

Decommissioning Power Reactors



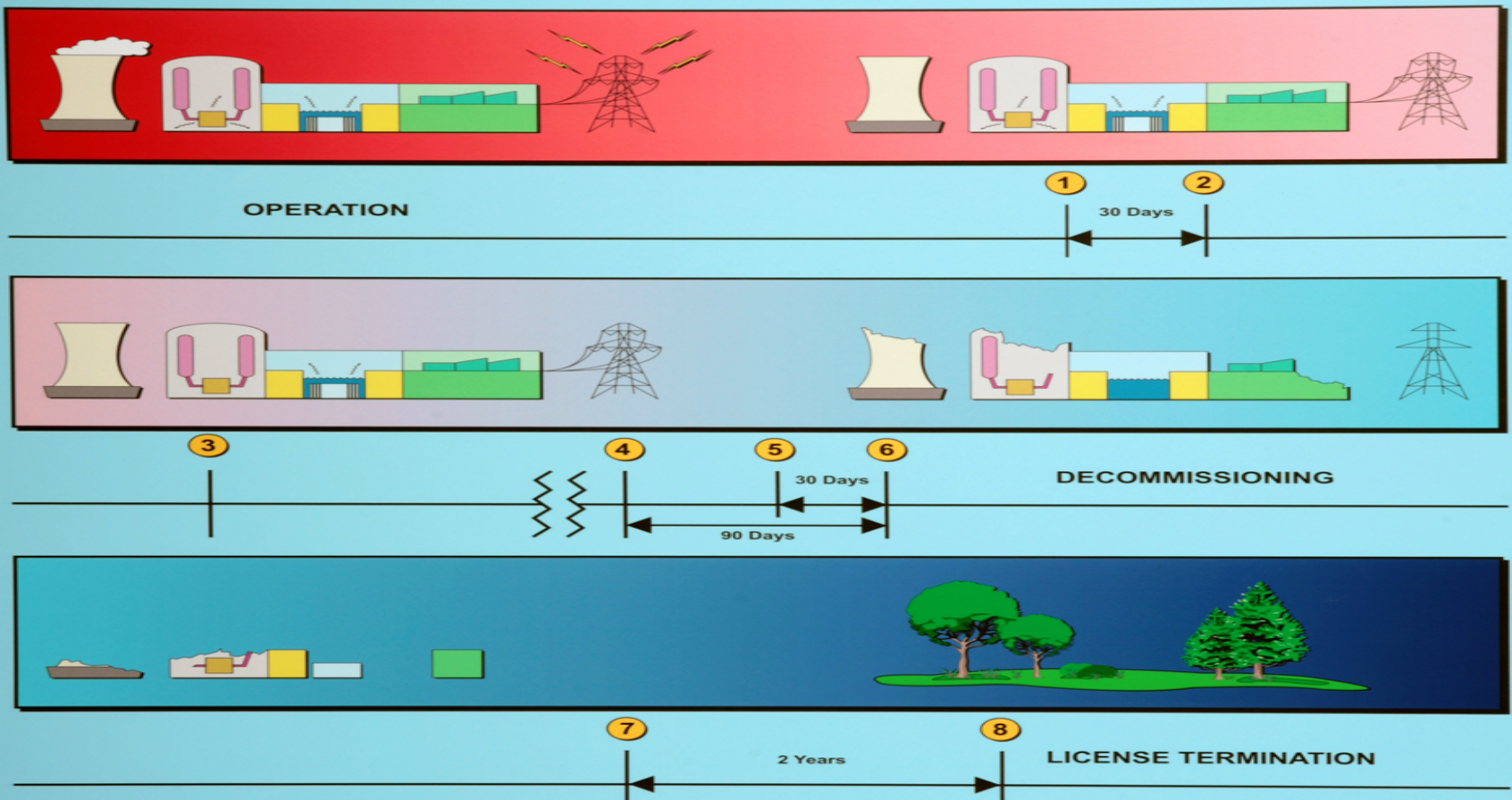
Decommissioning Definition

10 CFR 20.1003

Safely remove a facility from service and reduce residual radioactivity to a level that permits:

