

## LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 7 8 9 10										(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)																																							
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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10																																																	
0 2 During normal shutdown operations, IRM channel 'E' was bypassed while IRM 'A' was																																																	
0 3 inoperable resulting in only two (2) operable IRM channels in trip system A.																																																	
0 4 Technical Specifications Table 3.1-1 requires three (3) operable or tripped IRM																																																	
0 5 instruments in each trip system. During this condition, approximately twenty (20)																																																	
0 6 control rods were withdrawn and inserted (one rod at a time). See attachment for																																																	
0 7 additional details.																																																	
0 8																																																	
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SYSTEM CODE 1 2 3 4 5 6 7 8 9 10 CAUSE CODE 11 12 CAUSE SUBCODE 13 14 COMPONENT CODE 15 16 17 18 19 20 COMP. SUBCODE 21 22 VALVE SUBCODE 23 24																																																	
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ACTION TAKEN 18 19 FUTURE ACTION 20 21 EFFECT ON PLANT 22 23 SHUTDOWN METHOD 24 25 HOURS 26 27 ATTACHMENT SUBMITTED 28 29 NPRO-4 FORM SUB. 30 31 PRIME COMP. SUPPLIER 32 33 COMPONENT MANUFACTURER 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50																																																	
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27																																																	
1 0 Personnel error was the cause. IRM 'A' was tested with satisfactory results and																																																	
1 1 declared operable. Inadequate procedures contributed and implementation of																																																	
1 2 revised or additional procedures should prevent recurrence. See attachment for																																																	
1 3 additional details.																																																	
1 4																																																	
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FACILITY STATUS 1 2 3 4 5 6 7 8 9 10 % POWER 11 12 13 14 OTHER STATUS 15 16 17 18 19 20 METHOD OF DISCOVERY 21 22 DISCOVERY DESCRIPTION 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50																																																	
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W. Verne Childs

NRC USE ONLY

342-3840 X207

POWER AUTHORITY OF THE STATE OF NEW YORK  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NO. 50-333

ATTACHMENT TO LER 82-003/01X-1

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During normal shutdown operations on March 1, 1982, Intermediate Range Monitor (IRM) Channel 'A' was bypassed to allow troubleshooting and test because the instrument was spiking intermittently. Part of these tests included recording of the detector signal cable continuity and impedance characteristics. Following the tests, IRM A was restored to normal except that no operability test was performed and the instrument was bypassed.

On March 2, 1982, Technicians requested that IRM 'E' be made available for tests of signal cable continuity and impedance. The operating shift on duty was not aware that IRM 'A' was bypassed because of intermittent spiking and moved the bypass switch from position 'A' to position 'E' at approximately 1500 hours. This action placed the plant in a condition where IRM 'A' was administratively considered inoperable and IRM 'E' was out of service due to the bypass switch position.

Troubleshooting and test of IRM 'E' detector and signal cable revealed a bad connector. This problem, and several other concurrent problems related to plant startup, were discussed by Technicians and Instrumentation and Control supervisory personnel, however, due to the approach of the end of shift and the technicians need to leave the site for personal reasons, not all of the supervisory personnel were made aware of the connector problem on IRM 'E'. At approximately 2200 hours on March 2, 1982, the Operations Department became aware that IRM 'A' was considered inoperable while IRM 'E' was bypassed. It was also noted that the IRM 'E' signal cable was disconnected. Following a telephone discussion with an I&C supervisor (that was not aware that the connector was bad) the signal cable was connected and an operability test of IRM 'E' was conducted with satisfactory results. Accordingly, IRM 'E' was declared operable and the bypass switch was placed in position 'A'. At this point in time personnel believed that all IRM channels were operable except for channel 'A' which was bypassed.

On the following morning (March 3, 1982) both I&C and operations personnel became aware of the events of the previous day and evening. IRM 'A' was immediately tested to demonstrate operability with satisfactory results and placed in service. IRM 'E' was bypassed until the bad signal cable connector was repaired. During the time when both IRM 'A' and 'E' were inoperable, approximately twenty (20) control rod withdrawal and insert cycles were completed to check out control rod position indication. This action placed the plant in a degraded mode of operation described by Technical Specifications Table 3.1-1, Note 1.A.

Instrumentation and Control and Operations personnel also met and discussed the events on March 3, 1982. This discussion revealed the following:

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- Operations personnel were not kept informed of, or did not log the status of the IRM instrumentation so that following shifts would be aware of the status.
- The oncoming Operations shift (at 3:00 p.m. on March 2, 1982) was not aware of the status of IRM 'A', that is, that it was operable except for demonstration of operability.
- Personnel that worked on IRM 'E' and determined that a signal cable connector was bad did not communicate this information to the shift supervisor.
- The status of nuclear instrumentation bypass switches and any reason for bypassing an instrument has not routinely been made a part of the shift turnover process.
- Several other instrumentation problems associated with preparing the plant for startup caused personnel to be distracted from the significance of the IRM status.

To prevent recurrence, Operations Department Standing Order No. 4 titled "Shift Relief and Log Keeping" has been changed to required information relating to bypass switch position to be recorded. In addition, Instrumentation and Control personnel have been instructed in the requirements of I&C Department Standing Order No. 6 titled "Instrument and Control Work Activity Log Book" and the procedure will be revised to improve its usefulness. Further, the plant will develop and implement administrative controls and a check off list for control rod withdrawal outside of the normal power operating conditions.