

ML21090A098

V.C. SUMMER UNIT 1 NORTH ANNA SURRY

2020 Annual Assessment Meeting

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



Purpose



**Discuss licensee
performance in 2020**



**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
 - Summer
 - North Anna
 - Surry
- Questions/Answers

Introductions



- V. C. Summer Resident Inspectors
 - Carey (Mac) Read – Senior Resident Inspector
 - Eliza Hilton – Resident Inspector

- Regional Personnel
 - David Dumbacher – Branch Chief
 - Jeffrey Hamman – Senior Project Engineer
 - Adam Wilson – 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 Summer, North Anna, 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 urgent 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**



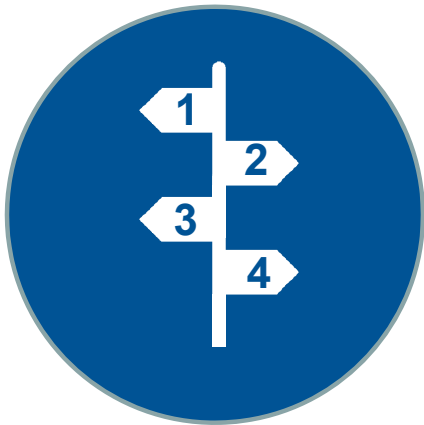
**Maintained Continuity
of Operations**



**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**

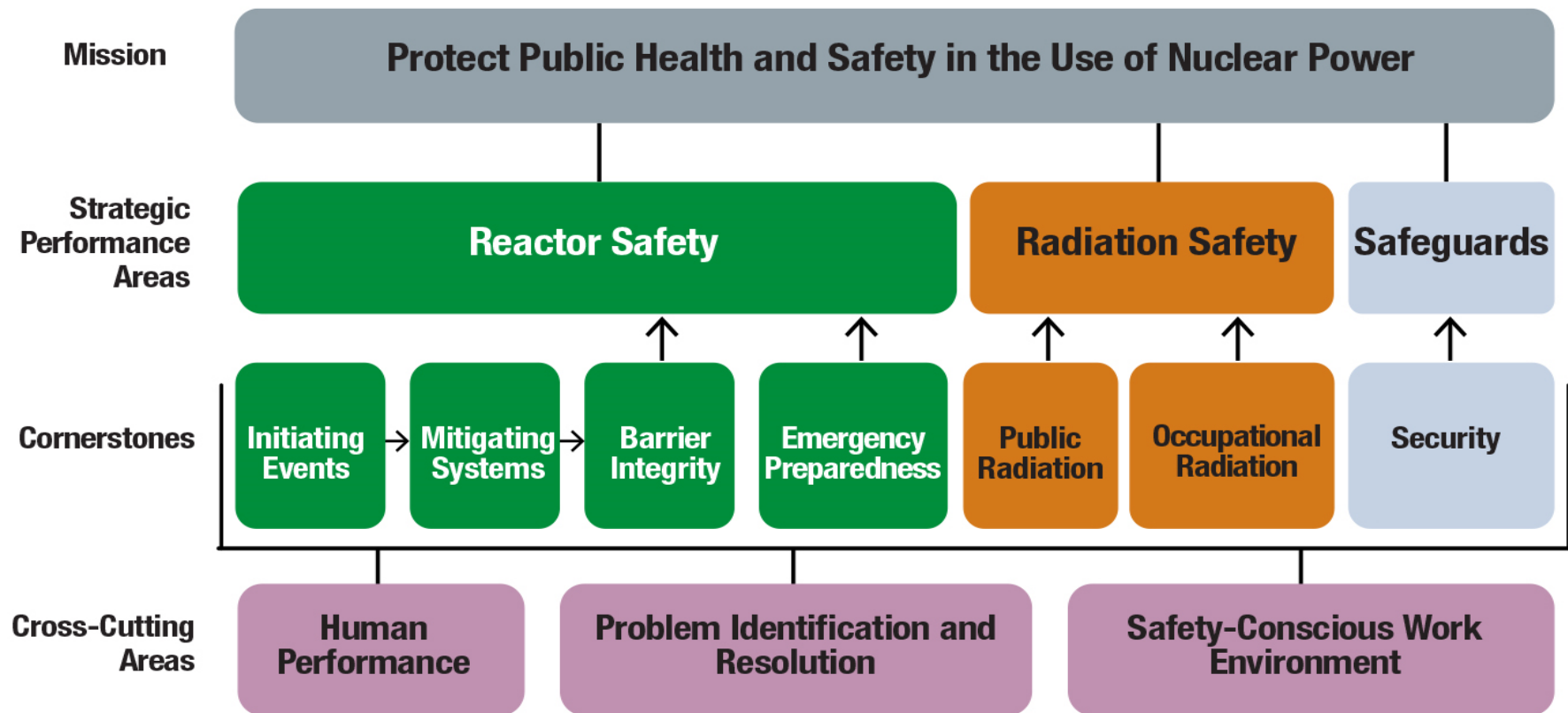


**Involves inspection and
assessment activities**



**Executed by regional
and resident inspectors**

Reactor Oversight Framework



Reactor Oversight Inputs and Oversight



INCREASING SAFETY SIGNIFICANCE

	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

V. C. Summer Unit 1



NRC Annual Assessment Summary

V.C. Summer



- Dominion Energy/V.C. Summer operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- V.C. Summer was in the Licensee Response Column of the NRC's ROP Action Matrix for all of 2020
- NRC plans to conduct routine baseline inspections at V. C. Summer for 2021

NRC Inspection Activities

V.C. Summer for 2020



- Approximately 6370 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 9 regional inspections

V.C. Summer PIs and Findings

January 1 through December 31, 2020



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

Reactor Oversight Action Matrix Performance Indicators



NRC Inspection Findings

V. C. Summer



- Failure to assess and manage the increase in risk from proposed maintenance activities during yellow shutdown risk (Inspection Report (IR) 2020002)
- Failure to implement procedures for refueling preparations resulting in unanticipated elevated risk condition (IR 2020002)
- Inadequate procedures and actions following safety-related charging pump failure to start (IR 2020001)

Questions on V. C. Summer?

Senior Resident Inspector – Carey.Read@nrc.gov | 404.997.5251

Resident Inspector – Eliza.Hilton@nrc.gov | 404.997.5253

Main Office – 404.997.5250

NRC Annual Assessment Summary

North Anna



NRC Annual Assessment Summary

North Anna



- Dominion/North Anna operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- North Anna was in the Licensee Response Column of the NRCs ROP Action Matrix for all of 2020
- NRC plans to conduct routine baseline inspections at North Anna for 2021

