

NORTH ANNA SURRY

2022 Annual Assessment Meeting

Reactor Oversight Process
Nuclear Regulatory Commission – Region II

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
- Annual Assessment Summary
 - North Anna
 - Surry
- Questions/Answers

Introductions

- North Anna Resident Inspectors
 - Kenya Carrington – Senior Resident Inspector
 - Daniel Turpin – Resident Inspector
- Surry Resident Inspectors
 - Silas Kennedy – Senior Resident Inspector
 - Brian Towne – Resident Inspector
- Regional Personnel
 - Matt Fannon – Branch Chief
 - Adam Wilson – Senior Project Engineer
 - Jamin Seat – Senior Project Engineer

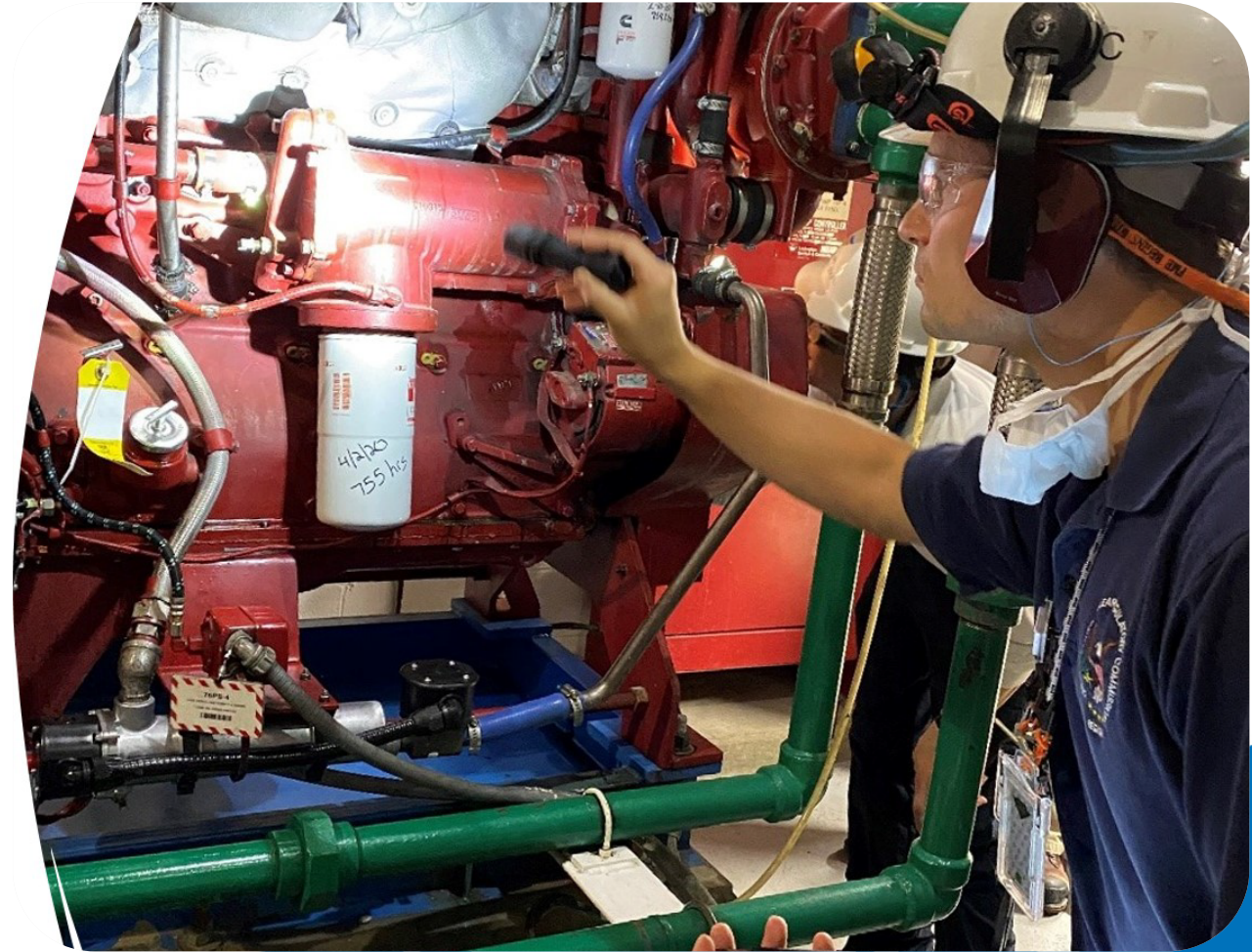
NRC Mission Statement and Strategic Goals



