN (N1B33D003A4-N)
52-1151-22	60	0.100	DRYWELL CHEMICAL WASTE SUMP PUMP (N1P45C029-N)
52-1151-27	60	0.100	DRYWELL EQPT. DR. SUMP PUMP (N1P45C002A-N)
52-1151-28	125	0.100	CNTMT FLOOR DR. SUMP PUMP (N1P45C019A-N)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1222-04	800	0.100	CNTMT CLR FAN COIL UNIT FAN (N1M41B001B-N)
52-1222-05	240	0.100	CNTMT COOLING SYS CHAR TRAIN FAN (N1M41D002B-N)
52-1222-09	1200	0.100	LIGHTING XFMR # 1X104 (N1R18S204-E)
52-1222-11	800	0.100	480 V RECEPTACLES
52-1222-18	500	0.100	REAC. RECIRC. PUMP SPACE HEATER (TB1B33C001B)
52-1222-19	75	0.100	MOV - RWCU RETURN TO REACTOR (N1G33F042-N)
52-1222-20	32	0.100	MOV - VESSEL DRAIN LINE RECIRC. (Q1G33F101-N)
52-1222-21	75	0.100	MOV - CLEANUP LINE SUCTION IN DRYWELL (Q1G33F102-N)
52-1222-22	32	0.100	MOV - CLEANUP LINE RECIRC LOOP B (Q1G33F106-N)
52-1251-01	175	0.100	STEAM TUNNEL CLR INSIDE CNTMT (N1M41C004B-N)
52-1251-07	60	0.100	CNTMT CHEM WASTE SUMP PUMP (N1P45C027A-N)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1251-13	800	0.100	CNTMT CLR FAN COIL UNIT FAN (N1M41B001C-N)
52-1251-15	32	0.100	MOV - RWCS HX INL ISOL VLV (N1G33F256-N)
52-1251-18	38	0.100	MOV - REGEN HEAT EXCHANGER BYPASS (Q1G33F107-N)
52-1251-19	38	0.100	MOV - RWCU DRAIN FLOW ORIFICE BYP (N1G33F031-N)
52-1251-20	320	0.100	CNTMT EQUIP DRAIN PUMP (N1P45C004B-N)
52-1251-22	32	0.100	MOV - RWCU HX BYPASS LINE ISOL VLV (N1G33F255-N)
52-1251-26	1200	0.100	LIGHTING XFMR [#] 1X112 (N1R18S112-D)
52-1251-28	5	0.100	MOV - STM TUNNEL COOLER INLET (N1P44F105B-N)
52-1252-23	60	0.100	DRYWELL FLOOR DRAIN SUMP PUMP (N1P45C001B-N)
52-1411-01	38	0.100	MOV - VESSEL HEAD VENTILATION (Q1B21F002-N)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1412-01	17.5	0.100	REAC RECIRC HPU OIL PUMP FAN (N1B33D003B3-N)
52-1412-02	60	0.100	CNTMT CHEM WASTE SUMP PUMP (N1P45C027B-N)
52-1412-03	60	0.100	DRYWELL FLOOR DRAIN SUMP PUMP (N1P45C001A-N)
52-1412-05	12.5	0.100	MOV CRD COOLWTR PRESS CONTROL (N1C11F003-N)
52-1412-08	105	0.100	MOV REAC RECIRC PUMP B SUCTION (Q1B33F023B-N)
52-1412-09	175	0.100	RWCU DEMIN PRECOAT PUMP (N1G36C002-N)
52-1412-12	90	0.100	RWCU DEMIN HOLDING PUMP (N1G36C001B-N)
52-1412-15	600	0.100	REAC RECIRC HPU OIL PUMP (N1B33D003B1-N)
52-1412-17	320	0.100	CNTMT EQUIP DRAIN SUMP PUMP (N1P45C004A-N)
52-1412-20	800	0.100	480 V RECEPTACLE
52-1412-23	600	0.100	REAC RECIRC HPU OIL PUMP (N1B33D003B2-N)

