

# Browns Ferry, Sequoyah and Watts Bar Annual Assessments



2022 Reactor Oversight Process

Nuclear Regulatory Commission - Region II

May 10, 2023 – 3:30pm-4:30pm EST,

In Person, Soddy-Daisy Town Hall

May 17, 2023 – 6:30pm-7:30pm EST,

Virtually, link on NRC Public Meeting Site

# Purpose



**Discuss  
licensee  
performance in  
2022**



**Address Findings  
and Performance  
Indicators**



**Open House and  
Discussion**

# Agenda

- Introductions
- NRC Mission Statement and Strategic Goals
- Reactor Oversight Process Review
- NRC Resident Inspector Program
- Annual Assessment Summary
  - Browns Ferry
  - Sequoyah
  - Watts Bar
- Questions/Answers

# Introductions

- Browns Ferry Resident Inspectors:

- Jeff Steward, Senior Resident Inspector
- Nick Karlovich, Resident Inspector
- Kevin Pfeil, Resident Inspector

- Sequoyah Resident Inspectors

- Dave Hardage, Senior Resident Inspector
- Alex Price, Resident Inspector
- Kelly Brower, Site Administrative Assistant

- Watts Bar Resident Inspectors

- Wes Deschaine, Senior Resident Inspector
- Rob Wehrmann, Resident Inspector
- David Burgess, Nuclear Regulator Apprenticeship Network
- Amy Birdsong, Site Administrative Assistant

- Regional Personnel

- Lou McKown, Branch Chief
- Son Ninh, Senior Project Engineer
- Keion Henry, Project Engineer
- Lance Day, 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 and to promote the common defense and security and to protect the environment

