



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

APR 17 2003

Craig G. Anderson, Vice President,
Operations
Arkansas Nuclear One
Entergy Operations, Inc.
1448 S.R. 333
Russellville, Arkansas 72801-0967

SUBJECT: MEETING SUMMARY FOR THE ARKANSAS NUCLEAR ONE END-OF-CYCLE
PERFORMANCE ASSESSMENT

Dear Mr. Anderson:

This refers to the end-of-cycle performance assessment meeting conducted at Arkansas Tech University, Russellville, Arkansas, on April 9, 2003. Topics discussed during the meeting included the Reactor Oversight Process, the safety performance at Arkansas Nuclear One, and nuclear industry issues. The meeting attendance and copies of the slides presented at the meeting are included as Enclosures 1 and 2, respectively.

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,

Linda Joy Smith, Chief
Project Branch D
Division of Reactor Projects

Dockets: 50-313
50-368

Licenses: DPR-51
NPF-6

Enclosures:

1. Attendance List
2. Presentation Slides

Entergy Operations, Inc.

-2-

cc w/enclosures:
Executive Vice President
& Chief Operating Officer
Entergy Operations, Inc.
P.O. Box 31995
Jackson, Mississippi 39286-1995

Vice President
Operations Support
Entergy Operations, Inc.
P.O. Box 31995
Jackson, Mississippi 39286-1995

Manager, Washington Nuclear Operations
ABB Combustion Engineering Nuclear
Power
12300 Twinbrook Parkway, Suite 330
Rockville, Maryland 20852

County Judge of Pope County
Pope County Courthouse
100 West Main Street
Russellville, Arkansas 72801

Winston & Strawn
1400 L Street, N.W.
Washington, DC 20005-3502

Bernard Bevill
Radiation Control Team Leader
Division of Radiation Control and
Emergency Management
Arkansas Department of Health
4815 West Markham Street, Mail Slot 30
Little Rock, Arkansas 72205-3867

Mike Schoppman
Framatome ANP, Inc.
Suite 705
1911 North Fort Myer Drive
Rosslyn, Virginia 22209

Mr. Dewey Traylor
Emergency Service Coordinator
Pope County
No. 4 Emergency Lane
Russellville, Arkansas 72801

Entergy Operations, Inc.

-3-

Mr. Charlie Smith
Emergency Service Coordinator
Yell County Courthouse
Union Street
Dardanelle, Arkansas 72834

Mr. Fred Taylor
Emergency Service Coordinator
Johnson County Office of Emergency Services
P.O. Box 546
Clarksville, Arkansas 72830

Mr. Don Fairbanks
Emergency Service Coordinator
Logan County Office of Emergency Services
Logan County Courthouse
Paris, Arkansas 72855

The Honorable Steve Pfeifer
Mayor of Danville
P.O. Box 69
Danville, Arkansas 72833

The Honorable Bill Elsken
Mayor of Paris
P.O. Box 271
Paris, Arkansas 72855

The Honorable Billy Helms
Mayor of Clarksville
205 Walnut Street
Clarksville, Arkansas 72830-3005

The Honorable Carolyn McGee
Mayor of Dardanelle
P.O. Box 360
Dardanelle, Arkansas 72834

The Honorable Johnny Waldo
Mayor of Dover
P.O. Box 258
Dover, Arkansas 72837

The Honorable Jerry Don Barrett
Mayor of Atkins
P.O. Box 128
Atkins, Arkansas 72823

Entergy Operations, Inc.

-4-

The Honorable Raye Turner
Mayor of Russellville
P.O. Box 428
Russellville, Arkansas 72811

The Honorable Edwin Price
Mayor of London
P.O. Box 130
London, Arkansas 72847

The Honorable Stewart Nelson
Mayor of Morrilton
City Hall
P.O. Box 583
Morrilton, Arkansas 72110

The Honorable Jimmy L. Witt
Mayor of Yell County
Danville Courthouse
P.O. Box 219
Danville, Arkansas 72833

The Honorable Jimmy Hart
Judge of Conway County
117 South Moose, Room 203
Morrilton, Arkansas 72110

The Honorable Mike Jacobs
Judge of Johnson County
P.O. Box 278
Clarksville, Arkansas 72830

The Honorable Edward Holt
Judge of Logan County
Room 22
Paris, Arkansas 72855

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

The Honorable Jim Ed Gibson
Judge of Pope County
Courthouse
100 West Main Street
Russellville, Arkansas 72801

