

# **NORTH ANNA SURRY**

## **2021 Annual Assessment Meeting**

**Reactor Oversight Process**  
**Nuclear Regulatory Commission – Region II**

# Purpose



**Discuss licensee  
performance in 2021**



**Address Findings and  
Performance Indicators**



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

# Agenda

- Introductions
- NRC Mission Statement and Strategic Goals
- NRC Resident Inspector Program
- NRC COVID-19 Response
- Reactor Oversight Process Review
- Annual Assessment Summary
  - North Anna
  - Surry
- Questions/Answers

# Introductions

- North Anna Resident Inspectors
  - Kenya Carrington – Senior Resident Inspector
- Surry Resident Inspectors
  - Lou McKown – Senior Resident Inspector
  - Brian Towne – Resident Inspector
- Regional Personnel
  - Stewart Bailey – Branch Chief
  - Adam Wilson – Senior Project Engineer
  - Jamin Seat – Senior Project Engineer

# NRC Mission Statement and Strategic Goals



- 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
- Safety Strategic Goal – Ensure the safe use of radioactive materials
- Security Strategic Goal – Ensure the secure use of radioactive materials



# Resident Inspector Program

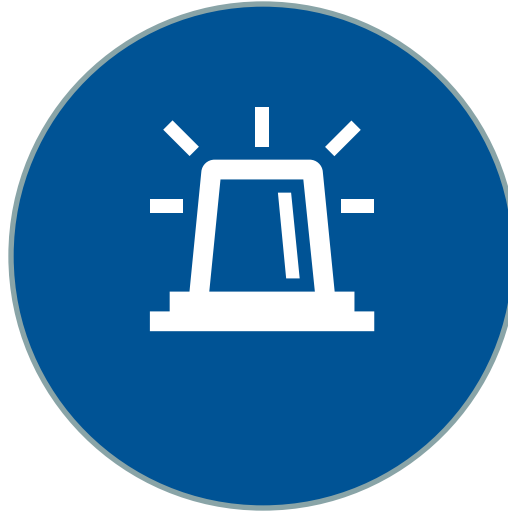
- Resident inspectors live in the communities they serve
- Perform inspections onsite at North Anna and Surry
- Provide daily oversight of plant activities, including the control room
- Routinely discuss safety concerns with plant personnel and senior management
- Observe emergency drills and provide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