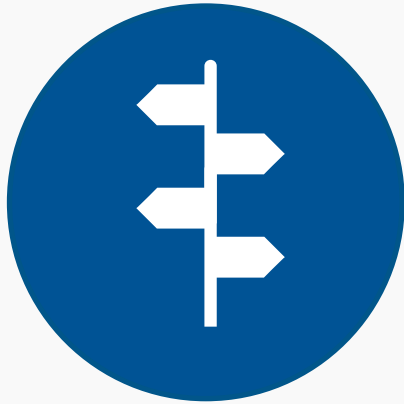
## STRATEGIC GOALS

**SAFETY STRATEGIC GOAL:** Ensure the Safe Use of Radioactive Materials

**SECURITY STRATEGIC GOAL:** Ensure the Secure Use of Radioactive Materials



# NRC Reactor Oversight Process (ROP)



Implemented in  
each of the NRC's  
four regions

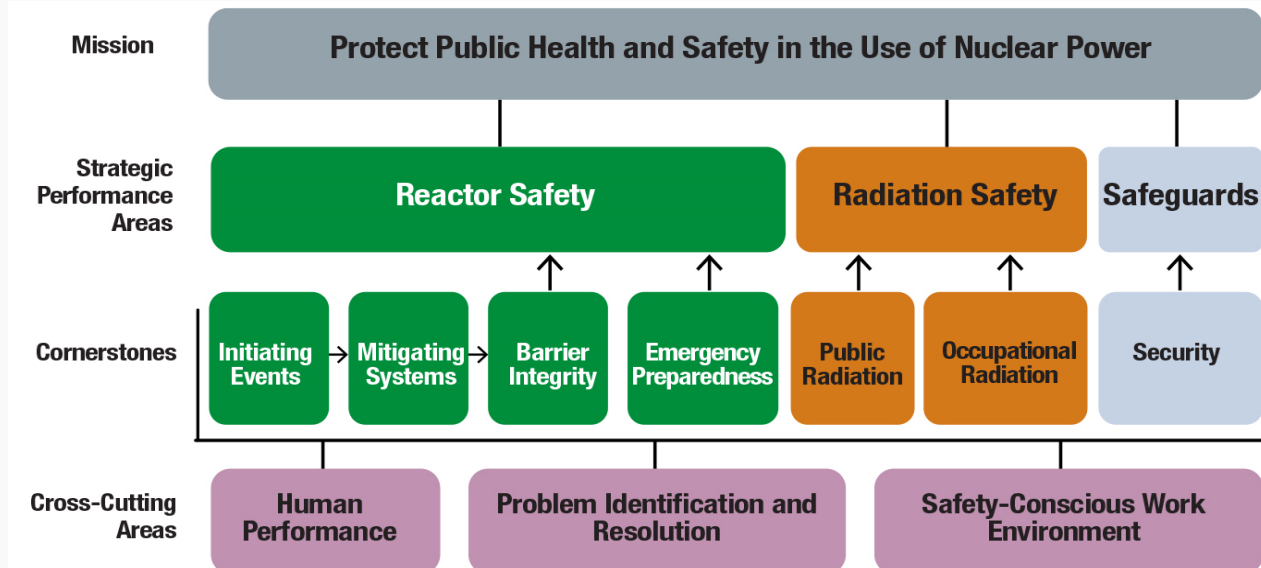


Involves inspection  
and assessment  
activities



Performed by regional  
and resident  
inspectors

# NRC Reactor Oversight Framework



# NRC Reactor Oversight Process (ROP)

**INCREASING SAFETY SIGNIFICANCE** 

	<b>GREEN</b>	<b>WHITE</b>	<b>YELLOW</b>	<b>RED</b>
<b>Performance Indicators</b>	Performance within an expected level; Cornerstone objectives are met	Performance outside expected range; Cornerstone objectives are still being met	Related cornerstone objectives are being met; Minimal reduction in the safety margin	Signals a significant reduction in safety margin in the area measured
<b>Findings</b>	Very low safety or security significance	Low to moderate safety or security significance	Substantial safety or security significance	High safety or security significance
<b>Oversight</b>	<b>Baseline Inspection</b>	<b>Requires additional NRC oversight</b>	<b>Requires more NRC oversight</b>	<b>Requires most NRC oversight</b>

**INCREASED NRC OVERSIGHT** 

# Resident Inspector Program

- NRC Resident Inspectors live in the local communities and perform inspection activities at Browns Ferry, Sequoyah and Watts Bar Nuclear Plants
- Provide daily oversight of plant activity



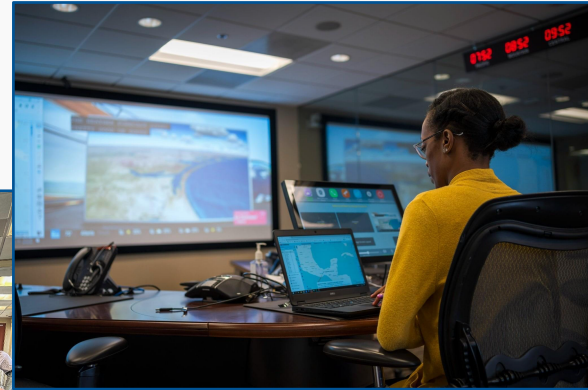
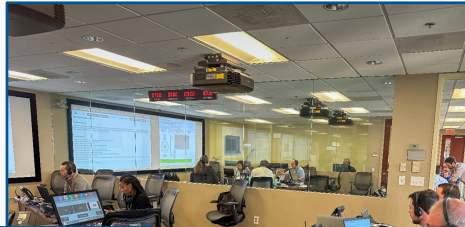
# Resident Inspector Program

- Daily visits to Control Room
- Periodic meetings with plant senior managers
- Prioritize inspections based on important plant activity



