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TRM1 - TECHNICAL REQUIREMENTS MANUAL UNIT 1

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TRM1 text LOES
6/23/08

3.7 Plant Systems

3.7.6 ESSW Pumphouse Ventilation

TRO 3.7.6 Two ESSW Pumphouse Ventilation Subsystems shall be OPERABLE.

APPLICABILITY: Whenever associated RHRSW and ESW Pumps are required to be OPERABLE.

ACTIONS

---------- NOTES ----------

1. If one or more fans and one or more dampers render ESSW Pumphouse Ventilation Subsystem fan train(s) inoperable, enter both the appropriate Condition for inoperable fan(s) and Condition E.

2. Dampers gagged in the appropriate position may be un-gagged intermittently under administrative controls to allow for work and/or operability testing.

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| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|---|---|
| A. One ESSW Pumphouse Ventilation Subsystem fan train in one or both subsystems inoperable due to an inoperable fan. | A.1 Restore subsystem fan to OPERABLE status. | 30 days |
| B. Two ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to inoperable fans. | B.1 Restore inoperable equipment so at least three fans in the subsystem are in OPERABLE status. | 7 days |
| C. Three or more ESSW Pumphouse Ventilation Subsystem fan trains in one subsystem inoperable due to inoperable fans. | C.1 Restore inoperable equipment so at least two fans in the subsystem are in OPERABLE status. | 36 hours |

ACTIONS (continued)

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|---|---|
| D. Three or more fan trains in both subsystems inoperable due to inoperable fans. | D.1 Declare the associated ESW/RHRSW pumps inoperable. | Immediately |
| E. ----------NOTE---------- Separate Condition entry is allowed for each damper. ---------- One or more ESSW Pumphouse Ventilation Subsystem fan trains in one or both subsystems inoperable due to one or more inoperable dampers. | E.1 Gag the affected fans' dampers in the appropriate position. | 72 hours |
| F. Required Action and associated Completion Time of Conditions A, B, C, or E not met. | F.1 Declare the associated ESW/RHRSW pumps inoperable. | Immediately |

TECHNICAL REQUIREMENT SURVEILLANCE

| SURVEILLANCE | | FREQUENCY |
|---|---|---|
| TRS 3.7.6.1 | Verify that the ESSW Pumphouse Ventilation Subsystems fans start and associated dampers automatically position when their associated pump starts. | 92 days |

B 3.7.6 ESSW Pumphouse Ventilation

BASES

TRO

The ESSW Pumphouse Ventilation System provides heat removal capability to ensure equipment temperature limits are maintained for the ESW pumps and the Unit 1 and Unit 2 RHRSW pumps. These pumps are required to operate to mitigate a design basis event. The ESSW Pumphouse ventilation system consists of two subsystems that provide the primary means to remove heat from the pumphouse. Each subsystem consists of four trains. A train consists of a fan and associated dampers.

Each ventilation subsystem provides cooling for separate divisions of equipment. Each division consists of two ESW pumps, one Unit 1 RHRSW pump and one Unit 2 RHRSW pump. The two ESSW Pumphouse Ventilation Subsystems provide the normal and emergency ventilation for the ESSW pumphouse. (Reference 1)

ACTIONS

The ACTIONS are modified by two Notes. Note 1 directs the entry into both a Condition for an inoperable fan(s) and Condition E for inoperable dampers when both one or more fans and one or more dampers are inoperable. Should the fan(s) and one or more dampers in an ESSW Pumphouse Ventilation Subsystem fan train(s) be inoperable, entry into two Conditions is required.

Note 2 allows a gagged damper to be un-gagged intermittently under administrative controls to allow for work and/or operability testing. These controls consist of stationing a dedicated person capable of installing a gag, who is in communication with the control room, at the damper. In this way, the damper can be re-gagged if the associated ESW/RHRSW pump starts. An exception to the administrative control requirement to have a dedicated person stationed at the damper is when a damper has been repaired and successfully tested for operability but all of the required documentation has not been completed (i.e., functional but not administratively operable). If an inoperable damper remains un-gagged under administrative controls for a period of time greater than allowed by the action statements (i.e., 72 hrs.), the associated ESW\RHRSW pump must be declared inoperable.

The Actions are defined to ensure proper corrective measures are taken in response to inoperable components. The completion times are similar to completion times for the ESW system and are also based on engineering judgement that accounts for the fact that the system is a support system whose function is to maintain the ESSW Pumphouse temperature within limits.

(continued)

B 3.7.6 ESSW Pumphouse Ventilation

BASES

ACTIONS (continued)

Each subsystem of ESSW pumphouse equipment can maintain acceptable temperatures to meet design basis limits when all ventilation subsystem fan trains are OPERABLE. If a fan's associated damper(s) are inoperable, the associated fan subsystem can perform its intended safety function provided the inoperable fan(s) damper(s) are gagged in the appropriate position as determined by Engineering. The gagged damper position ensures that the ambient temperatures will remain within limits thus assuring no degradation of ESSW pumphouse equipment. An inoperable fan reduces the cooling capability of the subsystem thus compromising the subsystems ability to maintain temperatures within design limits.

Condition E is modified by a separate note to allow separate Condition entry for each damper. This is acceptable since the Required Action for this condition provides appropriate compensatory actions.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the ESSW Pumphouse Ventilation Systems are maintained OPERABLE.

Verifying the fans are OPERABLE includes ensuring fans and associated dampers have properly functioned when operated to support normal pump operation. This ensures adequate pump heat removal capability.

REFERENCES

1. FSAR Section 9.4.8
2. Safety Evaluation NL-99-057