

**St Lucie Units 1 & 2 and
Turkey Point Units 3 & 4
2022 Annual Assessment Meeting**

**Reactor Oversight Process
Nuclear Regulatory Commission – Region 2
May 18, 2023**

Meeting's Purpose



**Discuss licensee
performance in
2022**



**Address Findings
and Performance
Indicators**



**Information
Meeting with a
Q&A Session**



Agenda

- Introductions
- NRC Mission Statement and Strategic Goals
- NRC Resident Inspector Program
- Reactor Oversight Process Review
- St Lucie Annual Assessment Summary
- Turkey Point Annual Assessment Summary
- Question and Answer Session



Introductions

- St. Lucie Resident Inspectors

- Dan Orr – Senior Resident Inspector
- John Hickman – Resident Inspector

- Turkey Point Resident Inspectors

- Matt Endress – Senior Resident Inspector
- Jose R. Reyes – Resident Inspector



Introductions

● Regional Personnel

- David Dumbacher – Branch Chief
- David Gasperson – Public Affairs Officer
- Natasha Childs – Senior Project Engineer
- Jeff Hamman – Senior Project Engineer



NRC Mission Statement



The NRC licenses and regulates the Nation's civilian use of radioactive materials, to provide reasonable assurance of adequate protection of public health and safety, to promote the common defense and security, and to protect the environment.



NRC Strategic Goals



- 1) Ensure the safe and secure use of radioactive materials
- 2) Continue to foster a healthy organization
- 3) Inspire stakeholder confidence in the NRC

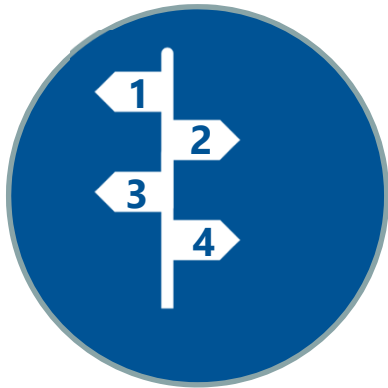


Resident Inspector Program

- Resident inspectors live in the communities they serve
- Perform onsite inspections
- Provide daily oversight of plant activities, including the control room
- Routinely discuss safety concerns with plant personnel and senior management
- Observe emergency drills and provide support to NRC decision makers for actual emergencies or urgent issues



Reactor Oversight Process (ROP)



