

# 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)

0 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

CON'T  
0 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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 On 10/4/79 at 0130 hours, the Steam and Feedwater Rupture Control System (SFRCS) Chan-  
0 3 nel 4 +15 volt DC power supply failed causing a Channel 4 half trip in SFRCS Channel  
0 4 2/4. This placed the station in the Action Statement of T.S. 3.3.2.2 which requires  
0 5 the inoperable section of the channel be placed in the tripped condition. There was  
0 6 no danger to the health and safety of the public or station personnel. The SFRCS per-  
0 7 formed as designed; the failure forced a tripped condition in Channel 4 of the SFRCS  
0 8 Channel 2/4. (NP-33-79-113)

0 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 DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The cause of the SFRCS trip was a failure of a Sorenson power supply which provides the  
1 1 + 15 volt DC in Channel 4. Under MWO IC-454-79 the failed power supply PS-4 was re-  
1 2 placed with one from stock that had been functionally bench tested. The channel was  
1 3 declared operable at 1200 hours on October 4, 1979. The inoperable supply was re-  
1 4 turned to Sorenson for analysis and repair.

1 5 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

TOLEDO EDISON COMPANY  
DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE  
SUPPLEMENTAL INFORMATION FOR LER NP-33-79-113

DATE OF EVENT: October 4, 1979

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Failure of +15 Volt DC power supply PS-4 in Steam and Feedwater Rupture Control System (SFRCS) Channel 4.

Conditions Prior to Occurrence: The unit was in Mode 1, with Power (MWT) = 2751, and Load (Gross MWE) = 916.

Description of Occurrence: On October 4, 1979 at 0130 hours the SFRCS Channel 4 +15 volt DC power supply PS-4 failed causing a Channel 4 half trip in SFRCS Channel 2/4. This event placed the station in the Action Statement of Technical Specification 3.3.2.2 which requires the inoperable section of the channel to be placed in the tripped condition within one hour. Startup Feedwater Valve SP7B closed as designed. Main Feedwater Control Valve SP6B opened as designed to compensate for the anticipated loss of feedwater.

Designation of Apparent Cause of Occurrence: The apparent cause of the SFRCS trip was a failure of Sorenson power supply Model 18-15M20, Serial Number 0007.

Analysis of Occurrence: There was no danger to the health and safety of the public or to station personnel. The SFRCS performed as designed; the failure of PS-4 forced a trip condition in Channel 4 of SFRCS Channel 2/4.

Corrective Action: On October 4, 1979 at 0200 hours, corrective action commenced under Maintenance Work Order MWO-IC-454-79. It was found that PS-4 in Channel 4 of the SFRCS was inoperable. A new power supply, Serial Number 0148 was taken from stock, functionally bench tested, and placed into Channel 4. All indication returned to Channel 4 at 1200 hours on October 4, 1979, and the channel was declared operable. This removed the station from the Action Statement of Technical Specification 3.3.2.2. The inoperable power supply was returned to Sorenson for analysis and repair.

Failure Data: On October 6, 1978, Channel 1 of the SFRCS PS-1 failed. This was a Lamda +48 volt DC supply, see Licensee Event Report NP-33-78-121. On July 16, 1977, a steam generator level power supply on SFRCS Channel 1 failed. This was a Sorenson +24 volt DC supply, see Licensee Event Report NP-33-77-24. Also, see NP-33-79-79.

LER #79-097

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