

# ***2020 Annual Assessment Webinar***

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***Beaver Valley – Calvert Cliffs  
Limerick – Peach Bottom – Susquehanna  
Hope Creek – Salem  
FitzPatrick – Ginna – Nine Mile Point***

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**Nuclear Regulatory Commission - Region I  
King of Prussia, PA  
June 16, 2021**



# Panelists



**Jonathan Greives**

**Branch Chief**

**Branch 4**

**Limerick**

**Peach Bottom**

**Susquehanna**



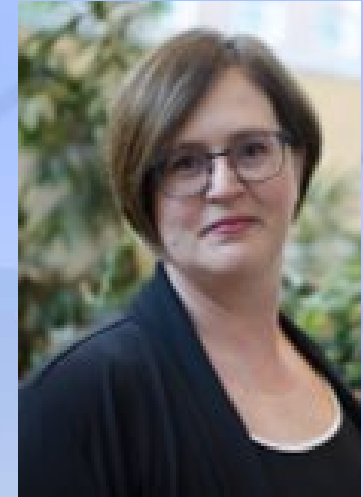
**Brice Bickett**

**Branch Chief**

**Branch 3**

**Salem**

**Hope Creek**



**Erin Carfang**

**Branch Chief**

**Branch 1**

**Ginna**

**FitzPatrick**

**Nine Mile Point**



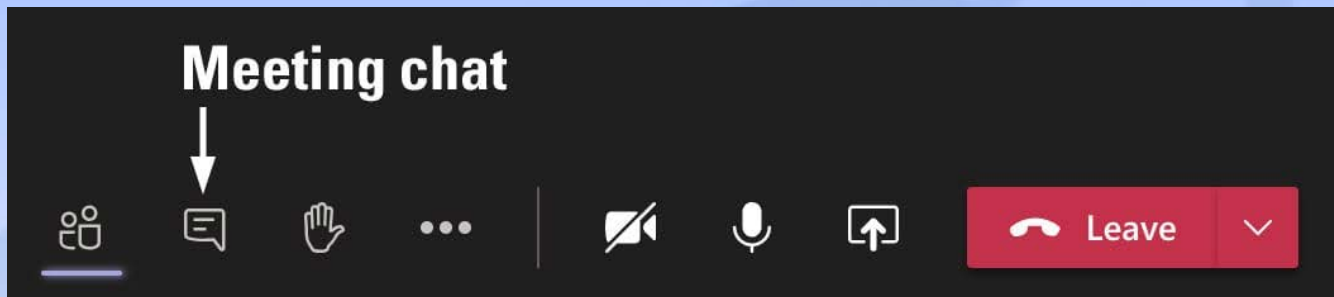
# ***Meeting Conduct***

- **All participants will be muted during presentations by NRC staff**
- **The chat is enabled to allow you to ask questions during the meeting.**
- **We encourage mutual respect on the part of NRC staff and attendees.**



# ***How to Ask a Question***

- **Type in your question at any time using Microsoft Teams.**



**- or -**

- **You can wait until the question-and-answer session to ask your question out loud**

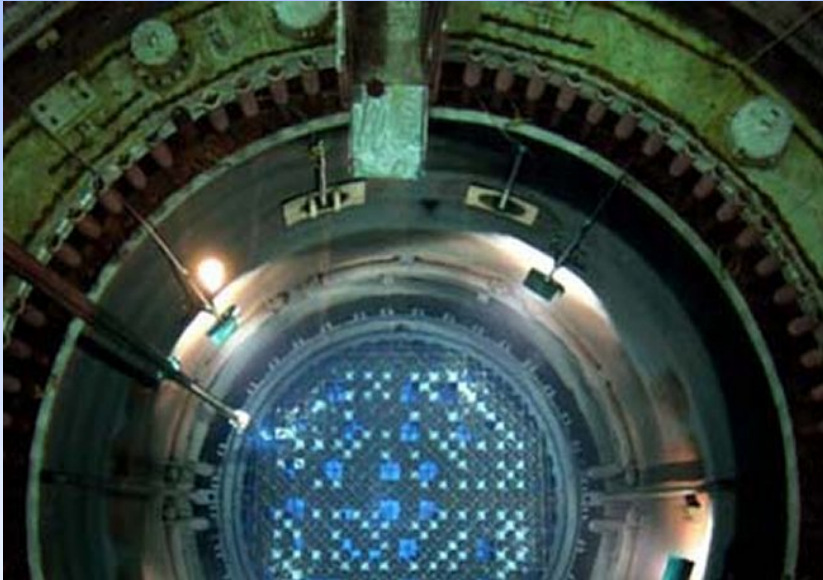


# ***Agenda***

- **Reactor Oversight Process (ROP)**
- **COVID-19 Response**
- **2020 Safety Performance Overview**
  - Beaver Valley
  - Calvert Cliffs
  - Limerick
  - Peach Bottom
  - Susquehanna
  - Hope Creek
  - Salem
  - Ginna
  - Nine Mile Point
  - FitzPatrick
- **Question-and-answer Session**



