

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

0 2 During normal operation, personnel noted that smoke detectors required to be

0 3 operable by TS 4.12.E, would not e alarms in the control room. Local alarms

0 4 were functional. No significant hazard existed. See attachment for additional

0 5 details.

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SYSTEM CODE 9 10 11 12 13 14 15 16 17 18 19 20 21 22 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CAUSE CODE 11 12 13 14 15 16 17 18 19 20 21 22 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

COMP. SUBCODE 19 20 21 22 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

VALVE SUBCODE 20 21 22 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 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REVISION NO. 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

COMPONENT MANUFACTURER 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

COMPONENT MANUFACTURER 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

1 0 Failure of a multiplexer transmitter-extender module was the cause. Module

1 1 replacement restored the system to fully operable status. Additional evaluation

1 2 continues. See attachment for details.

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NRC USE ONLY

NAME OF PREPARER W. Verne Childs

PHONE 315-342-3840

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

DOCKET NO. 50-333

ATTACHMENT TO LER 81-076/03L-0

Page 1 of 1

During normal operation, personnel noted that smoke detector alarms on a local panel did not cause a corresponding alarm on the Fire Protection Panel in the Control Room. Investigation of the problem revealed that a number of detectors required to be operable by Technical Specification Paragraph 4.12.E were involved. Tabulated below is a listing of those areas involved:

- Table 3.12.1, Item 1, West Cable Tunnel
- Table 3.12.1, Item 2, East Cable Tunnel
- Table 3.12.2, Item 5, Switchgear Room - West
- Table 3.12.2, Item 6, Switchgear Room - East
- Table 3.12.2, Item 7, Diesel Generator Switchgear Room - South
- Table 3.12.2, Item 8, Diesel Generator Switchgear Room - North

Evaluation of the nature of the problem revealed failure of a Transmitter-Extender printed circuit board in the multiplexer which transmits signals from local components to remote components such as the fire protection relay cabinet and fire protection panel in the control room. Evaluation also verified that automatic fire suppression systems, which are initiated by heat activated temperature switches, were not in any way involved and were fully operable.

The hourly patrolling fire watch required by Technical Specifications 4.12.E was established and the failed Transmitter-Extender board was replaced by October 29, 1981 (five (5) days after discovery of the problem) restoring the system to a fully operable status.

Because the multiplexer component failure did not cause a remote (Control Room) alarm, discussions with the vendor have been initiated to determine if modification is appropriate. At this time the discussions indicate that failures of this type are very rare and the failure is considered (by the vendor) to be a case of "infant mortality" of the solid state circuits involved. Evaluation of a modification which adds a self check feature continues.

RECEIVED

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