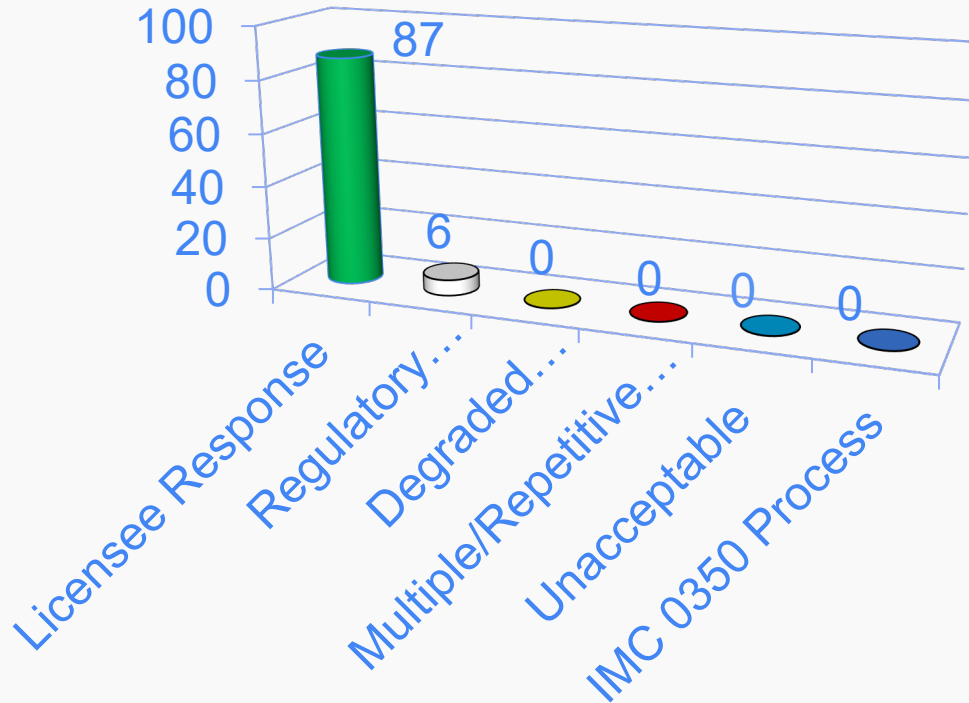
# Resident Inspector Program

- Observe emergency drills and provide support to NRC decision makers for any actual events or urgent issues



# NRC Annual Assessment Summary

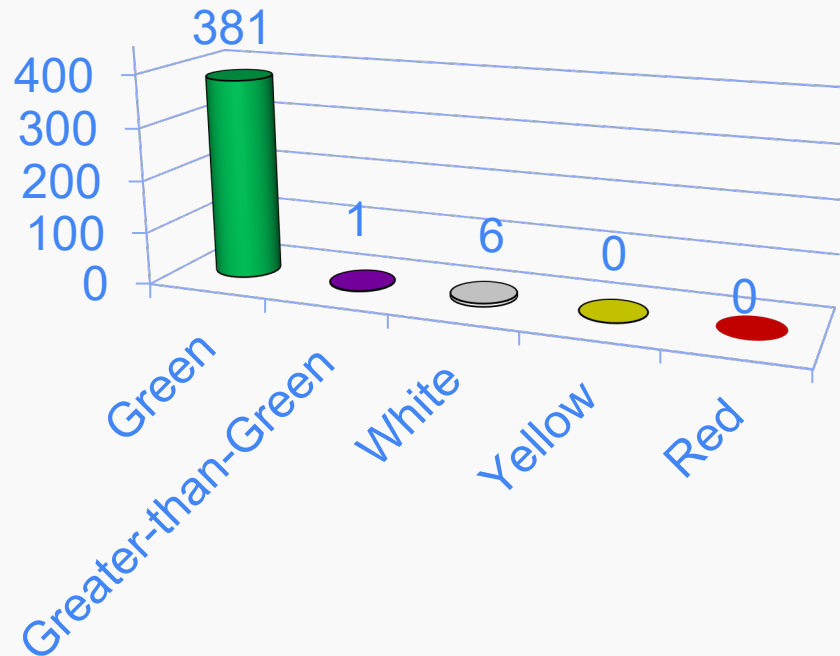
## ROP Column by Reactor



Calendar Year  
2022 Data

# NRC Annual Assessment Summary

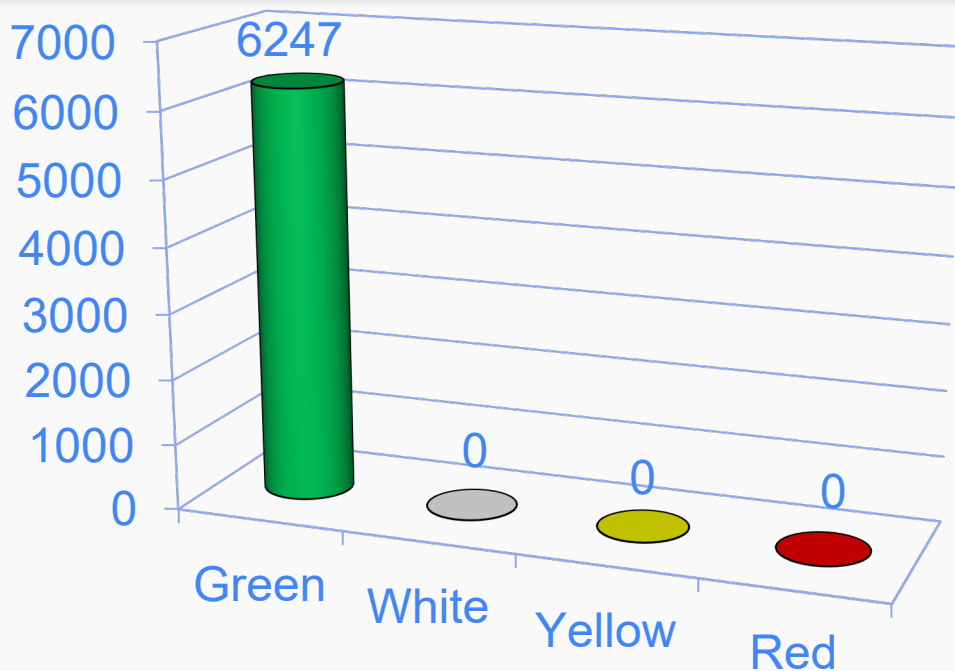
## ROP Inspection Findings Industry Wide



