

May 9, 1990

Docket No. 50-416

DISTRIBUTION
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Mr. W. T. Cottle
Vice President, Nuclear Operations
System Energy Resources, Inc.
Post Office Box 756
Port Gibson, Mississippi 39150

Dear Mr. Cottle:

SUBJECT: ISSUANCE OF AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE
NO. NPF-29 - GRAND GULF NUCLEAR STATION, UNIT 1, REGARDING
FIRE DETECTION INSTRUMENTATION (TAC NO. 76152)

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 68 to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1. This amendment consists of changes to the Technical Specifications (TS) in response to your application dated February 9, 1990.

The amendment changes TS Table 3.3.7.9-1, Fire Detection Instrumentation, by renaming one room and by adding two new rooms and two smoke detectors, one for each room. These changes reflect the renovation of an existing room in the Control Building and the construction of a new snubber test facility in the Auxiliary Building.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's bi-weekly Federal Register notice.

Sincerely,

Original Signed By:

Lester L. Kintner, Senior Project Manager
Project Directorate II-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 68 to NPF-29
2. Safety Evaluation

cc w/enclosures:
See next page

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System Energy Resources, Inc.

Grand Gulf Nuclear Station (GGNS)

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

SYSTEM ENERGY RESOURCES, INC., et al.

DOCKET NO. 50-416

GRAND GULF NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 68
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 February 9, 1990, 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. 68, 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 and shall be implemented by June 1, 1991.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By:

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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 9, 1990

*SEE PREVIOUS CONCURRENCES

OFC	:LA:PD21:DRPR:PM:PD21:DRPR:*SPLB:DEST	:*	OGC	:D:PD21:DRPR	:	:	:
NAME	: PAnderson	: LKIrther	:sw:CMcCracken	:LDewey	: EAdensam	:	:
DATE	:5/9/90	:5/9/90	:5/12/90	:4/30/90	:5/9/90	:	:

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ATTACHMENT TO LICENSE AMENDMENT NO. 68

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.

Remove

3/4 3-81

3/4 3-86

Insert

3/4 3-81

3/4 3-86

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION	MINIMUM INSTRUMENTS OPERABLE*		
	HEAT (X/Y)	FLAME ⁽¹⁾ (X/Y)	SMOKE ⁽¹⁾ (X/Y)
a. <u>CONTAINMENT BUILDING #</u>			
1. Return Duct Mounted Detectors			3/0
<u>ROOM</u> <u>ELEV</u> <u>ROOM NAME</u>			
b. <u>CONTROL BUILDING</u>			
1. Zone 1-3			12/0
OC103 93'		H. P. Checkout	
OC109 93'		Decontamination Area	
OC115 93'		Corridor	
OC116 93'		Hot Machine Shop	
OC117 93'		Corridor	
OC128 93'		Hot Water Heater Rm.	
2. Zone 1-4			12/0
OC201 111'		Stairwell	
OC202 111'		Div. I Swgr. Rm.	0/13(CO ₂)
OC207 111'		Div. I Battery Rm.	

* (X/Y): X - is number of Function A (early warning fire detection and notification only) instruments.
Y - is number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

The fire detection instruments located within the primary containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

(1) Smoke and flame detectors provide only early warning capability with the exception of:

- (a) Zone 1-27 detectors trip closed the door between the OC208/OC208A Remote Shutdown panel rooms.
- (b) Containment building return duct mounted detectors trip the containment cooler fans.
- (c) Zone 1-11 and 1-13 detectors initiate the control building purge fan system.
- (d) Control Room HVAC Intake Plenum Detectors trip the control room A/C units unless a control room emergency filtration system isolation mode automatic actuation signal is present.

