

ML21090A11610

BRUNSWICK HARRIS 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
 - Brunswick
 - Harris
- Questions/Answers

Introductions



• Brunswick Resident Inspectors

- Galen Smith – Senior Resident Inspector
- Mark Schwieg/*Coleman Curran* – Resident Inspector

• Harris Resident Inspectors

- John Zeiler – Senior Resident Inspector
- *Casey Smith* – Resident Inspector

• Regional Personnel

- Stewart Bailey – Branch Chief
- Phil Niebaum – Senior Project Engineer
- Donna Jackson – 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, 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 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**



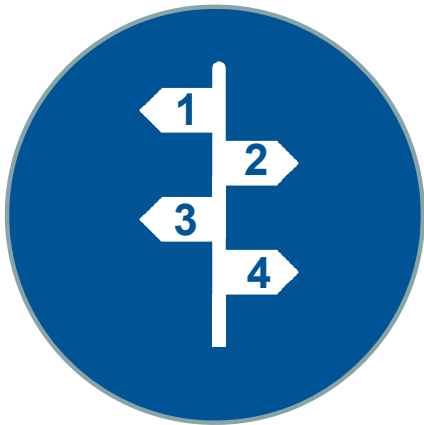
**Maintained Continuity
of Operations**



**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**



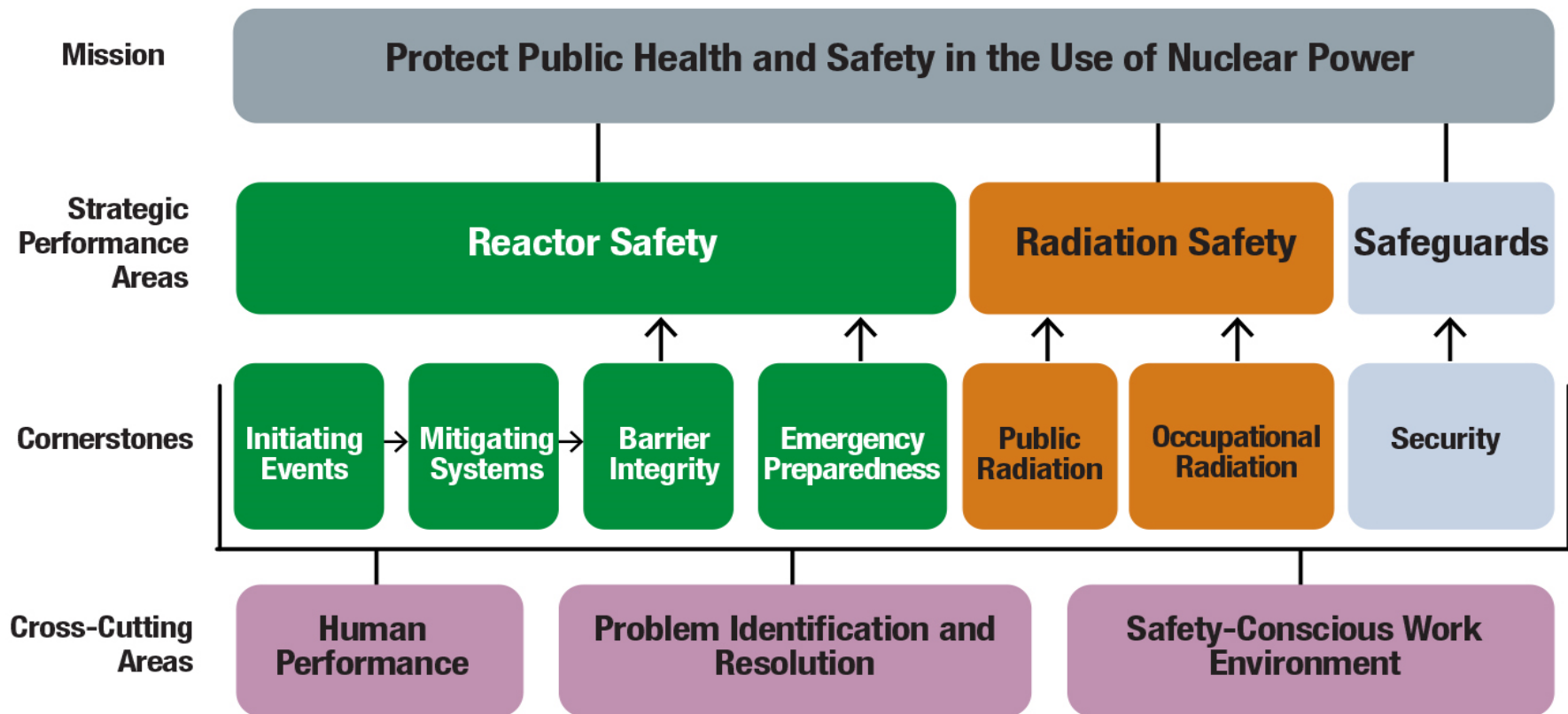
**Involves inspection and
assessment activities**



