

# Public Meeting on the Emergency Preparedness Biennial Exercise Exemption Process During the COVID-19 Public Health Emergency

June 23, 2020

#### **Background and Purpose**

- On January 31, 2020, the U.S. Department of Health and Human Services declared a Public Health Emergency (PHE) for the United States.
- On March 11, 2020, the COVID-19 outbreak was characterized as a pandemic by the World Health Organization.
- This meeting will be a discussion among participants regarding the EP biennial exercise requirements and guidance documents related to requesting an exemption from the performance of these exercises.
- NRC is seeking information on the impact of COVID-19 on EP biennial exercises.



## Biennial Exercise and 8 Year Exercise Cycle Requirements

- 10 CFR 50.47(b) (14)
- Appendix E to 10 CFR 50
  - E.IV.F.2.b and 2.c
- 8-calendar-year exercise cycle as established in December 2011 EP rule
  - First 8-year exercise cycle for a site began in the calendar year in which the first hostile action based (HAB) exercise was conducted. First HAB must be performed by Dec 2015.
  - Biennial exercises shall vary the content of scenarios to provide for the ERO to demonstrate proficiency in the key skills necessary to respond to the following scenario elements over the 8-year cycle:
    - hostile action directed at the plant site,
    - no radiological release or an unplanned minimal radiological release that does not require public protective actions,
    - an initial classification of or rapid escalation to a Site Area Emergency or General Emergency,
    - implementation of strategies, procedures, and guidance under § 50.155(b)(2),
    - and integration of offsite resources with onsite response.



#### 8 Year Exercise Cycle Requirements

- 8-calendar-year exercise cycle as established in 2011 EP rule
  - Start a drill or exercise between 6:00 p.m. and 4:00 a.m. Some unannounced.
  - All functions in each Emergency Response Facility
  - Providing medical care for injured, contaminated personnel (every two years).
  - Response to essentially 100 % of initiating conditions for classification of emergencies.
  - All licensee ERO teams must be provided the opportunity to demonstrate key skills
  - within the scope of their duties.
  - Use of procedures developed in response to an aircraft threat
  - Use of the strategies to mitigate spent fuel pool damage scenarios
  - Use of the to mitigate reactor accidents and maintain containment



#### **8 Year Exercise Cycle**

2013 – 2020 7 sites

2014 – 2021 30 sites

2015 – 2022 19 sites



#### **Biennial Exercise Requirements**

- Each Biennial exercises shall demonstrate ERO proficiency in key skills:
  - Timely classification of events;
  - Timely notification of offsite authorities;
  - Assessment of radiological releases onsite and offsite;
  - Development of protective action recommendations;
  - Dissemination of information to the public via media channels;
  - Engineering assessment, repair plan development, and repair of critical equipment under emergency conditions;
  - Mitigative action implementation;
  - Protection of workers during emergency response, including medical care;
  - Response to operational transients while implementing the emergency plan; and
  - Coordination with Offsite Response Organizations.



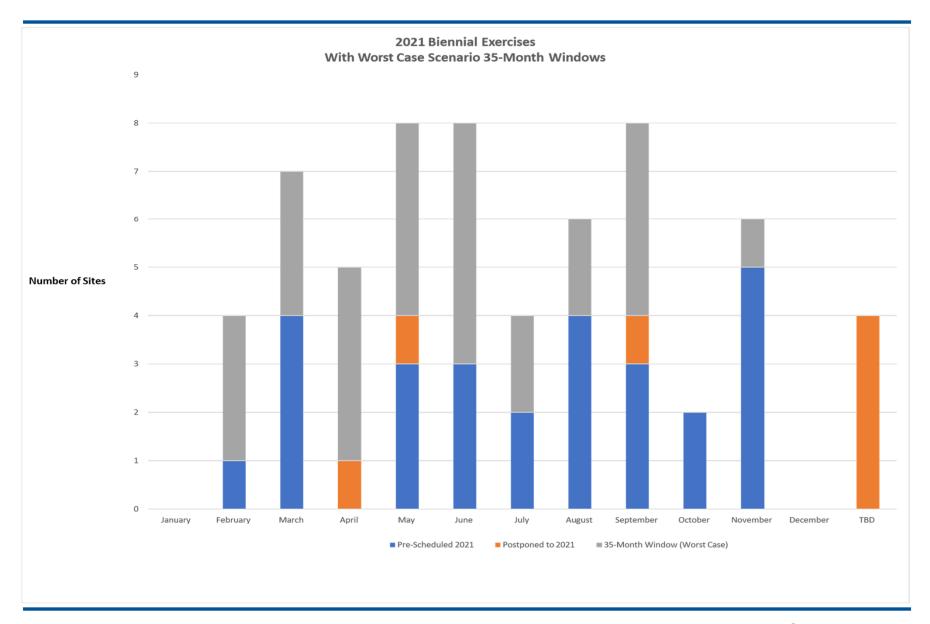
## 2020 / 2021 Biennial Exercises Original Schedule

