

0-777

LICENSEE EVENT REPORT

CONTROL BLOCK: [1][][][][][][][] [1] ①

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

[0][1][][] [C][T][M][N][S][2][2][0][0]-[0][0][0][0]-[0][0][0][0][3][4][1][1][1][1] [4][][] [5]
7 8 9 14 15 25 26 30 37 CAT 58

CON'T [0][1] [] REPORT SOURCE [L][6][0][5][0][0][0][3][3][6][7][0][3][1][3][8][0][8][0][4][1][1][8][0] [9]
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

[0][2] Following a full power plant trip, 2 broken saddle clamp bolts were found on hydraulic
[0][3] snubber hanger 490008 on the MS lead to the HP turbine. Following a second trip on
[0][4] 3/22/80, an additional clamp bolt was found broken on hydraulic snubber hanger 490002.
[0][5] The unit complied with Technical Specification 3.7.8.1 in each case and the bolts were
[0][6] replaced. 490008 bolts - 1-1/2 inch UNF capscrews. 490002 bolt - 1-3/4 inch UNC
[0][7] machine bolt.
[0][8] []

[0][9] []
SYSTEM CODE [H][B] [11] CAUSE CODE [E] [12] CAUSE SUBCODE [B] [13] COMPONENT CODE [S][U][P][O][R][T] [14] COMP. SUBCODE [D] [15] VALVE SUBCODE [Z] [16]

[17] LER/RO REPORT NUMBER [] EVENT YEAR [8][0] SEQUENTIAL REPORT NO. [0][1][1][1] OCCURRENCE CODE [0][3] REPORT TYPE [L] REVISION NO. [0]

ACTION TAKEN [A] [18] FUTURE ACTION [X] [19] EFFECT ON PLANT [C] [20] SHUTDOWN METHOD [Z] [21] HOURS [0][0][0][4] ATTACHMENT SUBMITTED [Y] [23] NRPD-4 FORM SUB. [N] [24] PRIME COMP. SUPPLIER [A] [25] COMPONENT MANUFACTURER [B][1][3][0]

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ⑳

[1][0] Hanger bolts failed due to fatigue cracking due to high vibration and shear on the
[1][1] trips. Bolts were replaced. All hangers in the area of these supports were inspected
[1][2] for cracks. None were found. Additional review in progress to reduce piping
[1][3] vibration/improve hanger reliability.
[1][4] []

[1][5] [] FACILITY STATUS [C] [28] % POWER [0][3][0] [29] OTHER STATUS [NA] [30] METHOD OF DISCOVERY [B] [31] DISCOVERY DESCRIPTION [OPERATOR OBSERVATION ON ROUNDS] [32]

[1][5] [] ACTIVITY CONTENT RELEASED OF RELEASE [Z] [33] AMOUNT OF ACTIVITY [NA] [35] LOCATION OF RELEASE [NA] [36]

[1][7] [] PERSONNEL EXPOSURES NUMBER [0][0][0] [37] TYPE [Z] [38] DESCRIPTION [NA] [39]

[1][8] [] PERSONNEL INJURIES NUMBER [0][0][0] [40] DESCRIPTION [NA] [41]

[1][9] [] LOSS OF OR DAMAGE TO FACILITY TYPE [Z] [42] DESCRIPTION [NA] [43]

[2][0] [] PUBLICITY ISSUED DESCRIPTION [Z] [44] [NA] [45]

8004180 404

LER 80-11/3L-0
Millstone Unit 2
Docket No. 50-336

EVENT DESCRIPTION

During power ascension on 3/13/80 following a full power plant trip, two broken pipe saddle clamp bolts were found on hydraulic snubber hanger 490008. This hanger is located on a main steam lead prior to the HP turbine. The plant was at 30% power and the power ascension was halted until the broken bolts (1-1/2" UNF capscrews) were replaced. All other hangers on the HP turbine steam leads were inspected satisfactorily.

Following another full power trip, with the plant at 99% power on 3/22/80, a broken saddle clamp bolt was found on hydraulic snubber hanger 490002. The bolt (1-3/4" UNC machine bolt) was replaced and inspection revealed no other broken bolts on similar hangers. Both bolts were carbon steel.

These events resulted in declaring hangers 490008 and 490002 inoperable and the plant was operated in accordance with Technical Specification Action Statement 3.7.8.1.

CAUSE DESCRIPTION

The cause of the bolt failures was fatigue cracking due to high vibration levels and bolt shear on the plant trips. A UT inspection was conducted of all applicable bolting on HP turbine steam leads with no evidence of cracking found on the presently installed bolting. Review is ongoing to reduce main steam piping vibration levels and/or modify the hanger configuration to reduce fatigue loadings. Any further corrective actions will be implemented upon completion of the review.

There are no safety implications from these events in that these pipe supports are provided for a non-safety related purpose. The original hydraulic snubber Technical Specification submittal included all snubbers in the plant. A change is pending to include only safety-related snubbers.