



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-4005

APR 18 2003

C. L. Terry, Senior Vice President  
and Principal Nuclear Officer  
TXU Energy  
ATTN: Regulatory Affairs  
Comanche Peak Steam Electric Station  
P.O. Box 1002  
Glen Rose, Texas 76043

SUBJECT: ANNUAL PERFORMANCE ASSESSMENT MEETING FOR COMANCHE PEAK  
STEAM ELECTRIC STATION

Dear Mr. Terry:

This refers to the meeting conducted in Glen Rose, Texas, on April 8, 2003. This meeting was to discuss the safety performance at South Texas Project Electric Generating Station from January 1 to December 31, 2002.

Topics discussed during the meeting included a description of the Reactor Oversight Process, the safety performance at the Comanche Peak Steam Electric Station, and other topics that may have been of interest to the local area residents. Members of the public present at the meeting were allowed to ask questions and comment on the proceedings.

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 will be placed in the NRC's Public Document Room.

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

Sincerely,

William D. Johnson, Chief  
Project Branch A  
Division of Reactor Projects

Dockets: 50-445  
50-446  
Licenses: NPF-87  
NPF-89

TXU Energy

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Enclosures:

1. Attendance List
2. Presentation Slides

cc:

Roger D. Walker  
Regulatory Affairs Manager  
TXU Generation Company LP  
P.O. Box 1002  
Glen Rose, Texas 76043

George L. Edgar, Esq.  
Morgan Lewis  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004

G. R. Bynog, Program Manager/  
Chief Inspector  
Texas Department of Licensing & Regulation  
Boiler Division  
P.O. Box 12157, Capitol Station  
Austin, Texas 78711

County Judge  
P.O. Box 851  
Glen Rose, Texas 76043

Chief, Bureau of Radiation Control  
Texas Department of Health  
1100 West 49th Street  
Austin, Texas 78756-3189

Environmental and Natural  
Resources Policy Director  
Office of the Governor  
P.O. Box 12428  
Austin, Texas 78711-3189

Brian Almon  
Public Utility Commission  
William B. Travis Building  
P.O. Box 13326  
1701 North Congress Avenue  
Austin, Texas 78701-3326

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Susan M. Jablonski  
Office of Permitting, Remediation and Registration  
Texas Commission on Environmental Quality  
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P.O. Box 13087  
Austin, Texas 78711-3087

Roger Hill  
Sheriff, Somervell County  
750 E. Gibbs Blvd.  
Glen Rose, Texas 76043

Connie Kirk  
Mayor of Glen Rose  
P.O. Box 87  
Glen Rose, Texas 76043

Andy Rash  
Hood County Judge  
100 E. Pearl Street  
Granbury, Texas 76048

David Southern  
Mayor of Granbury  
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Granbury, Texas 76048

Federal Emergency Management Agency  
Ron Castleman, Regional Director  
Region VI, Federal Center  
800 North Loop 288  
Denton, Texas 76201-3698

Rebecca Klein, Commissioner  
Public Utility Commission  
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William "Dub" Taylor  
State Energy Conservation Office  
111 E 17th Street, Room 1114  
Austin, Texas 78711

TXU Energy

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Allen Hardin  
Sheriff, Hood County  
400 N. Gordon Street  
Granbury, Texas 76048

Walter Maynard  
Somervell County Judge  
P.O. Box 851  
Glen Rose, Texas 76043

Electronic distribution by RIV:  
Regional Administrator (**EWM**)  
DRP Director (**ATH**)  
DRS Director (**DDC**)  
Senior Resident Inspector (**DBA**)  
Branch Chief, DRP/A (**WDJ**)  
Senior Project Engineer, DRP/A (**CJP**)  
Staff Chief, DRP/TSS (**PHH**)  
RITS Coordinator (**NBH**)

ADAMS: ☒ Yes ☐ No Initials: cf  
☒ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

R:\ CPSES\2003\CP4-8-03 EOC MS.wpd

RIV/SPE/DRP/A	C/DRP/A			
CJPaulk;df	WDJohnson			
<u>cf</u>				
4/18/03	4/18/03			

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

ENCLOSURE 1  
ATTENDANCE LIST

NRC Representatives

D. Allen, Senior Reactor Inspector  
G. Good, Acting Deputy Director, Division of Reactor Projects  
W. Johnson, Chief, Project Branch A  
A. Sanchez, Resident Inspector  
M. Satorius, Chief, Performance Assessment Section, Office of Nuclear Reactor Regulation