NRC Inspection Activities

North Anna for 2020



- Approximately 5260 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 9 regional inspections

North Anna PIs and Findings

January 1 through December 31, 2020



- All Green Performance Indicators
- Two Green / Severity Level IV inspection findings – Security Cornerstone

Reactor Oversight Action Matrix Performance Indicators

Performance Indicators



Increasing Safety Significance →

Inspection Findings



Increasing Safety Significance →

Questions on North Anna?

Senior Resident Inspector – Margaret.Tobin@nrc.gov | 404.997.5191

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

Main Office – 404.997.5190

NRC Annual Assessment Summary

Surry



NRC Annual Assessment Summary

Surry Nuclear Plant



- 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 2020
- Surry Unit 2 entered the Regulatory Response Column of the NRC's ROP Action Matrix in the 2nd quarter of 2020
- NRC plans to conduct routine baseline inspections at Surry for 2021

NRC Inspection Activities

Surry Nuclear Plant for 2020



- Approximately 5650 hours of inspection and related activities
- 2 resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections
 - Unit 2 95001 Supplemental Inspection Completed

Surry PIs and Findings

January 1 through December 31, 2020



- All Green Performance Indicators
- Three Green / Severity Level IV inspection findings
- One White finding

Reactor Oversight Action Matrix Performance Indicators



NRC Inspection Findings

Surry



- Lift of Unit 2 'B' Pressurizer Safety Relief Valve while Partially Installed in System (Inspection Report (IR) 2020002)
- Alarm Response to Loss of Normal Containment Cooling (IR 2020004)
- Failure to Identify Auxiliary Feedwater Header Drain Line Seismic Interference (IR 2020004)

NRC Inspection Findings cont'd

Surry



- Failure to Implement the ASME Operation and Maintenance Code Inservice Testing Program for Pumps and Valves Leads to a Failure of the Turbine Driven Auxiliary Feedwater Pump (IR 2020090, 91 - White)
 - 95001 Supplemental Inspection –
 - IR 2020040, dated December 30, 2020 (ML20365A007)
 - Inspectors determined the licensee performed an adequate evaluation of the specific performance issue and that comprehensive corrective actions were completed or planned to address each of the specific causes
 - This finding is closed

Questions on Surry?

Senior Resident Inspector – Louis.McKown@nrc.gov | 404.997.5261

Resident Inspector – Brian.Towne@nrc.gov | 404.997.5263

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/>
- 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:

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Nuclear Regulatory Commission | Region II

April 22, 2021