



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

April 27, 2010

Mr. Eric McCartney  
Vice President  
Carolina Power and Light Company  
H.B. Robinson Steam Electric Plant Unit 2  
3581 West Entrance Road  
Hartsville, SC 29550

SUBJECT: MEETING SUMMARY - CATEGORY 1 PUBLIC MEETING - ANNUAL  
ASSESSMENT OF H. B. ROBINSON STEAM ELECTRIC PLANT, DOCKET NO.  
50-261

Dear Mr. McCartney:

This refers to the meeting conducted at our request at the Hartsville Public Library on April 21, 2010, at 6:30 pm. The meeting's purpose was to discuss the NRC Reactor Oversight Process Annual Assessment of H.B. Robinson Steam Electric Plant Unit 2.

The topics discussed included the reactor oversight process, the NRC's action matrix and the performance of the Robinson Nuclear Plant.

Enclosed are a list of attendees and the presentation handouts.

In accordance with Section 2.390 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agency wide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this meeting, please contact me at (404) 997-4603.

Sincerely,

/RA/

Randall A. Musser, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket No.: 50-261  
License No.: DPR-23

Enclosures: 1. List of Attendees  
2. Handout- H. B. Robinson Steam Electric Plant - Annual Assessment Meeting

cc w/encl.: (See page 2)

April 27, 2010

Mr. Eric McCartney  
Vice President  
Carolina Power and Light Company  
H.B. Robinson Steam Electric Plant Unit 2  
3581 West Entrance Road  
Hartsville, SC 29550

SUBJECT: MEETING SUMMARY - CATEGORY 1 PUBLIC MEETING - ANNUAL ASSESSMENT OF H. B. ROBINSON STEAM ELECTRIC PLANT, DOCKET NO. 50-261

Dear Mr. McCartney:

This refers to the meeting conducted at our request at the Hartsville Public Library on April 21, 2010, at 6:30 pm. The meeting's purpose was to discuss the NRC Reactor Oversight Process Annual Assessment of H.B. Robinson Steam Electric Plant Unit 2.

The topics discussed included the reactor oversight process, the NRC's action matrix and the performance of the Robinson Nuclear Plant.

Enclosed are a list of attendees and the presentation handouts.

In accordance with Section 2.390 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agency wide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this meeting, please contact me at (404) 997-4603.

Sincerely,

/RA/

Randall A. Musser, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket Nos.: 50-261  
License Nos.: DPR-23

Enclosures: 1. List of Attendees  
2. Handout- H. B. Robinson Steam Electric Plant - Annual Assessment Meeting

cc w/encl.: (See page 2)

X PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      X NON-SENSITIVE  
ADAMS: XYes      ACCESSION NUMBER: ML101170334      X SUNSI REVIEW      RAM

|              |            |            |            |          |          |          |          |
|--------------|------------|------------|------------|----------|----------|----------|----------|
| OFFICE       | RII:DRP    | RII:DRP    | RII:DRP    |          |          |          |          |
| SIGNATURE    | JGW1       | GJW        | RAM        |          |          |          |          |
| NAME         | JWorosilo  | GWilson    | RMusser    |          |          |          |          |
| DATE         | 04/22/2010 | 04/27/2010 | 04/27/2010 |          |          |          |          |
| E-MAIL COPY? | YES   NO   | YES   NO   | YES   NO   | YES   NO | YES   NO | YES   NO | YES   NO |

OFFICIAL RECORD COPY      DOCUMENT NAME: S:\DRP\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2009\END-OF-CYCLE\RPB4\ROBINSON\ROBINSON MEETING NOTICE SUMMARY EOC 2009 WITH SLIDES.DOC

cc w/encl:

Eric McCartney, Vice President  
H. B. Robinson Steam Electric Plant Unit 2  
Carolina Power & Light Company  
Electronic Mail Distribution

