



# US NRC Response to the Fukushima Nuclear Event

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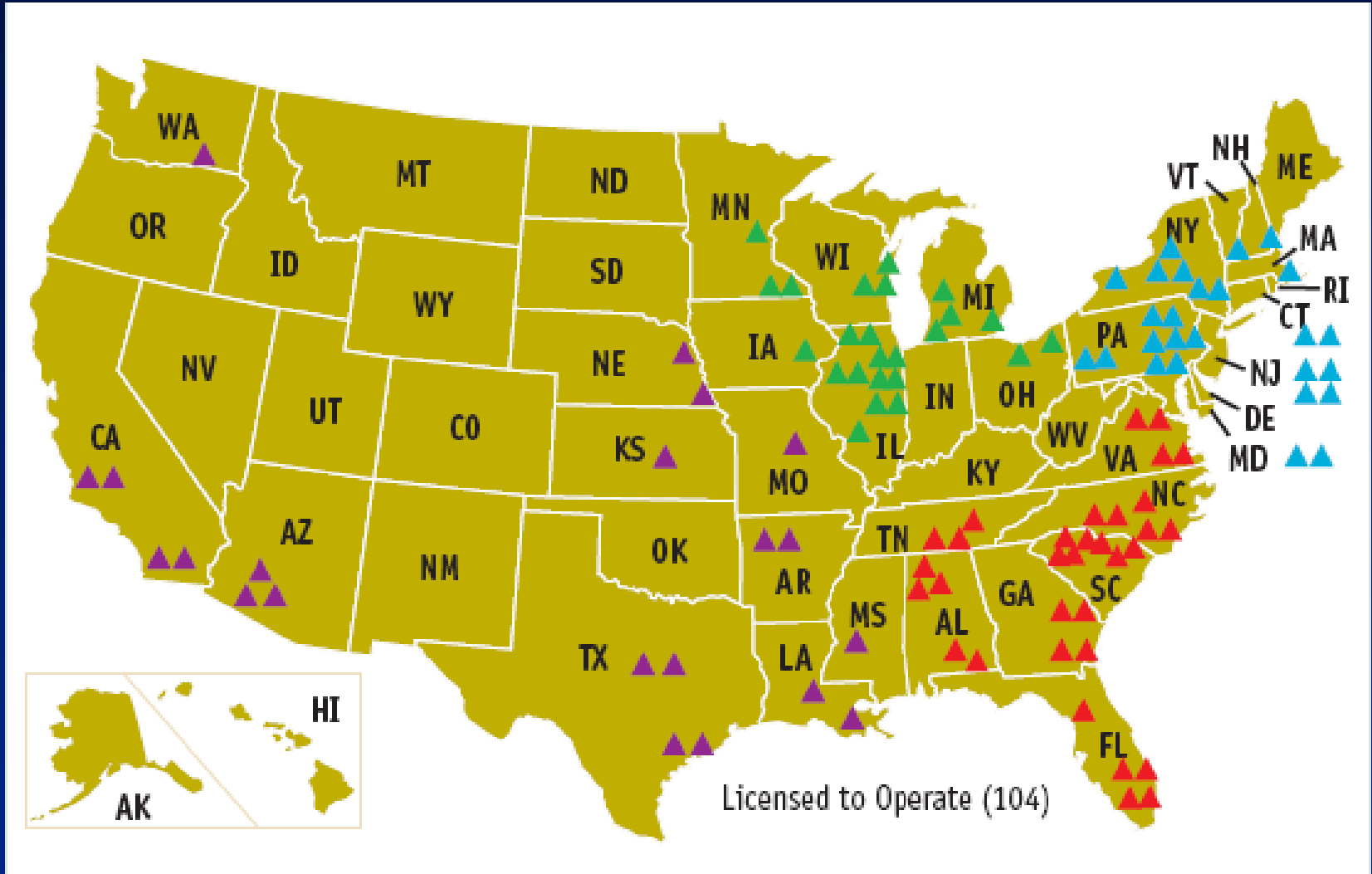
# **NRC Mission**

*To regulate the nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, to promote the common defense and security, and to protect the environment*

