

# Status of Spent Fuel Management Program at U.S. Nuclear Regulatory Commission

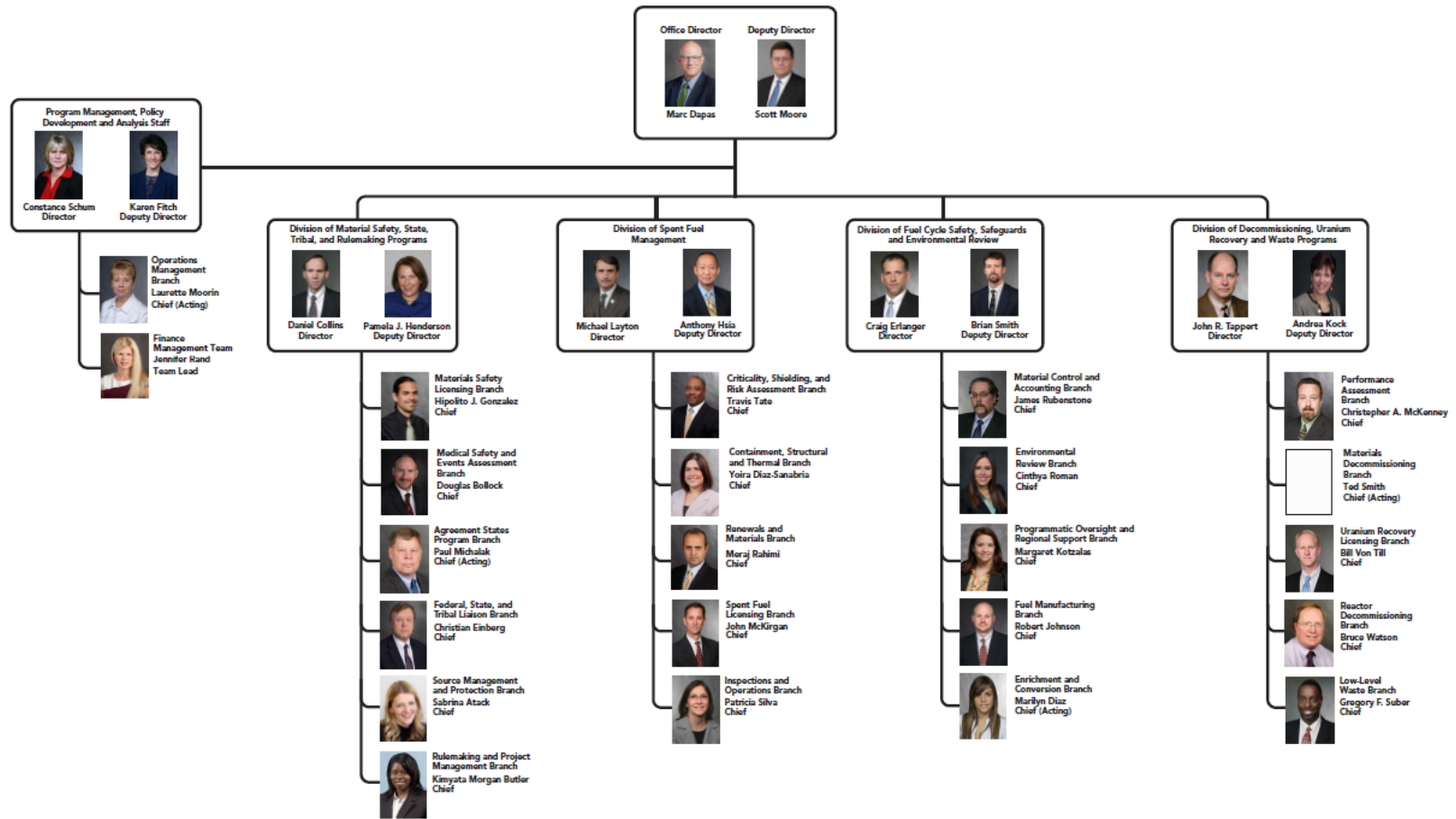
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U.S. Nuclear Regulatory Commission  
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# The NRC and Its Mission



- Created by Energy Reorganization Act of 1974
- Independent Federal agency
- NRC Mission: *To license and regulate the Nation's civilian use of radioactive materials to protect public health and safety, promote the common defense and security, and protect the environment.*

