

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION IV
1600 EAST LAMAR BOULEVARD
ARLINGTON, TEXAS 76011-4511

June 21, 2018

Mr. Richard L. Anderson, Site Vice President Arkansas Nuclear One Entergy Operations, Inc. N-TSB-58 1448 S.R. 333 Russellville, AR 72802-0967

SUBJECT:

SUMMARY OF ANNUAL ASSESSMENT MEETING WITH ENTERGY

OPERATIONS, INC., REGARDING 2017 PERFORMANCE OF

ARKANSAS NUCLEAR ONE

Dear Mr. Anderson:

This refers to the public meeting conducted at the Reeves E. Richie Training Center, Russellville, Arkansas, on May 31, 2018, between the Nuclear Regulatory Commission (NRC) and your staff. Approximately 100 people attended the public meeting, including members of the general public, with representatives from the Arkansas Bureau of Health, the Arkansas Democrat-Gazette, and the Russellville Courier.

During the meeting, the NRC presented the results of the annual assessment of safety performance at Arkansas Nuclear One for the period of January 1 through December 31, 2017, and discussed the completion of the Confirmatory Action Letter follow-up inspections, as well as the decision to return Arkansas Nuclear One to Column 1 of the Reactor Oversight Process Action Matrix. The NRC maintains a Web site to summarize the issues that resulted in the Column 4 assessment and the inspection process while Arkansas Nuclear One remained in Column 4 (https://www.nrc.gov/info-finder/reactors/ano/special-oversight.html).

During the meeting, your staff provided a presentation and responded to the NRC's assessment observations and exit meeting comments. During the public comment/question and answer portion of the meeting, the only question was directed to Arkansas Nuclear One and you responded.

Copies of the NRC and Arkansas Nuclear One presentations from the meeting is included as Enclosures 1 and 2, respectively.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the 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 matter, we will be pleased to discuss them with you.

Sincerely,

Neil O'Keefe, Chief Project Branch E

Division of Reactor Projects

Docket No. 50-313 and 50-368 License No. DPR-51 and NPF-6

Enclosures:

1. NRC Presentation

2. ANO Presentation

cc w/encl:

Electronic Distribution for Arkansas Nuclear One



Meeting to Discuss Arkansas Nuclear One Performance

2017 Annual Assessment

May 31, 2018

1

NRC Staff Introductions

- Kriss Kennedy
 - Regional Administrator, Region IV
- Troy Pruett
 - Director, Division of Nuclear Materials Safety,
 Region IV
- Neil O'Keefe
 - Branch Chief, Region IV
- Chris Henderson
 - Senior Resident Inspector, ANO



ANO Introductions

Richard Anderson

Site Vice President
Arkansas Nuclear One
Entergy Operations, Inc.



Opening Remarks

Kriss Kennedy Regional Administrator, NRC Region IV



Agenda

- NRC Assessment of ANO
- Results of NRC inspections
- ANO Presentation
- NRC Closing Remarks
- Public Comments and Questions



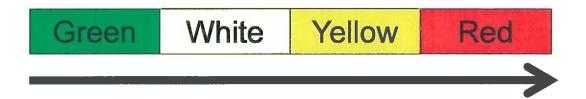


ANO Performance Assessment for 2017

Chris Henderson
Senior Resident Inspector at ANO

Significance Thresholds

Inspection Findings and Performance Indicators



Increasing safety significance
Increasing NRC inspections and oversight



Action Matrix Columns

Column 4 Column 1 Column 2 Column 3 Multiple/ Column 5 Licensee Regulatory Degraded Repetitive Unacceptable Response Response Performance Degraded Performance Cornerstone

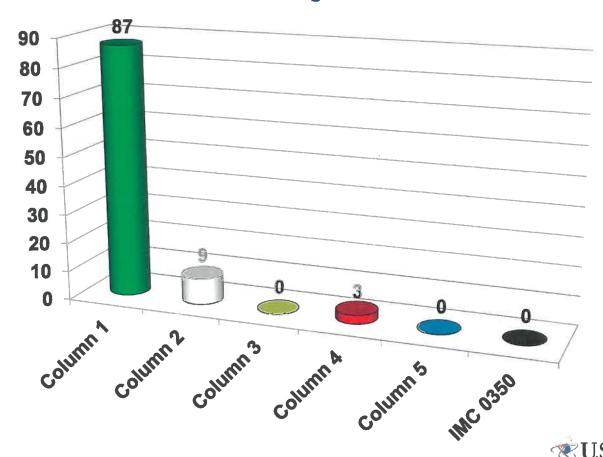
- Increasing safety significance of inputs
- Increasing NRC oversight