R. J. Duncan, II, Vice President  
Nuclear Operations  
Carolina Power & Light Company  
Electronic Mail Distribution

Brian C. McCabe  
Manager, Nuclear Regulatory Affairs  
Progress Energy Carolinas, Inc.  
Electronic Mail Distribution

Christos Kamilaris, Director  
Fleet Support Services  
Carolina Power & Light Company  
Electronic Mail Distribution

Curt A. Castell, Supervisor  
Licensing/Regulatory Programs  
Carolina Power & Light Company  
Electronic Mail Distribution

B. C. White, Manager  
Support Services - Nuclear  
Carolina Power & Light Company  
Electronic Mail Distribution

S. D. West  
Superintendent Security  
H. B. Robinson Steam Electric Plant  
Progress Energy  
Electronic Mail Distribution

Joseph W. Donahue  
Vice President  
Nuclear Oversight  
Carolina Power and Light Company  
Electronic Mail Distribution

David T. Conley  
Associate General Counsel  
Legal Dept.  
Progress Energy Service Company, LLC  
Electronic Mail Distribution

John H. O'Neill, Jr.  
Shaw, Pittman, Potts & Trowbridge  
2300 N. Street, NW  
Washington, DC 20037-1128

Susan E. Jenkins  
Director, Division of Waste Management  
Bureau of Land and Waste Management  
S.C. Department of Health and  
Environmental Control  
Electronic Mail Distribution

Scott Saunders  
Plant General Manager  
Carolina Power & Light Company  
Electronic Mail Distribution

Robert P. Gruber  
Executive Director  
Public Staff - NCUC  
4326 Mail Service Center  
Raleigh, NC 27699-4326

W. Lee Cox, III, Section Chief  
Radiation Protection Section  
N.C. Department of Environmental  
Commerce & Natural Resources  
Electronic Mail Distribution

Public Service Commission  
State of South Carolina  
P.O. Box 11649  
Columbia, SC 29211

R. Mike Gandy  
Division of Radioactive Waste Mgmt.  
S.C. Department of Health and  
Environmental Control  
Electronic Mail Distribution

Chairman  
North Carolina Utilities Commission  
Electronic Mail Distribution

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
H. B. Robinson Steam Electric Plant  
2112 Old Camden Rd  
Hartsville, SC 29550

CP&L

3

Letter to E. McCartney from Randall A. Musser dated April 27, 2010

SUBJECT: MEETING SUMMARY - CATEGORY 1 PUBLIC MEETING - ANNUAL  
ASSESSMENT OF H. B. ROBINSON STEAM ELECTRIC PLANT, DOCKET NO.  
50-261

Distribution w/encl:

C. Evans, RII

L. Slack, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMRobinson Resource



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
245 PEACHTREE CENTER AVENUE NE SUITE 1200  
ATLANTA, GEORGIA 30303-1257

H.B. Robinson Annual Assessment  
Public Meeting  
Hartsville, SC  
April 21, 2010

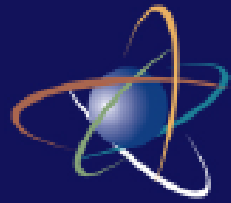
| <u>Name (Print)</u>   | <u>Title and Organization</u>                   |
|-----------------------|-------------------------------------------------|
| ANDY COLE             | Communications, P.E.                            |
| Thomas H. McKinney    | SC DHEC                                         |
| Curt Cestelli         | Supv. Licensing RNP                             |
| Robert Haag           | NRC RTI                                         |
| Daniel Mills          | NRC/NRO                                         |
| Heather Bollock       | Citizen                                         |
| JIM FAILE             | THE MESSENGER                                   |
| Albert Klitz          | AREVA, Key Account Mgr                          |
| Shirley Rebold        | Attorney, Office of Regulatory Staff            |
| Michael Cartin        | Electric Specialist, Office of Regulatory Staff |
| Michael Seaman-Haynes | Electric Specialist, SC ORS                     |
| Scott Saunders        | Plant Mgr - Robinson                            |
| Brian McCabe          | Reg Affairs Mgr - Progress                      |
| Eric McCartney        | Site Vice President - RNP                       |
| Dottie McCartney      | Citizen                                         |
| GARRETT SANDERS       | PG&E                                            |
| Mindy Taylor          | Mgr - Comm. Rel, Progress Energy                |
| RANDY MUSSER          | BC, NRC                                         |
| JIM HICKEY            | SRI, NRC                                        |
| DOUG BOLLOCK          | RI, NRC                                         |
| ROGER HANNAH          | RTI, NRC                                        |

