

#### UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TEXAS 76011-4005

APR 18 2003

J. V. Parrish (Mail Drop 1023) Chief Executive Officer Energy Northwest P.O. Box 968 Richland, Washington 99352-0968

SUBJECT: MEETING SUMMARY FOR END-OF-CYCLE PERFORMANCE ASSESSMENT

FOR COLUMBIA GENERATING STATION

Dear Mr. Parrish:

This refers to the end-of-cycle performance assessment meeting conducted at the Richland Public Library Gallery in Richland, Washington, on April 11, 2003. The meeting attendance list and a copy of the slides presented during the meeting are enclosed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosure will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <a href="http://www.nrc.gov/reading-rm/adams/index.html">http://www.nrc.gov/reading-rm/adams/index.html</a> (the Public Electronic Reading Room).

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

William B. Jones, Chief

Project Branch E

Division of Reactor Projects

Docket: 50-397 License: DPF-21

Enclosures:

1. Attendance List

NRC Presentation

3. Licensee Presentation

END-OF-CYCLE MEETING ATTENDANCE					
LICENSEE/FACILITY	Energy Northwest Columbia Generating Station				
DATE/TIME	April 11, 2003 6:30 p.m. (PDT)				
LOCATION	Richland Public Library Gallery				
NAME (PLEASE PRINT)	ORGANIZATION				
Trany S. Love	ENERGY Northwest				
Daglas W. Celeman	Energy Worthwest				
Jim Givin	Energy Northwest				
FRED KLAUSS	EMENGY NONTHWEST				
David Hedengren	Citizen of Richland				
DON FELDMAN	EWERGY WORTWEST				
Dan Richay	Everyy Northwest				
Don Mc Manney	- Every Mouthwest				

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### Nuclear Regulatory Commission



Annual Assessment Meeting for Columbia Generating Station April 11, 2003

#### **NRC Meeting Purpose**

- Meeting with Licensee and Public
- Inform Public of Plant Performance
- Review NRC and Industry Activities



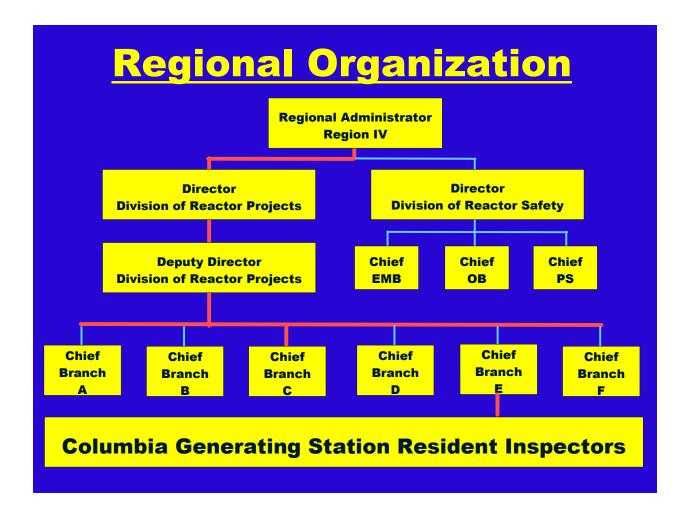
### **NRC Meeting Guidelines**

- Registration Table
- Handouts
- Questions and Answers
- Feedback Forms



#### **NRC Performance Goals**

- Maintain public safety and protect the environment
- Enhance public confidence
- Improve:
  - Effectiveness
  - Efficiency
  - Realism of processes and decision making