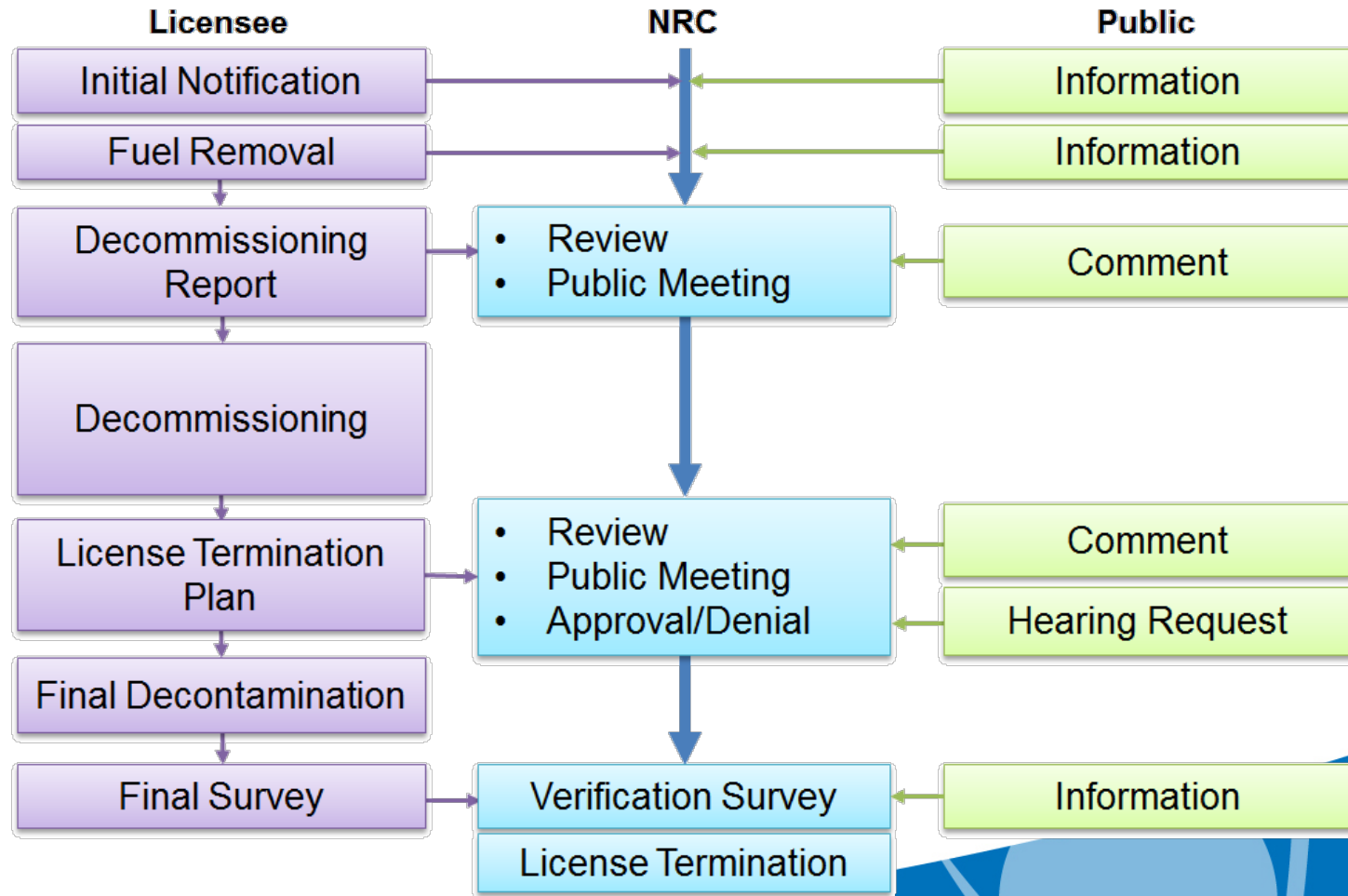
- (a) release of the property for unrestricted use, and terminate the license; or
- (b) release of the property under restricted conditions, and terminate the license