**Implemented in
each of the NRC's
four regions**



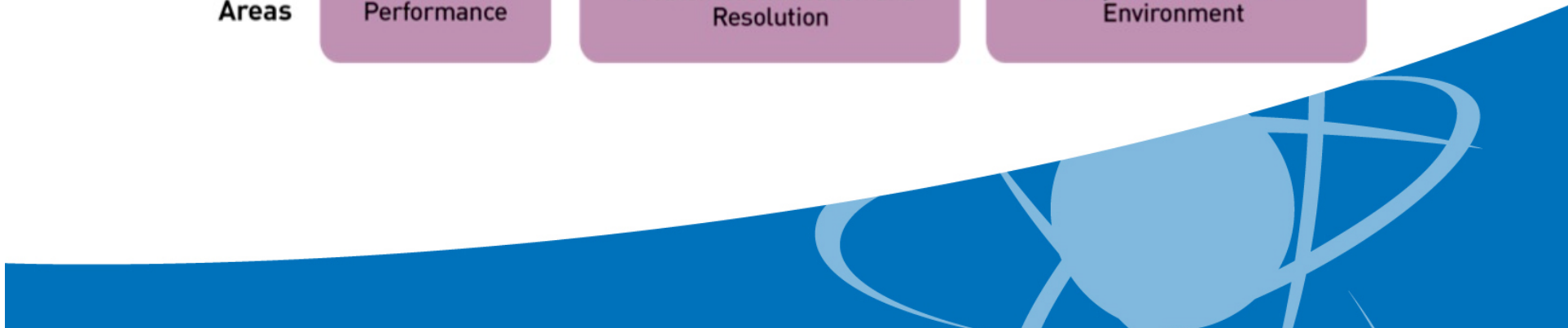
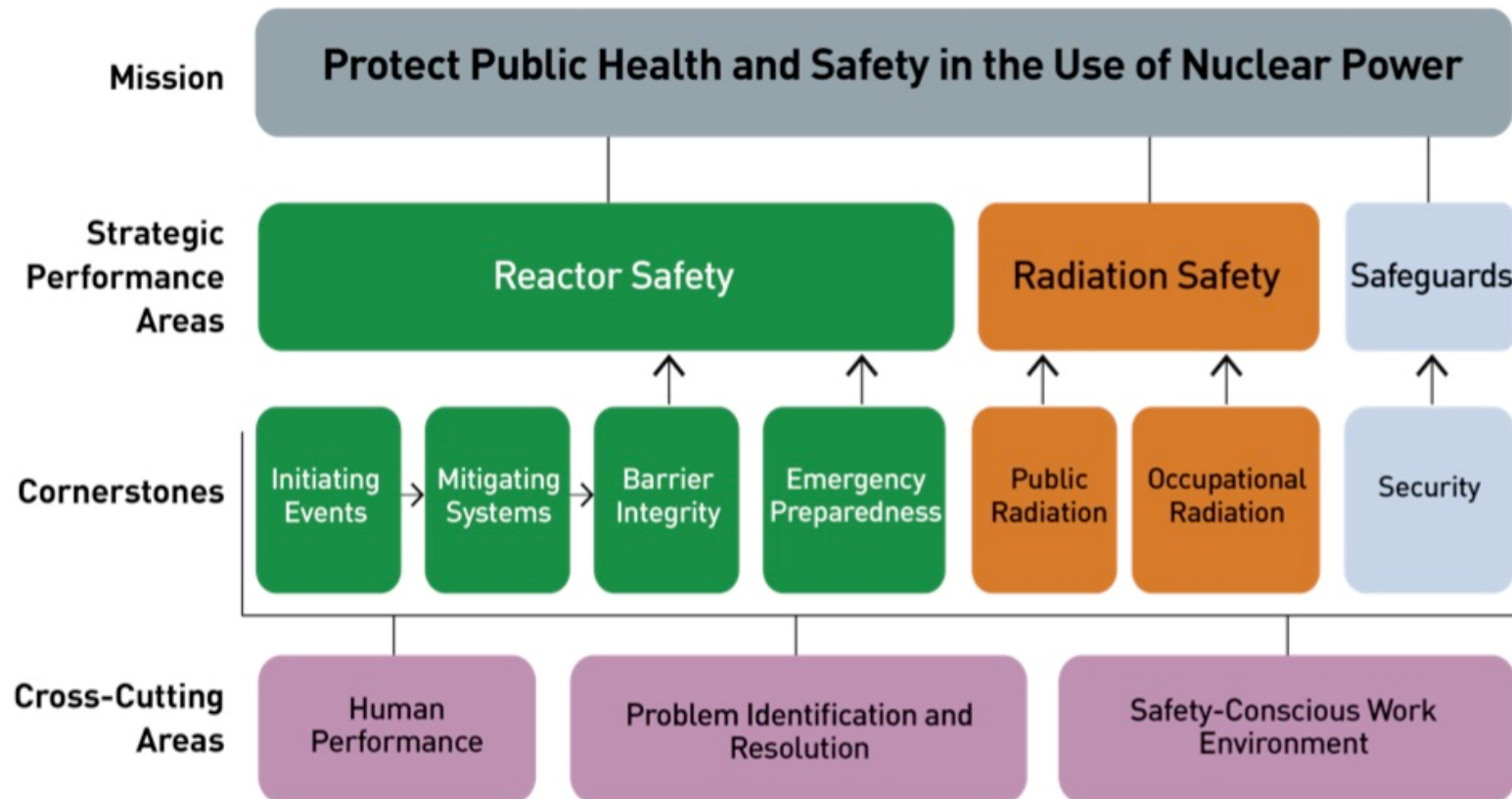
**Involves inspection
and assessment
activities**