# Energy Northwest Introduction



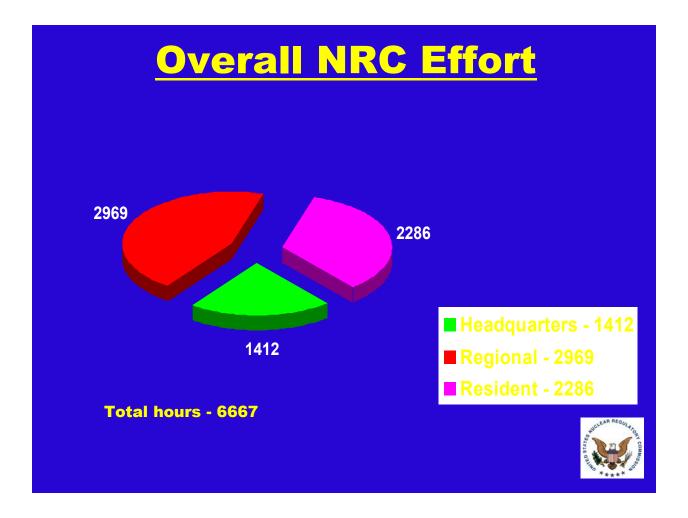
### **Meeting Agenda**

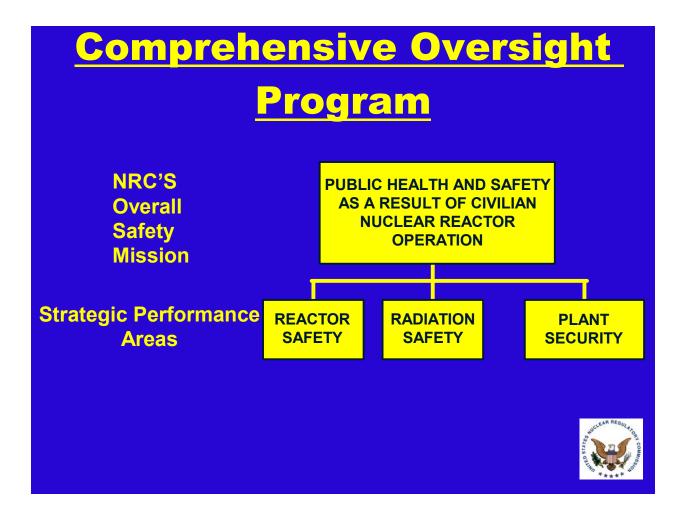
- Regulatory Oversight
- Findings And Assessments
- Additional Focus Areas
- Questions And Answers



## Regulatory Oversight Process



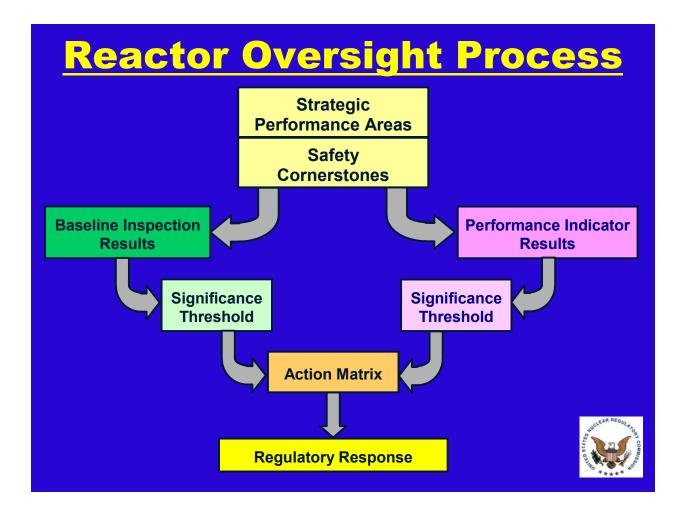




#### **NRC Oversight Activities**

- Provide assurance plants are:
  - Operating safely
  - Complying with regulations
- Based on a logical and sound framework
- Inspections focused on key safety areas
- Objective performance indicators
- Assessment program triggers regulatory actions





#### **Baseline Inspection Program**

- Gathers objective evidence of plant safety
- Conducted at all plants
- Focuses on safety-significant:
  - systems
  - components
  - activities
  - events



#### **Baseline Inspection Program**

- Inspection reports describe significant findings and non-compliance
- Inspection reports are publicly accessible