# NRC Response to COVID-19



**Monitor plant activities  
through inspections &  
oversight**



**Maintain emergency  
response capabilities**



**Risk-inform  
"eyes on" inspections**

# NRC Response to COVID-19



**Expanded use of telework  
where appropriate**



**Maintained Continuity  
of Operations**

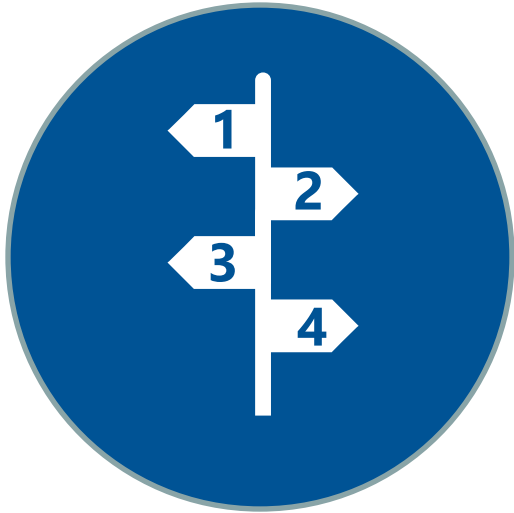


**Coordinated w/ industry  
on best practices**

**<https://www.nrc.gov/about-nrc/covid-19/index.html>**



# NRC Reactor Oversight Process



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

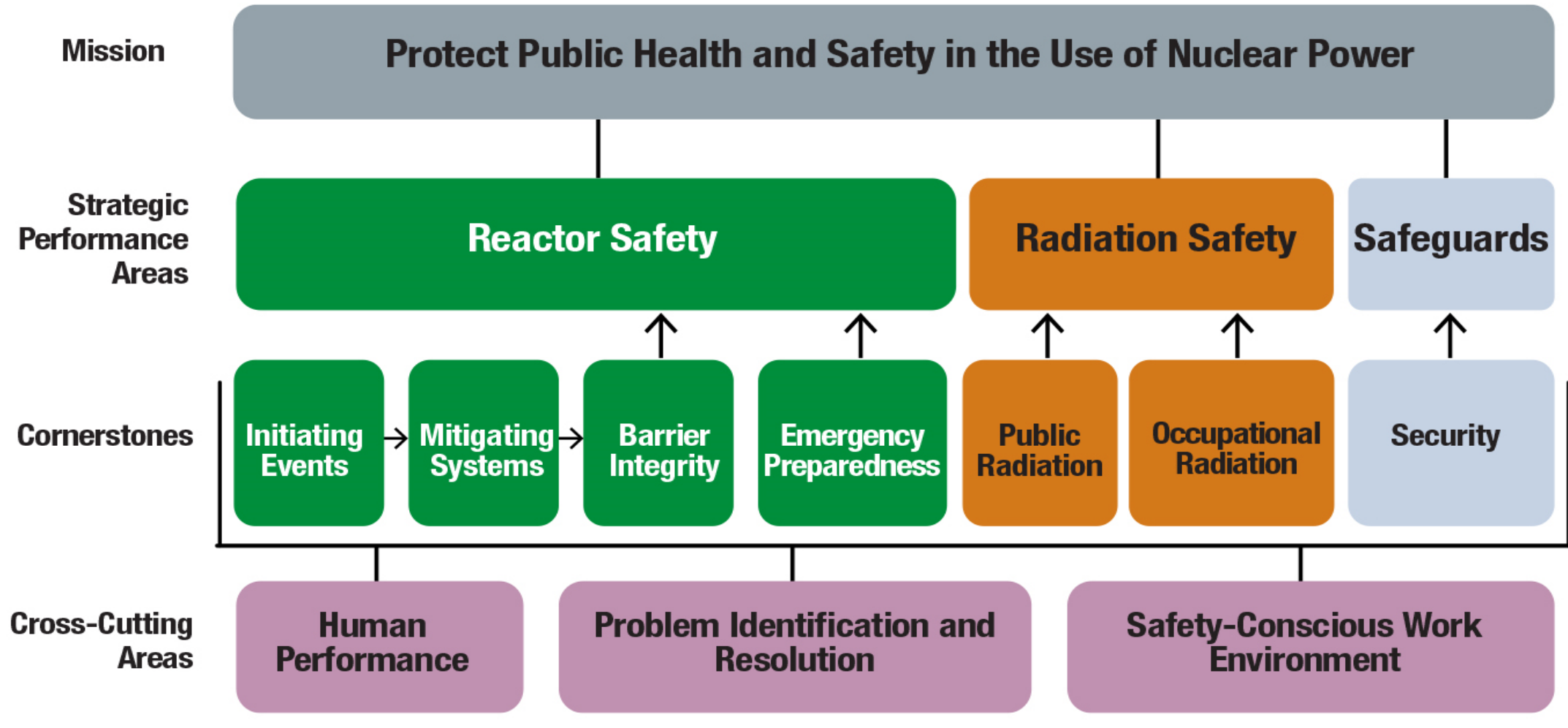


**Involves inspection and  
assessment activities**



**Executed by regional  
and resident inspectors**

# Reactor Oversight Framework



# Reactor Oversight Inputs and Oversight

**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>

**INCREASING NRC OVERSIGHT**

# NRC Annual Assessment Summary

## North Anna Power Station



# NRC Annual Assessment Summary

## North Anna Power Station

- Dominion/North Anna operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- North Anna Units 1 and 2 were in the Licensee Response Column of the NRCs ROP Action Matrix for all of 2021
- NRC plans to conduct routine baseline inspections at North Anna for 2022

# NRC Inspection Activities

## North Anna for 2021

- Approximately 6870 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections



# North Anna PIs and Findings

January 1 through December 31, 2021

- All Green Performance Indicators
- Ten Green / Severity Level IV inspection findings

## Reactor Oversight Action Matrix Performance Indicators

### Performance Indicators



Increasing Safety Significance →

### Inspection Findings



Increasing Safety Significance →

# NRC Inspection Findings

## North Anna (1 of 3)

- Failure to Perform Proper Maintenance Affecting Performance of Unit 1 Safety-Related Air Conditioning System (Inspection Report (IR) 2021004)
- Failure to Properly Preplan and Perform Maintenance Results in Main Control Room Chiller Trip (IR 2021004)
- Inadequate Calculation to Ensure Diesel Cooling System Met Pressure Transient Requirements (IR 2021010)
- Failure to Scope Safety-Related Motor Operated Valves (MOV) into the MOV test program (IR 2021010)

# NRC Inspection Findings

## North Anna (2 of 3)

- Inadequate Procedure for Handling Age Degraded Safety-Related Cable (IR 2021010)
- Unit 2 A Charging Pump Breaker Not In Fully Connected Position (IR 2021003)
- Condition Monitoring Inspection Failure of Unit 1 Main Condenser (IR 2021013)
- Reactor Coolant System Pressure Boundary Leakage Results in Condition Prohibited by Technical Specifications (IR 2021002)