END-OF-CYCLE MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy/Arkansas Nuclear One
DATE/TIME	April 9, 2003 6:30 PM
LOCATION	Doc Bryan Student Center, Russellville, Arkansas
NAME (PLEASE PRINT)	ORGANIZATION
Linda Smith	USNRC - RIV - DRP - PBD
Russ Bywater	USNRC - RIV - DRP - PBD
Bernie Bevil	Arkansas Department of Health
JOSE ARROYO	USNRC - HQ - WRR/DSSA/SPLB
Craig Anderson	Entergy - Arkansas Nuclear One
DEBBIE ANDERSON	
Phillip Fisher	Entergy
Mike Helgesen	KARK-TV
Bob Fowler	Entergy
Sherrie Cotton	Entergy
David Maxwell	ADEM
FRED TAYLOR	JOHNSON COUNTY OEM
CHRIS Meyer	Ark. Dept of Health - ANP

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NAME (PLEASE PRINT)	ORGANIZATION
M. C. Cooper	Entergy ANO
Karl Jones	Entergy ANO
Sam Jones	Russellville
Comper Chudbourn	Entergy
Regina Smith	The Courier
Joe Kowalewski	ENTERGY - ANO
Dewey Traylor	Pope Co. DEM.
Glenn Ashley	Entergy - ANO
Clifford Eubanks	Entergy - ANO
Tim McNeill	Entergy - ANO
JAMES McWILLIAMS	Entergy - ANO

Electronic distribution by RIV:
 Regional Administrator (**EWM**)
 DRP Director (**ATH**)
 DRS Director (**DDC**)
 Senior Resident Inspector (**RLB3**)
 Branch Chief, DRP/D (**LJS**)
 Senior Project Engineer, DRP/D (**JAC**)
 Staff Chief, DRP/TSS (**PHH**)
 RITS Coordinator (**NBH**)

ADAMS: Yes No Initials: _____
 Publicly Available Non-Publicly Available Sensitive Non-Sensitive

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RIV:PE:DRP/B	C:DRP/D			
JLDixon;df	LJSmith			
<i>alsj</i>	<i>CD for</i>			
4/17/03	4/17/03			

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

ANNUAL ASSESSMENT MEETING



Nuclear Regulatory Commission

Region IV

Annual Licensee Assessment Meeting

- **Public forum to discuss licensee performance**
- **Licensee performance documented in Annual Assessment Letter**
- **Licensee responds to letter providing information related to improving their 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**





Nuclear Regulatory Commission

Region IV

Arkansas Nuclear One

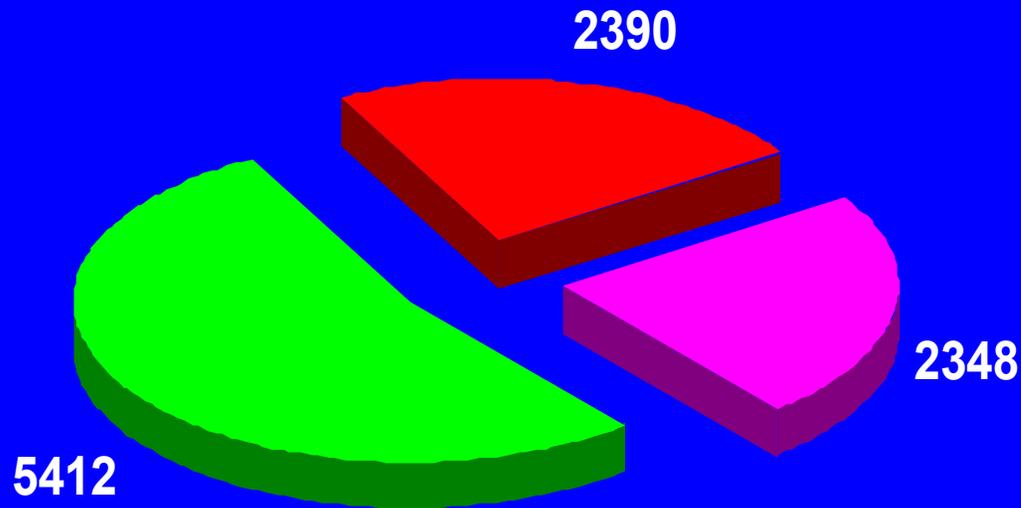


Meeting Agenda

- **Regulatory Oversight**
- **Findings and Assessments**
- **Additional Focus Areas**
- **Questions and Answers**



Overall NRC Effort



Total hours – 10,150

- Headquarters - 5412
- Regional - 2390
- Resident - 2348

Nuclear Reactor Regulation

- **Reviewed and approved Unit 1 Technical Specifications change to Improved Standard Technical Specifications**
- **Reviewed and approved 7.5% power uprate implemented on Unit 2**