# ***H. B. Robinson Annual Assessment Meeting***

**Reactor Oversight Program - 2009**

---

**Nuclear Regulatory Commission - Region II  
Hartsville, South Carolina  
April 21, 2010**



## ***Purpose of Today's Meeting***

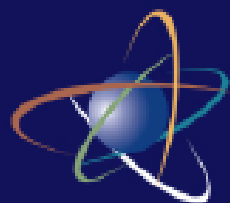
- A public forum for discussion of the licensee's performance in 2009
- NRC will address the performance issues identified in the annual assessment letter
- Licensee will be given the opportunity to respond and inform the NRC of new or existing programs to maintain or improve performance



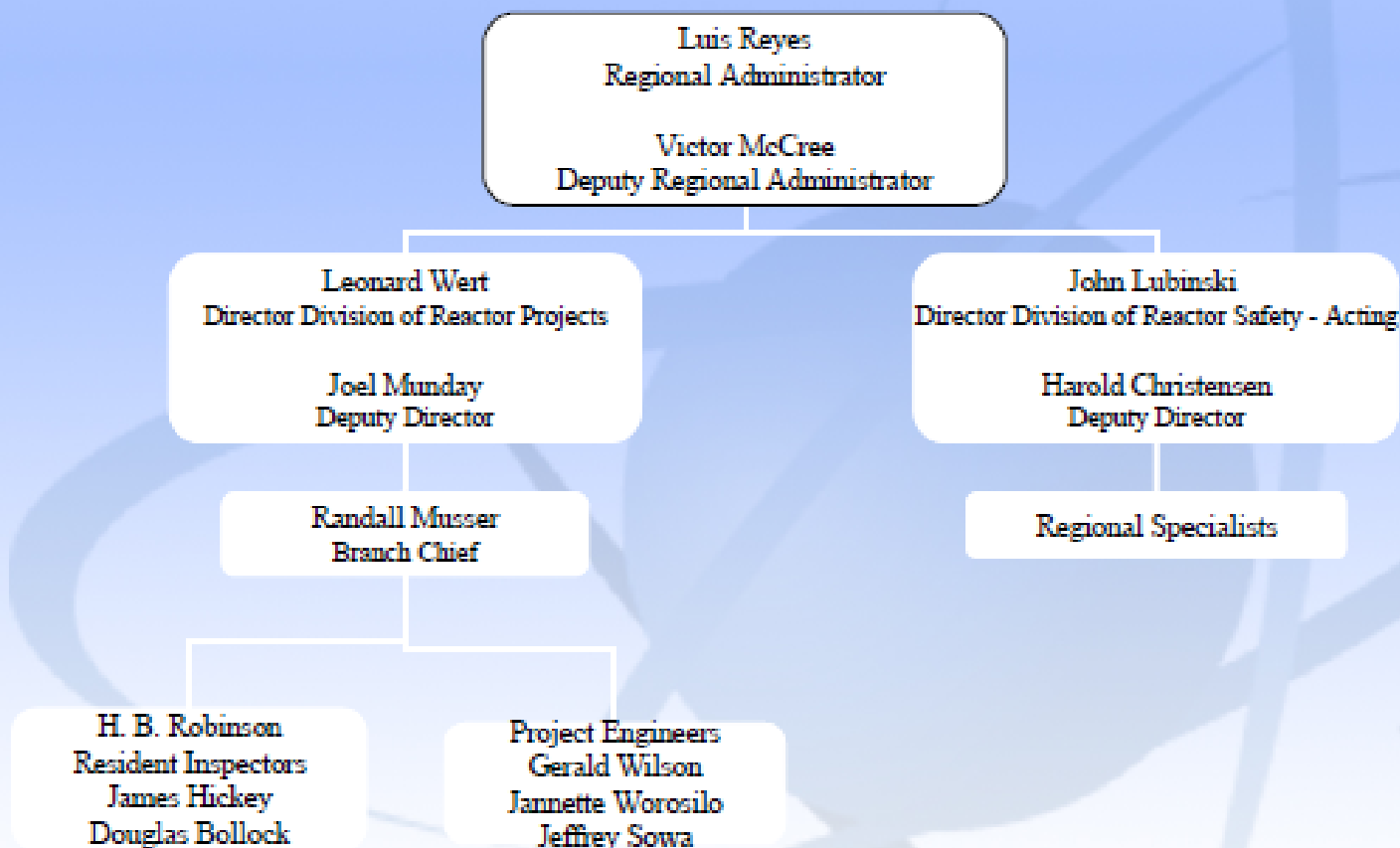
# ***Agenda***

- **Introduction**
- **Review of Reactor Oversight Process**