TABLE 3.8.4.1-1 (Continued)

• PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1412-25	17.5	0.100	REAC RECIRC HPU OIL PUMP FAN (N1B33D003B4-N)
52-1412-26	38	0.100	MOV REACTOR VESSEL HEAT VENT (Q1B21F001-N)
52-1412-28	38	0.100	MOV REACTOR VESSEL HEAT VENT (Q1B21F005-N)
52-1412-32	800	0.100	CNTMT CLR FAN COIL UNIT FAN (N1M41B001A-N)
52-1412-33	105	0.100	MOV - REAC RECIRC PUMP A DISCHARGE (Q1B33F067B-N)
52-1412-35	500	0.100	CRD REMOVAL HOIST (N1M31E003-N)
52-1412-39	1200	0.100	DRYWELL VALVE HOIST (Q1M31E002-N)
52-1412-41	32	0.100	CNTMT AIRLOCK AIR SHOWER FAN (N1M41C005-N)
52-1511-07	50	0.100	MOV - RWCS INL INB ISOL VLV (Q1G33F250-A)
52-1511-24	50	0.100	MOV - RWSC OUT INB ISOL VLV (Q1G33F252-A)
52-1511-44	12.5	0.100	MOV - DRYWELL CLG WATER ISOL (Q1P42F116-A)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM. (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes ¹)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1511-54	24	0.100	Spare
52-1521-02	6	0.100	MOV COMBUSTIBLE GAS CONTROL SYS (Q1E61F003A-A)
52-1521-03	6	0.100	MOV COMBUSTIBLE GAS CONTROL SYS (Q1E61F005A-A)
52-1521-07	10	0.100	MOV - SUPPR. POOL MAKE-UP VALVE (Q1E30F002A-A)
52-1521-14	600	0.100	SLC SYSTEM PUMP (Q1C41C001A-A)
52-1521-15	5	0.100	STORAGE TANK OUTLET VALVE (Q1C41F001A-A)
52-1521-28	12.5	0.100	MOV - INST LINE ISOL VALVE (Q1M71F595-A)
52-1521-44	10	0.100	MOV - SUPPR POOL MAKE-UP VALVE (Q1E30F001A-A)
52-1531-24	12.5	0.100	MOV - DRYWELL COOLER ISOLATION (Q1P44F076-A)
52-1531-25	8	0.100	MOV - REACTOR WATER SAMPLE (Q1B33F020-A)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1531-36	320	0.100	MOV - LPCI A INJECTION ISOL (Q1E12F042A-A)
52-1531-44	125	0.100	MOV - RHR A UPPER CMT POOL SPRAY (Q1E12F037A-A)
52-1531-49	32	0.100	MOV - DRYWELL CHEM WASTE ISOL (Q1P45F096-A)
52-1531-50	105	0.100	MOV - RHR A CONTAINMENT SPRAY (Q1E12F028A-A)
52-1541-32	32	0.100	MOV - COMB GAS CONT COMP A OUT (Q1P41F168A-A)
52-1542-05	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B001A-A)
52-1542-06	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M5B002A-A)
52-1542-07	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B003A-A)
52-1542-08	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B004A-A)
52-1542-09	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B005A-A)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT, (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1542-10	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B006A-A)
52-1542-14	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F055-A)
52-1542-15	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F057-A)
52-1542-16	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F059-A)
52-1542-17	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F061-A)
52-1542-18	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F063-A)
52-1542-19	5	0.100	MOV - DRYWELL COOLER INLET (N1P44F065-A)
52-1542-21	800	0.100	SLCS OPERATING HEATER (N1C41D002)
52-1542-22	24	0.100	DRWL PURGE COMP AUX OIL PUMP (Q1E61C001A-A)
52-1542-23	500	0.100	REFUELING PLATFORM ASSY (N1R18S513-A)
52-1542-29	1200	0.100	STBY LIQ CONTROL SYS MIXING HEATER (Q1C41D003)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1611-10	12.5	0.100	MOV - DRYWELL COLL TK OUTLET ISOLATION (Q1G41F044-B)
52-1611-15	12.5	0.100	MOV - PSW CTMT STM TNL CLR ISOL (Q1P44F070-B)
52-1611-25	12.5	0.100	MOV - DRYWELL CLG WTR ISOL (Q1P42F117-B)
52-1611-31	12.5	0.100	MOV - DRYWELL CLG WTR INL ISOL (Q1P42F114-B)
52-1611-32	32	0.100	MOV - CTMT CLG WTR ISOLATION (Q1P42F068-B)
52-1611-42	12.5	0.100	MOV PSW STEAM TUNNEL CLR ISOL (Q1P44F074-B)
52-1611-43	12.5	0.100	MOV PSW STEAM TUNNEL CLR ISOL (Q1P44F077-B)
52-1611-44	38	0.100	MOV - SERVICE AIR DRYWELL ISOLATION (Q1P52F195-B)
52-1621-03	7	0.100	MOV - DRWL HYDR INST LINE ISO (Q1E61F595B-B)
52-1621-04	7	0.100	MOV - DRWL HYDR INST LINE ISO (Q1E61F597B-B)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes ³)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1621-05	7	0.100	MOV - DRWL HYDR INST LINE ISO (Q1E61F595D-B)
52-1621-06	7	0.100	MOV - DRWL HYDR INST LINE ISO (Q1E61F597D-B)
52-1621-07	7	0.100	MOV CTMT HYDR INST LINE ISOL (Q1E61F596B-B)
52-1621-08	7	0.100	MOV CTMT HYDR INST LINE ISOL (Q1E61F598B-B)
52-1621-09	7	0.100	MOV CTMT HYDR INST LINE ISO (Q1E61F596D-B)
52-1621-10	7	0.100	MOV CTMT HYDR INST LINE ISO (Q1E61F598D-B)
52-1621-16	10	0.100	CONTAINMENT ISOL VALVE (Q1B33F128-B)
52-1621-17	6	0.100	MOV - DRWL PURGE INLET (Q1E61F003B-B)
52-1621-18	6	0.100	MOV - DRWL PURGE VACUUM RELIEF (Q1E61F005B-B)
52-1621-19	24	0.100	SPARE

