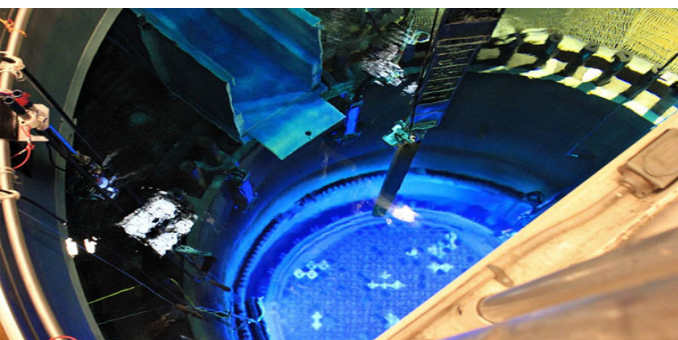




Risk Informed Steering Committee (RISC) Meeting

June 22, 2021

Michael X. Franovich, Director
Division of Risk Assessment
Office of Nuclear Reactor Regulation



AGENDA

High Energy Arc Fault Update

PRA Acceptability Update

Expanded Integration FLEX

Future RISC Focus Areas

Fall Risk Forum Discussion




Aluminum Enhanced High Energy Arc Fault (AI HEAF) - Current Status

- Pre-generic issue (GI)-018
- Achieving regulatory resolution is a **priority**
- **Tangible progress** on previously communicated resolution path (December 2, 2020, RISC; ML20336A228)

- ✓ EPRI/NRC WG is **close to completing** major improvements to modeling of AI HEAF
- ✓ Evaluating the ability of electrical raceway fire barrier systems (ERFBS) to **mitigate the impact** from AI HEAF
- ✓ Developing the **strategies** for a risk-informed resolution
- ✓ Continued **communication and outreach** (e.g., April 6th public meeting)



AI HEAF – Considering External Stakeholder Feedback

- 
- Operational experience (OpE)
 - ✓ **Explicitly included** in improved modeling
 - ✓ **Small sample size** limits decision-making solely on OpE
 - ✓ OpE includes **risk significant** events and impacts on **operator response**
 - Insights from EPRI survey report related to AI HEAF(3002020692*); Examples include:
 - ✓ **Extent and type** of electrical equipment containing AI in US plants
 - ✓ Features that **reduce** AI HEAF impact
 - ✓ Number of plants that “need **further evaluation**”

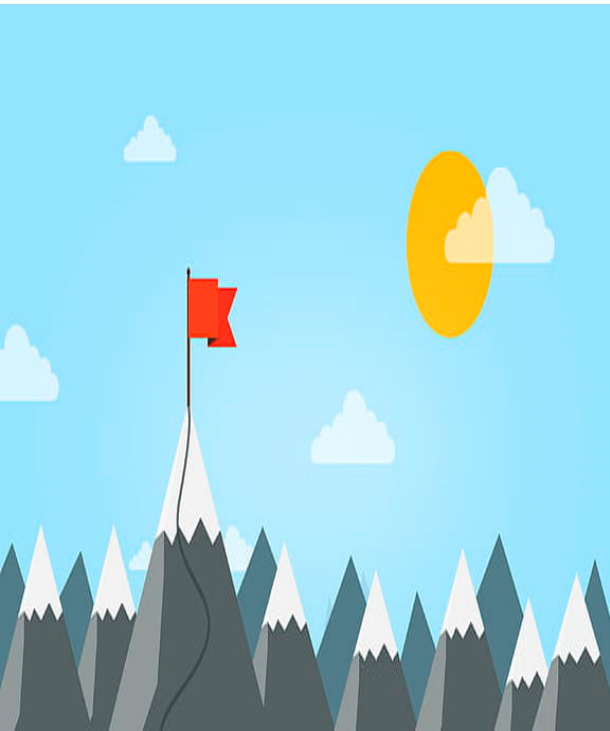
* Report is publicly and freely available from www.epri.com using the report number

AI HEAF – Developing a Practical Resolution Strategy

- Industry cooperation required to support a **timely, efficient, and risk-informed resolution.**
 - ✓ **Conserves** resources and **focuses** attention
 - ✓ Incorporates **lessons learned** from previous GI outcomes
 - ✓ Consistent with **Enterprise Risk Management** concepts (e.g., managing reputational risk)
 - ✓ **Backfit Rule** would continue to be applied



AI HEAF – What's Next



- Completion of major modeling improvements - **Summer 2021**
- Solicitation of industry pilot plants for assessment - **Fall 2021**
- Regulatory decision-making based on assessment results - **Winter 2021**

PRA Configuration and Control

PRA found acceptable

Issuance of SE

Plant Modifications

Operating Experience
and Data

PRA maintenance and upgrades

Assessing the gap

Fall Risk Forum Topics - Overview

**Operating
Fleet
Status**

**Applied PRA
and
Current
Practices**

Presentations from:

- **Office of Research**
- **NEI**
- **Union of Concerned Scientists**

Operating Fleet Status

Presentations from:

- **NRR**
- **EPRI**
- **Industry**

Applied PRA and Current Practices

Questions?