- **National Summary of Plant Performance**
- **Discussion of Plant Performance Results**
- **Licensee Response and Remarks**
- **NRC Closing Remarks**
- **Break**
- **NRC available to address public questions**



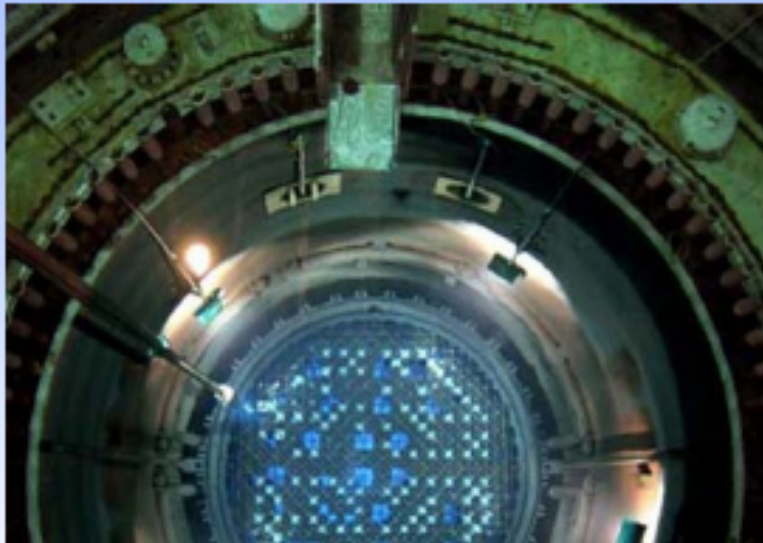


# Region II Organization





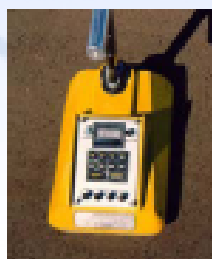
## ***Our Mission***



- To license and regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.



## ***Some Nuclear Facts***



- 104 nuclear power plants supply about 20 percent of the electricity in the U.S.
- Nuclear materials are used in medicine for diagnosis and cancer treatment.
- Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators.



