



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

MISSISSIPPI POWER & LIGHT COMPANY

SYSTEM ENERGY RESOURCES, INC.

SOUTH MISSISSIPPI ELECTRIC POWER ASSOCIATION

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 43
License No. NPF-29

1. The Nuclear Regulatory Commission (the Commission) has found that
 - A. The application for amendment by System Energy Resources, Inc. (the licensee), dated November 25, 1987, 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.

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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-29 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 43, are hereby incorporated into this license. System Energy Resources, Inc. 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.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By
Elinor G. Adensam

Elinor G. Adensam, Director
Project Directorate II-1
Division of Reactor Projects-I/II

Attachment:
Changes to the Technical
Specifications

Date of Issuance: January 4, 1988

LA: PD21: DRPR
PAnderson
12/28/87

PM: PD21: DRPR
LKintner
12/28/

OGC-B
/ /

BC: PSB: DEST
L. Marsh
12/30/87

BC: EMEB: DEST
L. Marsh
12/29/87

D: PD21: DRPR
EAdensam
12/30/87

ATTACHMENT TO LICENSE AMENDMENT NO. 43

FACILITY OPERATING LICENSE NO. NPF-29

DOCKET NO. 50-416

Replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised areas are indicated by marginal lines. The corresponding overleaf page(s) have been provided to maintain document completeness.

Remove

3/4 6-33
3/4 6-34

3/4 8-27
3/4 8-28

3/4 8-35
3/4 8-36

Insert

3/4 6-33 (overleaf)
3/4 6-34

3/4 8-27 (overleaf)
3/4 8-28

3/4 8-35
3/4 8-36 (overleaf)

TABLE 3.6.4-1 (Continued)
CONTAINMENT AND DRYWELL ISOLATION VALVES

<u>SYSTEM AND VALVE NUMBER</u>	<u>PENETRATION NUMBER</u>	<u>VALVE GROUP</u> ^(a)	<u>MAXIMUM ISOLATION TIME (Seconds)</u>	
<u>Containment (Continued)</u>				
Comb. Gas Control Cont. Purge (Outside Air Supply)	E61-F009-(A)	65(O)	7	4
Comb. Gas Control Cont. Purge (Outside Air Supply)	E61-F010-(B)	65(I)	7	4
Purge Filter Train Isolation	E61-F056-(B)	66(I)	7	4
Purge Filter Train Isolation	E61-F057-(A)	66(O)	7	4
RHR "B" Test Line To Suppr. Pool	E12-F024B-B	67(O) ^(d)	5	90
RHR "B" Test Line To Suppr. Pool	E12-F011B-B	67(O) ^(d)	5	36
Refueling Water Transf. Pump Suction	P11-F130-(A)	69(O) ^(c)	6A	8
Refueling Water Transf. Pump Suction	P11-F131-(B)	69(O) ^(c)	6A	8
Instr. Air to ADS	P53-F003-A	70(O)	6A	4
RCIC Turbine Exh. Vacuum Breaker	E51-F078-B	75(O)	9	10
RWCU to Feedwater	G33-F040-B	83(I)	8	35
RWCU to Feedwater	G33-F039-A	83(O)	8	35
Chemical Waste Sump Discharge	P45-F098-(B)	84(I)	6A	8
Chemical Waste Sump Discharge	P45-F099-(A)	84(O)	6A	8
Supp. Pool Clean- up Return	P60-F009-A	85(O)	6A	8
Supp. Pool Clean- up Return	P60-F010-B	85(O)	6A	8
Demin. Water Supply to Cont.	P21-F017-A	86(O)	6A	19
Demin. Water Supply to Cont.	P21-F018-B	86(I)	6A	19
RWCU Pump Suction	G33-F001-B	87(I)	8	35

TABLE 3.6.4-1 (Continued)
CONTAINMENT AND DRYWELL ISOLATION VALVES

SYSTEM AND VALVE NUMBER		PENETRATION NUMBER	VALVE GROUP ^(a)	MAXIMUM ISOLATION TIME (Seconds)
Containment (Continued)				
RWCU Pump Suction	G33-F252-B	87(I)	8	35
RWCU Pump Suction	G33-F004-A	87(O)	8	35
RWCU Pump Disch.	G33-F053-B	88(I)	8	35
RWCU Pump Disch.	G33-F054-A	88(O)	8	35
b. Drywell				
Instrument Air	P53-F007-B	335(O)	6A	7
Drywell Chilled Water Return	P72-F125-A	331(I)	6A	32
Drywell Chilled Water Return	P72-F126-B	331(O)	6A	32
Drywell Chilled Water Return	P72-F124-B	332(O)	6A	32
RWCU Pump Suction	G33-F250-A	337(I)	8	35
RWCU Pump Suction	G33-F251-B	337(O)	8	35
Combustible Gas Con.	E61-F003B-B	338(O)	5	84
Combustible Gas Con.	E61-F003A-A	339(O)	5	84
Combustible Gas Con.	E61-F005A-A	340(O)	5	84
Combustible Gas Con.	E61-F005B-B	340(O)	5	84
Combustible Gas Con.	E61-F007-(A)	341(O)	5	9
Combustible Gas Con.	E61-F020-(B)	341(O)	5	18
Drywell Air Purge Supply	M41-F015-(A)	345(I)	7	4
Drywell Air Purge Supply	M41-F013-(B)	345(O)	7	4
Drywell Air Purge Exhaust	M41-F016-(A)	347(I)	7	4
Drywell Air Purge Exhaust	M41-F017-(B)	347(O)	7	4
Equipment Drains	P45-F009-(A)	348(I)	6A	6
Equipment Drains	P45-F010-(B)	348(O)	6A	6
Floor Drains	P45-F003-(A)	349(I)	6A	6
Floor Drains	P45-F004-(B)	349(O)	6A	6
Service Air	P52-F195-B	363(O)	6A	16
Chemical Sump Disch.	P45-F096-A	364(I)	6A	9
Chemical Sump Disch.	P45-F097-B	364(O)	6A	9
RWCU to Heat Exch.	G33-F253-A	366(O)	8	35
Reactor Water Sample Line	B33-F019-B	465(I)	10	36
Reactor Water Sample Line	B33-F020-A	465(O)	10	36

TABLE 3.8.4.1-1 (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

c. 480 VAC Circuit Breakers (Continued)

Molded Case, Type NZM

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-J (Continued)

PRIMARY CONTAINMENT PENETRATION CONDUCTOR
OVERCURRENT PROTECTIVE DEVICES

c. 480 VAC Circuit Breakers (Continued)

Molded Case, Type NZM

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 HEAD VENT (Q1B21F001-N)
52-1412-28	38	0.100	MOV REACTOR VESSEL HEAD 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 - RWCU INL INB ISOL VLV (Q1G33F250-A)
52-1511-24	50	0.100	MOV - RWCU INL OUT ISOL VLV (Q1G33F253-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

c. 480 VAC Circuit Breakers (Continued)

Molded Case, Type NZM

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 - RWCU INL OUT ISOL VLV (Q1G33F251-B)
52-1641-08	50	0.100	MOV - RWCU OUT INB ISOL VLV (Q1G33F252-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

c. 480 VAC Circuit Breakers (Continued)

Molded Case, Type NZM

BREAKER NUMBER	TRIP SETPOINT (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)