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1621-40	32	0.100	MOV - COMB GAS CONT COMP B OUT (Q1P41F168B-B)
52-1631-06	125	0.100	MOV - RHR B UPPER CTMT POOL SPRAY (Q1E12F037B-B)
52-1631-13	320	0.100	MOV - RHR B LPCS (Q1E12F042B-B)
52-1631-20	12.5	0.100	MOV - MAIN STEAM LINE DRAIN INBD (Q1B21F016-B)
52-1631-29	600	0.100	STANDBY LIQUID CONTROL PUMP (Q1C41C001B-B)
52-1631-33	105	0.100	MOV - RHR B TO CONTAINMENT SPRAY (Q1E12F028B-B)
52-1631-34	105	0.100	MOV RCIC STEAM SUPPLY LINE ISOL (Q1E51F063-B)
52-1631-35	5	0.100	STORAGE TANK OUTLET VALVE (Q1C41F001B-B)
52-1631-37	240	0.100	MOV - RHR A SHT DN CLG INBD ISO (Q1E12F009-B)
52-1631-38	32	0.100	MOV - RCIC STEAM WARMUP LINE ISOL (Q1E51F076-B)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1631-41	8	0.100	MOV - REACTOR WATER SAMPLE (Q1B33F019-B)
52-1631-47	50	0.100	MOV - INST AIR DRWL OUTBD ISOL (Q1P53F007-B)
52-1631-50	32	0.100	MOV - RWCU OUTLET TO MAIN CONDENSER (Q1G33F028-B)
52-1631-51	32	0.100	MOV RWCU SYS ISOLATION VALVE (Q1G33F053-B)
52-1631-52	50	0.100	MOV - RWCU SYS ISOLATION (Q1G33F040-B)
52-1631-53	50	0.100	MOV - RWCU SYS ISOLATION (Q1G33F001-B)
52-1641-06	32	0.100	MOV - MAKE UP WATER CNTMT ISOL (Q1P21F018-B)
52-1641-07	50	0.100	MOV - RWCS INL OUT ISOL VLV (Q1G33F251-B)
52-1641-08	50	0.100	MOV - RWCS INL OUT ISOL VLV (Q1G33F253-B)
52-1641-16	7	0.100	MOV INSTRUMENT LINE INBOARD ISO (Q1D23F591-B)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT ₄ (Amperes)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1641-18	7	0.100	MOV - INSTRUMENT LINE INBOARD ISO (Q1D23F593-B)
52-1641-24	7	0.100	CONTAINMENT ISOL VALVE (Q1B33F126-B)
52-1641-26	32	0.100	MOV - DRYWELL CHEM WASTE ISOL (Q1P45F097-B)
52-1641-35	10	0.100	MOV - SUPPR POOL MAKE UP VALVE (Q1E30F001B-B)
52-1641-36	10	0.100	MOV - SUPPR POOL MAKE UP VALVE (Q1E30F002B-B)
52-1642-05	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B001B-B)
52-1642-06	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B002B-B)
52-1642-07	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B003B-B)
52-1642-08	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B004B-B)
52-1642-09	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B005B-B)