TXU Energy Representatives

S. Alldredge  
M. Blevins  
M. Bozeman  
J. Curtis  
A. Cutler  
S. Ellis  
R. Flores  
R. Kidwell  
W. Lee  
F. Madden  
B. Mays  
G. Merka  
D. Moore  
D. Reuter  
K. Sanborn  
L. Terry  
R. Walker

Members of the Public

K. Harding  
W. Maynard  
A. Rash

# **ANNUAL ASSESSMENT MEETING**



**Nuclear Regulatory Commission**

**Region IV**

# **NRC Meeting Purpose**

- **Meeting with Licensee and Public**
- **Inform Public of Plant Performance**





# **NRC Meeting Guidelines**

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



# **NRC PERFORMANCE GOALS**

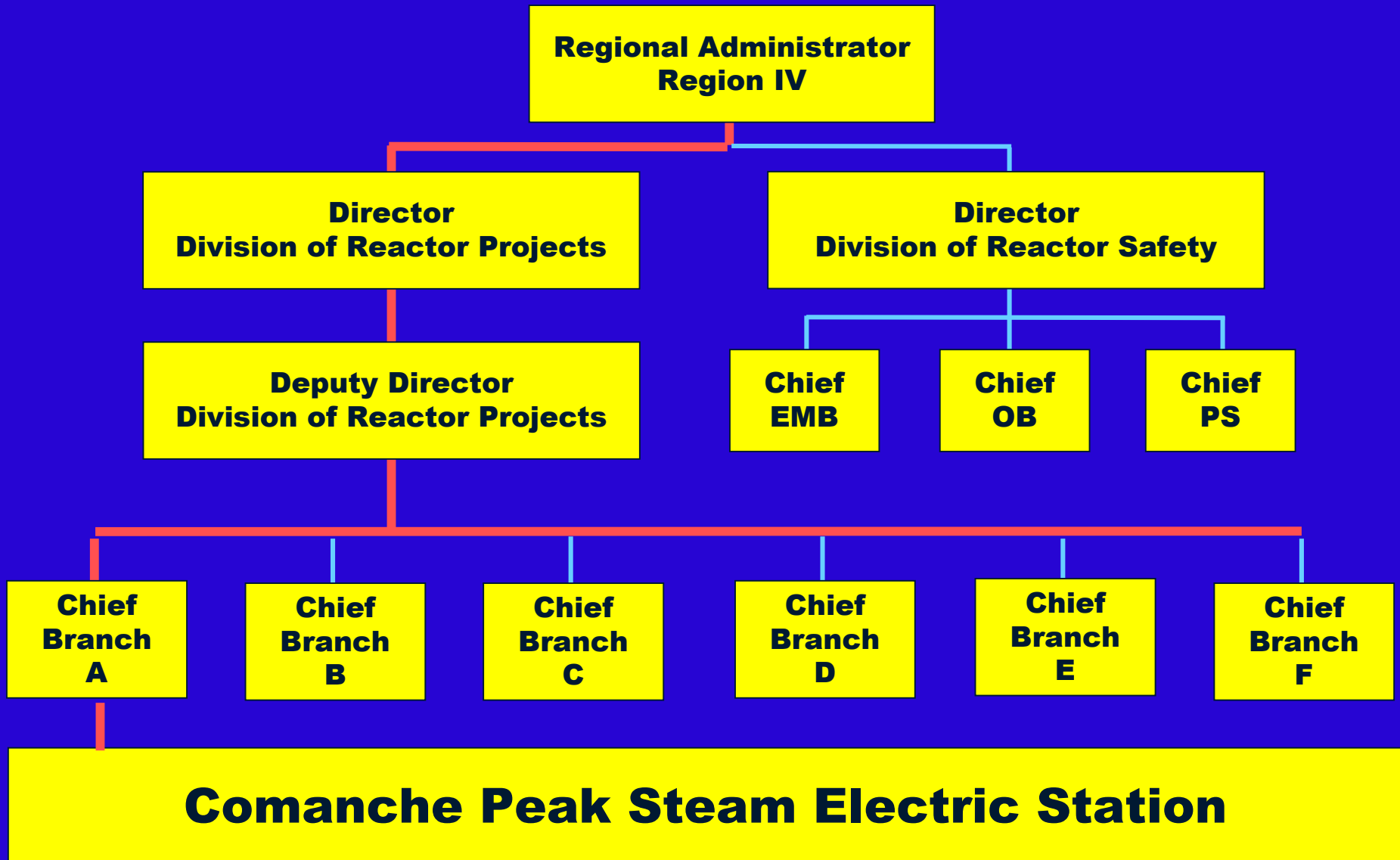
- **Maintain public safety and protect the environment**
- **Enhance public confidence**
- **Improve:**
  - **Effectiveness**
  - **Efficiency**
  - **Realism of processes and decision making**
- **Reduce unnecessary regulatory burden**



