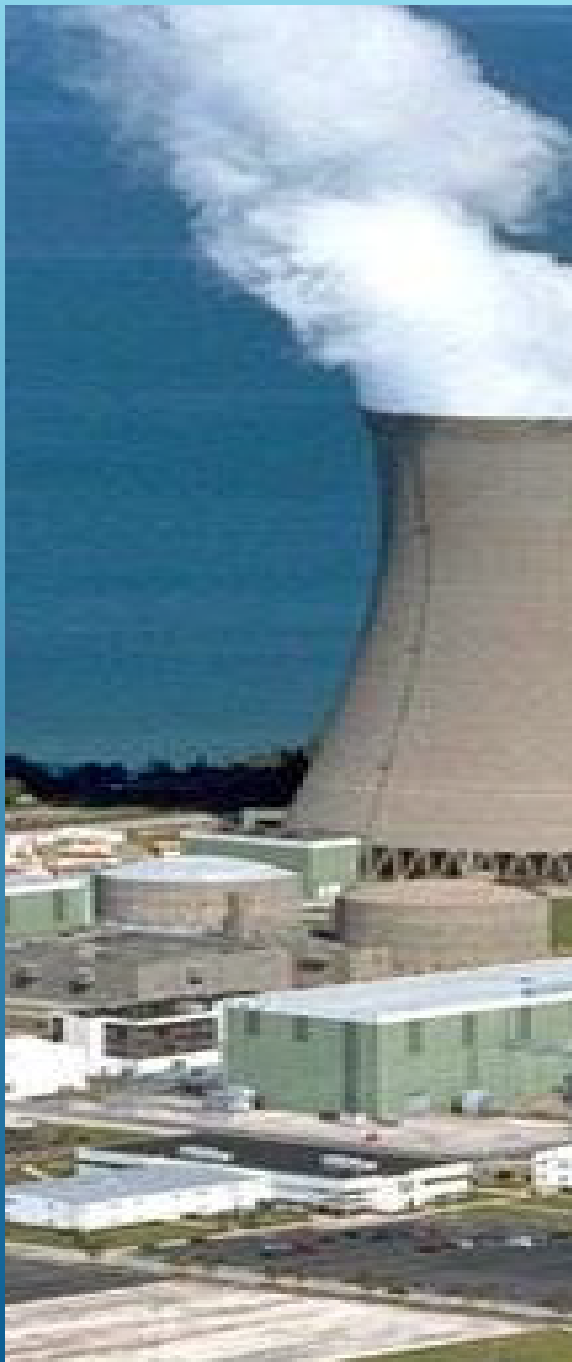


# NRC 2021 ANNUAL ASSESSMENT DAVIS-BESSE NUCLEAR POWER STATION

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Interactive Audio for this presentation will be available only through the Microsoft Teams Application.



# HOST

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## **Billy Dickson**

Branch Chief

Division of Reactor Projects

Branch 2



# PURPOSE OF TODAY'S MEETING

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- ▶ A public forum for discussion of the licensee's performance in 2021
- ▶ NRC will address the performance issues identified in the annual assessment letter
- ▶ Licensee will be given the opportunity to respond and inform the NRC of new or existing programs to maintain or improve performance

# AGENDA

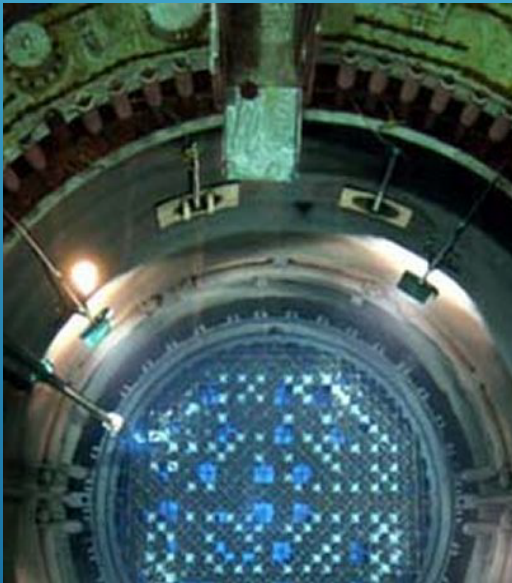
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- ▶ Introduction
- ▶ Review of Reactor Oversight Process
- ▶ National Summary of Plant Performance
- ▶ Discussion of Plant Performance Results
- ▶ NRC Closing Remarks
- ▶ Break
- ▶ NRC available to address public questions



# ABOUT THE NRC

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The NRC licenses and regulates the Nation's civilian use of radioactive material to achieve the following goals:

- ▶ Safety – Ensure adequate protection of public health and safety and the environment
- ▶ Security – Ensure adequate protection of the secure use and management of radioactive materials

# SOME NUCLEAR FACTS

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▶ 92 nuclear power plants supply about 20 percent of the electricity in the U.S.