# ***The NRC Regulates***

- **Nuclear reactors** - commercial power reactors, research and test reactors, new reactor designs
- **Nuclear materials** - nuclear reactor fuel, radioactive materials for medical, industrial, and academic use
- **Nuclear waste** – transportation, storage and disposal of nuclear material and waste, decommissioning of nuclear facilities
- **Nuclear security** – physical security of nuclear facilities and materials from sabotage or attacks



## ***What We Don't Do***

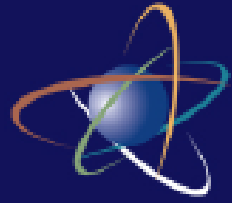
- **Regulate nuclear weapons, military reactors, or space vehicle reactors**
- **Own or operate nuclear power plants**
- **Regulate some radioactive materials, such as X-rays and naturally occurring radon**



## ***How We Regulate***

- **Establish rules and regulations**
- **Issue licenses**
- **Provide oversight through inspection, enforcement, and evaluation of operational experience**
- **Conduct research to provide support for regulatory decisions**
- **Respond to events and emergencies**



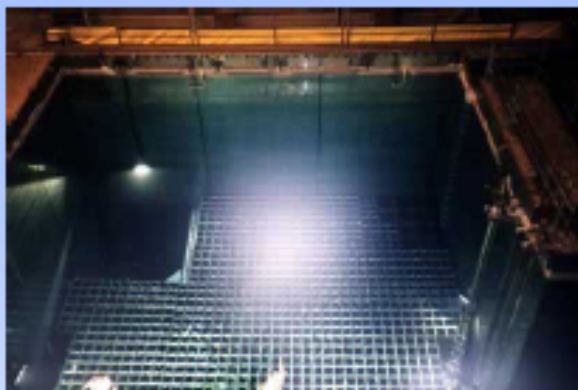


# ***Assurance of Plant Safety***

- **Require “defense-in-depth”**
- **Require long-term maintenance of equipment**
- **Require continual training of operators**
- **Verify compliance with regulations**



# ***What We Do – Nuclear Waste***



- **The NRC regulates:**
  - Storage of spent reactor fuel in fuel pools or dry storage casks

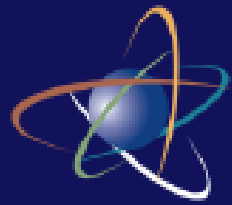




# ***What We Do – Nuclear Security***



- **NRC Requires:**
  - Well-armed and well-trained security forces,
  - Surveillance and perimeter patrols,
  - State-of-the-art site access equipment and controls,
  - Physical barriers and detection zones, and
  - Intrusion detection systems and alarm stations.