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

480 VAC Molded Case Circuit Breakers (Continued)

Type NZM (Continued)

BREAKER NUMBER	TRIP SETPOINT (Amperes ³)	RESPONSE TIME (Seconds)	SYSTEM/COMPONENT AFFECTED
52-1642-10	320	0.100	DRYWELL COOLER FAN COIL UNIT (N1M51B006B-B)
52-1642-14	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F056-B)
52-1642-15	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F058-B)
52-1642-16	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F060-B)
52-1642-17	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F062-B)
52-1642-18	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F064-B)
52-1642-19	12.5	0.100	MOV - DRYWELL COOLER INLET (N1P44F066-B)
52-1642-21	24	0.100	DRWL PURGE COMP AUX OIL PUMP (Q1E61C001B-B)



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

SAFETY EVALUATION
AMENDMENT NO. 4 TO NPF-13
GRAND GULF NUCLEAR STATION, UNIT 1
DOCKET NO. 50-416

Introduction

The licensee proposed changes to the License for Grand Gulf Unit 1 which are as follows:

- a) Technical Specification 3/4.6.5, Drywell Post-LOCA Vacuum Breakers (MP&L letter dated July 2, 1982; Additional information in MP&L letters dated June 10, 1982 and August 5, 1982). A new license condition, 2.C.(46) was also requested.
- b) Technical Specification Table 3.8.4.1-1, Molded Case Circuit Breaker Response Time (MP&L letter dated September 13, 1982).

Evaluation

a) Drywell Post-LOCA Vacuum Breakers

During preoperational testing of the vacuum breaker check valves, the lever arms and contact-type switches associated with the position indication system interfered with the functioning of the valves and were removed. By letter dated July 2, 1982, Mississippi Power and Light (MP&L) proposed revisions to their Technical Specifications pertaining to the removal of the position indicators from the check valves located in the Post-LOCA Vacuum Relief System and the Drywell Purge Systems. A total of six check valves are affected: 2 valves in the Post-LOCA Vacuum Relief System and 2 valves in each of the two redundant Drywell Purge Systems.

Justification for the proposed change to the Technical Specifications was contained in MP&L's letters dated June 10, 1982, July 2, 1982 and August 5, 1982. Removal of the position indication on the check valves can be substantiated based on potential drywell bypass leakage considerations. In both the Post-LOCA Vacuum Relief System and the Drywell Purge System, there is in series with the check valves, a motor operated valve (MOV) which is provided with position indication. Assuming both an electrical failure which will cause the MOV to open and failure of one check valve in each of the failed MOV line, the drywell bypass leakage area would be approximately 0.74 square feet. This is less than the drywell bypass leakage area of 0.90 square feet that was determined for the Grand Gulf Nuclear Station in our review of the FSAR. In order to obtain a drywell bypass leakage area of greater than 0.90 square feet, a failure of the MOV and two check valves which are in series would have to be postulated.

