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B 3.6.3 Suppression Pool Alarm Instrumentation

BASES

TRO

The function of the Suppression Pool Instrumentation is to provide continuous monitoring of the suppression pool temperature and level. This monitoring function supplements the Operator observations and periodic Technical Specification Surveillance Requirements which require observation of the monitored parameters.

The suppression pool alarm instrumentation is designed to warn the control room operator that a limit has been reached and some compensatory action may be required. The setpoints are chosen to be consistent with the limits defined in the Technical Specifications.

Each channel of suppression pool narrow range level instrumentation consists of a transmitter, indicator and alarm circuit. This TRO only requires the alarm function to be maintained. The indicator is not required to support this function but can be used to support the performance of TRS 3.6.3.1, "Channel Check," and can be used to perform Surveillance Requirement (SR) 3.6.2.2.1.

Each channel of suppression pool temperature consists of 8 temperature detectors , as described in the Basis for SR 3.6.2.1.1, associated indicators and alarm circuits. The four alarm functions, as specified in Table 3.6.3-1, are displayed by status lights located both on the electronic unit (TX-15751 for Div. I, TX-15752 for Div II) and on the main control board (TIAH-15751 for Div. I, TIAH-15752 for Div. II). The alarm status lights on both the electronic unit and main control board must be surveilled. Annunciators, tripped by the plant computer at a calculated bulk pool temperature of 88°F and by the electronic unit at or below the 105°F, 110°F and 120°F limits, enhance the operator's monitoring capability but are not required to be surveilled. This TRO only requires the alarm function to be maintained. The indicators are not required to support this function but can be used to support the performance of TRS 3.6.3.1, "Channel Check" and can be used to perform SR 3.6.2.1.1.

ACTIONS

The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components.

(continued)

B 3.6.3 Suppression Pool Alarm Instrumentation

BASES (continued)

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the Suppression Pool Alarm Instrumentation Function is maintained OPERABLE.

TRS 3.6.3.1

Performance of the CHANNEL CHECK ensures that a gross failure of instrumentation has not occurred. A CHANNEL CHECK is normally a comparison of the parameter indicated on one channel against a similar parameter on other channels. It is based on the assumption that instrument channels monitoring the same parameter should read approximately the same value. Significant deviations between instrument channels could be an indication of excessive instrument drift in one of the channels or something even more serious. A CHANNEL CHECK will detect gross channel failure; thus, it is key to verifying the instrumentation continues to operate properly between each CHANNEL CALIBRATION.

Agreement criteria which are determined by the plant staff based on an investigation of a combination of the channel instrument uncertainties, may be used to support this parameter comparison and include indication and readability. If a channel is outside the criteria, it may be an indication that the instrument has drifted outside its limit and does not necessarily indicate the channel is Inoperable.

TRS 3.6.3.2

A CHANNEL FUNCTIONAL TEST is performed on each required channel to ensure that the entire channel will perform the intended function.

The Frequency of 92 days is based on the reliability analysis of Reference 1.

REFERENCES

(1) EWR 365129, Evaluation of extending SPOTMOS alarm functional test from 31 days to 92 days.