2020 29 sites 2021 27 sites



#### Biennial EP Exercises as of June 22, 2020

Facility	NRC Region	FEMA Region	Last Bienniai	35 - Month	Original Scheduled Date	PHE Postponement	Current Date (NRC part)	Current Date (FEMA part)	Exemption to 2021?	States	8-Year Cycle Dates
Beaver Valley	(host)	(host)	Jun-2018	Window May-2021	6/9/2020	X	11/10/2020	TBD		PA, WV, OH	2014-2021
Calvert Cliffs	1	III	Sep-2019	_	9/14/2021	^	9/14/2021	9/14/2021		MD. PA	2015-2022
		III.	Jun-2019	Aug-2022 May-2022	8/9/2021		8/9/2021	9/14/2021 N/A		NY	2015-2022
Fitzpatrick	1	ii		Jul-2022	8/24/2021		8/24/2021	8/24/2021		NY	2013-2022
Ginna Indian Point	1	ii i	Aug-2019 Sep-2018	Aug-2021	11/17/2020		11/17/2020	11/17/2020		NY	2013-2020
Limerick	1	ill	Nov-2019	Oct-2022	11/16/2021		11/16/2021	11/16/2021		PA	2013-2020
Milistone		- 111	Mar-2018	Feb-2021	6/24/2020	x	TBD	TBD	x	CT, MA, RI	2013-2020
		i	Oct-2019	Sep-2022	10/5/2021	^	10/5/2021	10/5/2021	^	NY	2015-2022
Nine Mile Point Peach Bottom		iii	Apr-2018	Mar-2021	4/21/2020	X	12/8/2020	TBD		PA, MD	2013-2022
Salem/Hope Creek	1	III	May-2018	Apr-2021	5/19/2020	X	4/28/2021	4/28/2021	x	NJ. DE	2014-2021
Seabrook	1	1	Apr-2018	Mar-2021	9/29/2020	X	12/8/2020	12/8/2020	^	NH, MA	2014-2021
Susquehanna	1	ill	Oct-2018	Sep-2021	10/20/2020	^	10/20/2020	10/20/2020		PA PA	2014-2021
Browns Ferry	ii	IV	Jun-2019	May-2022	6/23/2021		6/23/2021	6/23/2021		AL	2015-2023
Brunswick	111	IV	Jul-2019	Jun-2021	7/28/2020	X	12/1/2020	12/1/2020		NC	2013-2023
	11	IX	Mar-2018			X					
Catawba Farley	II II	IV	Oct-2018	Feb-2021 Sep-2021	4/7/2020 6/30/2020	X	10/27/2020 TBD	10/27/2020 TBD	X	SC, NC AL, GA	2014-2022 2014-2022
_	111	IV				^	9/14/2021	9/14/2021	^	NC	
Harris Hatch	11	IV	May-2019 Oct-2019	Apr-2022 Sep-2022	9/14/2021		11/1/2021	11/1/2021		GA.	2015-2023 2013-2021
McGuire		IV		Jul-2022	8/3/2021		8/3/2021	8/3/2021		NC NC	2015-2021
North Anna	111	III	Aug-2019 Jul-2018	Jun-2021	8/18/2020		8/18/2020	2/23/2021		VA	2013-2023
Oconee	- 11	IV	Aug-2018	Jul-2021	9/1/2020		9/1/2020	9/1/2020		SC	2014-2022
Robinson	11	IV	May-2019	Apr-2022	5/18/2021		5/18/2021	5/18/2021		sc	2013-2021
Saint Lucie	- 11	IV	Jan-2020	Dec-2022	1/14/2020	X (offsite only)	1/14/2020	11/17/2020		FL	2013-2021
	ii ii	IV	Oct-2018	Sep-2021	10/14/2020	A (Olloite Olliy)	10/14/2020	10/14/2020		TN	2014-2022
Sequoyah Summer	ii ii	IV	Aug-2019	Jul-2022	3/2/2021		3/2/2021	3/2/2021		SC	2013-2021
		III	Jul-2019	Jun-2022	7/20/2021		7/20/2021	7/20/2021		VA	2015-2021
Surry Turkey Point	- 11	IV	Feb-2019	Jan-2022	2/17/2021		2/17/2021	2/17/2021		FL	2015-2023
	ii ii	IV	May-2018	Apr-2021	5/19/2020	X (offsite only)	12/8/2020	TBD		GA, SC	2013-2023
Vogtle Watts Barr	11	IV	Nov-2019	Oct-2022	11/17/2021	x (onsite only)	11/17/2021	11/17/2021		TN	2014-2022
	III	V	Mar-2020	Feb-2023	3/2/2020		3/2/2020	3/2/2020		IL.	2013-2023
Braidwood	III	v	Oct-2019	Sep-2022	3/23/2021		3/23/2021	3/23/2021		IL	2015-2022
Clinton	III	v	Mar-2019	Feb-2022	11/16/2021		11/16/2021	11/16/2021		OH	2013-2022
Davis Besse	III	v	Apr-2019	Mar-2022	5/4/2021		5/4/2021	5/4/2021		MI	2015-2022
DC Cook	III	v	Apr-2019	Mar-2022	6/29/2021		6/29/2021	6/29/2021		IL	2013-2022
Dresden	III	v	Jul-2019	Jun-2022	7/20/2021		7/20/2021	7/20/2021		IL	2013-2020
