LIGEINGES EVILINI MERUMI UPDATED REPORT - PREVIOUS REPORT DATE 10/17/80 1.2 IPLEASS PRINT OR TYPE ALL REQUIRED INFORMATION CONTROL BLOCK: SINIPI1 0 0 0 0 0 0 0101 0 1 LICENSEE CODE CONT () 1 0 0 (3) 5 8 0 REPORT 01 01 0 (5) 0 SCLACE EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) At 0325 (c) H. P. Technician noticed leakage underneach Unit in mode 1 at 9.3% power. 0 2 An inspection by the Shift Engineer determined the leakage #3 reactor coolant pump. 013 to be coming from the seal injection line to RCP #3 (14 inch pipe). The leak was 04 declared to be pressure boundary leakage and a unit shutdown was initiated in 0:3 accordance with Technical Specification 3.4,6.2. There was no effect upon public 0 6 health or safety. Previous occurrences - none. 0 7 0 3 COMP SUSCODE SYSTEM CODE SUSCODE CAUSE COMPONENT CODE SUCCODE Z PIEI XXX (14 A 81 TI 3 0 9 REVISION OCCURRENCE SEQUENTIAL REPORT NO. 2001 75.98 13 IVENT YEAR UTR AD 1 0 15 16 X 18 0 NUMBER PAIME CONP SUMPLIER NPDD # SUBMITIED FUTUHE ACTION (22 MANUFAC "URER HOURS N (24) 19 19 [X] (23) N 1(25) A Z A 10 11 10 01 1 A F 1(21) 20) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The line apparently failed due to vibration. The line was replaced and additional 110 pipe supports were installed. Inspections were performed on the seal water injection 1 1 lines and component cooling water lines to all RCPs. Hanger 1-834-16, on seal water 112 injection piping to RCP #1, was found to be installed incorrectly. The hanger was 1 3 reinstalled correctly. 1 . 4 80 ANE THOD OF (30) D.ICOVERY DESCRIPTION OTHER STATUS S POWER 0 9 (29) (31 B 01 N/A B Η. Techn observation 3 80 ACTIVITY CONTENT LOCATION OF RELEASE (25) AMOUNT OF ACTIVITY (33) 0.4 4520 34) 6 2 (33) Z N/A N/A 80 PERSONNEL EXECSURES DESCRIPTION (20) NUMBER 2 01 (38) N/A 20 PEASCHNEL INJURIES CESCRIPTICH (41) RIBULIN 0 10 N/A 1 8 0 23 12 OSS OF OR DAMAGE TO FACILITY 2(12) N/A 9 20 NAC USE CHLY PLOL CITY DESCRIPTION (45) SUID, Y CO Verbal press release made on 10/5/80. 01 48 ... Phone 614-947-8761 8011180 719 N Colaron

 Tennessee Valley Authority Sequoyah Nuclear Plant

LER SUPPLEMENTAL INFORMATION

SQR0-50-327/80156 Revision 1 Technical Specification Involved 3.4.6.2

Reported Under Technical Specification 6.9.1.12.c

Date of Occurrence: 10/5/80 Time of Occurrence: 0325 (c)

Identification and Description of Occurrence:

During performance of SU 1.0 (Health Physics Radiation Survey), a H. P. Technican noticed leakage underneath 03 reactor coolant pump at 0325 (c). Shift Engineer investigation determined leakage to be coming from the scal water injection line in the area where the line is welded to the pump casing.

Conditions Prior to Cocurrence:

Mode 1 entered at 2316 (c) on 10/4/80. Generator tied to grid at 9.3 % power at 0053 (c) on 10/5/80. Radiation surveys in progress.

Apparent Cause of Occurrence:

Investigation revealed an approximate 25% circumferential crack in the heat affected zone of the pipe adjacent to the pipe to casing weld. Crack apparently caused by fatigue due to vibration of seal water injection line.

Analysis of Occurrence:

Continued operation under this condition could have resulted in a complete break of the seal water injection line causing leakage of reactor coolant and possible damage to the RCP seals.

Corrective Actions:

Unit entered mode 5 at 2318 on 10/5/80.

Two supports, which will not advorsely affect the overall qualifications of the line have been added for additional line protection.

The seal water injection line and weld nack flange were replaced. The weld was visually inspected and hydrostatically tested to 2280 psig at 525 degrees F in accordance with ASME Section XI Articles IWA-4000. TWA-5000, and IWB-5000.

Seal water injection lines and component cooling lines to thermal barrier wolds of all reactor coolant pumps were visually inspected and dye penetrant checked with no indication of additional cracks. Hanger 1-H34-16, seal water injection line on RCP #1, was discovered to be installed incorrectly. X-direction restraint should have been installed in the Z direction. The hanger was reinstalled correctly on 10/10/80.

On 10/27/80 TVA Engineering Design informed the Plant Staff that failure analysis indicated that Hanger 1-H34-16 being installed incorrectly could have resulted in a line failure during a design seismic event.

Tennessee Valley Authority Sequoyah Nuclear Plant

LER SUPPLEMENTAL INFORMATION

Failure Data:

. . . .

. . . .

2

.

.

TVA metallurgical analysis report on RCP #3 seal water injection piping crack states that failure of this piping was due to fatigue cracking caused by vibration.