



**Prairie Island License Amendment Request
to Adopt TSTF-569**

4.9.2020

Agenda

- Purpose
- Background
- Proposed Changes
- TSTF-569 Variations
- Schedule
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Purpose

The purpose of this meeting is to discuss proposed License Amendment for Prairie Island Nuclear Generating Plant (PINGP) Units 1 and 2 to adopt TSTF-569, Response Time Testing, which will include two variations from TSTF-569.

Background

- TSTF-569 permits licensees, in lieu of measurement, to verify the Reactor Trip System (RTS) and Engineered Safety Feature Actuation System (ESFAS) response times of certain component types by using the methodology contained in TSTF-569, Attachment 1.
- TSTF-569 modifies language added by TSTF-111, which added a sentence to the standard TS definitions of RTS and ESFAS Response Time Testing to allow alternatives to measuring response times for certain components.
- NSPM did not adopt TSTF-111.

Proposed Changes

TSTF-569 mark up

REACTOR TRIP SYSTEM
(RTS) RESPONSE TIME

The RTS RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its RTS trip setpoint at the channel sensor until loss of stationary gripper coil voltage. The response time may be measured by means of any series of sequential, overlapping, or total steps so that the entire response time is measured. In lieu of measurement, response time may be verified for selected components provided that the components and methodology for verification have been previously reviewed and approved by the NRC, or the components have been evaluated in accordance with an NRC approved methodology.

NSPM Proposed
mark up

REACTOR
TRIP
SYSTEM (RTS)
RESPONSE
TIME

The RTS RESPONSE TIME shall be that time interval from when the monitored parameter exceeds its RTS trip setpoint at the channel sensor output until opening of a reactor trip breaker. The response time may be measured by means of any series of sequential, overlapping, or total steps so that the entire response time is measured.

In lieu of measurement, response time may be verified for selected components provided that the components and methodology for verification have been previously reviewed and approved by the NRC, or the components have been evaluated in accordance with an NRC approved methodology.

TSTF-569 Variations

1. The modified definition of ESFAS Response Time will not be included in the LAR. PINGP TS do not currently include this definition.
2. The revised definition of RTS Response Time will continue to exclude the channel sensor from response time testing and the response time will continue to be based on the opening of the reactor trip breaker and not the loss of stationary gripper coil voltage consistent with current PINGP TS.

Schedule

NSPM plans to submit the TSTF-569 LAR by June 1, 2020, and request NRC approval 12 months from acceptance.

