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DECEMBER 6 1978

Docket No. 50-333

Mr. George T. Berry
General Manager & Chief Engineer
Power Authority of the State of
New York
10 Columbus Circle
New York, New York 10019

Dear Mr. Berry:

On November 22, 1978, we issued Amendment No. 43 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. Through an administrative oversight, incorrect pages 30 and 46 were transmitted and page 74 was inadvertently omitted. Therefore, please replace pages 30 and 46 with the attached and add a revised page 74 as enclosed.

Sincerely,

Original signed by

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosures:
Page 30 to Amendment No. 43
Page 46 to Amendment No. 43
Page 74 to Amendment No. 43

cc w/enclosures:
see next page

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OFFICE	ORB#3	ORB#3	ORB#3			
SURNAME	SSheppard	PPolk:acr	TIppolito			
DATE	12/5/78	12/ /78	12/6/78			

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Region II Office
ATTN: EIS COORDINATOR
26 Federal Plaza
New York, New York 10007

3.1 LIMITING CONDITIONS FOR OPERATION

3.1 REACTOR PROTECTION SYSTEM

Applicability:

Applies to the instrumentation and associated devices which initiate the reactor scram.

Objective:

To assure the operability of the Reactor Protection System.

Specification:

A. The setpoints, minimum number of trip systems, minimum number of instrument channels that must be operable for each position of the reactor mode switch shall be as shown on Table 3.1-1. The design system response time from the opening of the sensor contact to and including the opening of the trip actuator contacts shall not exceed 100 msec.

B. Minimum Critical Power Ratio (MCPR)

During reactor power operation at rated power and flow, the MCPR operating limits shall not be less than those shown below:

FUEL TYPE	MCPR OPERATING LIMIT FOR INCREMENTAL CYCLE 3 CORE AVERAGE EXPOSURE		
	BOC3 to 2GWd/t before EOC3	EOC3-2GWd/t to EOC3-1GWd/t	EOC3-1GWd/t to EOC3
7x7	1.21	1.25	1.30
8x8	1.22	1.33	1.37
8x8R	1.22	1.33	1.37

4.1 SURVEILLANCE REQUIREMENTS

4.1 REACTOR PROTECTION SYSTEM

Applicability:

Applies to the surveillance of the instrumentation and associated devices which initiate reactor scram.

Objective:

To specify the type of frequency of surveillance to be applied to the protection instrumentation.

Specification:

A. Instrumentation systems shall be functionally tested and calibrated as indicated in Tables 4.1-1 and 4.1-2 respectively.

B. Maximum Fraction of Limiting Power Density (MFLPD)

The MFLPD shall be determined daily during reactor power operation at $\geq$ 25% rated thermal power and the APRM high flux scram and Rod Block trip settings adjusted if necessary as required by Specifications 2.1.A.1.c and 2.1.A.1.d, respectively.

REACTOR PROTECTION SYSTEM (SCRAM) INSTRUMENT CALIBRATION
MINIMUM CALIBRATION FREQUENCIES FOR REACTOR PROTECTION INSTRUMENT CHANNELS

Instrument Channel	Group (1)	Calibration (4)	Minimum Frequency (2)
IRM High Flux	C	Comparison to APRM on Controlled Shutdowns	Maximum frequency once/week
APRM High Flux			
Output Signal	B	Heat Balance	Daily
Flow Bias Signal	B	Internal Power and Flow Test with Standard Pressure Source	Every refueling outage
LPRM Signal	B	TIP System Traverse	Every 1000 effective full power hours
High Reactor Pressure	A	Standard Pressure Source	Once/Operating Cycle
High Drywell Pressure	A	Standard Pressure Source	Every 3 months
Reactor Low Water Level	A	Pressure Standard	Every 3 months
High Water Level in Scram Discharge Volume	A	Note (5)	Note (5)
Main Steam Line Isolation Valve Closure	A	Note (5)	Note (5)
Main Steam Line High Radiation	B	Standard Current Source (3)	Every 3 months
Turbine Plant Stage Pressure Permissive	A	Standard Pressure Source	Every 6 months
Turbine Control Valve Fast Closure Oil Pressure Trip	A	Standard Pressure Source	Once/operating cycle

Table 3.2-4
RADIATION MONITORING SYSTEMS THAT INITIATE AND/OR ISOLATE SYSTEMS

Minimum No. Of Operable Instrument Channels (1)	Trip Function	Trip Level Setting	Total Number of Instrument Channels Provided By Design For Both Channels	Action (2)
1	Refuel Area Exhaust Monitor	$\leq 2.7 \times 10^5$ cpm (5)	2 Inst. Channels	A or B
1	Reactor Building Area Exhaust Monitors	$\leq 2.7 \times 10^5$ cpm (5)	2 Inst. Channels	B
1	Off-Gas Radiation Monitors	$\leq 7 \times 10^4$ mR/hr(3)	2 Inst. Channels	C
1	Turbine Bldg. Exhaust Monitors	$\leq 1.8 \times 10^5$ cpm (5)	2 Inst. Channels	C
1	Radwaste Bldg. Exhaust Monitor	$\leq 6.7 \times 10^5$ cpm (5)	2 Inst. Channels	C
1	Main Control Room Ventilation Monitor	$\leq 4 \times 10^3$ cpm (6)	1 Inst. Channel	D
2	Mechanical Vacuum Pump Isolation	≤ 3 times normal full power background	4 Inst. Channels	E
1	Liquid Radwaste Discharge Monitor	(4)	1 Inst. Channel	F

NOTES FOR TABLE 3.2-4

1. Whenever the systems are required to be operable, there shall be two operable or tripped instrument channels per trip system. From and after the time it is found that this cannot be met, the indicated action shall be taken.

2. Action

   A. Cease operation of the refueling equipment.
   B. Isolate secondary containment and start the standby Gas Treatment System.
   C. Refer to Section 2.3.B.4 of Environmental Technical Specification.
   D. Control Room Isolation is manually initiated.
   E. Uses same sensors as Primary Containment Isolation on high main steam line radiation. Table 3.2-1.
   F. Refer to Environmental Technical Specification 2.3.A.3.

3. Refer to Specification 2.3.B of the Environmental Specifications.
4. Trip setting to correspond to Specification 2.3.A of the Environmental Technical Specifications.
5. Conversion factor is 9.0×10^7 cpm - 1 uci/cc.
6. Conversion factor is 8.15×10^7 cpm - 1 uci/cc.