UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 21, 2023

MEMORANDUM TO: Antonios Zoulis, Chief
PRA Oversight Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

FROM: Reinaldo Rodriguez, Reliability and Risk Analyst ***/RA/***
PRA Oversight Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MARCH 30, 2023, PROBABILISTIC RISK ASSESSMENT CONFIGURATION CONTROL PUBLIC WORKSHOP WITH THE NUCLEAR ENERGY INSTITUTE AND OTHER INDUSTRY STAKEHOLDERS

On March 30, 2023, the U.S. Nuclear Regulatory Commission (NRC) staff held an observation public meeting with the Nuclear Energy Institute and Industry, to continue the discussions between the NRC staff, industry stakeholders, and the public regarding enhancing the NRC's oversight of the licensee's implementation of its Probabilistic Risk Assessment (PRA) Configuration Control (PCC) process. Specifically, the staff provided an update of its efforts in developing a balanced approach to enhance the inspection activities of the Reactor Oversight Process associated with PCC. This meeting offered an opportunity for the industry and public to provide feedback on the staff's observations from the voluntary tabletop effort and on the staff's recommendation to enhance the oversight efforts associated with PCC.

The slides presented for this public meeting are available in Agencywide Documents Access and Management System under Accession No. ML23088A083. A list of attendees is included in Enclosure 1. A list of presenters is included in Enclosure 2. The details of the meeting are discussed in Enclosure 3.

Comments from some members of the industry included:

- The NRC should carefully consider the frequency in which Operating Experience Smart samples are performed to align with the licensee's PRA updates and to avoid inspection fatigue.

- Staff should consider changing the frequency of the inspections based on the performance of the licensee based on previous inspections.

Enclosures:
As stated

CONTACT: Reinaldo Rodriguez, NRR/DRA
404-997-4498
Reinaldo.Rodrigues@nrc.gov

Lundy Pressley, NRR/DRA
404-997-4621
Lundy.Pressley@nrc.gov

As of the date of this summary, no responses have been received on the Public Meeting Feedback System.

No regulatory decisions or commitments were made at the meeting.

SUBJECT: SUMMARY OF MARCH 30, 2023, PROBABILISTIC RISK ASSESSMENT CONFIGURATION CONTROL PUBLIC WORKSHOP WITH THE NUCLEAR ENERGY INSTITUTE AND OTHER INDUSTRY STAKEHOLDERS DATED: 4/21/2023

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SMehta, NRR
NMelly, RES
AMihalik, NRR
EMiller, NRR
CMoulton, NRR
CNg, NRR
LPressley, NRR
JRobinson, NRR
RRodriguez, NRR
MSalley, RES
DStroup, RES
JTappert, RES
GTaylor, RES
KTetter, NRR
CTyree, NRR
SVasavada, NRR
SWeerakkody, NRR
JRankin, NRR
SLay, NRR
RGladney, NRR
DJohnson, OEDO
LMcKown, OEDO

**ADAMS Accession Nos**.:
**Package:** ML23115A307
**Meeting Notice:** ML23065A157
**Package of Meeting Slides:** ML23088A083
**Meeting Summary:** ML23115A301 ***by e-mail**

| OFFICE | NRR/DRA/APOB | NRR/DRA/APOB | NRR/DRA/APOB: BC |
|---|---|---|---|
| NAME | RRodriguez | LPressley | AZoulis |
| DATE | 4/12/2023 | 4/12/2023 | 4/13/2023 |

**OFFICIAL RECORD COPY**

**LIST OF ATTENDEES**

**MARCH 30, 2023, PROBABILISTIC RISK ASSESSMENT**

**CONFIGURATION CONTROL PUBLIC WORKSHOP WITH THE NUCLEAR ENERGY INSTITUTE AND OTHER INDUSTRY STAKEHOLDERS**

| | |
|---|---|
| Andrew Mihalik | NRC |
| Andy Rosebrook | NRC |
| Antonios Zoulis | NRC |
| Cale Young | NRC |
| Chris Speer | NRC |
| David Werkheiser | NRC |
| Alex Garmoe | NRC |
| John Hanna | NRC |
| Lundy Pressley | NRC |
| Matthew Humberstone | NRC |
| Meena Khanna | NRC |
| Michelle Kichline | NRC |
| Mike Franovich | NRC |
| Reinaldo Rodriguez | NRC |
| Rick Deese | NRC |
| Russell Felts | NRC |
| Shane Sandal | NRC |
| Tania Martinez Navedo | NRC |
| Enrique Meléndez | Consejo de Seguridad Nuclear (Spain) |
| George Pristas | DOMINIONENERGY |
| Jake Littlepage | DOMINIONENERGY |
| James Pak | DOMINIONENERGY |
| Mary Miller | DOMINIONENERGY |
| Thomas Jaeger | DOMINIONENERGY |
| Alexander Rubbicco | DUKE-ENERGY |
| BryanCarroll | DUKE-ENERGY |
| Clem Littleton | DUKE-ENERGY |
| Hadi Hadavi | DUKE-ENERGY |
| Heather Szews | DUKE-ENERGY |
| Jennifer Varnedoe | DUKE-ENERGY |
| Robert Boyer | DUKE-ENERGY |
| Robert Rishel | DUKE-ENERGY |
| Se-Kwon Jung | DUKE-ENERGY |
| Andrew Borsi | ENERGY HARBOR |
| Daniel Weller | ENERGY HARBOR |
| Devin S | ENERGY HARBOR |
| Douglas Rapp | ENERGY HARBOR |
| Tony Mangan | ENERGY HARBOR |
| James Laborde | ENTERGY |
| Wes Johnson | ENTERGY |
| Rob Burg | EPM-INC |