**Executed by
regional and
resident inspectors**



ROP Framework



ROP Assessment Inputs

Inspection Findings

- NRC develops findings from inspections
- Findings evaluated for safety significance using a significance determination process

GREEN

Very low safety or security significance finding

WHITE

Low to moderate safety or security significance finding

YELLOW

Substantial safety or security significance finding

RED

High safety or security significance finding



ROP Assessment Inputs

Performance Indicators (PIs)

- Licensees collect PI data (17 PIs total)
- PI data reported to the NRC quarterly
- PI data evaluated & integrated with inspection findings to develop NRC's assessment of licensee performance

GREEN

Performance within an expected level

WHITE

Performance outside expected range

YELLOW

Minimal reduction in the safety margin

RED

Signals a significant reduction in safety margin in the area measured



Action Matrix Concept

Licensee Response (Column 1)	Regulatory Response (Column 2)	Degraded Performance (Column 3)	Multiple/Repetitive Degraded Cornerstone (Column 4)	Unacceptable Performance (Column 5)
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Increasing:

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action



NRC Annual Assessment Summary

St Lucie Units 1 & 2



NRC Annual Assessment Summary



- Florida Power & Light (FPL) operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- St Lucie Units 1 & 2 were in the Licensee Response Column of the NRCs ROP Action Matrix for the entire 2022 assessment period.
- NRC plans to conduct routine baseline inspections at St Lucie in 2023.

NRC Inspection Activities

St Lucie Units 1 & 2 for 2022

- Approximately 4,000 hours of direct inspection and related activities
- Two resident inspectors on site; residents perform daily oversight activities and document baseline inspection results on a quarterly basis



NRC Inspection Activities (continued)

- Ten regional inspections, including:
 - Fire Protection Team Inspection
 - Problem Identification and Resolution Inspection
 - Emergency Preparedness Exercise Inspection
 - Design Basis Assurance Inspection
 - Security Baseline Inspection
 - Triennial Heat Sink Inspection
 - Radiation Protection Inspections
 - Unit 1 In-service Inspection



St. Lucie PIs and Findings

January 1 through December 31, 2022

- All Green Performance Indicators
- Six Green inspection findings

Performance Indicators



Inspection Findings



NRC Inspection Findings

St Lucie Units 1 & 2

Six findings of very low safety significance (Green)

- Inspection Report 2022-001
 - Safety injection system gas accumulation management program deficiencies.
 - Unit 1 manual trip due to insufficient feedwater flow to 1A steam generator.
- Inspection Report 2022-003
 - Reactor shutdown required by Technical Specifications due to a misaligned control element assembly



NRC Inspection Findings

- Inspection Report 2022-004 (continued)
 - Failed Unit 1 emergency core cooling system ventilation system charcoal filter testing results.
 - Unit 1 manual trip due to insufficient feed flow to the 1A steam generator
- Inspection Report 2022-010
 - Failure to consider maximum transmitted torque in motor operated valve structural evaluation.



NRC Annual Assessment Summary

Turkey Point Units 3 & 4



NRC Annual Assessment Summary



- FPL operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Turkey Point Units 3 & 4 were in the Licensee Response Column of the NRCs ROP Action Matrix for the entire 2022 assessment period.
- NRC plans to conduct routine baseline inspections at Turkey Point in 2023.

NRC Inspection Activities

Turkey Point Units 3 & 4 for 2022

- Approximately 3,400 hours of direct inspection and related activities
- Two resident inspectors on site; residents perform daily oversight activities and document baseline inspection results on a quarterly basis
- Twelve regional inspections, including:
 - Fire Protection Team Inspection
 - Emergency Preparedness Program Inspection
 - Design Basis Assurance Inspection
 - Security Baseline Inspection
 - Cyber-security Team Inspection

Turkey Point PIs and Findings

January 1 through December 31, 2022

- All Green Performance Indicators
- Five Green inspection findings

Performance Indicators



Inspection Findings



NRC Inspection Findings

Turkey Point Unit 3 & 4

Five findings of very low safety significance (Green)

- Inspection Report 2022-010
 - Failure to follow procedure for diesel driven fire pump results in pump runout.
 - Failure to adequately evaluate a surveillance frequency change to fire protection program equipment.
- Inspection Report 2022-011
 - Reactor shutdown required by Technical Specifications Failure to address valve capability with preloaded bolts.

