



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

April 11, 2014

MEMORANDUM TO: Michael F. King, Chief  
Reactor Projects Branch 5  
Division of Reactor Projects

FROM: Brad D. Bishop */RA/*  
Project Engineer  
Reactor Projects Branch 5

SUBJECT: PUBLIC MEETING SUMMARY– SURRY POWER STATION  
DOCKET NOS. 50-280, 50-281

On April 18, 2014, the Nuclear Regulatory Commission (NRC) staff met with members of the public concerning the annual assessment of Surry Power Station in Surry, Virginia. The purpose of the meeting/open house session was to provide opportunities to discuss the annual assessment of Surry Power Station with the public for the period of January 1, 2013 – December 31, 2013. Enclosed are a list of attendees, copies of the poster boards displayed at the meeting, and the meeting handout.

Docket Nos.: 50-280, 50-281  
License Nos.: DPR-32, DPR-37

Enclosures:

1. List of Attendees
2. Poster Boards
3. Meeting Handout

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☒ PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      ☒ NON-SENSITIVE  
ADAMS: ☒ Yes      ACCESSION NUMBER: \_\_\_\_\_      ☒ SUNSI REVIEW COMPLETE      ☐ FORM 665 ATTACHED

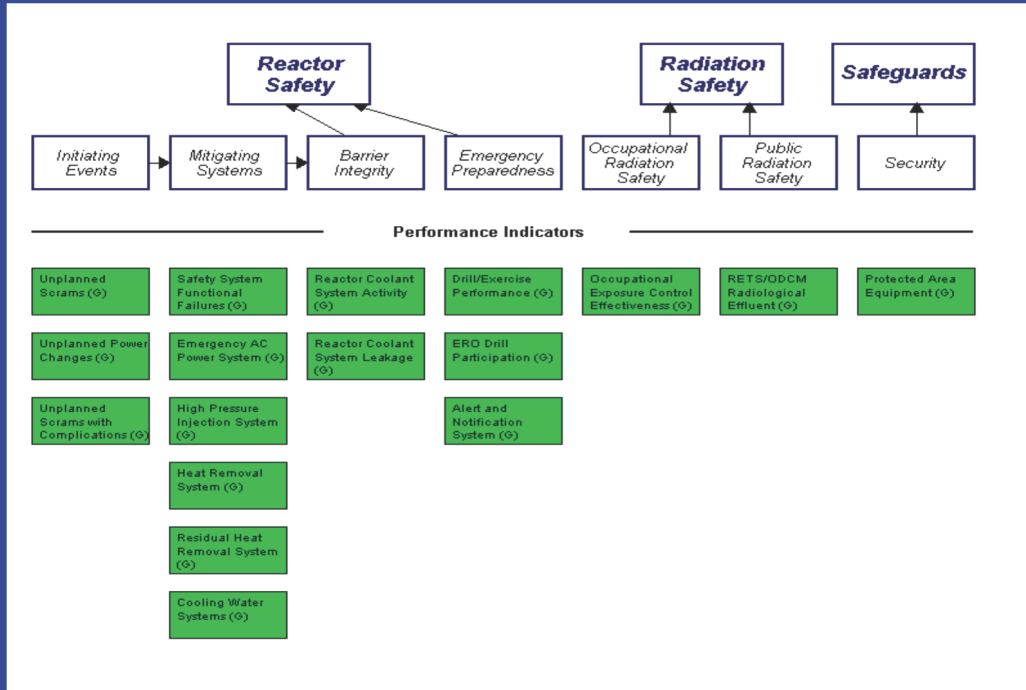
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SIGNATURE	BDB /RA/	SON /RA/	MFK /RA/				
NAME	BBishop	SNinh	MKing				
DATE	03/26/2014	03/26/2014	03/31/2014				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

