H.B. Robinson Steam Electric Plant Unit 2
2022 Annual Assessment Meeting

Reactor Oversight Process
Nuclear Regulatory Commission – Region 2
April 12, 2023

U.S.NRC
United States Nuclear Regulatory Commission
Protecting People and the Environment

Meeting's Purpose

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Discuss licensee performance in 2022

Address Findings and Performance Indicators

Information Meeting with a Q&A Session

Agenda

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- Introductions
- NRC Mission Statement and Strategic Goals
- NRC Resident Inspector Program
- Reactor Oversight Process Review
- Annual Assessment Summary
- Question and Answer Session

Introductions

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- H. B. Robinson Resident Inspectors
  - John Zeiler – Senior Resident Inspector
  - Vanna Gaffney – Resident Inspector

- Regional Personnel
  - David Dumbacher – Branch Chief
  - David Gasperson – Public Affairs Officer

NRC Mission Statement

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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, to promote the common defense and security, and to protect the environment.

NRC Strategic Goals

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1) Ensure the safe and secure use of radioactive materials
2) Continue to foster a healthy organization
3) Inspire stakeholder confidence in the NRC

Resident Inspector Program

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- Resident inspectors live in the communities they serve
- Perform onsite inspections
- 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

Reactor Oversight Process (ROP)

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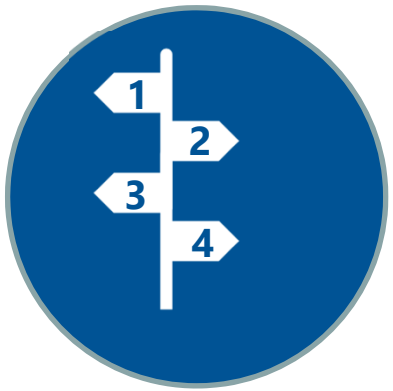

Implemented in each of the NRC's four regions

Involves inspection and assessment activities

Executed by regional and resident inspectors

ROP Framework

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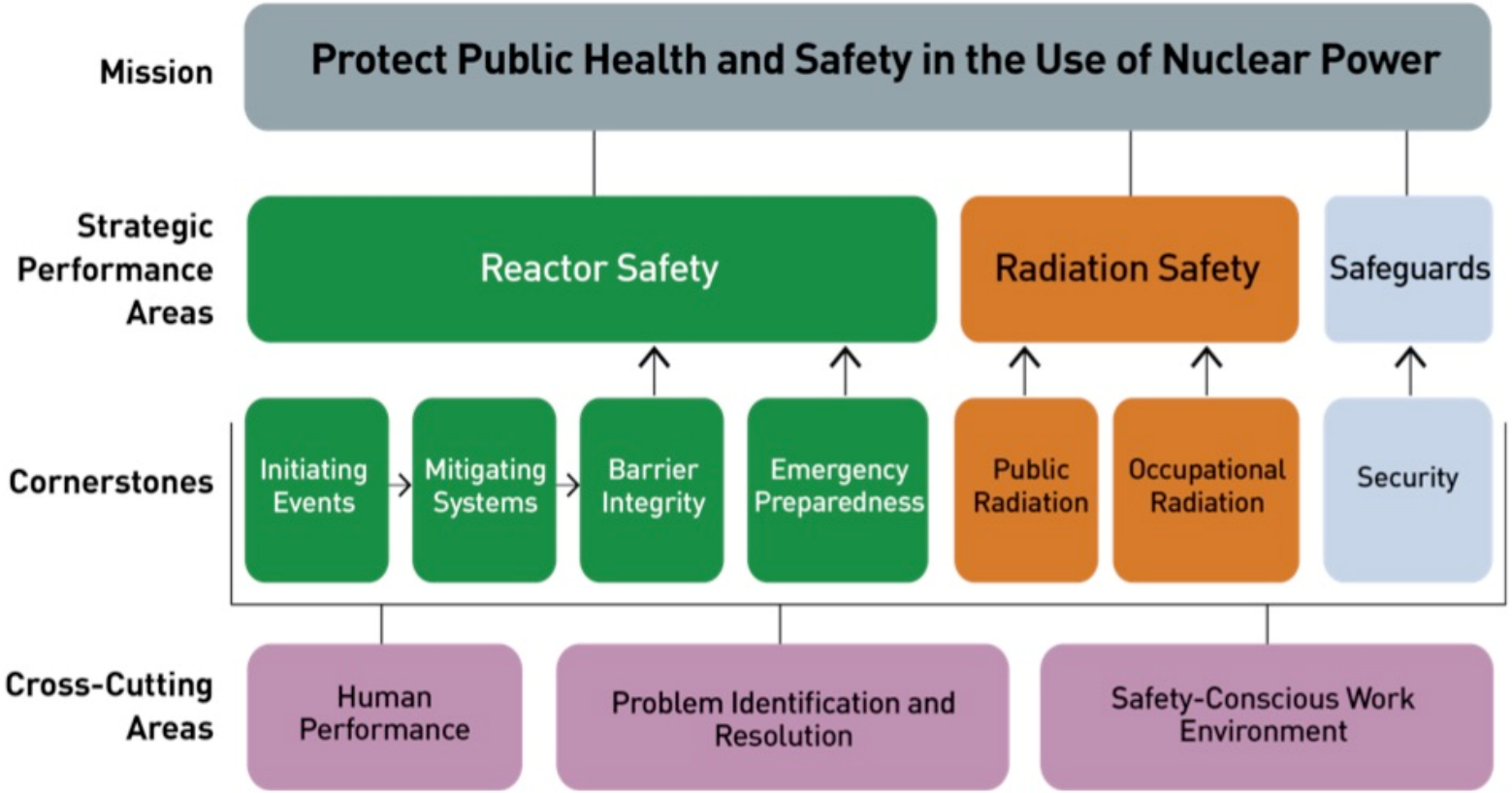

