THE DECOMMISSIONING CHALLENGE FOR COMMERCIAL NUCLEAR POWER

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The Trajectory for Nuclear Energy in the United States

### Recently Closed
- 6 reactors at 5 plants
  - 2013 - Crystal River (Duke Energy)
  - 2013 - Kewaunee (Dominion Energy)
  - 2013 - San Onofre 2 & 3 (SCE)
  - 2014 - Vermont Yankee (Entergy)
  - 2016 - Fort Calhoun (Omaha Public Power)

### To Close
- 7 reactors at 5 plants
  - 2019 - Pilgrim (Entergy)
  - 2019 - Oyster Creek (Exelon)
  - 2020/2021 - Indian Point 2 & 3 (Entergy)
  - 2022 - Palisades (Entergy)
  - 2024/2025 - Diablo Canyon 1 & 2 (PGE)

### Under Construction (Uncertain)
- 2 reactors at 1 plant – AP1000
  - Alvin W. Vogtle 3 & 4
NRC Rulemaking Stages Thus Far

• Advanced Notice of Proposed Rulemaking, November 2015

• Final Basis for Proposed Rulemaking, November 2017

• NRC staff submission of potential draft rule to the Commission

• https://www.reginfo.gov/public/do/eAgendaViewRule?pubId=201804&RIN=3150-AJ59
Likely Schedule for Decommissioning Rule

• Potential Draft Rule in the Fall of 2018/early 2019 with public comment period.

• Potential Final Rule 2019/2020
Some Likely Issues of Interest and Potential Dispute

- PSDAR (Post-Shutdown Decommissioning Activities Report) Should be a Regulatory Requirement
- State & Local Government Role
- Community Transition & Workforce Needs
- Timelines & Adequacy of Funding For Decommissioning
- Emergency Preparedness And Continued Risk Associated With Spent Fuel
- Radiological Issues: Worker Dose, Site Characterization, Cleanup Standards For Decommissioning, and Monitoring Needs