



Turkey Point Unit 3 and Unit 4

Reactor Protection System Engineered Safety Feature Actuation System Nuclear Instrumentation System Replacements

**Safety System Replacement Project LAR
NRC 7th Pre-submittal Meeting Telecon**

August 23 and August 25, 2021

CLOSED MEETING



Agenda – Closed Portion- Aug 23 and 25

- **Closed Session – Aug 23rd**
 - Components not Addressed in Approved SER
 - Equipment Qualification and Dedication
 - Human Factors Engineering Program Update
- **Closed Session – Aug 25th**
 - Application of Leak Detection in D3 Evaluation
 - Command Prioritization
 - Surveillance Reduction Activities
 - Schedule Update
 - Action Items and Follow-up

Components Not Addressed in Approved Tricon SER



Safety Video Display Unit (SVDU)



Proposed Nuclear Instrumentation Signal Processing

NIS Components (TXS) – Framatome GmbH

New Manufactured NIS Components – Framatome Inc.



end of topic

Equipment Qualification



Evaluation and Acceptance of Commercial Equipment for Safety Related Applications

end of topic



Human Factors Engineering - Overview

Human Factors Engineering - Elements

Action Items and Follow-up for August 23rd Closed Meeting

- **Action Items and Follow-up**



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Agenda

- **Closed Session – Aug 25th**
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Leak Detection Capability Analysis for PTN 3&4 D3 Report in Accordance with BTP 7-19, Rev 8



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Leak Detection Capability Analysis for PTN 3&4 D3 Report in Accordance with BTP 7-19, Rev 8

Leak Detection Capability



Leak Detection Capability Analysis for PTN 3&4 D3 Report in Accordance with BTP 7-19, Rev 8

end of topic



Command Prioritization

end of topic



Technical Specification Surveillance Reduction Update

Tech Spec Surveillance Test Extension/Reduction For RPS/ESFAS/NIS LAR – Coverage Boundary

Tech Spec Surveillance Test Extension/Reduction For RPS/ESFAS/NIS LAR – Coverage Analysis

end of topic



Framatome Lifecycle Project Schedule



end of topic



Action Items and Follow-up for August 25th Closed Meeting

- Action Items and Follow-up



Questions?



Acronym List

Actuation Logic Testing	ALT
Alternate Review	AR
Branch Technical Position	BTP
Channel Operational Testing	COT
Diverse Actuation System	DAS
Defense-in-Depth and Diversity	D3
Distributed Control System	DCS
Engineered Safety Features Actuation System	ESFAS
Failure Modes, Effects and Diagnostic Analysis	FMEDA
Florida Power and Light	FPL
Foxboro Intelligent Automation	I/A
Human Factor Engineering	HFE
Instrumentation and Control	I&C

Acronym List (continued)

Institute of Electrical and Electronic engineers	IEEE
Interim Staff Guidance	ISG
Leak-Before-Break	LBB
License Amendment Request	LAR
Loss Of Coolant Accident	LOCA
Non-Safety Related	NSR
Nuclear Instrumentation System	NIS
Nuclear Regulatory Commission	NRC
Priority Logic Module	PLM
Quality Assurance	QA
Regulatory Guide	RG
Reactor	Rx

Acronym List (continued)

Reactor Coolant System	RCS
Reactor Protection System	RPS
Safety Evaluation Report	SER
Safety Injection	SI
Safety Related	SR
Standard Review Plan	SRP
System Requirements Specification	SyRS
Safety Visual Display Unit	SVDU
Subsequent License Renewal	SLR
Turkey Point	PTN
Vendor Oversight Program	VOP

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