



## **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 9th Pre-submittal Meeting Telecon**

**April 13, 2022**

**OPEN SESSION**

# Introductions – On the Call today

## Florida Power & Light

- **FPL Nuclear Licensing**
  - Steve Catron – Licensing Fleet Director
  - Jarrett Mack – Fleet Licensing Lead
- **FPL Nuclear Engineering**
  - Brian Dunn – Director – Fleet Design
  - Phillip Barnes – Design Manager
  - Wesley Frewin – Digital Design Supervisor
  - Warren Busch – Project Engineer
- **FPL PTN Operations**
  - Jim Goodrich – Unit Supervisor
- **FPL Nuclear Assurance**
  - Jim Gill

## Contract and Support

- **Framatome**
  - Brian Haynes – Licensing Lead
  - Ted Quinn – Licensing Engineer
  - Jacek Novakowski – Human Factors Lead
  - Bill Hannaman – Licensing Engineer (HFE)
- **Sargent & Lundy (3<sup>rd</sup> Party review)**
  - Pareez Golub
  - John McCague

# Agenda – Open and Closed Sessions

- **Open Session**
  - Background/Purpose
  - LAR Plan Changes
  - Vendor Oversight Update
  - Questions and Comments
  
- **Closed Session**
  - LAR Content
  - Alternate Review Process Deviations
  - HFE LAR Content
  - Project Schedule Review

## Background/Purpose

- **Follow up to 8<sup>th</sup> Pre-submittal meeting**
  - Schedule, LAR Supplement plan, Human Factors plan
  - Discussion of Licensing Process, Required Information
- **NRC Digital I&C Workshop March 23, 2022**
  - Licensing Lesson Learned, HFE Reviews, Inspections Lessons learned
- **Inform NRC**
  - Status of Vendor Oversight activities
  - Adjustments made to previously presented plans and schedules

# LAR Plan Changes

- **Early submittal of Diversity and Defense in Depth Evaluation**
- **Technical Specification Surveillance Reduction issued in LAR**
- **Increased LAR content for Human Factors**
  - Guidance of NUREG 0711 for submittal content.
- **Improved Technical Specification Mark-up Submittal moved schedule up five months (No later than May 2023)**
- **SER Requested Date Change**
  - Requested SER Date extended from six months before the outage to three months. (July 2024)
  - Expand review time for Human Factors Validation results

# Vendor Oversight Update

- **Vendor Oversight Activities:**

- Vendor Oversight Plan Revised to Revision 1
  - Changes and additions to design products for oversight
  - Procedure reviews and active participation in Preliminary Validation HFE activities
  - Status, product reviews and comment resolutions in progress

- **Significant Audit Activities**

- NRC Vendor Inspection Branch Audit – Framatome, Nov. 16-19, 2021 (Docket Number 99901300)
  - Design Engineering, Software Development, 10CFR Part 21
- NUPIC Audit – Framatome, Dec. 6-17, 2021
  - Commercial Grade Dedication, Engineering Design, Software Development Process
  - FPL a member of NUPIC team
- FPL November 2021 Audit Open Item – Cyber Security controls

- **Vendor Audit Framatome GmbH, Commercial Grade Dedication of NI signal conditioning components, scheduled April 11 through 22, 2022**



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# *Questions and Comments*



## Acronym List

Florida Power and Light	FPL
Human Factor Engineering	HFE
Instrumentation and Control	I&C
License Amendment Request	LAR
Nuclear Instrumentation	NI
Nuclear Regulatory Commission	NRC
Nuclear Procurement Issues Committee	NUPIC
Turkey Point	PTN
Safety Evaluation Report	SER