# Our Mission



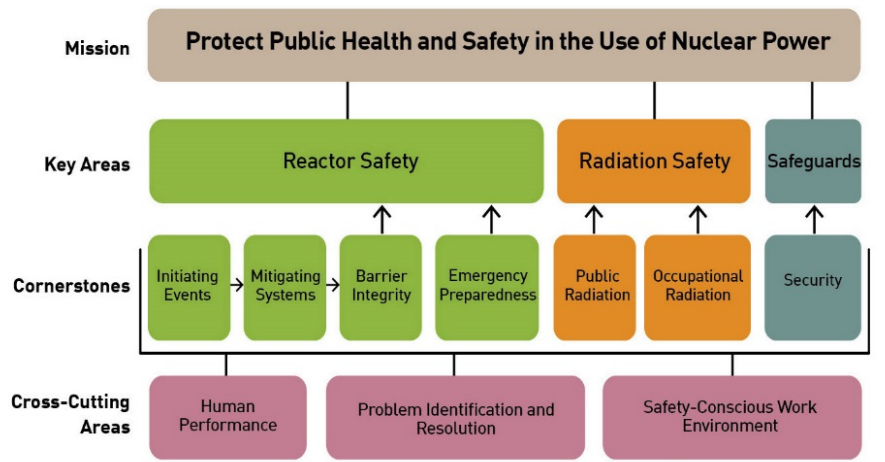
*To license and regulate the Nation's civilian use of radioactive materials to provide reasonable assurance of adequate protection of public health and safety and to promote the common defense and security and protect the environment.*





# Reactor Oversight Process

## Reactor Oversight Framework



as of July 2015



## Reactor Oversight Action Matrix Performance Indicators

### Performance Indicators



### Inspection Findings



as of July 2015

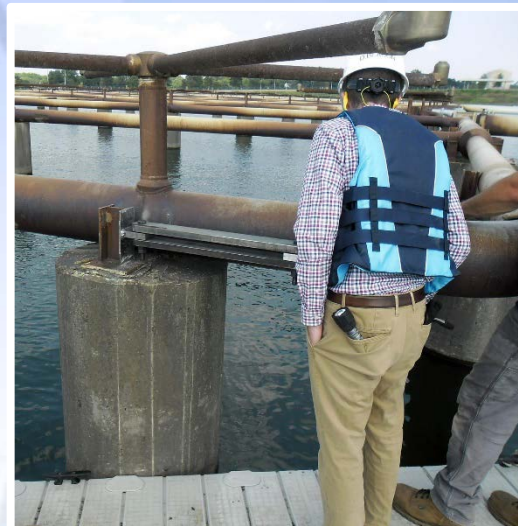




# ***NRC Independent Safety Inspections***

## **Reactor Oversight Process**

- **NRC inspectors have unfettered access to all plant activities related to nuclear safety and security**







# ***Action Matrix Concept***

<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Performance</b>	<b>Multiple/Repetitive Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
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**Inspection Findings + Performance Indicators = Plant Assessment**

**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**



# ***NRC Actions in Response to Covid-19***

- **Accomplished both onsite and remote oversight activities during the ongoing public health emergency, while taking precautions to minimize exposure to COVID-19**
- **Some inspections were conducted remotely at plants given the enhanced ability to do remote inspection in combination with targeted on-site inspection aspects**
- **As conditions have improved, we have increased our on-site inspection presence**
- **The Agency maintained emergency response capabilities within Regional Incident Response Centers and HQ**



# Actions in Response to Covid-19





## ***NRC Relief/Exemptions Due to COVID-19***

- Temporary flexibility that maintained continued safe and secure operation, while supporting the national priority of reducing the spread of COVID-19
- Some of these exemptions include:
  - Deferral of some outage-related inspection activities
  - Exemption to work hour restrictions in 10 CFR Part 26
  - Exemption from performing annual security training per 10 CFR Part 73
- More information can be found on the NRC webpage:  
<https://www.nrc.gov/about-nrc/covid-19/reactors/>





# ***Beaver Valley Resident Inspectors***



**Gwynne Eatmon**

**Senior Resident Inspector**



**Ronald Rolph**

**Resident Inspector**

# **Beaver Valley** **2020 Assessment Summary**

- Operated safely
- Licensee Response Column
- 5608 hours of inspection and related activities
- Green Performance Indicators
- 4 Green Findings and 1 Severity Level IV Violation
- Baseline inspection in 2021