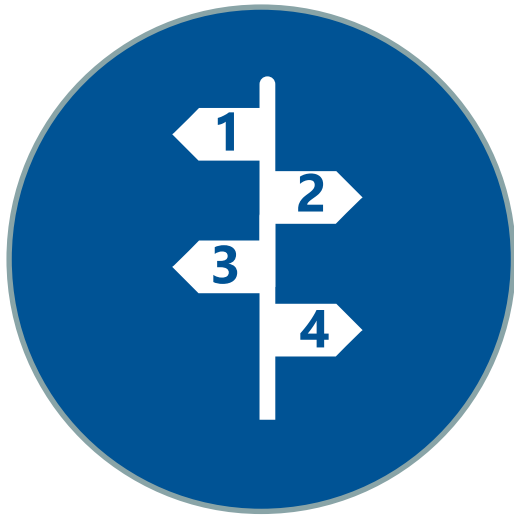
- The NRC licenses and regulates the Nation's civilian use of radioactive materials to provide reasonable assurance of adequate protection of public health and safety and to promote the common defense and security and to protect the environment
- Safety Strategic Goal – Ensure the safe use of radioactive 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 Reactor Oversight Process



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

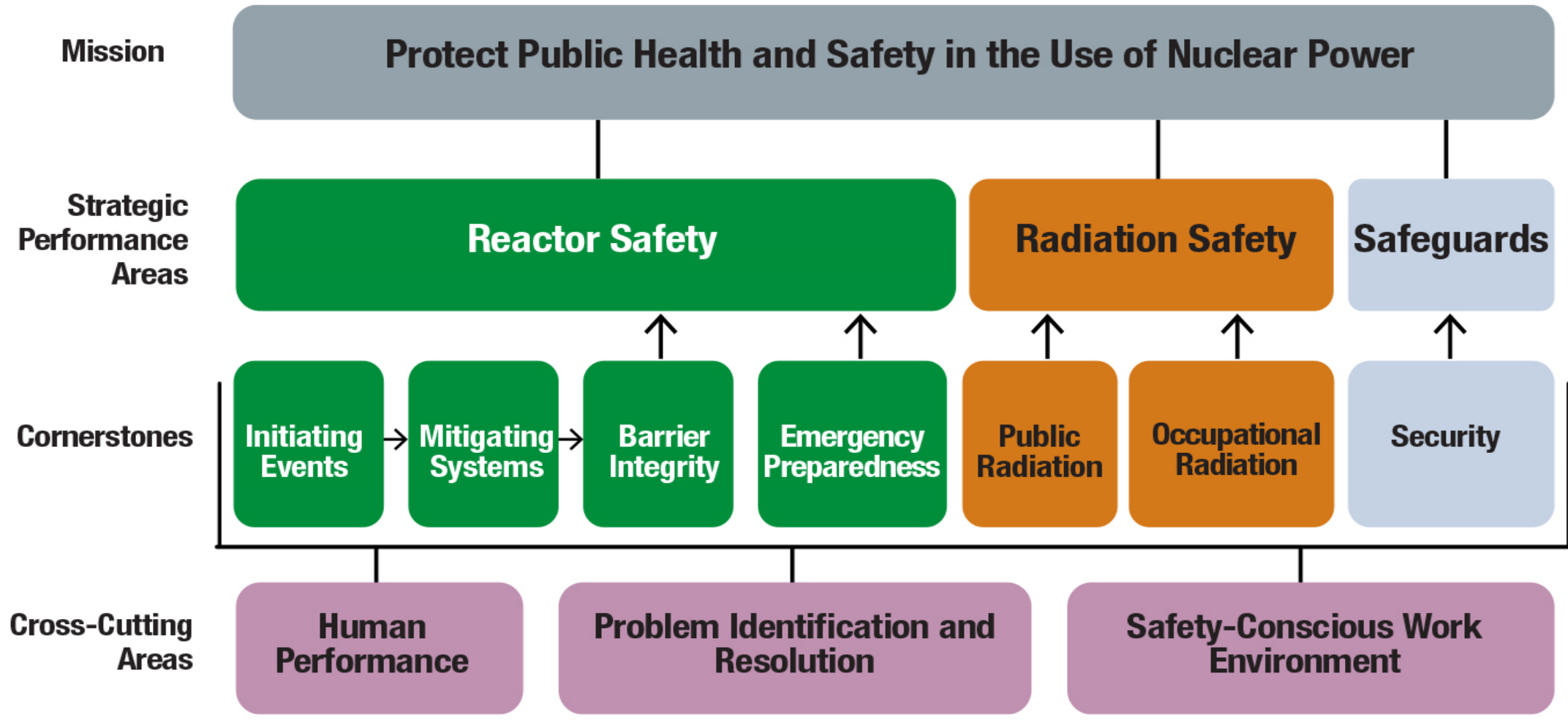


**Involves inspection and
assessment activities**



**Executed by regional
and resident inspectors**

Reactor Oversight Framework



Reactor Oversight Inputs and Oversight

INCREASING SAFETY SIGNIFICANCE

	GREEN	WHITE	YELLOW	RED
Performance Indicators	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
Findings	Very low safety or security significance	Low to moderate safety or security significance	Substantial safety or security significance	High safety or security significance
Oversight	Baseline Inspection	Requires additional NRC oversight	Requires more NRC oversight	Requires most NRC oversight