Decommissioning of Nuclear Power Reactors

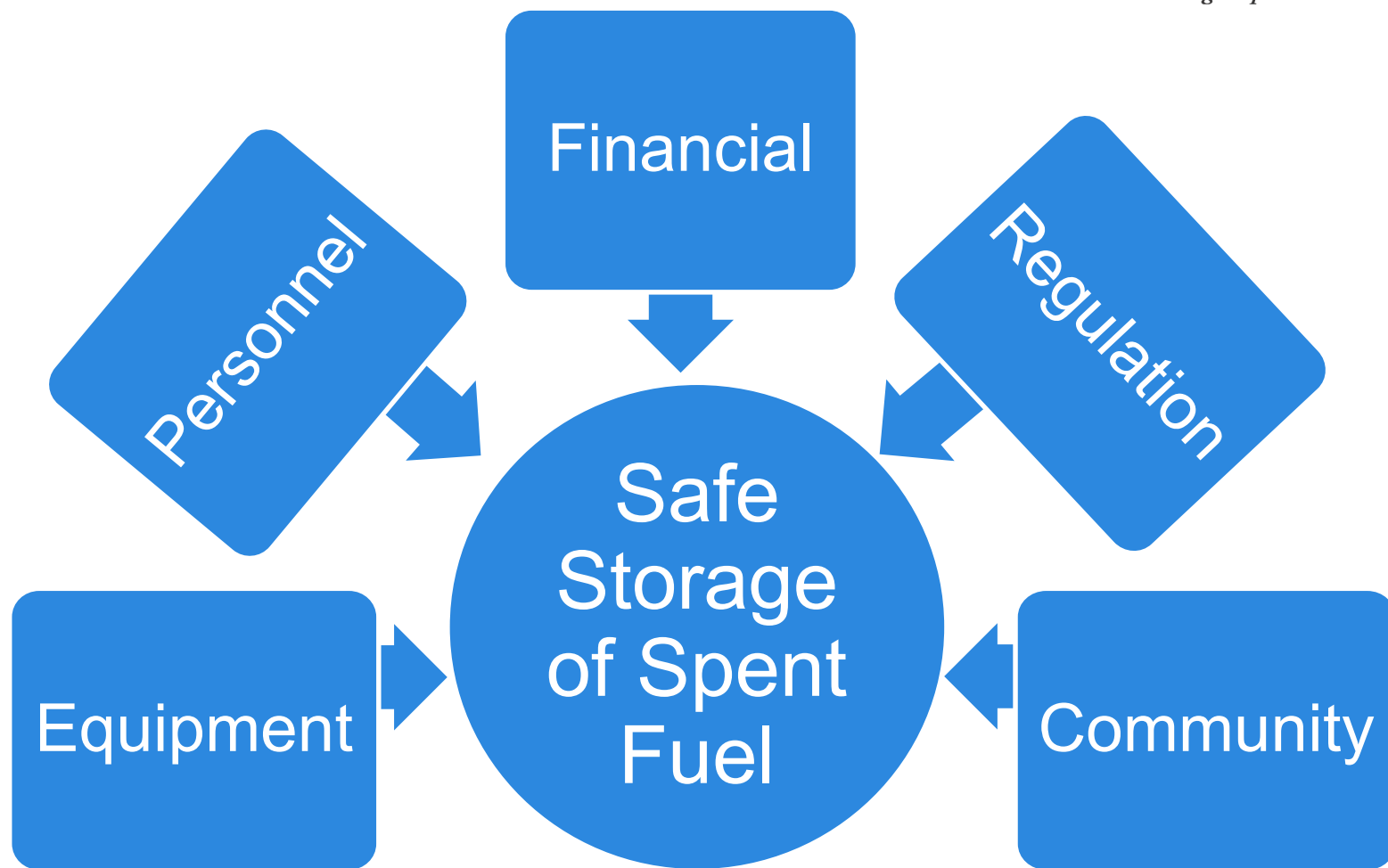


- ① Permanent Cessation of Operations
- ② Certification of Permanent Cessation of Operation
- ③ Certification of Permanent Fuel Removal (Variable)
- ④ Post Shutdown Decommissioning Activity Report (PSDAR) Submittal
- ⑤ Public Meeting 30 Days
- ⑥ Major Decommissioning Activities/Preparation for Storage or Dismantlement
- ⑦ License Termination Plan Submitted
- ⑧ License Termination