# ***Calvert Cliffs Resident Inspectors***



**Rodney Clagg**  
**Senior Resident Inspector**



**Sarah Obadina**  
**Resident Inspector**



# **Calvert Cliffs**

## **2020 Assessment Summary**

- **Operated safely**
- **Licensee Response Column**
- **6118 hours of inspection and related activities**
- **Green Performance Indicators**
- **3 Green Findings and 1 Severity Level IV Violation**
- **Baseline inspection in 2021**







# ***Limerick Resident Inspectors***



**Adam Ziedonis**  
Senior Resident Inspector



**Sherlyn Haney**  
Resident Inspector

# **Limerick** **2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **6776 hours of inspection and related activities**
- **Green Performance Indicators**
- **2 Green Findings and 2 Severity Level IV Violations**
- **Baseline inspection in 2021**





# ***Peach Bottom Resident Inspectors***



**Scott Rutenkroger**  
Senior Resident Inspector



**Peter Boguszewski**  
Resident Inspector

# **Peach Bottom 2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **6026 hours of inspection and related activities**
- **Green Performance Indicators**
- **5 Green Findings and Non-Cited Violations**
- **Baseline inspection in 2021**







# ***Susquehanna Resident Inspectors***



**Christopher Highley**  
Senior Resident Inspector



**Matthew Rossi**  
Resident Inspector

# **Susquehanna** **2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **5173 hours of inspection and related activities**
- **Green Performance Indicators**
- **2 Green Findings and 1 Severity Level IV Violation**
- **Baseline inspection in 2021**





# ***Salem Resident Inspectors***



**Justin Hawkins**  
**Senior Resident Inspector**



**Gordon Walbert**  
**Resident Inspector**

# **Salem** **2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **6681 hours of inspection and related activities**
- **Green Performance Indicators**
- **4 Green Findings and No Violations**
- **Baseline inspection in 2021**







# ***Hope Creek Resident Inspectors***



**Matthew Hardgrove**  
Senior Resident Inspector



**Daniel Beacon**  
Resident Inspector

# **Hope Creek 2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **4462 hours of inspection and related activities**
- **Green Performance Indicators**
- **2 Green Findings and No Violations**
- **Baseline inspection in 2021**





# ***Ginna Resident Inspectors***



**Jason Schussler**  
Senior Resident Inspector



**Stephen Monarque**  
Resident Inspector

# **Ginna** **2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **7524 hours of inspection and related activities**
- **Green Performance Indicators**
- **No Findings and No Violations**
- **Baseline inspection in 2021**





# **Nine Mile Point Resident Inspectors**



**Greg Stock**  
Senior Resident Inspector



**Beth Sienel**  
Resident Inspector



**Jake Dolecki**  
Resident Inspector

# **Nine Mile Point 2020 Assessment Summary**

- **Operated Safely**
- **Licensee Response Column**
- **7819 hours of inspection and related activities**
- **Green Performance Indicators**
- **1 Green Finding and 3 Green NCVs**
- **Baseline inspection in 2021**





# ***James A. FitzPatrick*** ***Resident Inspectors***



**Eric Miller**  
**Senior Resident Inspector**



**Jennifer England**  
**Resident Inspector**



# **James A. FitzPatrick**

## **2020 Assessment Summary**

- **Operated Safely**
- **Regulatory Response Column (4Q 2020)**
- **6889 hours of inspection and related activities**
- **1 White NOV**
- **Green Performance Indicators**
- **2 Green Findings, 6 Green NCVs, & 1 Severity Level IV Violation**







# **James A. FitzPatrick**

## **2020 White NOV**

- April 10, 2020 – Oil leak developed from a pressure-control valve diaphragm during a test of the High Pressure Coolant Injection (HPCI) oil system.
- The leak resulted from a defective component that was the subject of a 10 CFR Part 21 notice in July 2010.
- Not identified by Exelon staff prior to installation in December 2017.



# **James A. FitzPatrick**

## **2020 White NOV**

- Inspection Report 2020012
- Finding of low to moderate safety significance (White)
- Two associated apparent violations
  - Title 10 of the *Code of Federal Regulations* (CFR) Part 50, Appendix B, Criterion XV, "Nonconforming Materials, Parts, or Components,"
  - 10 CFR Part 50, Appendix B, Criterion VII, "Control of Purchased Material, Equipment, and Services," because Exelon failed to control defective parts and prevent their use.