▶ Nuclear materials are used in medicine for diagnosis and cancer treatment



▶ Nuclear materials are widely used in industry, such as in density gauges, flow measurement devices, radiography devices, and irradiators



# THE NRC REGULATES

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- ▶ Nuclear reactors - commercial power reactors, research and test reactors, new reactor designs
- ▶ Nuclear materials - nuclear reactor fuel, radioactive materials for medical, industrial, and academic use
- ▶ Nuclear waste – transportation, storage and disposal of nuclear material and waste, decommissioning of nuclear facilities
- ▶ Nuclear security – physical security of nuclear facilities and materials from sabotage or attacks

# HOW WE REGULATE

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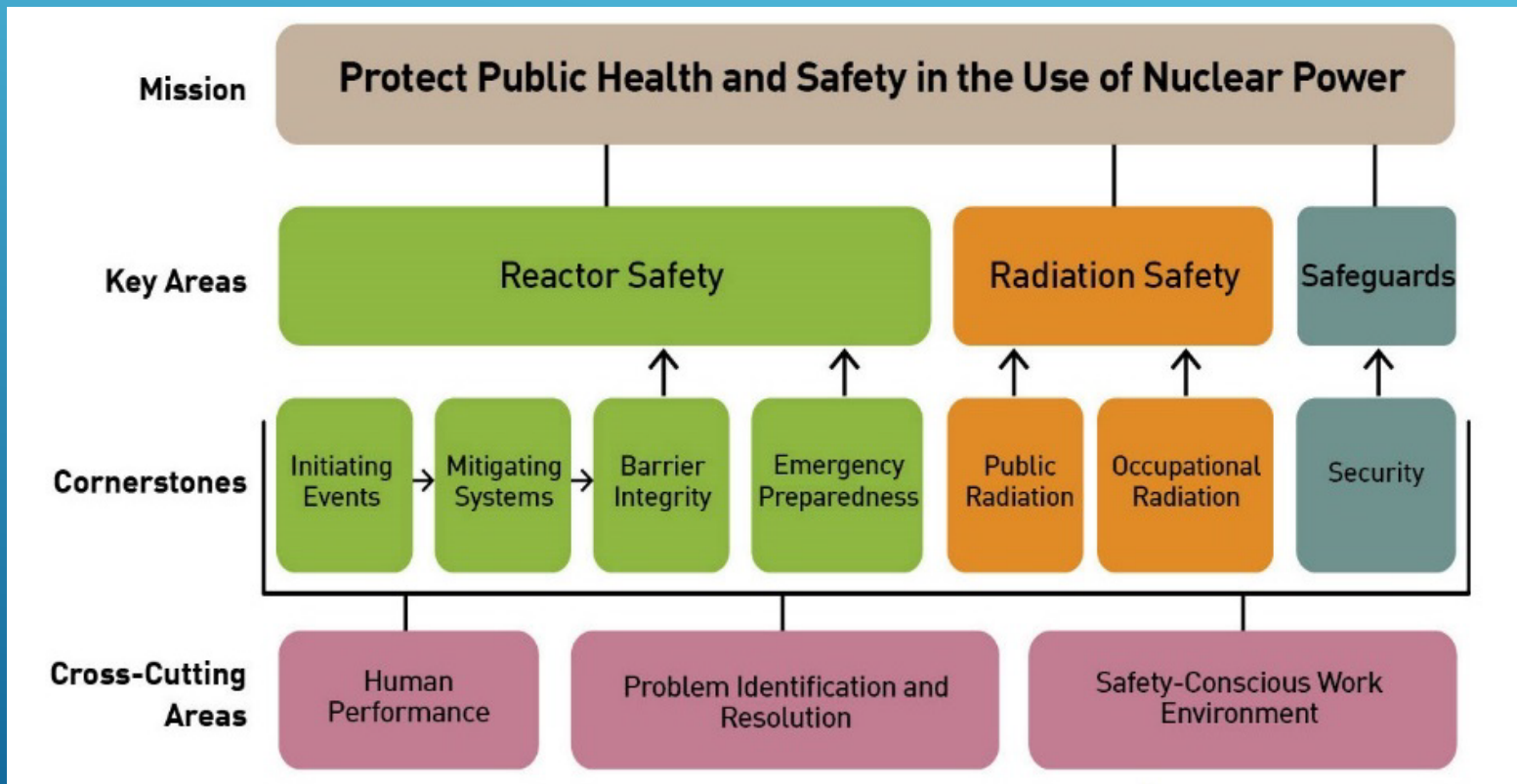
- ▶ Establish rules and regulations
- ▶ Issue licenses
- ▶ Provide oversight through inspection, enforcement, and evaluation of operational experience
- ▶ Conduct research to provide support for regulatory decisions
- ▶ Respond to events and emergencies