**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



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 2020
- NRC plans to conduct routine baseline inspections at Brunswick for 2021

NRC Inspection Activities Brunswick for 2020



- Approximately 5780 hours of inspection and related activities
- Resident inspectors assigned for onsite inspection coverage throughout the year
- 10 regional inspections

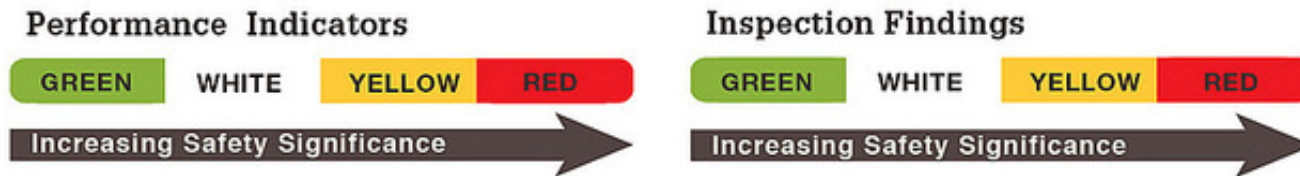
Brunswick PIs and Findings

January 1 through December 31, 2020



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

Reactor Oversight Action Matrix Performance Indicators



NRC Inspection Findings

Brunswick



- Failure to Provide Adequate High Pressure Coolant Injection Preventive Maintenance Procedures (Inspection Report (IR) 2020003)
- Inadequate Procedure Leads to the Unexpected Opening of all Main Steam Bypass Valves (IR 2020002)
- Failure to Comply with Radiation Work Permit Requirements (IR 2020001)
- Failure to Correct Non-Cited Violations for Motor-Operated Valve (IR 2020001)

Questions on Brunswick?

Senior Resident Inspector - Galen.Smith@nrc.gov

Resident Inspector - Mark.Schwieg@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 2020
- NRC plans to conduct routine baseline inspections at Harris for 2021

NRC Inspection Activities

Harris for 2020



- Approximately 5130 hours of inspection and related activities
- Resident inspectors assigned for onsite inspection coverage throughout the year
- 11 regional inspections

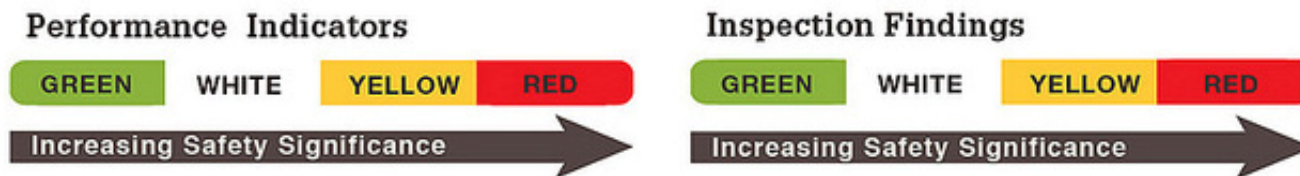
Harris PIs and Findings

January 1 through December 31, 2020



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

Reactor Oversight Action Matrix Performance Indicators



NRC Inspection Findings

Harris



- Inadequate Surveillance Procedure for Control Rod Testing (Inspection Report (IR) 2020004)
- Failure to Identify and Correct a Condition Adverse to Quality Associated with a Source Range Nuclear Instrument (IR 2020011)
- Failure to Implement Adequate Procedure for Replacing a Turbine Electro-Hydraulic Solenoid Valve (IR 2020003)
- Inoperability of 'B' Train ESCW Chiller Due to Trip on High Compressor Oil Temperature (IR 2020002)
- Failure to Identify and Correct Condition Adverse to Quality on Safety-Related Emergency Battery Terminals (IR 2020001)

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 – 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 on Harris?

Senior Resident Inspector - John.Zeiler@nrc.gov
Main Office - 404.997.5150

Questions and Feedback



Public Meeting Feedback Form:

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Nuclear Regulatory Commission | Region II

April 21, 2021