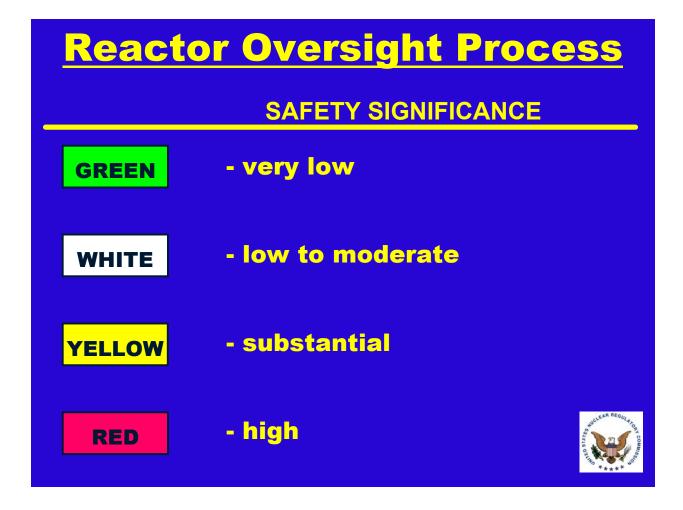
www.NRC.gov/reading-rm/adams.html



## Event Follow-up and Supplemental Inspections

- Review events for significance
- Follow-up significant inspection findings
- Determine causes of performance declines
- Provide for graduated response



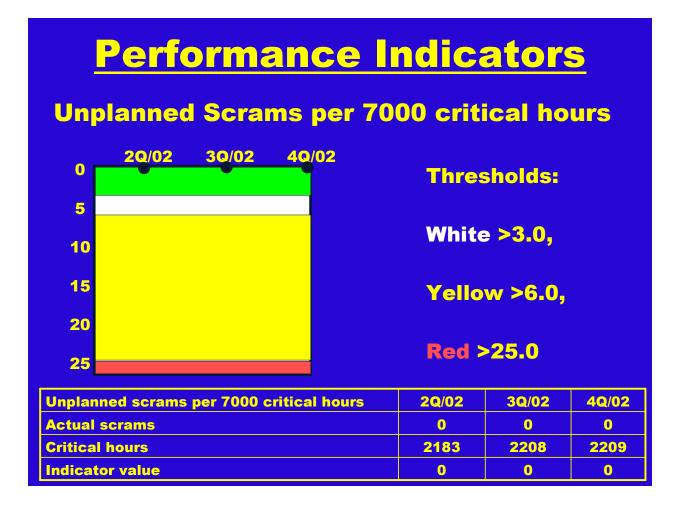


## Performance Indicator Program

- Licensee monitors key safety parameters
- Data supplied to NRC quarterly
- Performance indicator results available on the NRC's public web site:

www.NRC.gov/NRR/OVERSIGHT/ASSESS/ WASH2/wash2\_chart.html





### Key Aspects of the Assessment Program

- Objective review of licensee's performance
- "Action Matrix" to determine agency response in three areas:
  - Inspection
  - Management Involvement
  - Regulatory Actions
- Plant specific assessment letters



## Plant Safety Performance Summary

- Performance Indicator Results
- Inspection Results



## Performance Indicator Results

All performance indicators within the Licensee Response Band



#### **Yellow Finding**

- Identified in 3<sup>rd</sup> Quarter 2001
- Failure to follow and maintain emergency plans and procedures
- Supplemental Inspection May 2002



#### **White Finding**

- Identified 1<sup>st</sup> Quarter 2002
- Degraded Performance of Safety Related 4160-volt Breakers
- Supplemental Inspection December 2002



### Human Performance Substantive Crosscutting Issue

- Identified During Previous Assessment Period
- Multiple Findings Related to Lack of Procedural Adherence
- Deficiencies Noted in Several Areas a Affected Multiple Cornerstones

#### **Supplemental Inspection**

- Human Performance Area
  - Improved human performance for non-outage period since April 2001
  - Finding will remain open to assess corrective action effectiveness during scheduled 2003 refueling outage



