

# BRUNSWICK HARRIS

## 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
  - Brunswick
  - Harris
- Questions/Answers

# Introductions

- Brunswick Resident Inspectors
  - Galen Smith – Senior Resident Inspector
  - Coleman Curran – Resident Inspector
- Harris Resident Inspectors
  - John Zeiler – Senior Resident Inspector
  - Casey Smith – Resident Inspector
- Regional Personnel
  - Stewart Bailey – Branch Chief
  - Jamin Seat – Senior Project Engineer
  - Adam Wilson – 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 Brunswick and Harris
- 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**



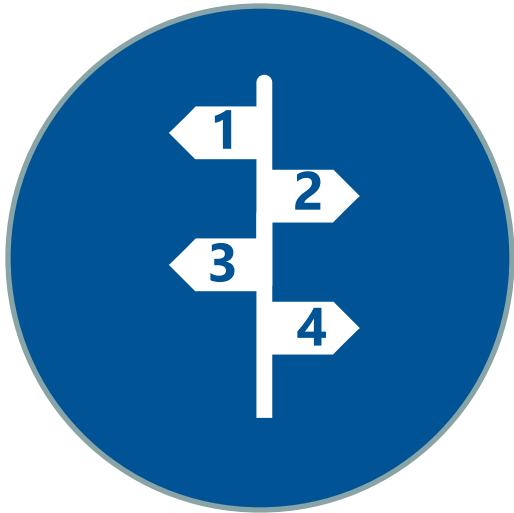
**Maintained Continuity  
of Operations**



