



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

April 23, 2010

Mr. Dennis R. Madison  
Vice President  
Southern Nuclear Operating Company, Inc.  
Edwin I. Hatch Nuclear Plant  
11028 Hatch Parkway North  
Baxley, GA 31513

SUBJECT: PUBLIC MEETING SUMMARY - EDWIN I. HATCH NUCLEAR PLANT -  
DOCKET NOS. 50-321 AND 50-366

Dear Mr. Johnson:

This refers to the meeting conducted on April 21, 2010, in Baxley, GA. The purpose of the meeting/open house session was to provide opportunities to discuss the annual assessment of Edwin I. Hatch Nuclear Plant with the public for the period of January 1, 2009 - December 31, 2009.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room (PDR) or from the Publicly Available Records (PARS) component of NRC's document 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) 997-4521.

Sincerely,

/RA/

Scott M. Shaeffer, Chief  
Reactor Projects Branch 2  
Division of Reactor Projects

Docket Nos.: 50-321, 50-366  
License Nos.: DRP-57, NPF-5

Enclosures: 1. List of Attendees  
2. PowerPoint Presentation

cc w/encl: (See page 2)

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X PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE      X NON-SENSITIVE

ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_      X SUNSI REVIEW COMPLETE **SMS**

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	SMS /RA/	SDR /RA/	SDR /RA for/				
NAME	SShaeffer	SRose	TLighty				
DATE	04/23/2010	04/22/2010	04/22/2010				
E-MAIL COPY?	YES    NO	YES    NO	YES    NO	YES    NO	YES    NO	YES    NO	YES    NO

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SNC

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Letter to Dennis R. Madison from Scott M. Shaeffer dated April 23, 2010

SUBJECT: PUBLIC MEETING SUMMARY - EDWIN I. HATCH NUCLEAR PLANT -  
DOCKET NOS. 50-321 AND 50-366

Distribution w/encl:

C. Evans, RII

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OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMHatch Resource



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NUCLEAR REGULATORY COMMISSION

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ATLANTA, GEORGIA 30303-8931

HATCH ANNUAL ASSESSMENT MEETING  
April 21, 2010

NAME	TITLE
WL BARGERON	PLANT HOTEL
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Jana Thomas	SNC Public Affairs
Ken E. [unclear]	SNC SITE SUPPORT MANAGER
Sara Waters	SNC Public Affairs
Jacob	bigguy

# Edwin I. Hatch Nuclear Plant Annual Assessment Meeting

Reactor Oversight Program - CY 2009



Nuclear Regulatory Commission - Region II

Baxley, Ga

April 21, 2010

# Purpose of Today's Meeting

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

# Agenda

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- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- NRC Closing Remarks and Licensee Response

NRC available after presentation to address public questions

# Region II Organization

Luis Reyes  
Regional Administrator  
Victor McCree  
Deputy Regional Administrator

Division of Reactor Projects  
Len Wert, Director  
Joel Munday, Deputy Director

Division of Reactor Safety  
Kriss Kennedy, Director  
Harold Christensen, Deputy Director

Projects Branch 2  
Scott Shaeffer, Chief  
(404)997-4521

Regional Specialist Inspectors

Resident Inspectors (RI)  
Eddie Morris, Senior RI  
Phil Niebaum, RI  
RI Office: (912)367-9881

Project Engineers (PE)  
Steven Rose, Senior PE  
Tonya Lighty, PE

# Our Mission

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- 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



- More than 100 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

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- 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

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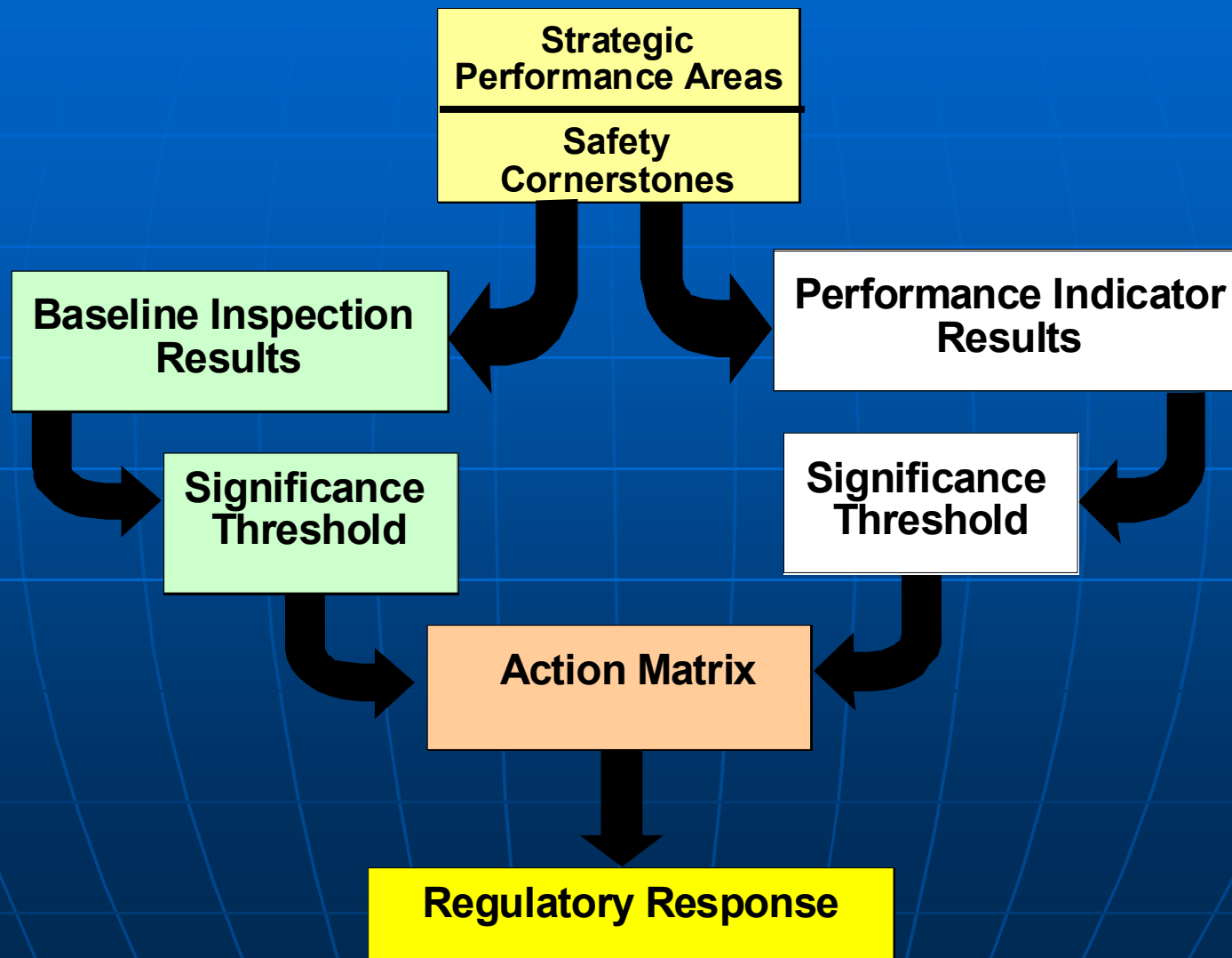
- Regulate nuclear weapons, military reactors, or space vehicle reactors
- Own or operate nuclear power plants
- Regulate some radioactive materials, such as X-rays and naturally occurring radon

