NRC’s Decision Process for Independent Spent Fuel Storage Installations (ISFSIs)

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Agenda

• Spent Fuel Storage Licensing Framework
• NRC’s Decision Process for “Away From Reactor” ISFSIs
  – NRC’s Safety Review
  – NRC’s Environmental Review
  – NRC’s Adjudicatory Hearing Process
• Expected Timelines for ICSF Licensing
• Conclusions
Spent Fuel Storage Licensing Framework

• NRC’s regulations in 10 CFR Part 72 establish the requirements for licensing an independent spent fuel storage installations (ISFSI)

• Establishes two types of licenses: site-specific and general licenses
  – General license: only available to holders of Part 50 reactor license, requires use of dry cask storage system certified by NRC
  – Site-specific license: available for any ISFSI, either at reactor site or away from reactor
Licensing of “Away from reactor site” ISFSIs

- Site-specific license required for “away from reactor site”

- Licensing of proposed interim consolidated storage facility (ICSF) no different than other away from reactor site ISFSIs

- Part 72 regulations limit the initial term of storage license to 40 years; can be renewed for up to additional 40 years
NRC’s Decision Process for “away from reactor site” ISFSI

1. Applicant Submits License Application
2. NRC Decides Whether to Accept Application for Review
3. NRC Dockets License Application
4. NRC Begins Safety Review
5. NRC Begins Environmental Review
6. NRC Issues Safety Evaluation Report
7. NRC Issues Environmental Impact Statement
8. NRC Adjudicatory Hearings
9. Commission approves ASLB Findings; NRC Issues License
NRC’s Safety Review

• NRC staff conducts a comprehensive technical review of the applicant’s Safety Analysis Report (SAR).
  – NRC has its own experienced technical staff and independent contractors to review and evaluate the application

• If needed, NRC staff may:
  – Issue a request for additional information from the applicant
  – Conduct independent confirmatory analyses, as needed

• NRC staff documents its conclusions in a publicly available Safety Evaluation Report (SER)
NRC’s Safety Review

• For a proposed “away from reactor site” ISFSI, NRC regulations require that the license application must also contain the following:
  – A discussion of the applicant’s financial qualifications;
  – A Physical Protection Plan;
  – An Emergency Plan;
  – A Decommissioning Funding Plan;
  – A Quality Assurance Program; and
  – A Training and Qualifications Program
NRC’s Environmental Review

• As required by the National Environmental Policy Act (NEPA) and NRC regulations in 10 CFR Part 51, NRC must prepare an Environmental Impact Statement (EIS) for an “away from reactor site” ISFSI license
  – NRC staff will use the information provided in the applicant’s Environmental Report to inform the NRC’s EIS.

• The EIS is a comprehensive assessment of the environmental impacts of a proposed NRC action
  – NRC staff employs many qualified technical experts, and has access to independent contractors, to conduct its environmental review

• The NRC’s environmental review is an public process that provides ample opportunities for the public to participate, comment, and provide input into its evaluation
NRC’s Adjudicatory Hearings

• NRC will provide an opportunity for members of the public to request an adjudicatory hearing before NRC's Atomic Safety and Licensing Board Panel (ASLBP)
  – Independent adjudicatory arm of NRC, acts as Commission “Trial Court”

• The adjudicatory hearing process provides opportunity for a full and fair hearing on contested aspects of the license application and NRC’s safety and environmental review

• Hearings are conducted by administrative judges from ASLBP
  – Cases are heard in Licensing Boards of three judges (one legal judge, two technical judges
  – Adjudicatory hearings follow very detailed, trial-like rules and procedures
NRC’s Final Licensing Decision

• Commission approval of ASLBP’s initial decisions is required before becoming final

• After Commission approval, NRC staff may proceed to issue the final license and technical specifications to the applicant; licensee may begin construction of the facility

• If certain requirements are met, NRC staff may issue the storage license for an initial term not to exceed 40 years
## Expected Timelines for NRC’s Decision Process

<table>
<thead>
<tr>
<th>NRC Decision Stage</th>
<th>Estimated Timeline for Completion</th>
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<tbody>
<tr>
<td>Acceptance Review</td>
<td>~90 days after receipt of license application</td>
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<tr>
<td>NRC Safety Review and Environmental Review</td>
<td>~36 months after acceptance of application</td>
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<tr>
<td>NRC Adjudicatory Hearings</td>
<td>Depends on hearing procedure (i.e., formal or informal), number and scope of contested issues</td>
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<tr>
<td>License Issuance</td>
<td>Within 10 days after final Commission decision</td>
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Conclusions

• NRC has an established regulatory framework in place for the potential licensing of a proposed consolidated storage facility

• Any NRC decision on a proposed consolidated interim storage facility will only be made after the completion of:
  – A comprehensive safety and environmental review; and
  – A fair and impartial public adjudicatory hearing

• If applications are received, NRC will re-prioritize resources to support the licensing process

• NRC continues to engage in public interactions with potential applicants for proposed consolidated interim storage facilities