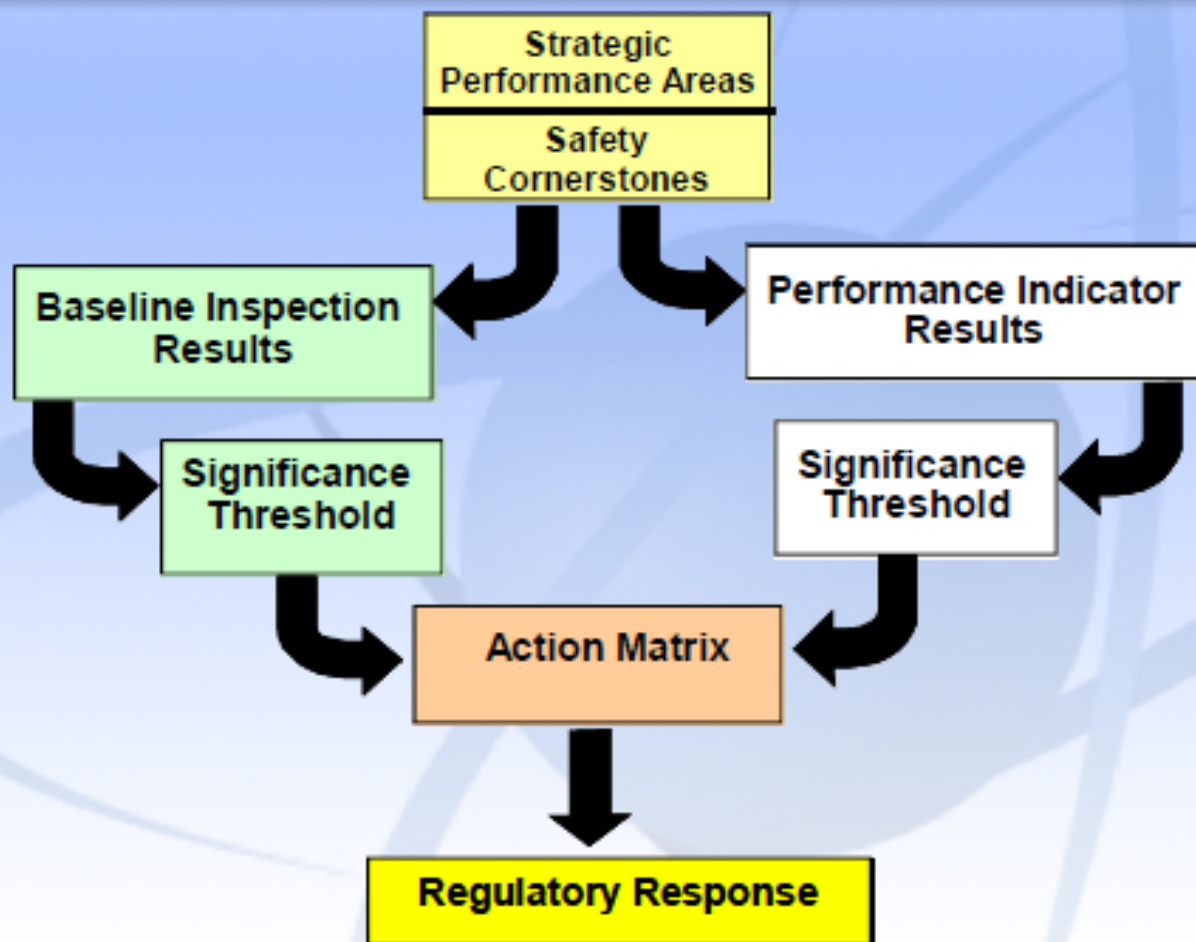


## ***NRC Performance Goals***

- **Safety:** Ensure adequate protection of public health and safety and the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.



# Reactor Oversight Process





## ***Examples of Baseline Inspections***

- **Equipment Alignment** ~80 hrs/yr
- **Triennial Fire Protection** ~250 hrs  
every 3 yrs
- **Operator Response** ~125 hrs/yr
- **Emergency Preparedness** ~80 hrs/yr
- **Rad Release Controls** ~110 hrs  
every 2 yrs
- **Worker Radiation Protection** ~95 hrs/yr
- **Corrective Action Program** ~250 hrs  
every 2 yrs
- **Corrective Action Case Reviews** ~60 hrs/yr



# ***Significance Threshold***

## Performance Indicators

**Green:** Only Baseline Inspection

**White:** Increases NRC oversight

**Yellow:** Increases NRC oversight

**Red:** Increases NRC oversight

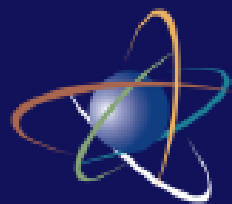
## Inspection Findings

**Green:** Very low safety issue

**White:** Low to moderate safety issue

**Yellow:** Substantial safety issue

**Red:** High safety issue



# ***Action Matrix Concept***

| <b>Licensee Response</b> | <b>Regulatory Response</b> | <b>Degraded Cornerstone</b> | <b>Multiple/Rep. Degraded Cornerstone</b> | <b>Unacceptable Performance</b> |
|--------------------------|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|
|--------------------------|----------------------------|-----------------------------|-------------------------------------------|---------------------------------|