# Assurance of Plant Safety

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

# Reactor Oversight Process



# Examples of Baseline Inspections Performed Nationwide

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

# Significance Threshold

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## Inspection Findings & Performance Indicators

- Green:** Very Low safety issue
- White:** Low to moderate safety issue
- Yellow:** Substantial safety issue
- Red:** High safety issue

## NRC Response:

- Green:** Only Baseline Inspection
- White:** May increase NRC oversight
- Yellow:** Requires more NRC oversight
- Red:** Requires more NRC oversight

# Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep Degraded Cornerstone	Unacceptable Performance
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**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**

# National Summary of Plant Performance

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## Status at End of CY 2009

Licensee Response	84
Regulatory Response	19
Degraded Cornerstone	1
Multiple/Repetitive Degraded Cornerstone	0
Unacceptable	0
Total	<hr/> 104



# National Summary

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## ■ Performance Indicator Results (end of CY 2009)

- Green 1543
- White 4
- Yellow 0
- Red 0

## Total Inspection Findings (CY 2009)

- Green 838
- White 17
- Yellow 0
- Red 0

# Hatch Inspection Activities

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5728 hours of inspection-related activities

- In-service Inspection
- Radiation Protection
- Biennial Problem Identification & Resolution (PI&R) Inspection
- Two Initial Licensed Operator Examinations
- Security
- Component Design Bases Inspection
- 95001 Supplemental Inspection of the EDG Couplings

# 2009 Assessment Results - Unit 1

	1 <sup>st</sup> Qtr 2009	2 <sup>nd</sup> Qtr 2009	3 <sup>rd</sup> Qtr 2009	4 <sup>th</sup> Qtr 2009
Action Matrix Column	Regulatory Response Column	Regulatory Response Column	Regulatory Response Column	Regulatory Response Column
Basis	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)

# Unit 1 Assessment Results

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A White finding was issued in March 2009 (counted in 1Q/2009) for failure to identify and correct cracks in the 1B emergency diesel generator (EDG) coupling which were previously observed during routine maintenance inspections.

## Unit 1 Assessment Results (cont'd)

- NRC conducted 95001 supplemental inspection 4<sup>th</sup> quarter 2009 which encompassed:
  - The failure to identify and correct cracks in the 1B emergency diesel generator (EDG) coupling which were previously observed during routine maintenance inspections. (Since the 1B EDG is the Unit 1/2 shared diesel generator both units were affected.)

# 2009 Assessment Results - Unit 2

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	1 <sup>st</sup> Qtr 2009	2 <sup>nd</sup> Qtr 2009	3 <sup>rd</sup> Qtr 2009	4 <sup>th</sup> Qtr 2009
Action Matrix Column	Regulatory Response Column	Regulatory Response Column	Regulatory Response Column	Regulatory Response Column
Basis	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)	White Finding – Mitigating Systems; 1B EDG Coupling Failure (Addressed by 95001, November 2009)

# 2009 Assessment Summary

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- Southern Nuclear Company operated Hatch in a manner that preserved public health and safety with low degradation in safety performance
  - All cornerstone objectives were met
  - For the remainder of 2010:
    - NRC plans baseline inspections

# Overall Assessment Impact

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- Overall, Hatch's performance has improved over the assessment period
- Both units improved their standing on the NRC's Action Matrix and are currently in the Licensee Response Column for 1<sup>st</sup> quarter 2010.



# Contacting the NRC

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- 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 “About NRC” for Public Affairs

# Reference Sources

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- 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)