# **Assessment of Safety Performance** **at Comanche Peak Steam Electric** **Station**



# Regional Organization



# **Comanche Peak Steam** **Electric Station**

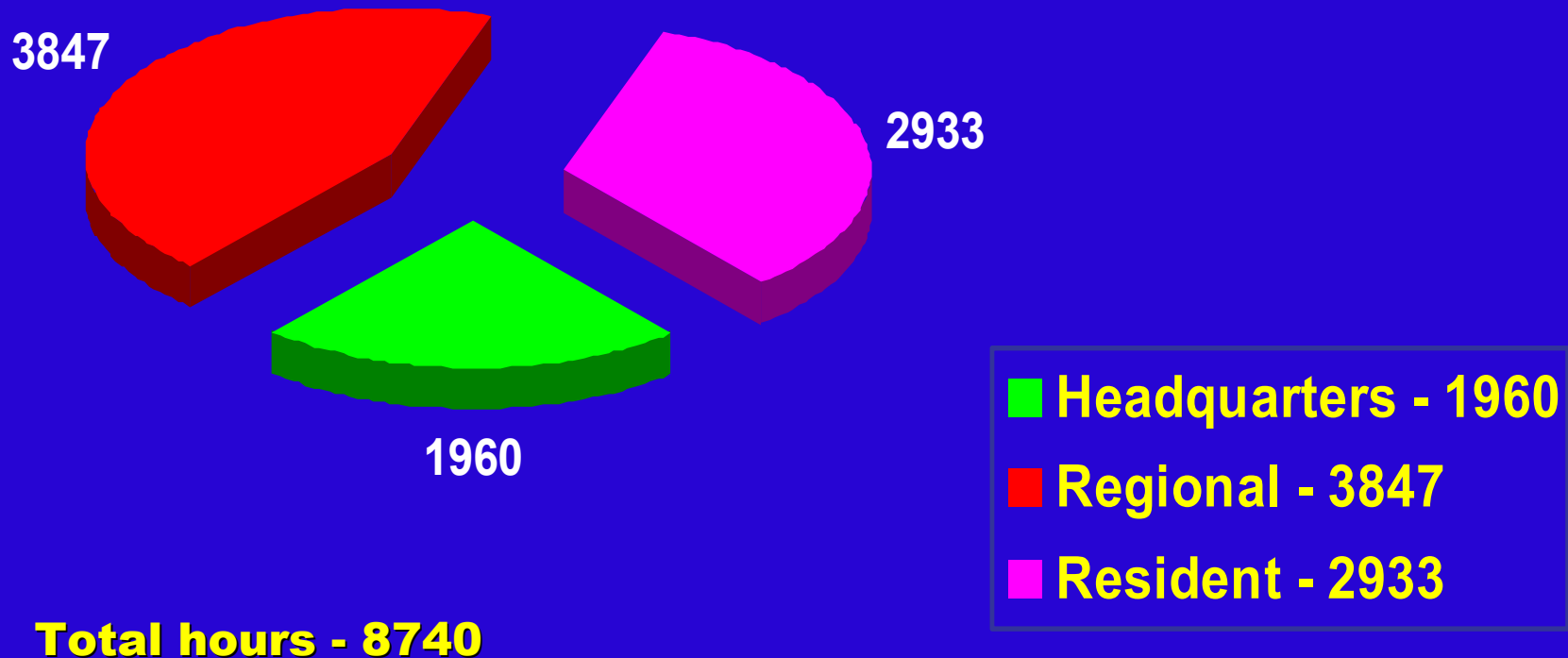


# **Meeting Agenda**

- **REGULATORY OVERSIGHT**
- **FINDINGS AND ASSESSMENTS**
- **ADDITIONAL FOCUS AREAS**
- **QUESTIONS AND ANSWERS**



# Overall NRC Effort



# **Resident Inspectors**

- **Stationed at the plant**
- **Prompt response capability**
- **2933 hours of oversight**