# Office of Nuclear Material Safety and Safeguards



# Management of Spent Fuel

- Storage

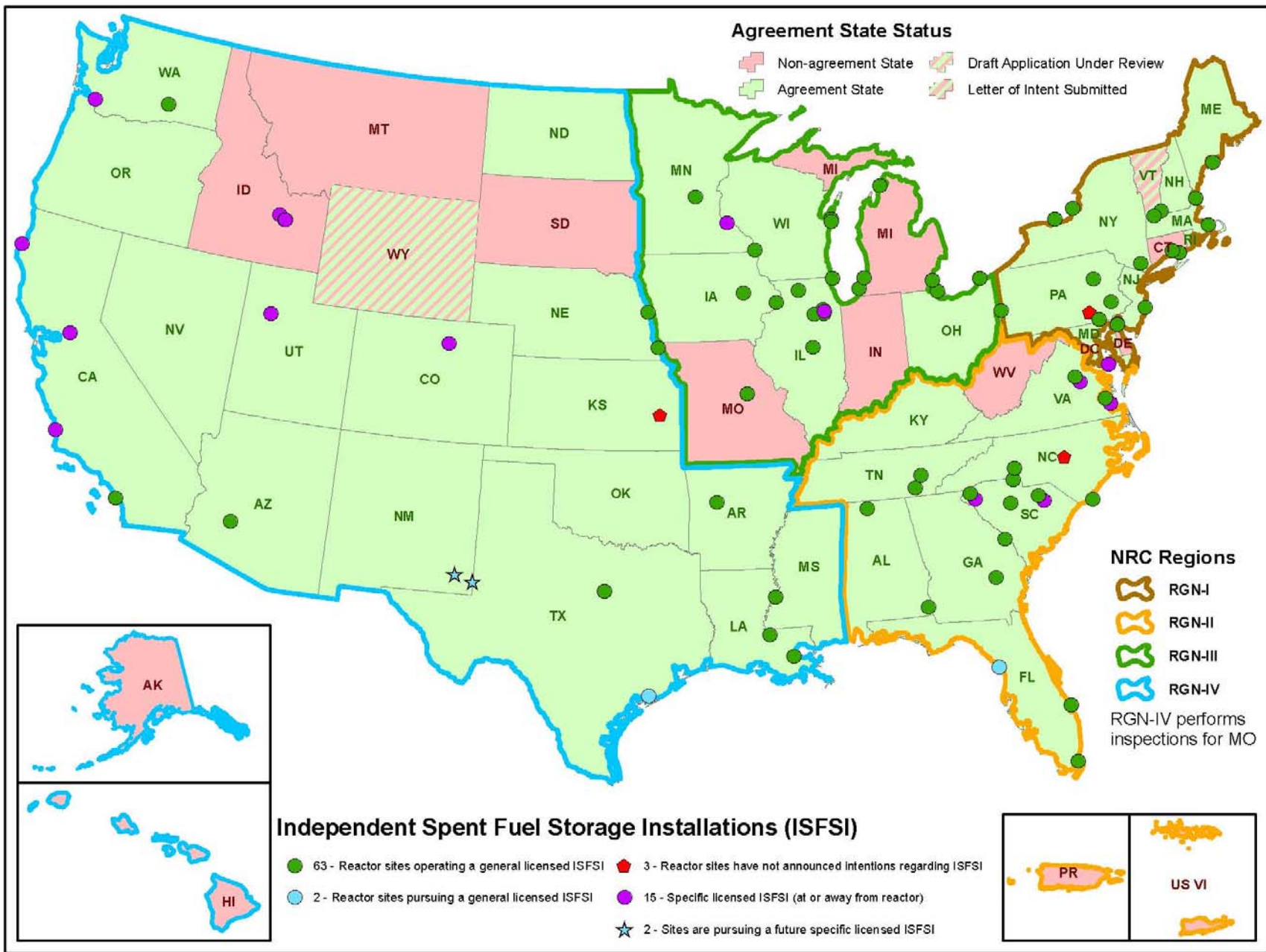


- Transportation



- Disposal





# Dry Cask Storage

- **Storage Cask Certificate of Compliance**
  - operating conditions for design
  - What licensee is authorized to store in cask
  - up to 40 years
  - currently 14 cask Certificates of Compliance (CoC)
- **Renewals**
  - demonstrate aging of materials has not adversely affected safety of spent fuel storage

# Preliminary Review Schedule for Waste Control Specialists (WCS)



- NRC Acceptance Review of WCS' Application Completed: Jan. 26, 2017
- Federal Register Notice of Opportunity to Request Hearing and Petition for Leave to Intervene (82 FR 8773), Issued: Jan. 30, 2017
- Federal Register Notice of Intent to Prepare EIS and Conduct Scoping Process (81 FR 79531), Issued: Nov. 14, 2016
- EIS Scoping Comment Period: Nov. 14, 2016 - Mar. 13, 2017
- Safety Review / Safety Evaluation Report Completed: ~ 21 months
- Environmental Review / Final EIS Completed: ~ 26 months
- License Decision: Spring 2019 \*

**\* NOTE: Schedule subject to change based on quality of the WCS' license application, responsiveness to requests for additional information, conduct of an adjudicatory hearing (if requested and granted), availability of funding, and unplanned higher priority operational safety or environmental work.**

# Spent Fuel Shipping Packages



- **NRC regulates the design and construction of packages to ensure the public is protected**
  - 12 packages currently certified by NRC for transportation of commercial spent fuel
- **NRC certified transportation packages are designed to withstand severe accidents**
  - containers must be able to survive four tests involving impact, puncture, fire, and submersion in water



# Geologic Disposal

- NRC Staff Safety Evaluation Report (SER) for Yucca Mountain completed in January 2015 (NUREG-1949)
- NRC Staff supplement of DOE's Environmental Impact Statement completed in May 2016 (NUREG-2184)
- Licensing proceeding is currently suspended
- NRC is prepared to take appropriate and timely actions consistent with the direction of the National Program

**Thank You for  
Your Attention**