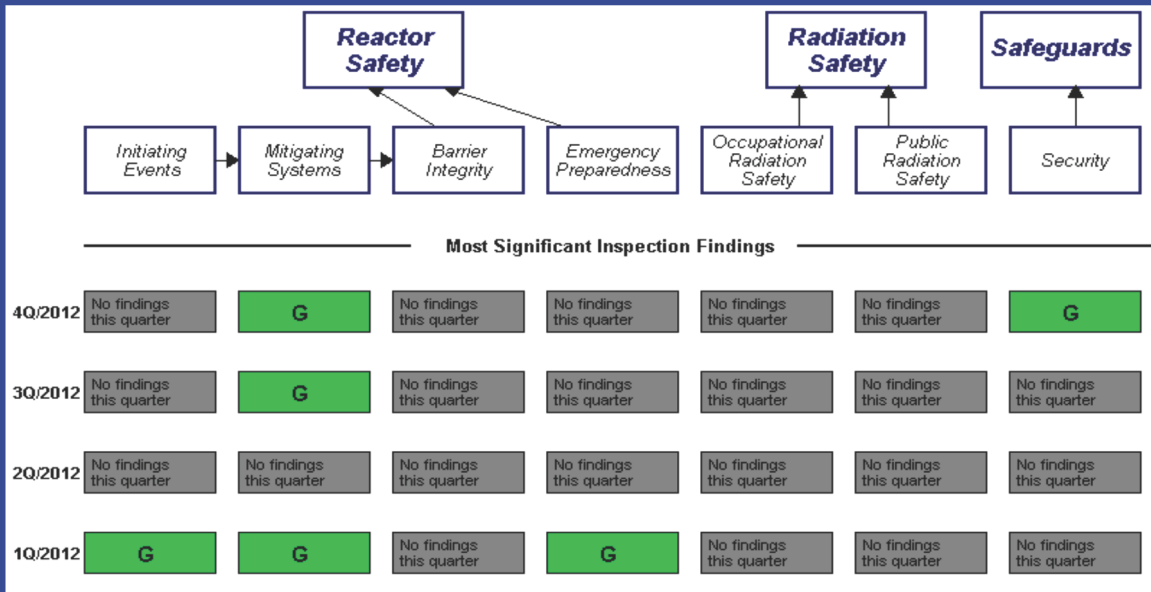
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PUBLIC MEETING MEMO.DOCX

## ATTENDANCE LIST

Attended NRC Public Meeting to discuss the NRC Reactor Oversight Process and the Annual Assessment of the Surry Power Station on March 18, 2014, at the Surry Government Center, Lobby of the General District Courtroom, Surry, Virginia:

Gerald Curry	
PHIL MCKENNA	
Kevin Roche	
MIKE KING	
Kathy Lippard	
Jan Bennett	
Jason Eggart	
Joey Ledford	
LARRY LANE	
RUSSELL SAWEDGE JR.	
Kyle Allison	
Ray Haring	
Barry Garber	





# Site Locations



## A Day in the Life of an NRC Resident Inspector



1



2

The NRC Resident Inspector is a specially trained nuclear power expert who lives in the community around the plant.



3

Even if each day is supervised by the NRC, the Resident Inspectors work at the plant site. But, strict rules require them to be independent and they can't even socialize with plant employees.



4

As with everyone at the plant, the Inspector passes through security checkpoints.



5

Each morning, the Inspector visits the reactor's Control Room and gets information on the plant status from the operators.



6

Resident inspectors also attend the "Plan of the Day" meeting with plant officials to understand what plant activities are scheduled for that day.



10

Inspectors meet with plant management on a regular basis to discuss plant safety issues found during the inspections. The Inspectors could immediately notify plant management if they identified an urgent safety issue. These inspection records are available to the public each quarter.



9

Resident inspectors work as a team with the NRC support to make sure the plant is following NRC rules.



8

Resident Inspectors -- there are at least two at each site -- prioritize their activities each day, with safety as the key measure.



7

The Inspector provides the plant status and safety information to the NRC Regional Office every morning.



11

As part of their routine, Resident Inspectors walk around the plant and inspect plant facilities and equipment. These inspectors take a few hours to watch plant workers at their jobs.