TABLE 3.3.7.9-1 (Continued)
FIRE DETECTION INSTRUMENTATION

<u>ROOM</u>	<u>ELEV</u>	<u>ROOM NAME</u>	<u>MINIMUM INSTRUMENTS OPERABLE*</u>		
			<u>HEAT</u> (X/Y)	<u>FLAME</u> (X/Y) ⁽¹⁾	<u>SMOKE</u> (X/Y) ⁽¹⁾
7. Zone 2-8					27/0
1A401	166'	Northeast Corridor			
1A402	166'	Steam Tunnel Roof			
1A403	166'	Southeast Corridor			
1A404	166'	Unassigned Area			
1A405	166'	Containment Vent. Equip. Room			
1A406	166'	Containment Exhaust Filter Rm.			
1A407	166'	MCC Area	0/2(CO ₂)		
1A410	166'	MCC Area	0/2(CO ₂)		
1A417	166'	North Corridor (Partial)			
1A420	166'	South Corridor (Partial)			
1A424	166'	Set Down Area (Partial)			
8. Zone 2-9					12/0
1A519	185'	Storage Area			
1A519A	185'	Snubber Test Room			
1A519B	185'	Snubber Test Control Room			
1A524	195'	Platform			
1A527	185'	Load Center Area			
1A529	185'	FPC & CU Rm.			
1A538	185'	Platform			
9. Zone 2-13					31/0
1A602	208'	Storage Area			
1A603	208'	Passage			
1A604	208'	Fuel Handling Area			
1A606	245'	HVAC Equip. Area			
10. Zone 2-14					17/0
1A114	93'	Fan Coil Area (Partial)			
1A115	93'	Piping Penetration Rm.			
1A116	93'	Piping Penetration Rm.			
1A117	93'	Misc. Equip. Area (Partial)			
1A118	93'	RHR "C" Pump Room			
1A119	93'	LPCS Pump Room			
1A120	93'	CCW Pump & Heat Ex. Rm.			
1A122	103'	South Corridor (Partial)			
1A123	103'	North Corridor (Partial)			
11. Zone 2-15					1/0
1A539	185'	Cable Chase			



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE NO. NPF-29
SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
DOCKET NO. 50-416

1.0 INTRODUCTION

By letter dated February 9, 1990, System Energy Resources, Inc. (the licensee) requested an amendment to Facility Operating License No. NPF-29 for the Grand Gulf Nuclear Station, Unit 1 (GGNS). The proposed amendment would change Technical Specifications (TS) Table 3.3.7.9-1, Fire Detection Instrumentation, by renaming one room and by adding two new rooms and two smoke detectors, one for each room. These changes reflect the renovation of an existing room in the Control Building and the construction of a new snubber test facility in the Auxiliary Building.

2.0 EVALUATION

Table 3.3.7.9-1 would be revised to reflect renovation of the 93'-0" elevation of the Control Building, north of central corridor OC115. The renovation would provide better space utilization and facility upgrade to accommodate the personnel needs of the GGNS health physics (HP) organization. As a result of this renovation, the room name for Room Number OC103 would change from "Emergency Laundry Room" to "HP Checkout." The renovation of the 93'-0" Elevation of the Control Building would not result in the removal of any fire detection instrumentation. The level of smoke detection capability would not be reduced by the renovation. The renovation would not affect any fire area boundaries as described in Revision 3 of the Fire Hazards Analysis. Since the current level of fire protection would not be reduced, the TS change is acceptable.

Table 3.3.7.9-1 would also be revised to reflect a design change to construct a nonsafety-related, permanent facility to house snubber test equipment and personnel necessary to test snubbers in accordance with Technical Specification 3/4.7.4. This new, totally enclosed facility would be located in Fire Zone 1A519 of the Auxiliary Building at elevation 185'-0" and would also be partitioned into a Snubber Test Room and a Snubber Test Control Room. Figure 1 provides a general layout of the facility. The snubber test facility would be located within Fire Area 19 which contains some safety-related equipment and fire detectors exterior to the proposed facility. Since this enclosure could effectively isolate

a fire occurring inside the snubber test facility for an indeterminate period of time, this design change includes the addition of a detector in the Snubber Test Room and the addition of a detector in the Snubber Test Control Room. Table 3.3.7.9-1 would be revised to reflect the additional instruments in Detection Zone 2-9. The snubber test facility would be nonsafety-related and would not house any safety-related equipment. To minimize impact on fire protection, all construction and finishing materials would be non-combustible as defined in the Fire Hazards Analysis. The Fire Hazards Analysis for the facility assumes a heat load based on a 30 gallon drum of flammable fluid and office furniture, including a file cabinet filled with paper in the facility. The smoke detector in each of the two rooms would provide early warning and thus reduce the potential for fire damage to safety-related equipment adjacent to the snubber test facility. The two smoke detectors, along with accessibility to existing manual hose streams and portable fire extinguishers, would provide fire protection capability for this facility equivalent to that provided for the rest of the plant. Therefore, the TS change is acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment changes 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 off site; 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.

