

# Security Informed Design



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# Background

SMRs need to address unique issues with regard to security.

From NEI SMR licensing workshop 10/4/2011, *SMR Physical Security Plan Development*:

- Based upon each specific SMR design, define
  - existing target sets.
  - design feature changes.
  - protection strategies.
  - PSP development, evaluation, training, and implementation.

# Background

No changes to security requirements

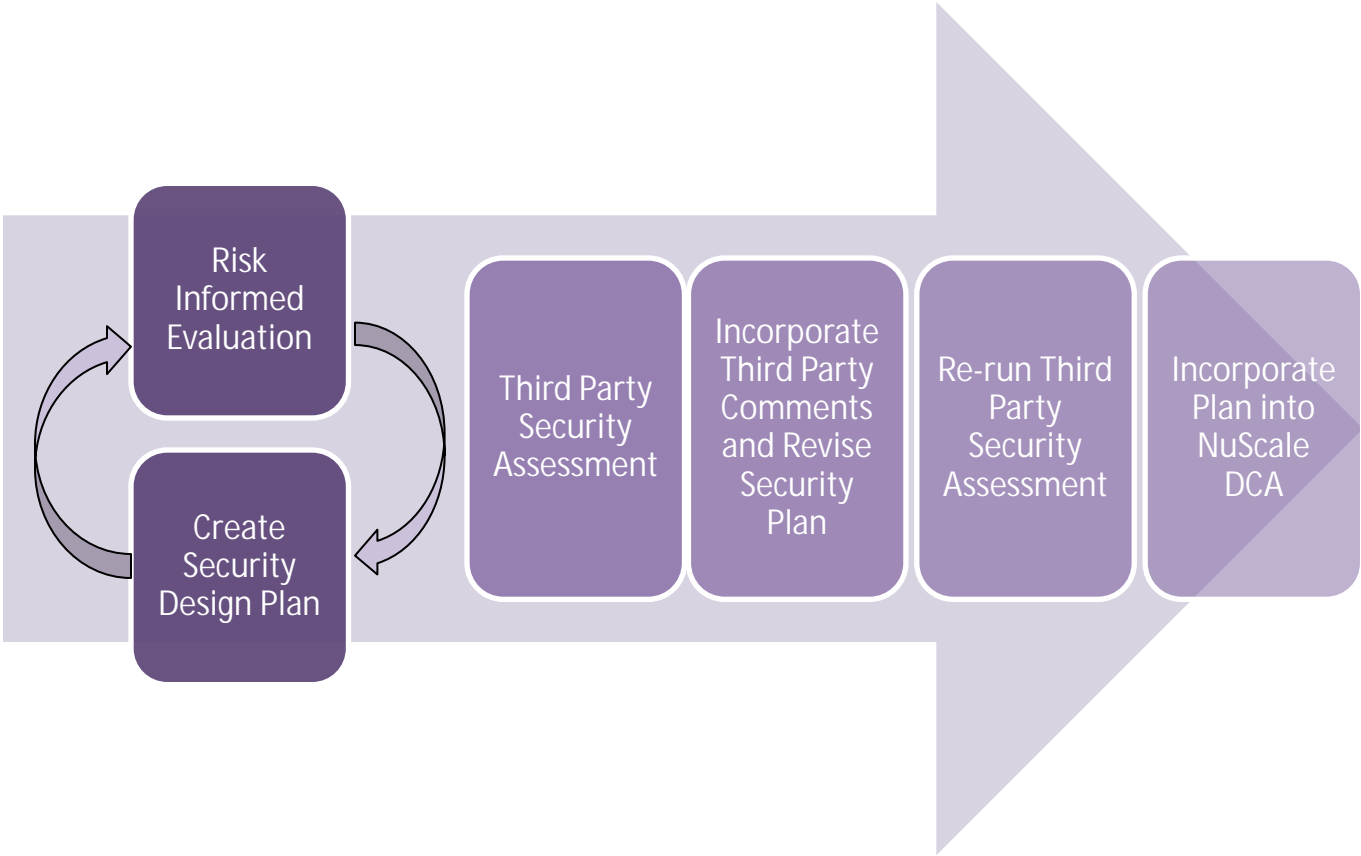
Unique aspects of NuScale design

- Target sets
  - Multiple modules
  - Single reactor pool, spent fuel pool, control room
- Small size protection zone
- Staffing requirements
- Security informed design protection strategy

# Site Layout



# NuScale Process



# Issues

- NRC requested a pre-application engagement to review security requirements in the design
  - Content and timing of engagement
- Unclear methodology to evaluate security plan and address security requirements for design certification

# Pre-Application Outcomes

- NRC attains desired level of understanding of the NuScale security design features.
- NuScale receives NRC feedback on the
  - process to integrate security aspects into the plant design.
  - appropriate method by which to evaluate security for design certification

# Pre-Application Engagement

- Initial engagement meeting
- Workshop to review initial security design
- Technical report describing security plan
- Continue to engage and support ongoing generic industry efforts (NEI Workshops)



# Pre-Application Engagement