# WHAT WE DON'T DO

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- ▶ Regulate nuclear weapons, military reactors, or space vehicle reactors
- ▶ Own or operate nuclear power plants
- ▶ Regulate some radioactive materials, such as X-rays and naturally occurring radon

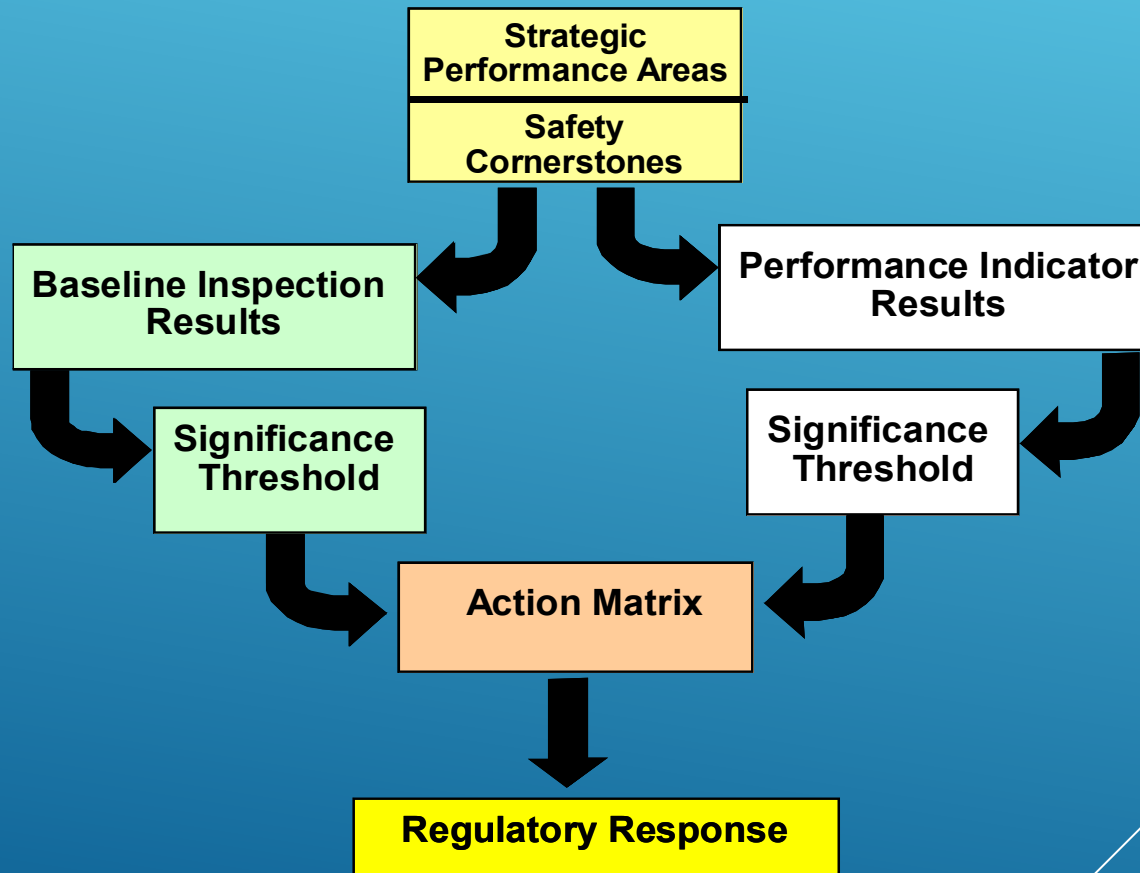
# REACTOR OVERSIGHT PROCESS (ROP)





# REACTOR OVERSIGHT PROCESS (ROP)

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# SAFETY/SECURITY SIGNIFICANCE