| | |
|---|---|
| Fernando Ferrante | Electric Power Research Institute |
| Steve Catron | Florida Power and Light (FPL) |
| Joseph Stringfellow | FPL |
| Keith Vincent | FPL |
| Luke Karten | FPL |
| Glen Seeman | General Electric |
| Amy Pittman | JENSENHUGHES |
| Andrew Thomas | JENSENHUGHES |
| Andy Ratchford | JENSENHUGHES |
| Brian Burgio | JENSENHUGHES |
| Brian Nolan | JENSENHUGHES |
| Edward Parsley | JENSENHUGHES |
| Edward Simbles | JENSENHUGHES |
| John Spaargaren | JENSENHUGHES |
| Kaven Liu | JENSENHUGHES |
| Pupek, Chris | JENSENHUGHES |
| Boatwright, Walter | LUMINANT |
| Victoria Anderson | Nuclear Energy Institute |
| Gary DeMoss | Public Service Energy Group of NJ |
| Mohamed Talaat | Simpson Gumpertz & Heger |
| Benny Ratnagaran | SOUTHERNCO |
| Faramarz Pournia | SOUTHERNCO |
| Vish Patel | SOUTHERNCO |
| Hudson Molly | South Texas Project Electric Generating Station (STPEGS) |
| Kristin Kaspar | STPEGS |
| Mary Billings | STPEGS |
| Russell Jones | STPEGS |
| Zhiping Li | STPEGS |
| Bradley Dolan | Tennessee Valley Authority (TVA) |
| Stephen Farlett | TVA |
| Adam Stein | XCELENERGY |
| Ronald Jacobson | XCELENERGY |
| Aaron Quaderer | Unaffiliated/Public |
| Shahin Seyedhosseini | Unaffiliated/Public |

**LIST OF PRESENTERS**

**MARCH 30, 2023, PROBABILISTIC RISK ASSESSMENT**

**CONFIGURATION CONTROL PUBLIC WORKSHOP WITH THE NUCLEAR ENERGY INSTITUTE AND OTHER INDUSTRY STAKEHOLDERS**

| | |
|---|---|
| Lundy Pressley | U.S. Nuclear Regulatory Commission |
| Victoria Anderson | Nuclear Energy Institute |

**MEETING DETAILS**

**MARCH 30, 2023, PROBABILISTIC RISK ASSESSMENT**

**CONFIGURATION CONTROL PUBLIC WORKSHOP WITH THE NUCLEAR ENERGY INSTITUTE AND OTHER INDUSTRY STAKEHOLDERS**

Purpose

The purpose of this meeting was to continue the discussions between the U.S. Nuclear Regulatory Commission (NRC) staff, industry stakeholders, and the public regarding enhancing the NRC's oversight of the licensee's implementation of its Probabilistic Risk Assessment (PRA) Configuration Control (PCC) process. Specifically, the staff provided an update of its efforts in developing a balanced approach to enhance the inspection activities of the Reactor Oversight Process associated with PCC. This meeting offered an opportunity for the industry and public to provide feedback on the staff's observations from the voluntary tabletop effort and on the staff's recommendation to enhance the oversight efforts associated with PCC.

Background

The PRA PCC Framework objective is to develop guidance for PRA PCC and a balanced approach of some level of oversight to establish a regulatory footprint in the PRA PCCs area, closing an existing oversight gap in the ROP; and develop the necessary training and qualifications to support those inspections in this area. The framework proposes an eventual graded tiered approach concept for future oversight of risk-informed programs (RIPs) and PCCs within Inspection Manual Chapter 2515, "Light Water Reactor Inspection Program Operations Phase," (ADAMS Accession No. ML21062A084) and its Appendices.

This proposed tiered concept for future oversight of RIPs and PRA PCC provides a balanced approach to inspections within the ROP. Training, qualifications, and inspection level of effort will be the key decision inputs and priorities as the staff proceeds with this effort. Those inputs will help shape the recommendations for management review and approval that will be informed by industry feedback.

Meeting Details

The presenters provided the following presentations:

Lundy Pressley of the NRC opened the workshop with a presentation with the following PCC updates:

- PCC background
- Summary of PCC tabletops site-visits
- Observations from the tabletop site-visits

Victoria Anderson of the Nuclear Energy Institute addressed the following topics:

- Industry lessons-learned from the tabletops evaluations
- Future and ongoing industry actions

- Continuing points for future PCC evaluations

Mr. Pressley continued the workshop with a presentation on the proposed PCC path forward. The key messages from Mr. Lundy's presentation included the following:

- Some level of oversight is appropriate to ensure the PRA is maintained over the life of the plant. The staff is taking a balanced approach of focused inspections within the existing ROP to monitor Plant/PRA changes and ensure appropriate implementation of PCC programs for licensee PRA models that support risk-informed decision-making.

- The NRC Working Group has leveraged insights from the information gathered from the voluntarily tabletops that were conducted, as well as interactions with industry and public meetings, to develop its options and draft recommendations for the PCC framework.

- The NRC Working Group is proposing an Operating Experience Smart Sample (OpESS), which would be flexible and applicable to the specific risk-informed initiatives in place at the specific site where it would be utilized. The OpESS would also have additional management oversight in its implementation, and conforms with typical OpESS, which is designed to be used as an additional tool for aiding inspection staff to prepare for baseline inspections within the ROP.

- Any issues identified during the use of the OpESS would be reviewed using cross-regional panels to ensure consistency. The OpESS would provide a means of feedback on any PCC issues identified from associated inspections and contribute to future long-term oversight activities of PCC.

  Mr. Pressley concluded with a list of upcoming NRC activities regarding PCC, including conducting additional public meetings with industry as the staff completes various deliverables associated with this initiative.