Considering the above, we believe that the drywell bypass leakage limit of 0.90 square feet for Grand Gulf would not be exceeded. Even, if one considers failure of five valves (2 check valves and 1 MOV in one line and 1 check valve and 1 MOV in another line), the drywell leakage area would not exceed 1.09 square feet. Due to the low probability of this multiple failure event, we find the proposed changes to the Technical Specifications acceptable for the first cycle of reactor operation.

MP&L intends to provide non-contact type position indication switches on the vacuum breakers check valves at a future date. Switches for this application are currently not available but are expected to be installed during the first regularly scheduled refueling outage. We have added a license condition to require that position indicators with readout and alarm in the control room be provided for the vacuum breaker check valves prior to startup following the first refueling outage. Our basis for this requirement is contained in Section 6.2.1.1.C.III.5 of the Standard Review Plan.

b) Table 3.8.4.1-1, Molded Case Circuit Breaker Response Time

The licensee has requested an increase in the response time to 0.1 seconds for Type NZM circuit breakers. This change revises the fuse types used in the Grand Gulf design. For a worst-case condition, a limiting factor is the heating of a #1/0 penetration pigtail in 0.147 seconds to 250 C. Type NZM molded case circuit breakers will respond within the worst-case condition time limit. Based on NUREG-0588, "Equipment Qualification of Safety-Related Electrical Equipment", the thermal capability of this unit with this response time is within the allowable limits. Therefore, we find the proposed change to the Technical Specification acceptable.

In Amendment No. 3 to the Grand Gulf Operating License dated September 20, 1982, we issued the above safety evaluation for Table 3.8.4.1-1 and the associated revised page 3/4 8-38 in the Technical Specifications to incorporate the accepted fuse types. Inadvertently, the approved revisions for the response time for Type NZM circuit breakers in Section b.2 of Table 3.8.4.1-1 were omitted. These revisions are included in this amendment.

Environmental Consideration

We have determined that this amendment does not authorize a change in effluent types or total amount nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that this amendment involves action which is insignificant from the standpoint of environmental impact, and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this statement.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) 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 security or to the health and safety of the public.

Dated: October 14, 1982

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-416

MISSISSIPPI POWER AND LIGHT COMPANY

MIDDLE SOUTH ENERGY, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

NOTICE OF ISSUANCE OF AMENDMENT OF FACILITY

OPERATING LICENSE

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 4 to Facility Operating License No. NPF-13, issued to Mississippi Power and Light Company, Middle South Energy, Inc., and South Mississippi Electric Power Association (the licensees), for Grand Gulf Nuclear Station, Unit No. 1 (the facility) located in Claiborne County, Mississippi. This amendment grants changes to the Technical Specifications and adds an additional license condition. The changes to the Technical Specifications relate to Specifications Table 3.8.4.1-1, Molded Case Circuit Breaker Response Time and 3/4.6.5, Drywell Post-LOCA Vacuum Breakers. The additional license condition relates to position indicators for the Drywell Post-LOCA Vacuum Breakers. The amendment is effective as of the date of issuance.

The applications for the amendments comply 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 amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

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The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR Section 51.5(d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the applications for the amendments dated July 2, 1982 and September 13, 1982; (2) Amendment No. 4 to License NPF-13 dated October 14, 1982; and (3) the Commission's evaluation dated October 14, 1982. All of 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 Hinds Jr. College, George M. McLendon Library, Raymond, Mississippi 39154. A copy of items (1), (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 14th day of October, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

(Signature)
A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

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SURNAME	DHouston:pt	Elston	ASchwencer	lcj		
DATE	10/8/82	10/8/82	10/8/82	10/24/82		