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## Performance Indicators

GREEN

WHITE

YELLOW

RED

Increasing Safety Significance



## Inspection Findings

GREEN

WHITE

YELLOW

RED

Increasing Safety Significance





# ROP ACTION MATRIX

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<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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Increasing:

- Safety Significance
- Inspection
- Management Involvement
- Regulatory Action

# EXAMPLES OF BASELINE INSPECTIONS

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- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~240 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~95 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

# NATIONAL SUMMARY OF PLANT PERFORMANCE

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Status as of 2/23/2022

Licensee Response	91
Regulatory Response	2
Degraded Cornerstone	0
Multiple/Repetitive Deg. Cornerstone	0
Unacceptable	0
IMC 0350 Oversight	0
Total	93

# NATIONAL SUMMARY

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- Performance Indicator Results for 2021\*

– Green	6314
– White	5
– Yellow	0
– Red	0

\*PIs are counted per unit per quarter

- Total Inspection Findings in 2021

– Green	289
– Greater-than-Green	0
– White	2
– Yellow	0
– Red	0

# DAVIS BESSE RESIDENT INSPECTORS

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**Daniel Mills**

Senior Resident Inspector



**Russell Cassara**

Resident Inspector



# 2021 ANNUAL ASSESSMENT DAVIS BESSE NUCLEAR POWER STATION

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- The plant operated safely
- Regulatory Response Column
  - All performance indicators were Green
  - Two (2) White inspection findings

**Licensee  
Response**

**Regulatory  
Response**

**Degraded  
Performance**

**Multiple/Repetitive  
Degraded  
Cornerstone**

**Unacceptable  
Performance**



# 2021 NRC INSPECTIONS

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- 3176 hours of direct inspection
- 12 regional inspections
- 5 major team inspections
  - Biennial Problem Identification and Resolution Inspection
  - Biennial Emergency Preparedness Exercise Evaluation
  - Operating License Initial Examinations
  - Design Bases Assurance Inspection (Programs)
  - Cyber Security Inspection



# 2021 NRC INSPECTIONS SPECIAL INSPECTION

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Multiple failures of the safety-related emergency diesel generator (EDG) circuits within relatively short time period (16 month) along with failure of Station Blackout Diesel.

Complicated Reactor Trip in July of 2021



# 2021 NRC INSPECTIONS SPECIAL INSPECTION RESULTS

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- Four (4) findings
- Three(3) findings determined to be of very low safety significance (Green) . Two of these findings have associated violations, which we are treating as non-cited violations (NCVs)
- One (1) finding determined to be of low to moderate safety significance (White) and as a violation of NRC requirements

# SAFETY SIGNIFICANT FINDINGS OR PIS

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- A WHITE finding and associated violation of the Davis-Besse License Condition 2.D requirement to fully implement and maintain in effect all provisions of the Commission-approved Cyber Security Plan.
- A WHITE finding and associated violation involving the failure to select a suitable replacement part for the emergency diesel generators. The selected speed switch was not compatible with the station's direct current (dc) battery system.



# NRC PLANS FOR 2022

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NRC plans baseline inspections and two supplemental Inspections at the Davis-Besse Power Station for the remainder of 2022



# NRC RESPONSE TO COVID-19

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- ▶ Maintained mission critical functions
  - Monitored plant activities
  - Maintained emergency response capabilities
  - Risk-informed "eyes on" inspections through residents and regional inspections
- ▶ Expanded use of telework
- ▶ Coordinated actions with industry on best practices
- ▶ For more information visit:

<https://www.nrc.gov/about-nrc/covid-19/reactors/>





# NRC Social Media Channels

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- Facebook: <https://www.facebook.com/nrcgov/>
- Twitter: <https://twitter.com/nrcgov>
- YouTube: <http://www.youtube.com/user/NRCgov>
- Flickr: <http://www.flickr.com/photos/nrcgov/>
- LinkedIn: <https://www.linkedin.com/company/u-s--nuclear-regulatory-commission/>
- Blog Archive: <https://public-blog.nrc-gateway.gov/>



# Meeting Feedback

**NRC FORM 533** U.S. NUCLEAR REGULATORY COMMISSION APPROVED BY OMS: NO. 3150-0217 EXPIRES: 01/31/2023

**NRC PUBLIC MEETING FEEDBACK**

Retrieved under per response to comply with this voluntary information request. 10 minutes. The information will be used to assess the effectiveness of NRC staff communications and subject with the public. Send comments regarding this request to the Information Services Branch (74-430), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [ISB@nrc.gov](mailto:ISB@nrc.gov) or to the Civil Rights Office, Office of Information and Regulatory Affairs (NRC-010001) (ISB001), Office of Management and Budget, Washington, DC. If a request used to impose an administrative condition does not qualify a comment, visit Civil Rights website. The NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

Meeting Date: 06/24/2020 Meeting Title: FitzPatrick/Niue Mile Point/Gross Annual Assessment Meeting Webinar

Thank you for attending this public meeting hosted by the NRC. In order to help us understand your views about this meeting and improve future meetings, please take a couple minutes to answer the questions below.

