

LICENSEE EVENT REPORT

CONTROL BLOCK: | | | | | | 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | F | L | S | L | S | | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | | | 5

7 3 9 14 15 23 26 37 38 39 40 41 42 43 44 45 46 47 48 49

CCNT  
01 | L | 5 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 3 | 3 | 5 | 7 | 0 | 9 | 0 | 2 | 7 | 8 | 3 | 1 | 0 | 0 | 2 | 7 | 1 | 8 | 9

7 3 3 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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10

02 | During a short maintenance shutdown, charging pump "1A" was found to  
03 | have a cracked pump casing. The pump was stopped and placed out of  
04 | service. The water leakage through the crack was minor and it was  
05 | contained by the radioactive waste management system. Due to design  
06 | redundancy, the two charging pumps remaining in service are capable of  
07 | pumping the required design capacity of the CVCS system, and fully meet  
08 | the applicable Tech. Specs. This is the first occurrence of this type.

09 | P | C | 11 | E | 12 | C | 13 | P | U | M | P | X | X | 14 | E | 15 | Z | 16

9 10 11 12 13 14 15 16 17 18 19 20 21 22

17 | 7 | 8 | | | | 0 | 3 | 4 | | | 0 | 3 | | | L | | 0

21 22 23 24 25 26 27 28 29 30 31 32

X | A | Z | Z | 0 | 0 | 0 | 0 | Y | Y | N | E | 0 | 4 | 5 |

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27

10 | The cause has not been confirmed. However, a previous engineering  
11 | evaluation of system operation and vibration suggests that suction  
12 | cavitation, primarily due to the piping configuration for charging pump  
13 | "1A", may be the cause. The "1A" pump casing will be replaced and a  
14 | damping device (accumulator) will be installed on the pump suction line.

15 | G | 23 | 0 | 0 | 0 | 0 | 29 | NA | A | 31 | OPERATOR OBSERVATION | 32

7 3 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

16 | Z | 33 | Z | 34 | NA | NA | | | |

7 3 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

17 | 0 | 0 | 0 | 37 | Z | 38 | NA

7 3 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

18 | 0 | 0 | 0 | 39 | NA

7 3 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

19 | Z | 42 | NA

7 3 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

20 | N | 44 | NA

7 3 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

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Additional Cause Description

The engineering evaluation of system operation and vibration suggests that suction cavitation, primarily due to piping configuration, may be the cause. Although the other two pumps are much less subject to this problem due to significant differences in the suction piping configuration, we plan to install damping devices (accumulators) on the suctions of all three (3) charging pumps. We are already in the procurement stage of this project which will be pursued on an expedited basis.