

CONTROL BLOCK:

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 (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

PHONE: 717-948-8554

I. Current Activities at the Time of the Occurrence

TMI Unit 1 was in a long term cold shutdown condition.

II. Circumstances Leading to the Occurrence

While performing routine operator surveillance at 0400 hours on 4/11/82, it was discovered that flow did not exist through radiation monitor RM-L7. RM-L7 monitors the plant liquid effluent. Subsequent investigation revealed that the sample pump for the monitor, SR-P4, had failed.

III. Description

With RM-L7 out of service due to the failure of SR-P4 the minimum number of operable channels is less than required by Tech Spec Table 3.21-1. This item is considered reportable under Technical Specification 6.9.2.B(2) as operation in a degraded mode permitted by a limiting condition for operation.

IV. Resultant Events

No radioactive liquid releases were in progress. No significant occurrence took place as a result of this event.

V. Previous Events of a Similar Nature

No previous reportable events of a similar nature. There have been other previous failures of SR-P4, however the operability requirement for RM-L7 was only recently added to the Tech Specs.

VI. Root Cause

SR-P4 motor failed as a result of having no flow through the pump. A check of the piping for SR-P4 showed it to be clogged with mud which restricted the flow through the pump.

VII. Immediate Corrective Action

Grab samples were taken every 8 hours and analyzed for gross beta and gamma at a limit of detection of at least 10^{-7} microcuries/ml in accordance with action statement 20 of Technical Specification Table 3.21-1. Analysis of the grab samples showed beta/gamma levels to be less than the Lower Limit of Detection (LLD) specified in Tech Spec Table 4.22-1(A.2). The motor for SR-P4 was replaced and the associated piping was cleared of mud. RM-L7 and SR-P4 were returned to service on 4/12/82 at 0540 hours.

VIII. Long Term Corrective Action

The Preventive Maintenance Program will be modified to add a requirement to periodically blow down the sample line. Current plans are to do this about every two weeks.

IX. Component Failure Data

Peerless Model 4D33A-4-2 Dynaflo Submersible Pump with 1/3 hp, 115 volt motor.