# **Regional Inspectors**

- **Specialized**
- **Inspection teams**
- **3847 hours of oversight**



# **Comprehensive Oversight Program**

**NRC'S  
Overall  
Safety  
Mission**

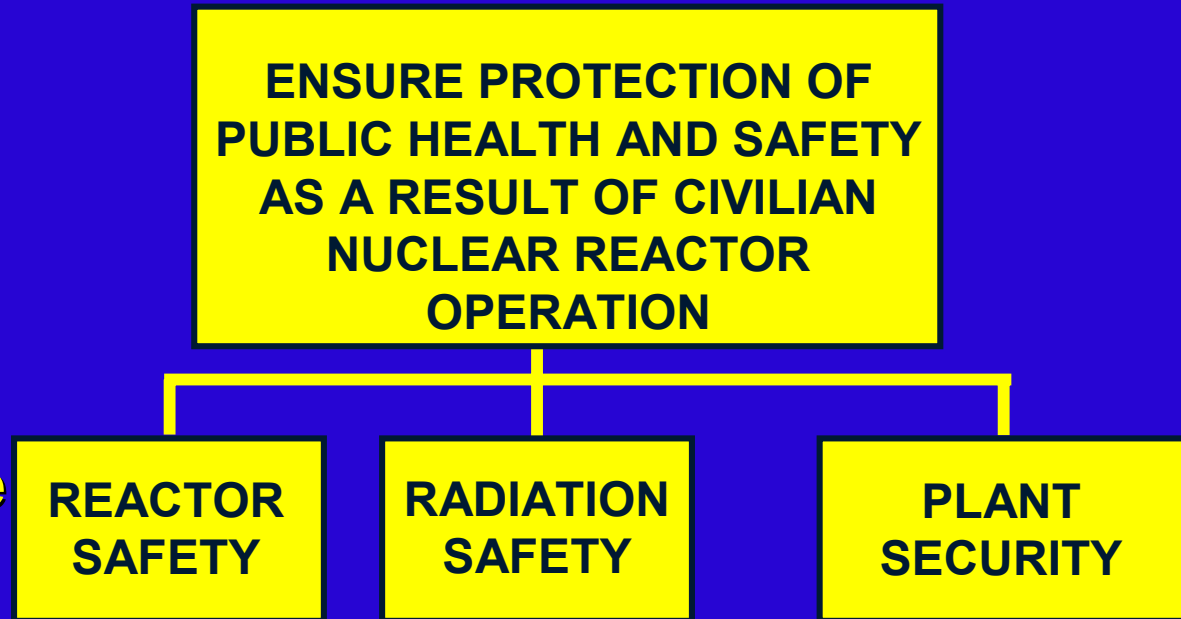
**ENSURE PROTECTION OF  
PUBLIC HEALTH AND SAFETY  
AS A RESULT OF CIVILIAN  
NUCLEAR REACTOR  
OPERATION**