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 2022
- NRC plans to conduct routine baseline inspections at North Anna for 2023

NRC Inspection Activities

North Anna for 2022

- Approximately 5747 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 8 regional inspections

North Anna PIs and Findings

January 1 through December 31, 2022

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

Reactor Oversight Action Matrix Performance Indicators

Performance Indicators



Inspection Findings



NRC Inspection Findings

North Anna (1 of 2)

- Inadequate Cable Separation for Vital AC Bus Control Power and Monitoring Circuits (Inspection Report (IR) 2022001)
- Failure to Translate the Licensing Basis into Instructions for Fuel Handling Activities (IR 2022001)
- Failure to Verify the Effects of Overstressing the Backseat of Valves (IR 2022010)
- Failure to Address Faulted Conditions for Valve Analysis (IR 2022010)

NRC Inspection Findings

North Anna (2 of 2)

- Failure to Verify Adequacy of Assumptions (IR 2022003)
- Failure to Follow Procedure Results in 2J Emergency Diesel Generator Fuel Oil Transfer Pump Isolation Valve Being Closed During Performance Test (IR 2022003)
- One finding identified in the Security Cornerstone (IR 2022440)

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 Units 1 and 2 were in the Licensee Response Column of the NRC's ROP Action Matrix for all of 2022
- NRC plans to conduct routine baseline inspections at Surry for 2023

NRC Inspection Activities

Surry Power Station for 2022

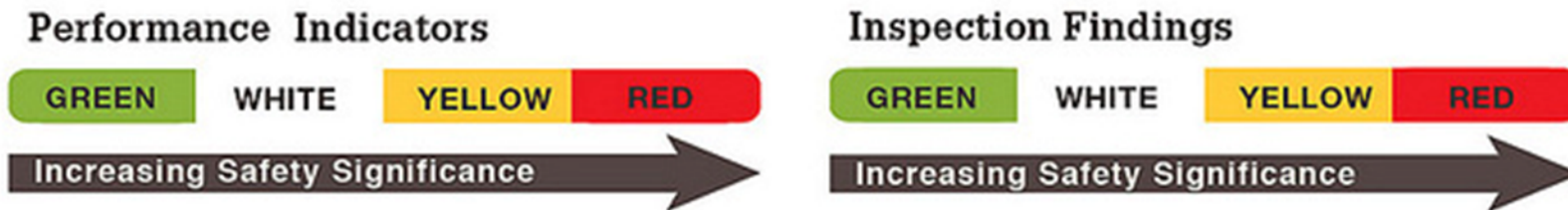
- Approximately 5501 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections

Surry PIs and Findings

January 1 through December 31, 2022

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

Reactor Oversight Action Matrix Performance Indicators



NRC Inspection Findings

Surry (1 of 3)

- Failure to Verify DC Crosstie Design (IR 2022010)
- Failure to Restore Turbine Driven Auxiliary Feedwater Pump Trip Hook Latch-up Mechanism in accordance with Operating and Test Procedures (IR 2022001)
- Transient Combustible Stored in a Restricted Area (IR 2022011)
- Forced Air Cooling to the Dry Shielded Canister and Transfer Cask annulus (IR 2022003)

NRC Inspection Findings

Surry (2 of 3)

- Boiling in the Dry Shielded Canister and Transfer Cask annulus (IR 2022003)
- Inadequate Cause Evaluation for #1 Emergency Diesel Generator Failure (IR 2022004)
- Failure to Manage Risk During "C" Reserve Station Service Transformer Maintenance (IR 2022004)
- Transient Combustible Stored in a Restricted Area (IR 2022004)

NRC Inspection Findings

Surry (3 of 3)



- Two findings identified in the Security Cornerstone (IR 2022404)

Questions for the NRC?

North Anna

Senior Resident Inspector – Kenya.Carrington@nrc.gov | 404.997.5193

Main Office – 404.997.5190

Surry

Senior Resident Inspector – Silas.Kennedy@nrc.gov | 404.997.5261

Main Office – 404.997.5260

Getting in Touch with the NRC

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

NRC Social Media

STAY CONNECTED



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- Facebook: <https://www.facebook.com/nrcgov/>
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- LinkedIn: <https://www.linkedin.com/company/u-s--nuclear-regulatory-commission/>
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Questions and Feedback

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Nuclear Regulatory Commission | Region II
May 9, 2023