12

Resident Inspectors also observe plant workers during emergency exercises. Inspectors watch to make sure everyone knows what they are supposed to do and are following NRC rules.



13

During a risk emergency, Resident Inspectors work with plant employees to address the issue and report to NRC Headquarters what is happening at the plant.



14

Plant workers can bring their concerns about plant management directly to the Resident Inspectors or submit them anonymously. These concerns are handled by the NRC's legation process.



15

NRC Resident Inspectors get the chance to inspect and visit other plants, because of their strong qualifications to put "fresh eyes" on other issues elsewhere.



18

**U.S. NRC**  
United States Nuclear Regulatory Commission  
Have a safe day!



17

Resident Inspectors play a very important role for the NRC. They are the reactor's on-call trusted eyes and ears.



16

Inspectors have training opportunities to help them do their job better and prepare for another position in the NRC. They can only work at any one plant site for 7 years.

# Surry Power Station, Units 1 and 2 Annual Assessment Meeting

## 2013 Reactor Oversight Process Nuclear Regulatory Commission Region 2





## NRC Strategic Plan 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



## NRC Annual Assessment Summary

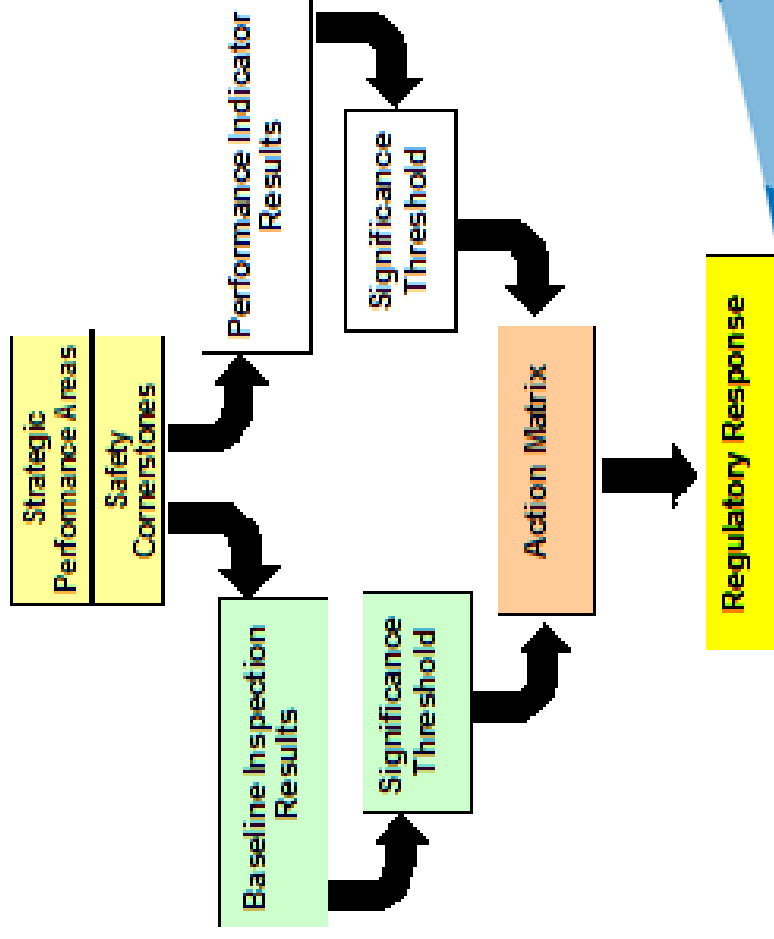


### Surry Power Station, Units 1 and 2

- VEPCO operated the plant safely and in a manner that preserved the public health and safety and protected the environment.
- Surry Power Station, Units 1 and 2 were in the Licensee Response Column of the NRCs Reactor Oversight Process (ROP) Action Matrix for all of 2013.