5412 hours expended in the above effort



Resident Inspectors

- **Stationed at the plant**
- **Prompt response capability**
- **2348 hours of oversight**



Regional Inspectors

- **Specialized**
- **Inspection teams**
- **2390 hours of oversight**

Comprehensive Oversight Program

**NRC'S
Overall
Safety
Mission**

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

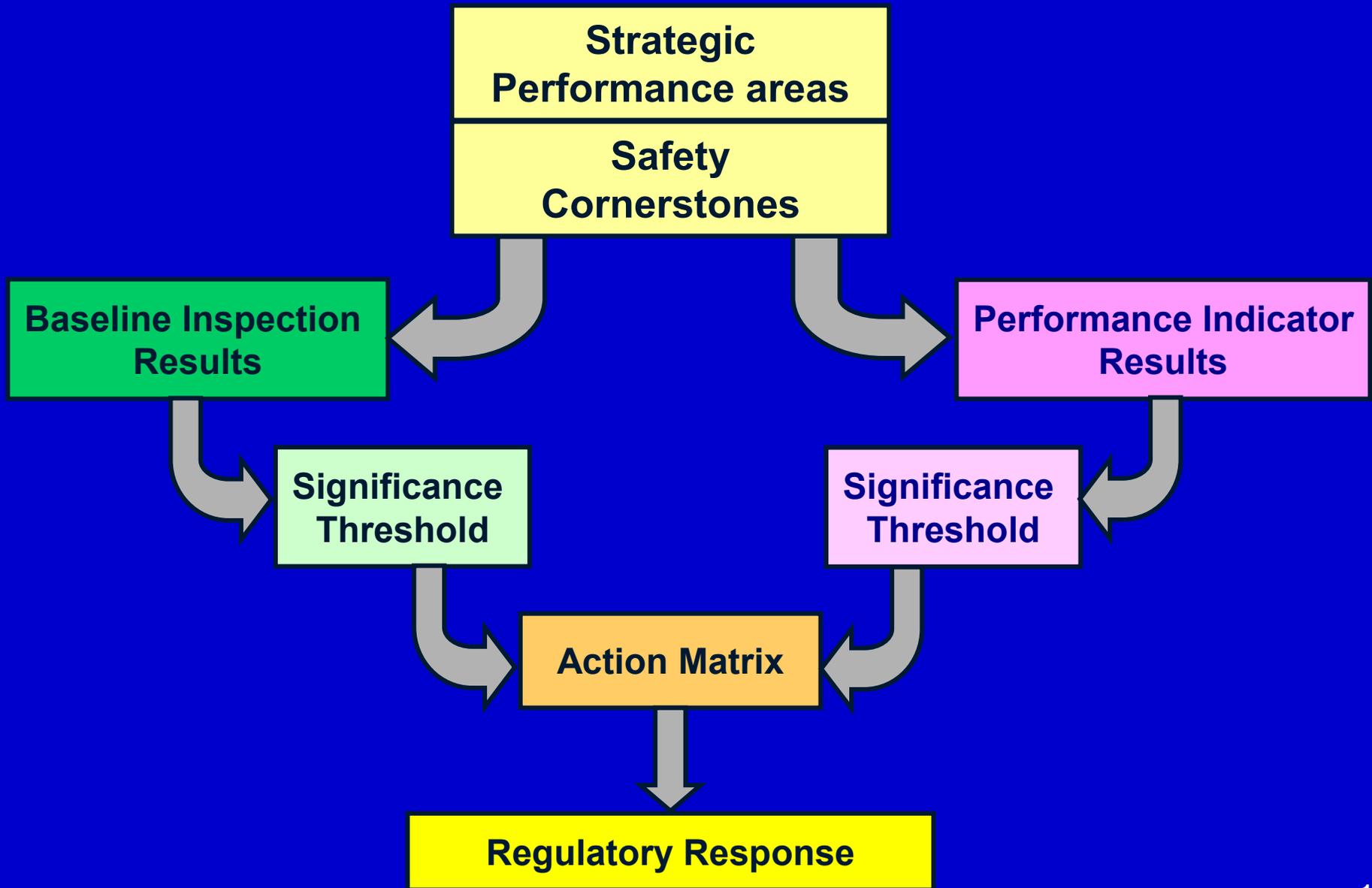
**Strategic Performance
Areas**

**REACTOR
SAFETY**

**RADIATION
SAFETY**

**PLANT
SECURITY**

Reactor Oversight Process



Key Aspects of the Assessment Program

- **Objective review of licensee performance**
- **“Action Matrix” identifies agency response commensurate with safety significance**
- **Increasing safety significance results in:**
 - **Increased levels of inspection**
 - **Involvement of higher levels of NRC and Licensee Management**
 - **Increased regulatory action**