**Calendar Year  
2022 Data**

# NRC Annual Assessment Summary

## ROP Performance Indicators Industry Wide



Calendar Year  
2022 data

# NRC Annual Assessment Summary

## Browns Ferry Nuclear Plant

- TVA operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Browns Ferry Units 1, 2, and 3 were in Licensee Response Column of the NRC's ROP Action Matrix for Calendar Year (CY) 2022.
- Seven Non-cited violations (NCVs) were identified in CY 2022.
- All Performance Indicators were Green (no performance thresholds exceeded).
- NRC had planned baseline inspection at Browns Ferry for 2023.

# NRC Annual Assessment Summary

## Browns Ferry Nuclear Plant

- On May 8, 2023, the NRC issued, Browns Ferry Unit 1 - Final Significance Determination for White Finding, Notice of Violation and Assessment Follow-up Letter (ML23115A000) associated with the failure of a High Pressure Core Injection pump electronic governor in July 2022.
- Browns Ferry Unit 1 entered the Regulatory Response Column of the ROP Action Matrix beginning the First Quarter of 2023 based upon the inspection exit date in January 2023.
- In 2023, Browns Ferry Unit 1 will receive increased oversight in the form of an Inspection Procedure 95001 Supplemental Inspection.

# NRC Annual Assessment Summary

## Sequoyah Nuclear Plant

- TVA operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Sequoyah Units 1 and 2 were in the Licensee Response Column (Column 1) for CY 2022
- One Preliminary Greater than Green and Apparent Violation, 4 Green NCVs, and one Finding were identified in CY 2022.
- All Performance Indicators were Green (no performance thresholds exceeded).

# NRC Annual Assessment Summary

## Sequoyah Nuclear Plant

- On April 20, 2023, the NRC issued, Sequoyah Units 1&2 Final Significance Determination for a Security-Related Greater than Green Finding, Notice of Violation and Assessment Follow-up Letter (ML23103A395) associated with an event in the fourth calendar quarter of 2022.
- Sequoyah Units 1&2 entered the Regulatory Response Column of the ROP Action Matrix beginning the Fourth Quarter of 2022 based upon the inspection exit date in the fourth calendar quarter of 2022.
- In 2023, Sequoyah Units 1&2 will receive increased oversight in the form of an Supplemental Inspection.

# NRC Annual Assessment Summary

## Watts Bar Nuclear Plant

- TVA operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Watts Bar Units 1 and 2 were in the Licensee Response Column (Column 1) for CY 2022.
- 5 Green NCVs was identified in CY 2022.
- All Performance Indicators were Green (no performance thresholds exceeded).

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- GovDelivery:

<https://service.govdelivery.com/accounts/USNRC/subscriber/new>

# Getting in Touch with the NRC

- Agency Website: [www.nrc.gov](http://www.nrc.gov)
- Questions/Information: 404-997-4417 or [OPA2.Resource@nrc.gov](mailto:OPA2.Resource@nrc.gov)
- Job Opportunities: 301-415-7400 or [www.usajobs.gov](http://www.usajobs.gov)
- Report a Safety or Security Concern
  - Emergency: 301-816-5100 (24-hr Headquarters Operation Center)
  - Non-Emergency: 1-800-695-7403 or [allegation@nrc.gov](mailto:allegation@nrc.gov)
- Contact NRC Resident Inspectors
  - Browns Ferry Phone: 404-997-5110
  - Sequoyah Phone: 404-997-5240
  - Watts Bar Phone: 404-997-5300



# Feedback is a Gift

- Public Meeting Feedback Form:
  - Navigate to the Public Meeting Schedule (recently held) and click the “Meeting Feedback” link for this meeting or press the “[...more]” link for this meeting and then click the “Meeting Feedback” link on the “Meeting Details” page.



QR CODE