ROP Assessment Inputs

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Inspection Findings

- NRC develops findings from inspections
- Findings evaluated for safety significance using a significance determination process

GREEN	Very low safety or security significance finding
WHITE	Low to moderate safety or security significance finding
YELLOW	Substantial safety or security significance finding
RED	High safety or security significance finding

ROP Assessment Inputs

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Performance Indicators (PIs)

- Licensees collect PI data (17 PIs total)
- PI data reported to the NRC quarterly
- PI data evaluated & integrated with inspection findings to develop NRC's assessment of licensee performance

GREEN	Performance within an expected level
WHITE	Performance outside expected range
YELLOW	Minimal reduction in the safety margin
RED	Signals a significant reduction in safety margin in the area measured

Action Matrix Concept

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Licensee Response (Column 1)	Regulatory Response (Column 2)	Degraded Performance (Column 3)	Multiple/Repetitive Degraded Cornerstone (Column 4)	Unacceptable Performance (Column 5)

Increasing:

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action

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NRC Annual Assessment Summary

H.B. Robinson Steam Electric Plant, Unit 2

NRC Annual Assessment Summary

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- Duke operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- H.B. Robinson was in the Licensee Response Column of the NRCs ROP Action Matrix for the entire 2022 assessment period.
- NRC plans to conduct routine baseline inspections at H.B. Robinson in 2023.

NRC Inspection Activities

H.B. Robinson for 2022

- Approximately 3,400 hours of direct inspection and related activities
- Two resident inspectors on site; residents perform daily oversight activities and document baseline inspection results on a quarterly basis
- Ten regional inspections, including:
  - Operator Initial License Examination
  - Problem Identification and Resolution Inspection
  - Emergency Preparedness Program Inspection
  - Design Basis Assurance Inspection
  - Security Baseline Inspection

H.B. Robinson PIs and Findings

January 1 through December 31, 2022

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- All Green Performance Indicators
- Three Green inspection findings

NRC Inspection Findings

H.B. Robinson

Three findings of very low safety significance (Green)

- Inspection Report 2022-011
  - Boric Acid Leak on Reactor Coolant Pump Flange due to Inadequate Control of Test Equipment
  - Failure to Establish Preventive Maintenance Activities that can Affect Safety-Related Equipment at Recommended Frequency
- Inspection Report 2022-004
  - Failure to identify/evaluate an indication per ASME Section XI code

Getting in Touch with the NRC

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- General information or questions
  - NRC Public Website – www.nrc.gov
  - Region II Public Affairs
    404-997-4417 | OPA2.Resource@nrc.gov
- Report an Emergency
  - 301-816-5100 (collect calls accepted)
- Safety Concern or Allegations
  - 1-800-695-7403 | Allegation@nrc.gov

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Questions about H.B. Robinson?

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NRC Social Media

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- Facebook: https://www.facebook.com/nrcgov/
- Instagram: https://www.instagram.com/nrcgov
- Twitter: https://twitter.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/mycompany/
- GovDelivery: https://service.govdelivery.com/accounts/USNRC/subscriber/new

Questions and Feedback

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Nuclear Regulatory Commission | Region II

April 12, 2023