Reactor Decommissioning Process



Site Challenges During Transition



SITE FOCUS



Safe Storage
of Spent Fuel

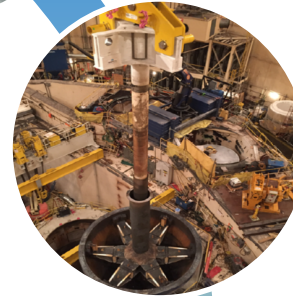


SITE FOCUS

Safe Storage of Spent Fuel



Personnel
Safety



Radiological
Decommissioning



Environment



Site
Restoration

Safe Storage of Spent Fuel



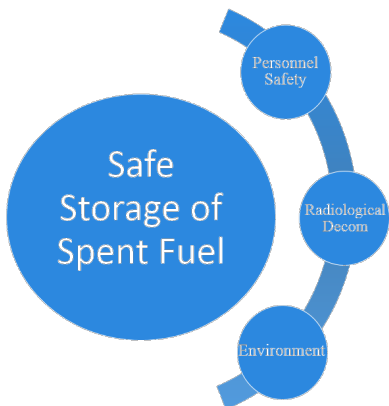
Personnel
Safety



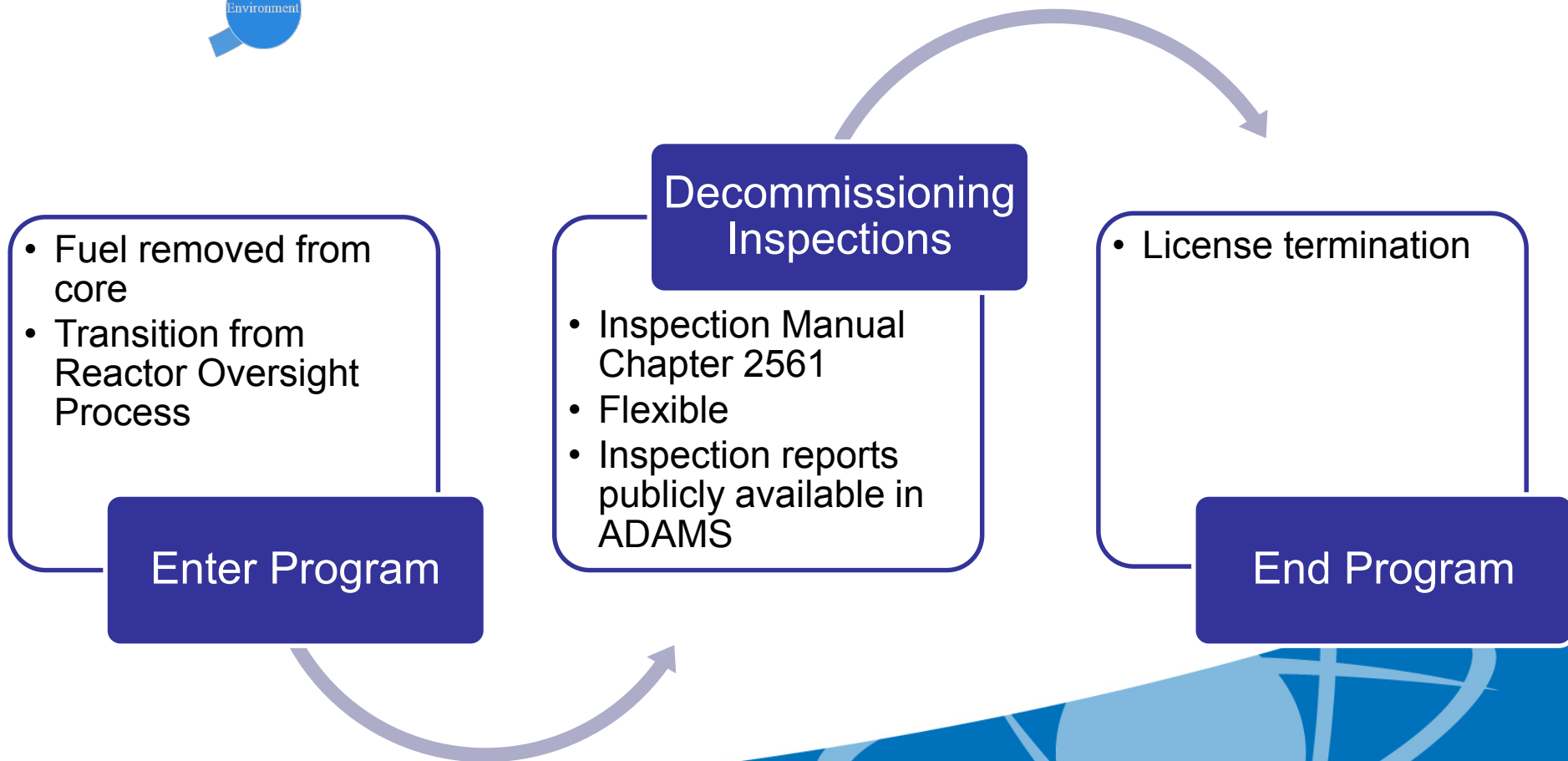
Radiological
Decommissioning



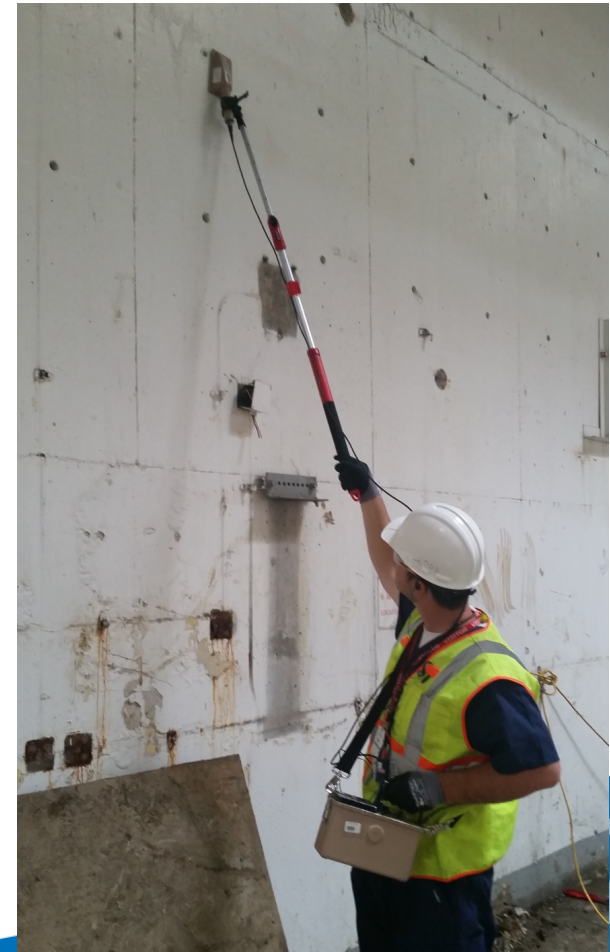
Environment



NRC OVERSIGHT



- Final Status Surveys (FSS):
 - Performed by licensee
 - Demonstrate compliance with the release criteria
 - Communication between regulator, licensee, and state
- Inspections during FSS:
 - Evaluate compliance with LTP
 - Independent Confirmatory Surveys
 - NRC contract with Oak Ridge Associated Universities
- What happens after License Termination?



Zion Planned Site Restoration



Big Rock Point



Safe Storage of Spent Fuel

Questions?