# ***James A. FitzPatrick***

## ***2020 White NOV***

- **Exelon Corrective Actions**
  - Replacement of the pressure-control valve
  - Review of parts database to assess other components subject to 10 CFR Part 21
  - Procedure update for parts subject to Part 21
  - Communications with procurement staff on the event



# **James A. FitzPatrick**

## **Regulatory Response**

<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Performance</b>	<b>Multiple/Repetitive Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
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- **As of the fourth quarter of 2020, FitzPatrick transitioned to the Regulatory Response Column based on the White Finding related to the HPCI pressure-control valve.**
- **In addition to the normal baseline inspection, a supplemental inspection under NRC Inspection Procedure 95001 will be conducted.**





# ***Supplemental Meeting Feedback***

We are looking for specific feedback  
on the format of this meeting



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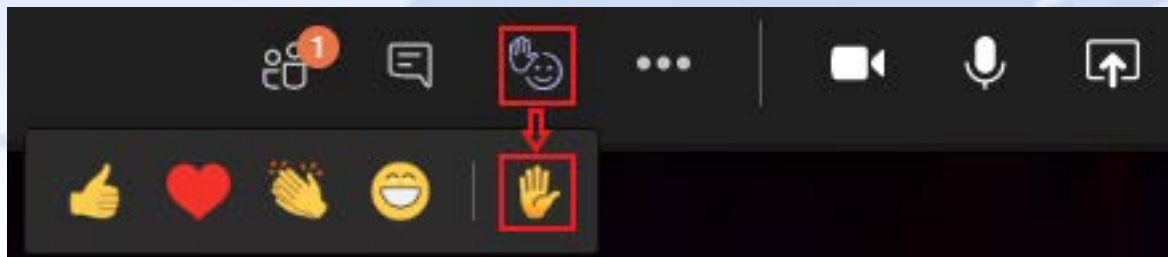


# Question-and-Answer Session

Type in your question at any time via the Microsoft Teams chat function

- or -

Raise your hand in Microsoft Teams.





# ***Office of Public Affairs***



**Diane Screnci**  
**Diane.Screnci@nrc.gov**  
**610-337-5330**



**Neil Sheehan**  
**Neil.Sheehan@nrc.gov**  
**610-337-5331**



# NRC Social Media Channels



- Facebook: [www.facebook.com/nrcgov/](http://www.facebook.com/nrcgov/)
- Flickr: [www.flickr.com/photos/nrcgov/](http://www.flickr.com/photos/nrcgov/)
- Twitter: [twitter.com/#!/nrcgov](http://twitter.com/#!/nrcgov)
- YouTube: [www.youtube.com/user/NRCgov](http://www.youtube.com/user/NRCgov)
- RSS: [www.nrc.gov/public-involve/listserver.html#rss](http://www.nrc.gov/public-involve/listserver.html#rss)





# ***More Information***

- **Inspection Reports**
  - <https://www.nrc.gov/reactors/operating/oversight/listofrpts-body.html>
- **Reactor Oversight Process**
  - <https://www.nrc.gov/reactors/operating/oversight.html>
- **Fact Sheets and Brochures**
  - <https://www.nrc.gov/reading-rm/doc-collections/fact-sheets/>
- **NRC Information Digest**
  - <https://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1350/>
- **Regulations**
  - <https://www.nrc.gov/reading-rm/doc-collections/cfr/>



# ***Supplemental Meeting Feedback***

We are looking for specific feedback  
on the virtual format of this meeting



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# ***BACKUP SLIDES***



# ***National Summary of Plant Performance***

**Status as of 03/4/2021**

<b>Licensee Response</b>	<b>90</b>
<b>Regulatory Response</b>	<b>3</b>
<b>Degraded Cornerstone</b>	<b>1</b>
<b>Multiple/Repetitive Deg. Cornerstone</b>	<b>0</b>
<b>Unacceptable</b>	<b>0</b>
<b>IMC 0350 Oversight</b>	<b>0</b>
<b>Total</b>	<b>94</b>





# National Summary

- **Performance Indicator Results for 2020\***

– Green	6457
– White	1
– Yellow	1
– Red	0

\*PIs are counted per plant per quarter

- **Total Inspection Findings in 2020#**

– Green	240
– Greater-than-Green	2
– White	2
– Yellow	0
– Red	0

# Finding data current as of 3/4/2021



# Action Matrix Concept

<b>Licensee Response</b> 1	<b>Regulatory Response</b> 2	<b>Degraded Performance</b> 3	<b>Multiple/Repetitive Degraded Cornerstone</b> 4	<b>Unacceptable Performance</b> 5
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**Inspection Findings + Performance Indicators = Plant Assessment**

**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**



# Reactor Oversight Process

## Reactor Oversight Action Matrix Performance Indicators

### Performance Indicators



### Inspection Findings



as of July 2015



# **Beaver Valley Plant Status**

- **First Energy Nuclear Operation Company and First Energy Nuclear Generation LLC emerged from bankruptcy**
- **Ownership transferred from FirstEnergy Nuclear Operating Company (FENOC) to Energy Harbor Nuclear Corporation**
- **Licensee withdrew its “Permanent Cessation of Power Operations” request**