ANO Entered Column 4 in 2015

- Yellow Findings: Stator drop event
- Yellow Findings: Flood protection deficiencies
- White Performance Indicator (Unit 2): Unplanned Scrams

Current Industry Performance



Findings and Performance Indicators

- All Green performance indicators
- 14 Green inspection findings
- White EDG delayed closure
- Progress on corrective actions to address Yellow findings





ANO Performance Improvement Inspection Results

Neil O'Keefe

Branch Chief for ANO

Confirmatory Action Letter Focused on Six Inspection Areas

Yellow Findings
Corrective Action Program
Human Performance
Equipment and Engineering Programs
Safety Culture
Service Water System Self-Assessment



NRC Independently Verified Improved Performance

Response to Yellow findings
Response to White finding
Equipment reliability
Staffing and training
Corrective action program

NRC Independently Verified Improved Performance (Cont.)

- Safety culture
- Nuclear fundamentals
- Procedure adherence and quality
- Operations focus
- Service water system

Action to Sustain Performance Improvements

- Work management
- Procedure and work instructions
- Service water system
- Equipment modifications and upgrades
- Staff development

NRC Actions Performed

- 3600 hours of supplemental inspections
- 2800 hours of Confirmatory Action Letter (CAL) follow-up inspections
- Closed Yellow findings
- Closed White finding



Conclusions

- Objectives of Confirmatory Action Letter have been met – CAL is closed
- Performance at ANO consistent with ROP Action Matrix Column 1 – return to Column 1
- ANO continues to implement longer term actions to continue and sustain improvements



ANO Presentation

Richard Anderson

Site Vice President
Arkansas Nuclear One
Entergy Operations, Inc.



NRC Closing Remarks

Kriss Kennedy

Regional Administrator NRC Region IV



Questions or Comments?



Reference Sources

- Reactor Oversight Process
 https://www.nrc.gov/reactors/operating/oversight.
 html
- Public Electronic Reading Room
 - www.nrc.gov/reading-rm.html
- Public Document Room
 - 1-800-397-4209 (Toll Free)
- To sign up for NRC news and correspondence
 - www.nrc.gov/public-involve/listserver/plants-byregion.html



NRC Social Media Channels



Blog: public-blog.nrc-gateway.gov/

Flickr: www.flickr.com/photos/nrcgov/

Twitter: twitter.com/#!/nrcgov

YouTube: www.youtube.com/user/NRCgov

RSS: www.nrc.gov/public-

involve/listserver.html#rss



Contacting the NRC

- 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
 - Select "What We Do" for Public Affairs

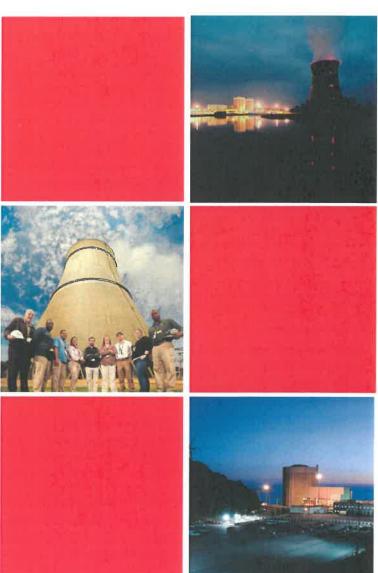




NRC End of Cycle Meeting Arkansas Nuclear One

May 31, 2018





ANO Status

Transitioned from Recovery to Pursuit of Excellence Plan

- Effective and sustainable actions implemented
- Focus on primary drivers of performance improvement





ANO Closing Remarks

Committed to:

- Long-term safe and reliable operations
- Continue to evolve as we learn
- Sustained improving trajectory



WE POWER LIFE™

SUMMARY OF ANNUAL ASSESSMENT MEETING WITH ENTERGY OPERATIONS, INC., REGARDING 2017 PERFORMANCE OF ARKANSAS NUCLEAR ONE – June 21, 2018

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DOCUMENT NAME: ANO EOC Meeting Summary 5-31-2018.docx ADAMS ACCESSION NUMBER: ML18176A131

☑ SUNSI Review Bv: NFO		ADAMS ☑ Yes □ No	 ☑ Publicly Available ☑ Non-Publicly Available 	☑ Non-Sensitive ☐ Sensitive	Keyword: NRC-002
OFFICE	SPE:DRP/E	BC:DRP/E	Tront ability / trailable	TE CONSIDER	11110 002
NAME	JDixon	NO'Keefe			
SIGNATURE	/RA/	/RA/			
DATE	6/21/18	6/21/18			

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