

POWER AUTHORITY OF THE STATE OF NEW YORK

INDIAN POINT NO. 3 NUCLEAR POWER PLANT

P. O. BOX 215 BUCHANAN, N. Y. 10511

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December 17, 1979
IP-MEA-6749

Docket No. 50-286
License No. DPR-64

Boyce H. Grier, Director
Office of Inspection and Enforcement
Region 1
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

I. E. Bulletin 79-25

Dear Mr. Grier:

Enclosed is our detailed response to Bulletin 79-25.

Very truly yours,

J. P. Bayne
Resident Manager

MEA/bam

cc: U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Division of Reactor Operation Inspection
Washington, D. C. 20555

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RESPONSE TO I.E. BULLETIN 79-25

The following is a response to I.E. Bulletin No. 79-25. It specifically addresses each "action to be taken" by number.

1. All originally installed style 46E7352 and 766A235 relays which were normally energized were scheduled for replacement in accordance with the recommendation set forth in Westinghouse N.S.D. Technical Bulletin 76-2. Prior to our acquisition of the style 5069A95 relays recommended by NSD-TB-76-2, a new bulletin NSD-TB-76-16 was issued by Westinghouse which advised the use of style 5072A49 relays in lieu of style 5069A95. Consequently all previously identified normally energized style 46E7352 and style 766A235 relays were replaced in October 1977 with style 5072A49 relays. Further, style 5069A95 relays have not been and are not used at Indian Point #3.
2. Style 5072A49, coil style 1271C50G01 relays are used in the following protection and safeguard schemes and are repeated for each train.

DESIGNATION	FUNCTION
52RCP31-X	RCP Breakers for Low Flow Matrix, Loop #1
52RCP32-X	RCP Breakers for Low Flow Matrix, Loop #2
52RCP33-X	RCP Breakers for Low Flow Matrix, Loop #3
52RCP34-X	RCP Breakers for Low Flow Matrix, Loop #4
LF-1X	Low Flow Bistable Relay, Loop #1
LF-2X	Low Flow Bistable Relay, Loop #2
LF-3X	Low Flow Bistable Relay, Loop #3
LF-4X	Low Flow Bistable Relay, Loop #4
SIAM-1X	Safety Injection to Reactor Trip
SIAM-2X	Safety Injection to Reactor Trip
1/MT-1X	Manual Reactor Trip
1/MT-2X	Manual Reactor Trip
15	Power Range Block
16	Power Range Block
17	Intermediate Range Block
18	Intermediate Range Block
21	Source Range Block
22	Source Range Block

DESIGNATION	FUNCTION
P7-1	P-7 Unblock "at power" trips P-7 10%
P7-2	P-7 Unblock "at power" trips P-7 10%
P7-3	P-7 Unblock "at power" trips P-7 10%
P7-4	P-7 Unblock "at power" trips P-7 10%
P8-1	P-8 N 50%, change Low Flow Trip Logic
P8-2	P-8 N 50%, change Low Flow Trip Logic
P10-1	P-10 N 10%, block I.R. & Low Power Range Trips
P10-2	P-10 N 10%, block I.R. & Low Power Range Trips
RT-1	Source, Inst. & Power Range Hi Flux Reactor Trip
RT-2	Source, Inst. & Power Range Hi Flux Reactor Trip
RT-3	Overpower, Overtemp T, SIAM Reactor Trip
RT-4	Overpower, Overtemp T, SIAM Reactor Trip
RT-5	Lo-Lo Stm. Gen. Level Reactor Trip
RT-6	Lo-Lo Stm. Gen. Level Reactor Trip
RT-7	Lo Stm. Gen. Level c/w Lo Feed Flow Reactor Trip
RT-8	Lo Stm. Gen. Level c/w Lo Feed Flow Reactor Trip
RT-9	Hi/Low Pzr Press., Hi Pzr Level, Hi Power Reactor Trip
RT-10	Hi/Low Pzr Press., Hi Pzr Level, Hi Power Reactor Trip
RT-11	Loop Low Flow Matrix, Reactor Trip
RT-12	Loop Low Flow Matrix, Reactor Trip
RT-13	Loss of RCP Loss of Flow, Reactor Trips
RT-14	Loss of RCP Loss of Flow, Reactor Trips
RT-15	Turbine Auto Stop, Reactor Trip
RT-16	Turbine Auto Stop, Reactor Trip

As the previously suspected relays have been replaced with the latest style available, there is no need to continue a relay replacement program. Assurance of relay operability will be maintained through a scheduled program of overtravel testing as it applies to the style 5072A49 relays. A method of testing for sufficient overtravel was recently incorporated in a station procedure. The procedure, which tested all style 5072A49 relays, was performed during our Cycle II-Fall 1979 Refueling Outage. Of the eighty-four relays tested, only one did not meet the minimum overtravel criteria. Although the overtravel distance was less than the minimum value acceptable, all contacts were fully operational.

3. As all style 5072A49 relays were recently tested and since monthly surveillance testing validates system function, it has been determined that a sampling of relays will be tested on a refueling frequency.

An approved procedure for testing relay overtravel is currently in effect. The initial performance of this procedure substantiated its credibility to adequately evaluate relay operability.

The relay referred to earlier as not meeting the minimum overtravel criteria was RT-15B. As the overtravel of RT-15B was found to be 0.007 inches instead of the minimum requirement of 0.040 inches, the relay was replaced even though all of its contacts were operational.