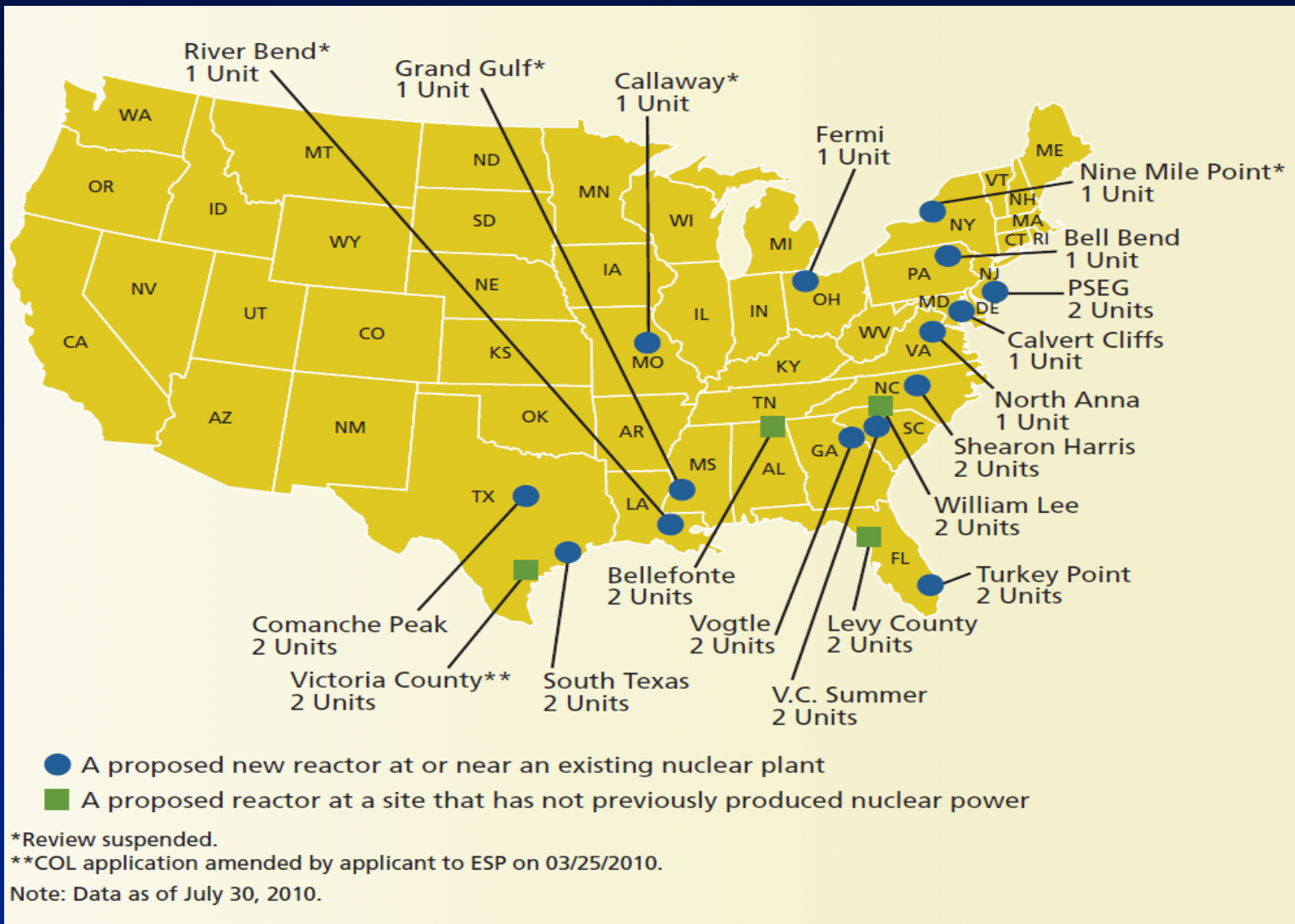
# Our Primary Functions

- Establish regulations
- Issue licenses
- Provide oversight
  - inspection
  - assessment
  - investigations
  - enforcement
  - operating experience
- Conduct research
- Respond to emergencies