# NRC Inspection Findings

## North Anna (3 of 3)

- Failure to Identify Surveillance Test Discrepancies Associated with the '1J' and '2J' Emergency Diesel Generators (IR 2021001)
- Failure to Implement Locking and Tagging Controls as Required by Regulatory Guide 1.33 (IR 2021001)

# Questions on North Anna?

**Senior Resident Inspector – [Kenya.Carrington@nrc.gov](mailto:Kenya.Carrington@nrc.gov) | 404.997.5193**

**Main Office – 404.997.5190**

# NRC Annual Assessment Summary

## Surry Power Station





# NRC Annual Assessment Summary

## Surry Power Station

- Dominion/Surry operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- Surry Unit 1 was in the Licensee Response Column of the NRC's ROP Action Matrix for all of 2021
- Surry Unit 2 was in the Regulatory Response Column of the NRC's ROP Action Matrix in the 1<sup>st</sup> quarter of 2021 due to one white finding issued in 2020. The finding was closed in December 2020, and Unit 2 returned to the Licensee Response Column starting in the 2<sup>nd</sup> quarter of 2021.
- NRC plans to conduct routine baseline inspections at Surry for 2022

# NRC Inspection Activities

## Surry Power Station for 2021

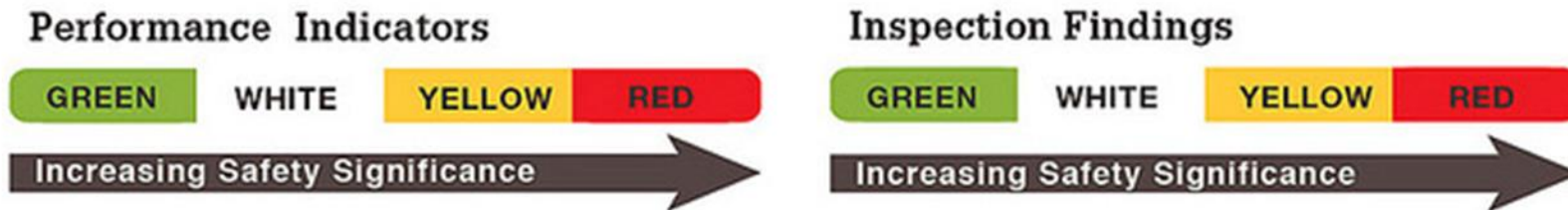
- Approximately 6872 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections

# Surry PIs and Findings

January 1 through December 31, 2021

- All Green Performance Indicators
- Six Green / Severity Level IV Inspection Findings

## Reactor Oversight Action Matrix Performance Indicators



# NRC Inspection Findings

Surry (1 of 2)

- Failure to Implement Spent Fuel Pool Instrumentation Equipment Functionality Requirements (IR 2021004)
- Inadequate Corrective Actions for Incorrect Operator Manual Action Step in Fire Contingency Action Operating Procedure (IR 2021011)
- Upender Failure Results in Unplanned Orange Risk Condition for Containment Key Safety Function (IR 2021003)

# NRC Inspection Findings

Surry (2 of 2)

- Failure of Siren Testing Program to Comply with the FEMA Alert and Notification System Design Report (IR 2021003)
- Transient Combustibles Stored in Restricted Area (IR 2021002)
- Failure to Perform Fire Protection Program Surveillances (IR 2021001)

# Questions on Surry?

**Senior Resident Inspector – [Louis.McKown@nrc.gov](mailto:Louis.McKown@nrc.gov) | 404.997.5261**

**Resident Inspector – [Brian.Towne@nrc.gov](mailto:Brian.Towne@nrc.gov) | 404.997.5263**

**Main Office – 404.997.5260**



# Getting in Touch with the NRC

- Website – [www.nrc.gov](http://www.nrc.gov)
- Report an Emergency – 301-816-5100
- Safety Concern or Allegations – 1-800-695-7403 | [allegation@nrc.gov](mailto:allegation@nrc.gov)
- Questions/Information – 404-997-4417 | [OPA2.Resource@nrc.gov](mailto:OPA2.Resource@nrc.gov)

# NRC Social Media

STAY CONNECTED



- Twitter: <https://twitter.com/nrcgov>
- Facebook: <https://www.facebook.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/>
- GovDelivery: <https://service.govdelivery.com/accounts/USNRC/subscriber/new>

# Questions and Feedback

## 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.

Nuclear Regulatory Commission | Region II  
April 20, 2022