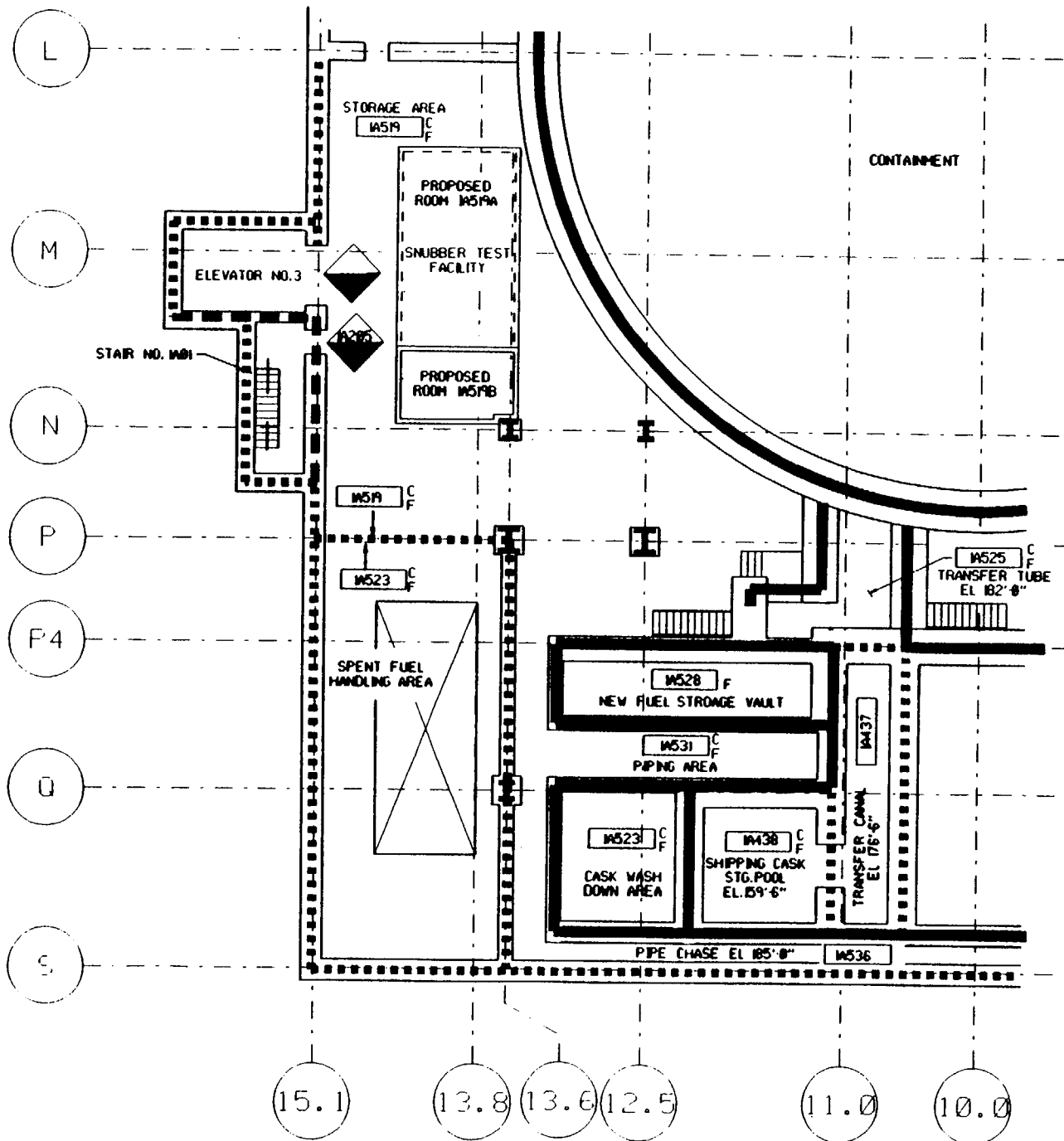
4.0 CONCLUSION

The Commission made a proposed determination that this amendment involves no significant hazards consideration, which was published in the Federal Register (55 FR 12600) on April 4, 1990, and consulted with the State of Mississippi. No public comments or requests for hearing 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, or to the health and safety of the public.

Principal Contributor: L. L. Kintner

Dated: May 9, 1990



AUXILIARY BUILDING
FIRE PROTECTION
PLAN AT EL. 185FT-0IN
AREA 10

AMENDMENT NO. 68 TO FACILITY OPERATING LICENSE NO. NPF-29 - GRAND GULF

Docket File

NRC PDR

Local PDR

PDII-1 Reading

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