#### **Assessment Results**

- Began assessment period in Degraded Cornerstone Column (Yellow Finding)
- Ended assessment period in Regulatory Response Column (White Finding)



### **ACTION MATRIX**

	Calender Ye	ear 2001	Calendar Year 2002				
	_Qtr_3	Qtr_4	Qtr 1	Qtr 2	Qtr 3	Qtr_4	
Cornerstone	7/1/01 - 9/30/01	10/01/01 - 12/31/01	1/1/02 - 3/31/02	4/1/02 - 6/30/02	7/1/02 - 9/30/02	10/01/02 - 12/31/02	
Initiating Events	Green	Green	Green	Green	Green	Green	
Mitigating Systems	Green	Green	W hite	W hite Continued	White Continued	White Continued	
Barrier Integrity	Green	Green	Green	Green	Green	Green	
Emergency Preparedness	Yellow	Yellow	Yellow	Yellow	Green	Green	
Public Radiation Safety	Green	Green	Green	Green	Green	Green	
Occupational Radiation Safety	Green	Green	Green	Green	Green	Green	
Physical Protection	Green	Green	Green	Green	Green	Green	
Action Matrix	Degraded Cornerstone	De gra de d Cornerston e	Degraded Cornerstone	Degraded Cornerstone	Regulatory Response	Regulatory Response	

#### **Assessment Conclusion**

#### Licensee effectively managed:

- Reactor safety
- Radiation safety
- Plant security

Energy Northwest operated Columbia Generating Station in a manner that protected the health and safety of the public

## **ROP Action Matrix Summary for 2002**

	Licensee Response	Regulatory	Degraded Cornerstone	Multiple/ Repetitive Degraded	Unacceptable Performance
Nationwide	59	33	7	3	0
Region IV	13	5	2	1	O

(Note: Nationwide number does not include Davis Besse)

#### **Additional Focus Areas**

- NRC Responds As-Needed
- Mandated Licensee Actions
- Implemented Emergency Preparedness



#### **Nuclear Industry Issues**

- Lessons Learned From Reactor Vessel Head Degradation
- Security at Nuclear Power Plants



#### Post Davis-Besse

**Industry Initiatives** 

Address Process and Performance Issues that Contributed to the Vessel Head Degradation

#### **NRC Actions**

- Observation of Licensee Inspections and Examinations
- Independent Inspection and



#### **Security & Safeguards Update**

- Creation of Office of Nuclear Security and Incident Response
- Top-to-Bottom Review of Security Program Initiated
- Issuance of Orders/Interim
   Compensatory Measures (ICMs)
- Verification of Licensee Actions on



#### **Security & Safeguards Update**

- Proposed Revisions to Design Basis Threats
- Pending Orders on Fatigue/Guard Training
- Initiation of Pilot Program for Force-on-Force Exercises
- Issuance of Access Authorization

## **Energy Northwest**

Response



#### **Future Outlook**

- Power Uprates
  - Not new
  - Licensee's taking advantage of improved power measurement techniques
  - Better analytical methods demonstrate that reactor power can be increased without significant reductions in safety margin
- NRC has approved more than 80 applications to increase reactor power
- Approximately 51 applications for power

### Future Outlook (Cont.)

- License Renewal
  - A recent initiative
  - Applications for 14 units have been approved
  - 16 applications are currently under review
- Early Site Permit
  - Three applications expected in 2003



### **Conclusions**

- Assured Public Safety
- Flexible/Predictable Response
- Risk-Informed Programs



### **Contacting the NRC**

- Report an <u>Emergency</u>: (301) 816-5100 (collect)
- Report a <u>Safety Concern</u>: (800) 695-7403 or Allegation@nrc.gov
- General Information or questions: www.nrc.gov

**Select "What We Do"** 



#### **Contacts for Additional Information**

- Regional Public Affairs Officer
  - Victor Dricks
  - Phone: (817) 860 8128
- State Liaison Officer
  - William (Bill) Maier
  - Phone: (817) 860 8267