# Reactor Oversight Process



## NRC Inspection Activities

Surry Power Station, Units 1 and 2 for 2013



- **Approximately 5,200 hours of inspection and related activities\***
- **2 resident inspectors on site**
  - residents issue 4 quarterly inspection reports per year and conduct routine plant walkdowns
- **7 regional inspections**
- **2 major team inspections**
  - Problem Identification and Resolution
  - Emergency Preparedness



## Surry Power Station, Units 1 and 2 Inspection Activities



January 1 - December 31, 2013

- Unit 1 Fall Outage



Enclosure 3

## Surry Power Station, Units 1 and 2 Performance Indicators and Findings



- Performance Indicators were **all Green**.
- 4 Green inspection findings
- No *greater than Green* inspection findings



## Representative NRC Inspection Findings for Surry, Units 1 and 2



- Green Non-cited Violation: Failure to Missile Protect Beyond Design Bases FLEX Modification
- Green Non-cited Violation: Failure to Follow Procedure Results in Inoperability of One Train of Charging Pump Service Water
- Green Non-cited Violation: Failure to Maintain Control of Licensed Radioactive Material that was not in Storage





## Significance Threshold

### Performance Indicators

- **Green** Baseline Inspection
- **White** Requires additional NRC oversight
- **Yellow** Requires more NRC oversight
- **Red** Requires most NRC oversight

### Inspection Findings

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

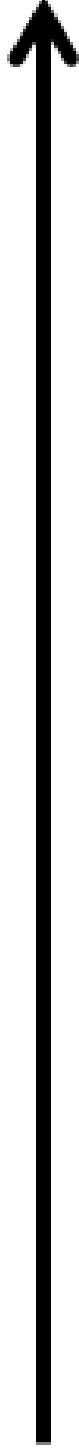




## Action Matrix Columns



Licensee Response	Regulatory Response	Degraded	Multiple/Repetitive Degraded	Unacceptable Performance
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### Increasing

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action



# National Summary of Plant Performance



Status as of 12/31/2013

Licensee Response	80
Regulatory Response	9
Degraded Cornerstone	9
Multiple/Repetitive Deg. Cornerstone	1
Unacceptable	0
IMC 0350 Oversight	1
Total	100



## Fukushima Recommendations



- Mitigating Strategies Order
  - Requires strategies to cope with a long term loss of safety systems
  - Interim Staff Evaluation of Licensee's Plan issued
  - Will be audited and inspected
- Spent Fuel Pool Instrumentation Order
  - Requires accurate remote level indication
  - Interim Staff Evaluations were issued
  - Will be audited and inspected



## Fukushima Recommendations



- Flooding and Seismic Walkdowns
  - Verify that the site can meet its current requirements for hazard protection
  - Walkdowns are complete; evaluations to be issued by the end of the summer
- Flooding and Seismic Hazard Reevaluations
  - Hazards will be re-evaluated using present-Day information



## NRC Plans at Surry for 2014



- NRC plans baseline inspections at Surry Power Station, Units 1 and 2 for the remainder of 2014. This includes:
  - In-service inspections during the Unit 2 Spring outage
  - Radiation protection inspections
  - Operator license initial exam
  - Component design bases inspection
  - Emergency preparedness program inspection
  - Heat sink performance inspection



## 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](mailto:Allegation@nrc.gov)
- **General information or questions**
  - [www.nrc.gov](http://www.nrc.gov)
  - Select "What We Do" for Public Affairs



## NRC Social Media Tools



-  NRC Blog <http://public-blog.nrc-gateway.gov/>
-  NRC Twitter <https://twitter.com/#!/NRCgov>
-  NRC Chat <http://chat.nrc-gateway.gov/>
-  NRC YouTube <http://www.youtube.com/user/NRCgov>
-  NRC Flickr Gallery <http://www.flickr.com/people/NRCgov>
-  NRC RSS Feeds <http://www.nrc.gov/public-involve/lists/ever.html#rss>
-  NRC GovDelivery - [https://service.govdelivery.com/service/multi\\_subscribe.html?code=USNRC](https://service.govdelivery.com/service/multi_subscribe.html?code=USNRC)

