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**Prairie Island**

**NIS PR Bypass Test Panel License Amendment Request**

**August 11, 2021**

# Agenda

- Purpose
- Background
- Approach
- Precedents
- Schedule
- Closing Remarks

## Purpose

Discuss a proposed license amendment request (LAR) to change Technical Specifications (TS) to allow testing the Power Range (PR) Nuclear Instrumentation System (NIS) channels with the channel in bypass following installation of permanent bypass capability

## Background

- Reducing trip state vulnerability during PR NIS testing
- The current design places the PR NIS channel in trip during testing and reduces the trip logic from 2/4 to 1/3

## Approach

- Reduce susceptibility to spurious trips during testing by installing permanent bypass test capability and changing TS to allow testing in bypass (trip logic while testing becomes 2/3)
  - Plant Modifications: Install and implement a PR NIS Bypass Test Panel of Westinghouse design
  - TS changes:
    - Revise the Note to TS 3.3.1, Condition D, based on a modification that allows the channel to be tested in bypass
    - Add Notes to SR 3.3.1.7 and SR 3.3.1.8 to exclude testing the RPS input relays during a COT

# Approach (continued)

## Proposed TS Markups

D. One Power Range  
Neutron Flux channel  
inoperable.

One ↘ NOTE-----  
~~The inoperable~~ channel may be  
bypassed for up to 4 hours for  
surveillance testing and setpoint  
adjustment ~~of other channels.~~

D.1.1 Place channel in trip.

6 hours

OR

In accordance  
with the Risk  
Informed  
Completion Time  
Program

# Approach (continued)

## Proposed TS Markups (continued)

<p>SR 3.3.1.7 -----NOTE</p> <p>1. Not required to be performed for source range instrumentation prior to entering MODE 3 from MODE 2 until 4 hours after entry into MODE 3.</p> <p>-----</p> <p>Perform COT.</p> <p>2. The RPS input relays are excluded from this Surveillance for Functions 2. a. and 3.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>
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# Approach (continued)

## Proposed TS Markups (continued)

SURVEILLANCE REQUIREMENTS (continued)	
SURVEILLANCE	FREQUENCY
<p>SR 3.3.1.8 -----NOTES-----</p> <ol style="list-style-type: none"> <li>1. This Surveillance shall include verification that interlocks P-6 and P-10 are in their required state for existing unit conditions.</li> <li>2. Not required to be performed for intermediate and source range instrumentation prior to reactor startup following shutdown <math>\leq</math> 48 hours.</li> </ol> <p>-----</p> <p>Perform COT.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>3. The RPS input relays are excluded from this Surveillance for Function 2. b.</p> </div>	<p>-----NOTE-----</p> <p>Only required when not performed within the Frequency specified in the Surveillance Frequency Control Program</p> <p>-----</p> <p>Prior to reactor startup</p> <p><u>AND</u></p> <p>Twelve hours after reducing</p>



# Precedents

- Ginna Amendment 132

## Schedule

- Submit the LAR in September 2021
- Will request a review within 12 months of acceptance
- Implementation will be 30 days following approval and installation on Unit 1
  - Unit 2 hardware installed Fall 2021
  - Unit 1 hardware installed Fall 2022

# Closing Remarks

Questions?