**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**

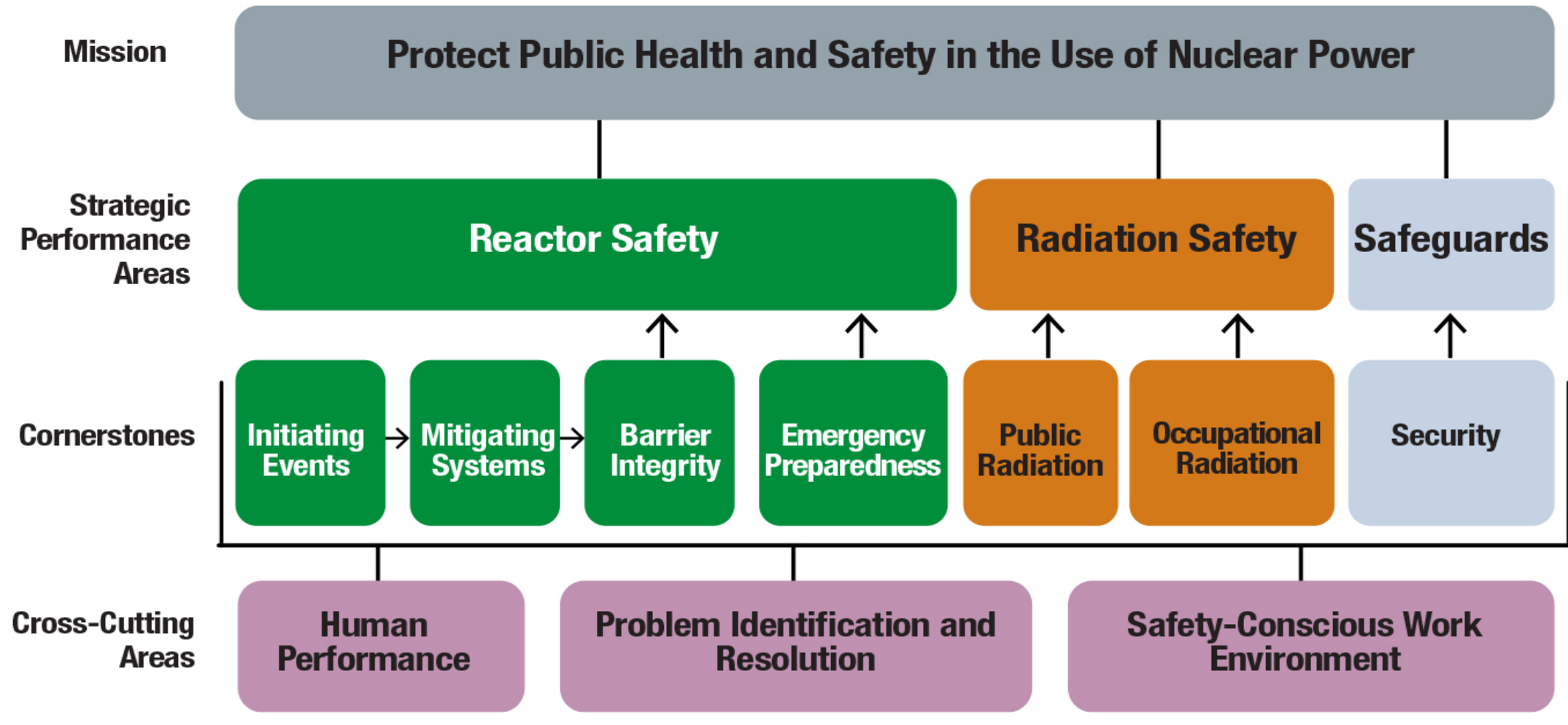


**Involves inspection and  
assessment activities**



**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

## Brunswick Steam Electric Plant



# NRC Annual Assessment Summary

## Brunswick

- Duke Energy/Brunswick operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- Brunswick was in the Licensee Response Column of the NRC's ROP Action Matrix for all of 2021
- NRC plans to conduct routine baseline inspections at Brunswick for 2022

# NRC Inspection Activities

## Brunswick for 2021

- Approximately 5185 hours of inspection and related activities
- Resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections

# Brunswick PIs and Findings

January 1 through December 31, 2021

- All Green Performance Indicators
- Five 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

## Brunswick

- Failure to Promptly Analyze Laboratory Surveillance Data Results in a Condition Prohibited by Technical Specifications (Inspection Report (IR) 2021004)
- Failure to Identify a Condition Adverse to Quality Associated With the Diesel Generator No. 4 Recirculation Damper (IR 2021003)
- Inappropriate 10 CFR 50, Appendix J, Type C Test Exclusion (IR 2021003)
- Hardened Containment Vent System Preventative Maintenance not Performed Within Periodicity (IR 2021010)
- Inadequate Maintenance Procedure for Service Water Bay Inspections and Cleaning (IR 2021001)

# Questions on Brunswick?

Senior Resident Inspector - [Galen.Smith@nrc.gov](mailto:Galen.Smith@nrc.gov)

Resident Inspector – [Coleman.Curran@nrc.gov](mailto:Coleman.Curran@nrc.gov)

Main Office - 404.997.5120

# NRC Annual Assessment Summary

## Shearon Harris Nuclear Power Plant



# NRC Annual Assessment Summary

## Harris



- Duke Energy/Harris operated the plant safely and in a manner that preserved the public health and safety and protected the environment
- Harris was in the Licensee Response Column of the NRC's ROP Action Matrix for all of 2021
- NRC plans to conduct routine baseline inspections at Harris for 2022

# NRC Inspection Activities

## Harris for 2021



- Approximately 4925 hours of inspection and related activities
- Resident inspectors assigned for onsite inspection coverage throughout the year
- 8 regional inspections

# Harris Pls and Findings

January 1 through December 31, 2021

- All Green Performance Indicators
- Four 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

Harris

- Automatic Reactor Trip Due to Electrical Fault on Non-Segregated Bus from Unit Auxiliary Transformer 1B (Inspection Report (IR) 2021003)
- Pressurizer Safety Valve Outside of Technical Specification Limits Due to Unintended Re-installation of Refurbished Valve with Known Excessive Setpoint Drift (IR 2021003)
- Unit Entered Mode of Applicability with All Three Safety Injection Accumulators Isolated (IR 2021003)
- Failure to Adequately Resolve Fire Safety Hazards Involving Recalled Surge Protectors (IR 2021001)

# Questions on Harris?

Senior Resident Inspector - [John.Zeiler@nrc.gov](mailto:John.Zeiler@nrc.gov)

Resident Inspector – [Casey.Smith@nrc.gov](mailto:Casey.Smith@nrc.gov)

Main Office - 404.997.5150

# 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 – [OPA2.Resource@nrc.gov](mailto:OPA2.Resource@nrc.gov) or 404-997-4417

# 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:

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Nuclear Regulatory Commission | Region II

April 27, 2022