# Operating Power Reactors



# New Reactor Applicants

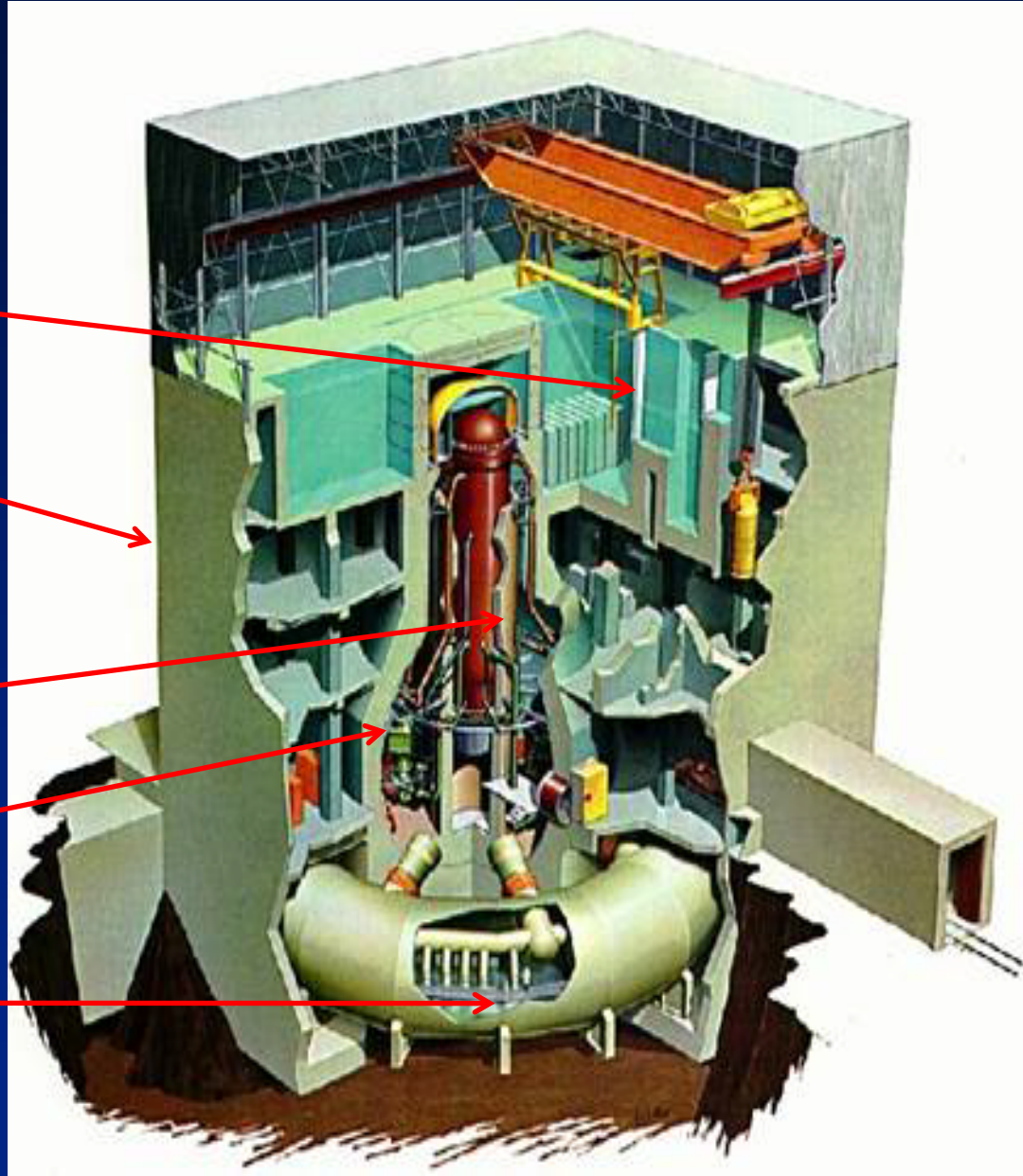


# NRC's Initial Response



# BWR Mark I

- ▶ Spent Fuel Pool
- ▶ Concrete Reactor Building (secondary Containment)
- ▶ Reactor Pressure Vessel
- ▶ Containment (Drywell)
- ▶ Containment (Wet Well)