NRC Inspection Findings

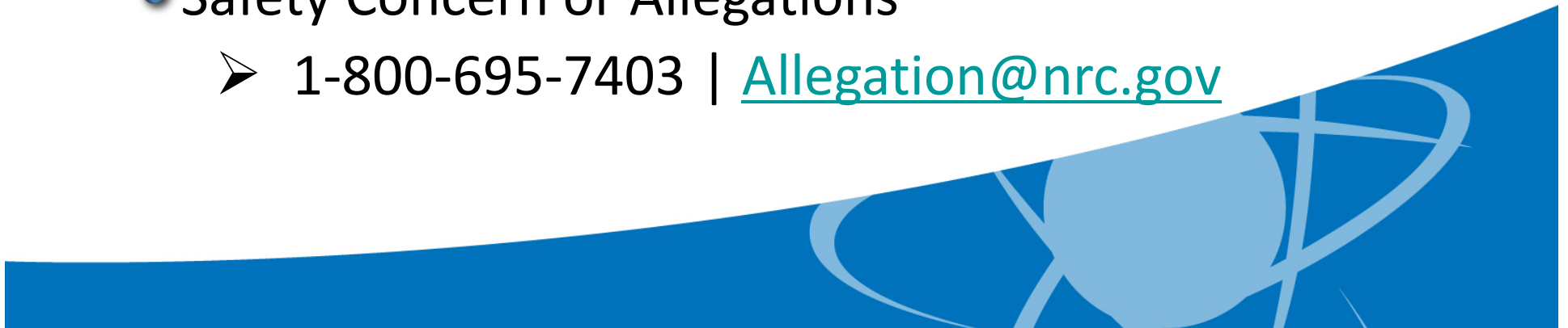
- Inspection Report 2022-011 (continued)
 - Failure to properly categorize valve in accordance with ASME OM code.
- Inspection Report 2022-401
 - One finding of very low security significance



Getting in Touch with the NRC



- General information or questions
 - NRC Public Website – www.nrc.gov
 - Region II Public Affairs
404-997-4417 | OPA2.Resource@nrc.gov
- Report an Emergency
 - 301-816-5100 (collect calls accepted)
- Safety Concern or Allegations
 - 1-800-695-7403 | Allegation@nrc.gov



Questions about St Lucie?

Senior Resident Inspector – Dan Orr

Dan.orr@nrc.gov | 404.997.5231

Main Office – 404.997.5230



Questions about Turkey Point?

Senior Resident Inspector – Matt Endress

Matthew.endress@nrc.gov | 404.997.5271

Main Office – 404.997.5270



NRC Social Media



STAY CONNECTED



- Facebook: <https://www.facebook.com/nrcgov/>
- Instagram: <https://www.instagram.com/nrcgov>
- Twitter: <https://twitter.com/nrcgov>
- YouTube: <https://www.youtube.com/user/NRCgov>
- Flickr: <https://www.flickr.com/photos/nrcgov/sets>
- LinkedIn: <https://www.linkedin.com/company/u-s--nuclear-regulatory-commission/mycompany/>
- GovDelivery: <https://service.govdelivery.com/accounts/USNRC/subscriber/new>



Questions and Feedback



Public Meeting Feedback Form:

1. Form available during meeting

OR

2. Electronically

<https://feedback.nrc.gov/pmfs/feedback/form?meetingCode=2023xxxx>

QR Code
(available the
day of the
meeting)

Nuclear Regulatory Commission | Region II

May 18, 2023