**Strategic Performance  
Areas**

**REACTOR  
SAFETY**

**RADIATION  
SAFETY**

**PLANT  
SECURITY**

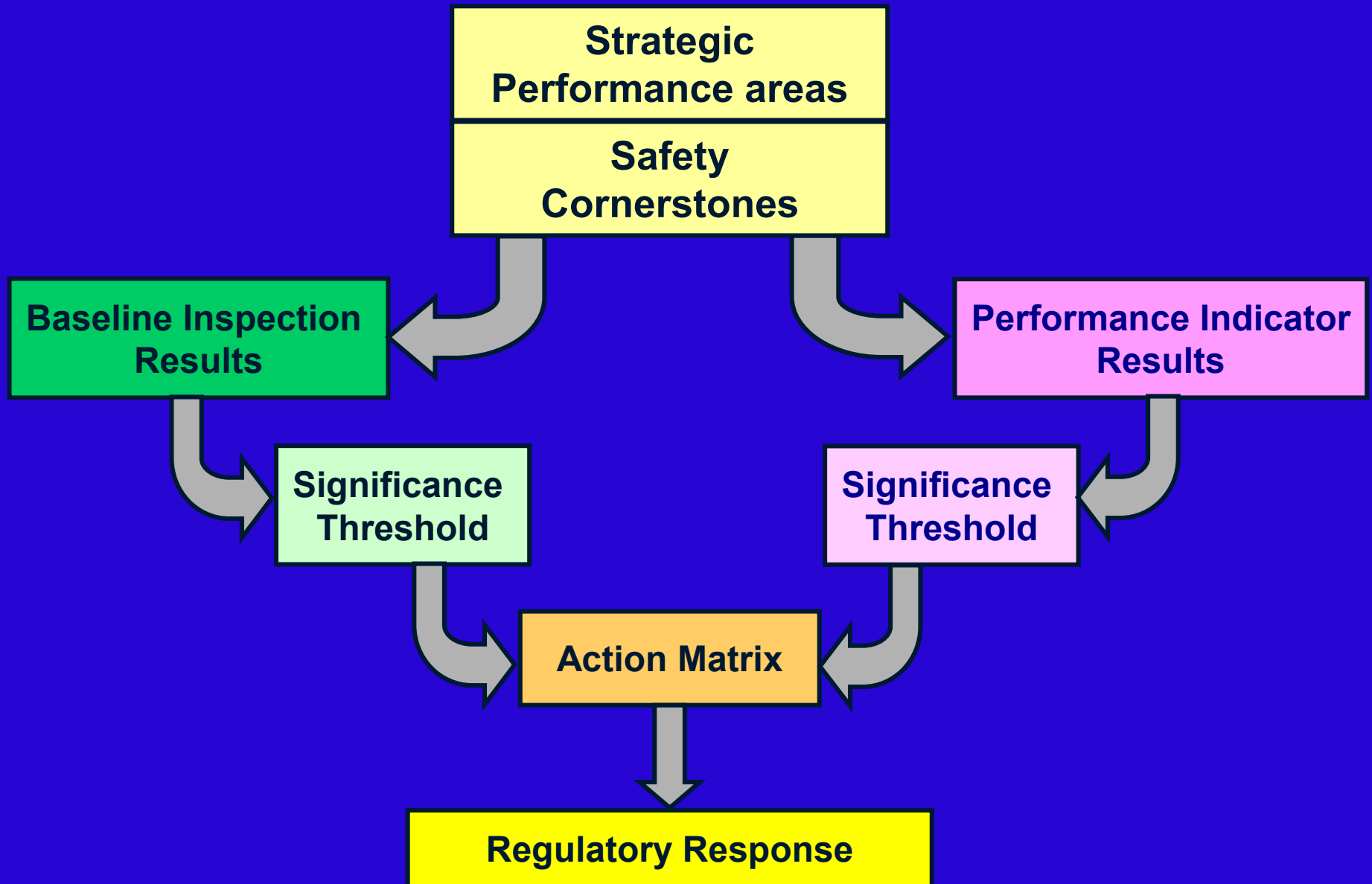


# **NRC Oversight Activities**

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



# Reactor Oversight Process



# **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](http://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**



# **Reactor Oversight Process**

## **SAFETY SIGNIFICANCE**

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**GREEN**

**- very low**

**WHITE**

**- low to moderate**

**YELLOW**

**- substantial**

**RED**

**- high**



# **Performance Indicator** **Program**

- **Licensee monitors key safety parameters**
- **Data supplied to NRC quarterly**



# **Performance Indicators**

- **Performance indicator results and other assessment information available on the NRC's public web site:**

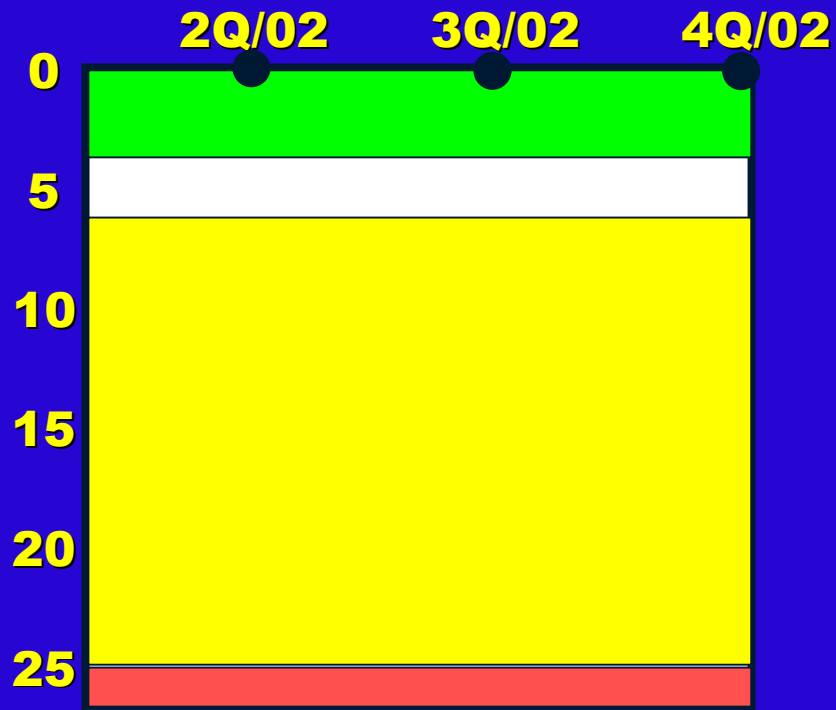
**[www.nrc.gov/NRR/OVERSIGHT/ASSESS/CP1/cp1\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/CP1/cp1_chart.html)**