**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**





## **National Summary of Plant Performance**

**Status as of 12/31/2009**

|                                             |            |
|---------------------------------------------|------------|
| <b>Licensee Response</b>                    | <b>79</b>  |
| <b>Regulatory Response</b>                  | <b>24</b>  |
| <b>Degraded Cornerstone</b>                 | <b>1</b>   |
| <b>Multiple/Repetitive Deg. Cornerstone</b> | <b>0</b>   |
| <b>Unacceptable</b>                         | <b>0</b>   |
| <b>Total</b>                                | <b>104</b> |





## ***National Summary***

- **Performance Indicator Results (total for CY 2009)**
  - **Green** 7039
  - **White** 18
  - **Yellow** 0
  - **Red** 0
- **Total Inspection Findings (total for CY 2009)**
  - **Green** 879
  - **White** 7
  - **Yellow** 0
  - **Red** 0



## ***H. B. Robinson Assessment Results***

**January 1 - December 31, 2009**

- **Licensee Response Column**



## ***H. B. Robinson Inspection Activities***

**January 1 - December 31, 2009**

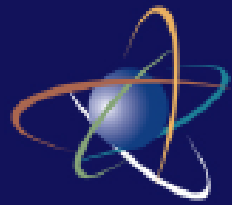
- **James Hickey assumed the role of Senior Resident Inspector in August**
- **Douglas Bollock assumed the role of Resident Inspector in November**
- **6 Green inspection findings**
- **2351 total hours of inspections**



## ***H. B. Robinson Inspection Activities***

**January 1 - December 31, 2009**

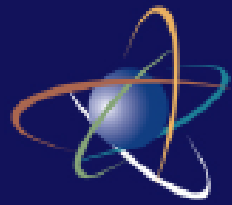
- **Radiation Protection – Public and Access Controls**
- **Operator Licensing - Requalification and Initial**
- **Emergency Preparedness Exercise**
- **Independent Spent Fuel Storage Installation**
- **Engineering Modifications**
- **Heat Sink Performance**



# ***H. B. Robinson Annual Assessment Summary***

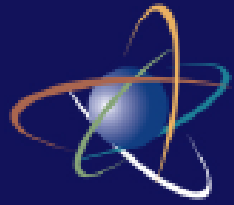
**January 1 - December 31, 2009**

- **Progress Energy operated H. B. Robinson in a manner that preserved public health and safety**
- **All cornerstone objectives were met**
- **NRC plans baseline inspections at H. B. Robinson for 2010**



## ***Licensee Response and Remarks***

**Eric McCartney  
Site Vice President  
H. B. Robinson**



## ***Open to the Public***

- The NRC places a high priority on keeping the public and stakeholders informed of its activities.
- At [www.nrc.gov](http://www.nrc.gov), you can:
  - Find public meeting dates and transcripts;
  - Read NRC testimony, speeches, press releases, and policy decisions; and
  - Access the agency's Electronic Reading Room to find NRC publications and documents.





## ***Contacting the NRC***

- **Report an emergency**
  - (301) 816-5100 (call collect)
- **Report a safety concern**
  - (800) 695-7403
  - Allegation@nrc.gov
- **General information or questions**
  - [www.nrc.gov](http://www.nrc.gov)
  - Select “What We Do” for Public Affairs



# ***NRC Representatives***

- Leonard Wert, Director, Division Reactor Projects
  - (404) 997-4500
- Joel Munday, Deputy Division Director, DRP
  - (404) 997-4501
- Tracy Orf, Project Manager, NRR
  - (301) 415-2788
- James Hickey, Senior Resident Inspector
  - (843) 383-4571
- Douglas Bollock, Resident Inspector
  - (843) 383-4571
- Gerald Wilson, Senior Project Engineer
  - (404) 997-4613
- Randall Musser, Branch Chief
  - (404) 997-4603



# ***Reference Sources***

- **Reactor Oversight Process**
  - <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>
- **Public Electronic Reading Room**
  - <http://www.nrc.gov/reading-rm.html>
- **Public Document Room**
  - 1-800-397-4209 (Toll Free)