# Module Assembly and Equipment Handling



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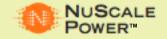
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## Background

- NuScale design incorporates nuclear refueling and reactor heavy load handling processes that are different than existing reactors.
- NuScale Reactor Module, including the core, is moved for initial installation and again for each refueling.
- The entire assembly and disassembly operation takes place in a separate refueling segment of the reactor building pool.
- NuScale design program includes development of a physical replica of module assembly equipment.



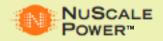
#### Issues

- Current guidance and application content for heavy load handling and refueling do not fully reflect the NuScale design for module refueling and movement.
  - Movement of a reactor module with fuel
  - Co-located operating modules
  - Bolting of a reactor module
  - Core monitoring during 'loaded' movement



## **Pre-Application Outcomes**

- Familiarize the NRC with Nuclear Handling operations and the associated equipment.
- Agree on applicability of requirements and guidance.
- Agree on DCA content regarding Nuclear Handling.



## **Pre-Application Engagement**

- Presentation covering
  - Design description
  - Applicability of requirements
  - DCA content outline
- Feedback on changes to Chapter 9 sections in DCA content outline