Reactor Oversight Process

SAFETY SIGNIFICANCE

GREEN

- very low

WHITE

- low to moderate

YELLOW

- substantial

RED

- high

Baseline Inspection Program

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

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

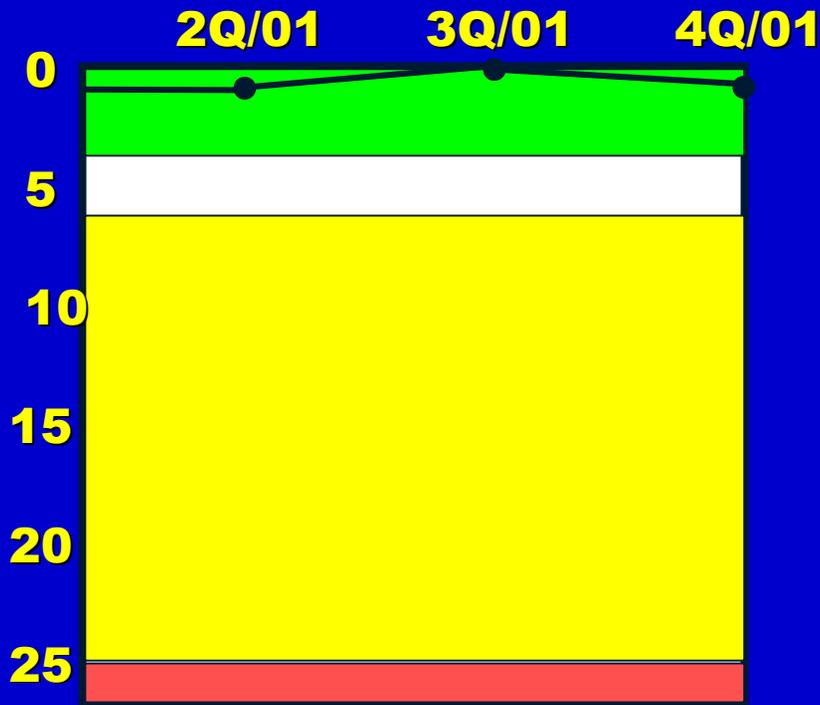
Performance Indicator Program

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



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	1
Critical hours	2183.0	2208.0	1289.2
Indicator value	0.9	0.0	0.9

Assessment Results and Performance Indicators

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

www.NRC.gov/NRR/OVERSIGHT/ASSESS/ANO1/ano1_chart.html

www.NRC.gov/NRR/OVERSIGHT/ASSESS/ANO2/ano2_chart.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

Licensee safety performance is monitored by:

- **performance indicators**
- **evaluating inspection findings**

Safety performance letter written every six months

Public meetings on annual basis

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



Plant Safety Performance Summary



Inspection Results

- **NRC and Licensee identified inspection findings were of very low safety significance**
- **Inspection results within the Licensee Response Band**
- **No special or supplemental inspections necessary**



Performance Indicator Results

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



Assessment Conclusion

Licensee effectively managed:

- Reactor safety
- Radiation safety
- Plant security

Arkansas Nuclear One operated 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 Cornerstone	Unacceptable Performance
Nationwide	75	24	2	1	0
Region IV	15	5	0	1	0



Arkansas Nuclear One



Additional Focus Areas

- **NRC Responds As-Needed**
- **Mandate Licensee Actions**
- **Implement Emergency Response**



Nuclear Industry Issues

- **Potential Reactor Vessel Head Degradation**
- **Security at Nuclear Power Plants**



Reactor Vessel Head Degradation

- **Wastage found on Davis-Besse reactor vessel head**
- **Inspections required by Bulletins**
- **Lessons Learned**
- **Order Issued**



Reactor Vessel Head Degradation

- **NRC specialists monitored ANO reactor vessel head inspection during Unit 1 and Unit 2 Outages**
- **Reactor vessel heads did not have wastage**



Security at Nuclear Power Plants

- **NRC created Office of Nuclear Security and Incident Response**
 - **Provides more efficient counterpart to Office of Homeland Security**
- **Top-to-bottom review of Security Program Initiated**



Security at Nuclear Power Plants

- **Issuance of Orders/Interim Compensatory Measures (ICM)**
- **Verification of licensee actions regarding ICMs**



Security at Nuclear Power Plants

- **Pending Orders on fatigue/guard training**
- **Initiation of pilot Force-on-Force Exercise**
- **NRC working with FAA has prohibited planes from circling or loitering above nuclear power plants**
- **Has expanded involvement with other federal agencies**



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**



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