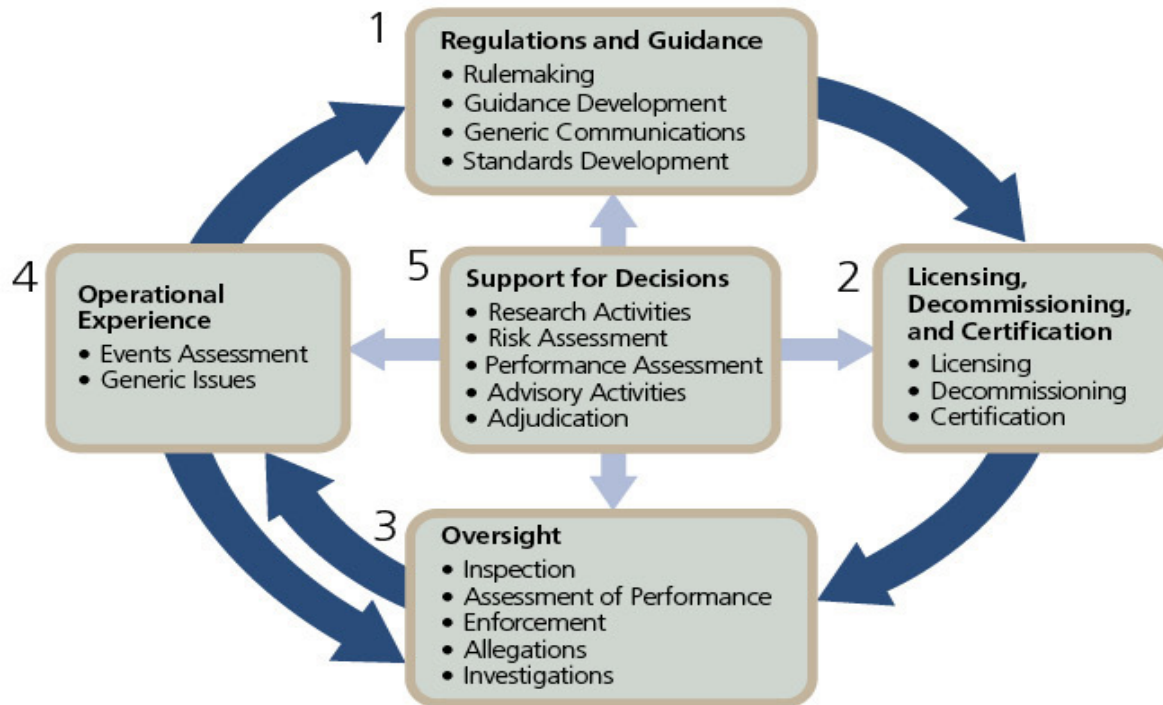






# NRC Approach to Licensing and Oversight

## How We Regulate



Source: U.S. Nuclear Regulatory Commission

# Initial NRC Actions



**Temporary Instruction 183**



**Temporary Instruction 184**



**NRC Bulletin 2011-11: Mitigating Strategies**

# Near-Term and Longer-Term Reviews

- Commission directed a methodical and systematic review of the safety of US facilities in light of events in Japan
- Task force undertaking near-term review and developing vision for longer-term review

## Initial Findings/Ongoing Activities

- To date the task force has not identified any issues that undermine our confidence in the continued safety and emergency planning of U.S. plants
- Task force review likely to recommend actions to enhance safety and preparedness

## Task Force Areas of Focus

- Protection from design basis natural phenomena
- Consideration of beyond design basis natural phenomena
- Mitigation for long-term station blackout
- Emergency preparedness
- NRC programs

# International Response

- Multinational level
- Regional level
- National level

## Conclusion

- Continuing confidence in safety of US fleet
- We are continuing with license renewal and new reactor licensing activities
- We will not hesitate to make changes to our regulatory and oversight activities, as appropriate.