Duane Arnold	III	VII	May-2018	Apr-2021	4/15/2020	x	9/2/2020	9/2/2020		IA	2013-2020
Fermi	III	V	Aug-2018	Jul-2021	12/15/2020	^	12/15/2020	12/15/2020		MI	2014-2021
Lasalle	III	v	Jun-2018	May-2021	11/17/2020	10	11/17/2020	11/17/2020		IL	2014-2021
Monticello	III	v	Sep-2019	Aug-2022	8/11/2021		8/11/2021	8/11/2021		MN	2015-2022
Pallsades	III	v	Apr-2018	Mar-2021	10/27/2020		10/27/2020	10/27/2020		MI	2013-2022
	III	v			9/15/2020		9/15/2020	9/15/2020		OH	2014-2021
Perry Point Beach	III	v	Sep-2018 Jun-2019	Aug-2021 May-2022	5/25/2021		5/25/2021	5/25/2021		WI	2014-2021
Prairie Island	III	v	Jul-2019	Jun-2021	7/21/2020	Y (offeite orbid	TBD	TBD	x	MN, WI	2013-2022
Quad Cities	III	v	Dec-2018	Nov-2021	8/11/2020	X (offsite only)	8/11/2020	8/11/2020	^	IL, IA	2014-2021
ANO	IV	VII	Jul-2018	Jun-2021	9/15/2020	x	TBD	TBD	x	AR	2014-2021
	IV	VII	Aug-2019	Jul-2022	9/21/2021	^	9/21/2021	9/21/2021	^	MO	2015-2022
Columbia	IV	X	Mar-2018	Feb-2021	3/24/2020	X	10/27/2020	10/27/2020		WA	2013-2022
	IV	VI	Nov-2019	Oct-2022	5/5/2021	^	6/16/2021	6/16/2021		TX	2015-2022
Cooper	IV	VII	Jul-2018	Jun-2021	5/5/2020	X	5/25/2021	5/25/2021	X	NE, MO	2015-2022.
Cooper Diable Capyon	IV	IX	Oct-2018	Sep-2021	8/19/2020	X	9/15/2021	9/15/2021	X	CA CA	2014-2021
Diablo Canyon Grand Gulf	IV	IV	Mar-2019	Sep-2021 Feb-2022	3/16/2021	^	3/16/2021	3/16/2021	^	MS, LA	2014-2021
	IV										
Palo Verde	IV	VI	Mar-2019	Feb-2022	3/9/2021 6/24/2020	X	3/9/2021 12/1/2020	3/9/2021 12/1/2020		AZ LA	2015-2022 2014-2021
River Bend	_		Jun-2018	May-2021		X					
South Texas	IV IV	VI	Jun-2018	May-2021	10/28/2020		10/28/2020	10/28/2020		TX LA	2014-2021
Waterford	_		Nov-2019	Oct-2022	10/26/2021		10/26/2021	10/26/2021			2015-2022
Wolf Creek	IV	VII	Dec-2019	Nov-2022	11/16/2021		11/16/2021	11/16/2021		KS	2015-2022





#### **The Exemption Process**

- 10 CFR 50.12 Special Circumstances
- Regulatory Issue Summary (RIS) 2006-003
  - ML053390039
- Exemption Letter, May 14, 2020
  - ML20120A003



#### **Previous Biennial Exercise Exemption**

- 2001, Limerick Generating Station
  - temporary one time exemption from Appendix E IV.F.2.c, (offsite only) in October 2001 as a result of 9/11 on-going national security threat
  - Additionally, Limerick local and State agencies were directly participating in 9/11 activities
  - Commission determined, pursuant to 10 CFR 50.12(a)
    - the exemption is authorized by law, will not present an undue risk to the public health and safety, and is consistent with the common defense and security.
    - special circumstances are present pursuant to 10 CFR 50.12(a)(2)(v), in that the exemption would only provide temporary relief from the applicable regulations.



#### Information Exchange

### NRC is seeking information on the impact of COVID-19 on Biennial EP Exercises

- If NRC and/or FEMA grant exemption(s) from 2020 exercise(s), are there impacts to the currently scheduled 2021 exercises?
- Are there resource constraints that the NRC should be aware of?
- Are there new technologies being considered to replace gathering in Emergency Response Facilities or other areas which NRC should review in an expedited manner to support future exercises?



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Questions?