There are several ways you can provide your feedback:

- 1) Scanning the Quick Response (QR) Code on the back of this form with your smartphone to link directly to our feedback page. If you do not have a QR reader on your mobile device, you can use your App store to access available QR scanning applications suitable for your device.
- 2) Through any computer by going to the [Public Meeting Schedule](#) and pressing the "Meeting Feedback" link for the specific meeting, or pressing the "[...more]" link for a specific meeting and then pressing the "Meeting Feedback" link on the "Meeting Details" page.
- 3) By filling out this hard copy of our "Public Meeting Feedback Form" and providing it to an NRC staff member or mailing it in.

Please fold on the dotted lines with Business Reply side out, tape the bottom, and mail back to the NRC.

Note: You have up to 30 days after the meeting has ended to submit feedback on the public meeting that you've attended. Thank you again for your participation.

Please address the following statements in terms of your experience at the meeting. 1 is "strongly disagree" and 5 is "strongly agree."

	STRONGLY DISAGREE	DISAGREE	NEUTRAL AGREE OR DISAGREE	AGREE	STRONGLY AGREE
1. The meeting achieved its stated purpose.	1	2	3	4	5
2. This meeting helped me to understand the topics discussed.	1	2	3	4	5
3. The meeting location, format, starting time, and duration were reasonably convenient.	1	2	3	4	5
4. The meeting facility, room set up, microphones, and visuals used contributed to the success of the meeting.	1	2	3	4	5
5. Attendees, including those participating remotely, were given sufficient opportunity to ask questions or express their views.	1	2	3	4	5
6. Attendees were listened to and understood by NRC staff.	1	2	3	4	5
7. The presentations and explanations given by the NRC staff were understandable, fair and balanced.	1	2	3	4	5
8. I am satisfied overall with the NRC staff who participated in the meeting.	1	2	3	4	5

**OPTIONAL**

Name: \_\_\_\_\_ Organization: \_\_\_\_\_

Telephone No. \_\_\_\_\_ E-Mail: \_\_\_\_\_  Check here if you would like a member of NRC staff to contact you.

NRC-693 (03-2016)

1. Mail in the NRC feedback form.  
This form will be emailed to all attendees.

- or -

2. On Any Device or Computer:

- Go to the Public Meeting Schedule at  
([www.nrc.gov/pmns/mtg?do=recent30days](http://www.nrc.gov/pmns/mtg?do=recent30days))

- Locate this meeting using the sorting buttons and click on the "Meeting Feedback Form" Link.

Note: Meetings are sorted by date and time. Use "Last" to get to today's date.

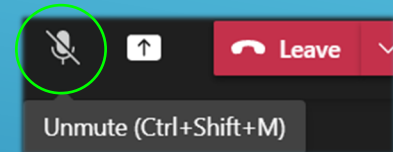
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

# QUESTION AND ANSWER GROUND RULES

- ▶ To ask a question at the end of the presentation, use the raise hand button that appears at the top of the Teams screen.



- ▶ You will then be allowed to unmute your microphone and ask your question in the order it was received.



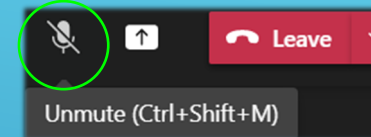
- ▶ Please provide your name and any affiliation (e.g., member of the public, local government official, non-government organization, etc.)
- ▶ Each speaker will be given up to 3 minutes for their question/comment. Your microphone will be muted at the conclusion of your question.
- ▶ The NRC will then respond. You will then be allowed to unmute your microphone for a follow-up or clarifying question.
- ▶ The meeting will end promptly at 6:00 pm (EDT) or earlier if we have no further questions.
- ▶ Please be respectful.
- ▶ Thank you!

# Questions

In order to ask a question please use the “Raise Hand” feature in Teams



Unmute your microphone when called upon:



## Public Affairs



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NRC Response to COVID-19: <https://www.nrc.gov/about-nrc/covid-19/reactors/>