**[www.nrc.gov/NRR/OVERSIGHT/ASSESS/CP2/cp2\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/CP2/cp2_chart.html)**



# Performance Indicators

## Unplanned Scrams per 7000 critical hours



**Thresholds:**

**White >3.0,**

**Yellow >6.0,**

**Red >25.0**

Unplanned scrams per 7000 critical hours	2Q/02	3Q/02	4Q/02
Actual scrams	0	0	0
Critical hours	1541.0	2208	2208
Indicator value	0	0	0

# **Key Aspects of the Assessment Program**

- **Objective review of licensee performance**
- **“Action Matrix” to determine agency response in three areas:**
  - **Inspection**
  - **Management Involvement**
  - **Regulatory Actions**
- **Plant specific assessment letters**
- **Information on NRC public web site**



# **Plant Safety**

## **Performance Summary**



# **Plant Specific Data**

**Name of Plant:** Comanche Peak Steam Electric Station

**Plant Operator:** TXU

**Number of Units:** 2

**Reactor Type & Vendor:** Pressurized Water Reactor/  
Westinghouse

**Location:** Glen Rose, Texas

**Power Output (electrical):** 1215 Mwe net each

**Source of Circulating Water:** Reservoir

# **Major Plant Activities in 2002**

**Inspected Reactor Vessel Heads on  
Both Units 1 and 2**

# **Inspection Results**

**NRC and Licensee identified inspection findings were of very low safety significance**

**No supplemental inspections were necessary as a result of 2002 inspection findings**





# **Performance Indicator Results**

**All performance indicators within  
the Licensee Control Band**



# **ROP Action Matrix Summary for 2002**

	<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Cornerstone</b>	<b>Multiple/ Repetitive Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
<b>Nationwide</b>	<b>75</b>	<b>24</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>Region IV</b>	<b>15</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>

# **Assessment Conclusion**

## **Licensee effectively managed:**

- Reactor safety**
- Radiation safety**
- Plant security**

**Comanche Peak Steam Electric  
Station Station operated in a manner  
that protected the health and safety  
of the public**



# **LICENSEE RESPONSE**



# **Additional Focus Areas**

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



# **Nuclear Industry Issues**

- **Reactor Vessel Head Penetration Inspection**
- **Security at Nuclear Power Plants**

# **Post Davis-Besse**

## **Licensee Actions**

**Visual Inspection of Reactor Vessel Head Penetrations**

**Non-destructive Examination of Head Penetrations**

## **NRC Actions**

**Observation of Licensee Inspections and Examinations**

**Independent Inspection**



# **Security at Nuclear Power Plants**

## **Nuclear Regulatory Commission:**

- **Has expanded involvement with FBI, law enforcement and other intelligence agencies**
- **Communicates frequently with Department of Homeland Security, DOD, FAA, FEMA, and others**
- **Continues to work in concert with:**
  - **Licensees**
  - **State and local officials**





# **Security at Nuclear Power Plants**

## **Threat Advisory and Protective Measures System:**

- **communicates threats affecting NRC licensees**
- **corresponds to color-coded Homeland Security Presidential Directive**
- **Identifies specific actions to be taken by NRC licensees for each threat level**



# **Security at Nuclear Power Plants**

- **NRC issued over 30 safeguards & threat advisories**
- **Many of those advisories strengthened security and have been elevated into requirements**
- **Nuclear facilities are far ahead of other industries with regards to the level of security**



# **Future Outlook**

- **Power Uprates**
- **NRC has approved more than 80 applications to increase reactor power**
- **Approximately 51 applications for power uprates expected over next 5 years**



# **Future Outlook (Cont.)**

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



# **Conclusions**

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



# **Contacting the NRC**

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

**Select “What we do” for Public Affairs**

# **Contacts for Additional Information**

- **Regional Public Affairs Officer**

- **Victor Dricks**

- **Phone: (817) 860 – 8128**

- **State Liaison Officer**

- **William (Bill) Maier**

- **Phone: (817) 860 - 8267**