

RIC 2003

New Reactors, Session T8

Early Site Permit -The Next Step

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Generic ESP Pre-Application Activities

- As with design certification before and COL to come, numerous common issues affect first-time ESP applicants
- ESP applicants working together via NEI task force to
 - Avoid duplication of efforts
 - Seek efficiencies from standardized approaches
 - Resolve generic issues with NRC early

Generic ESP Activities, cont.

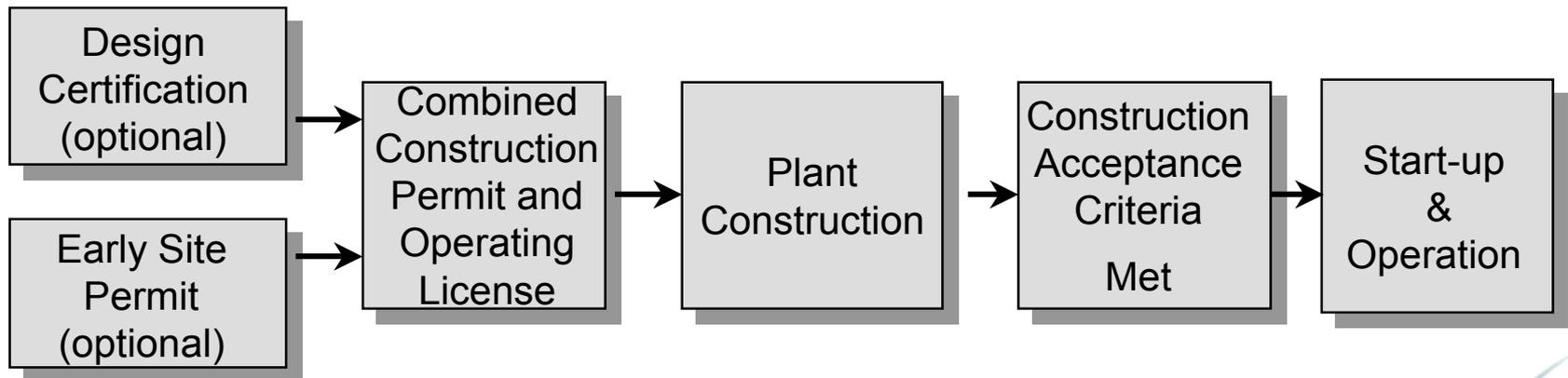
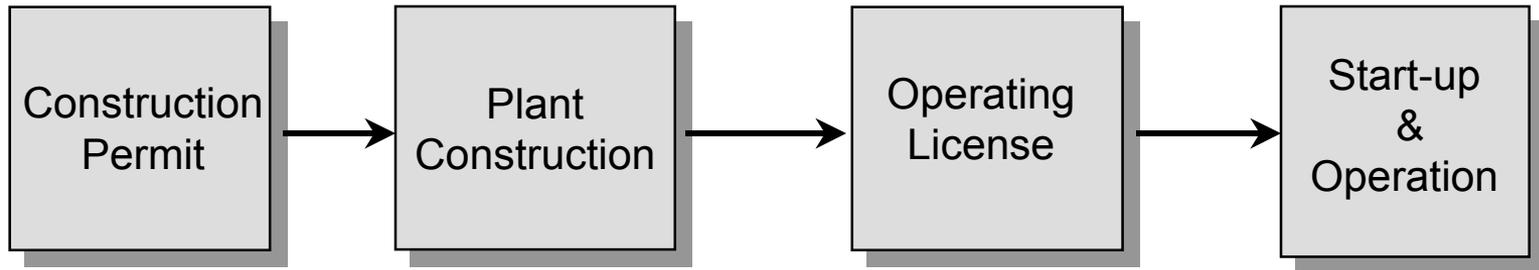
- Near monthly public meetings with NRC in the past year to address generic ESP issues
- Understandings & expectations being documented via exchange of letters between NEI and NRC
- Pilot applicants are finalizing ESP applications based on generic outcomes to date
- Further clarification on certain topics expected via
 - ESP Review Standard (NRC)
 - ESP Application Guidance (NEI)
 - Applicant-specific interactions

Key Expected NRC Findings for ESP

- Site characteristics are complete and accurate
- Scope of design parameters is sufficient for purposes of required site safety and environmental reviews
- The site is acceptable for construction and operation of reactor(s) having characteristics that fall within the identified site characteristics and design parameters

Comparison of Licensing Processes

Part 50



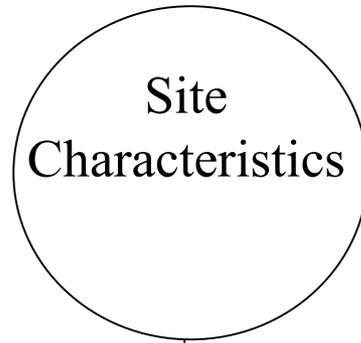
Bridging from ESP to the Combined License (COL)

- At COL, site suitability issues may be resolved by reference to an ESP provided that actual design characteristics fall within the ESP site characteristics and PPE
- Issues not resolved at ESP are subject to review at COL, e.g.,
 - Environmental review of severe accident mitigation alternatives
 - Environmental review of environmental impact mitigation alternatives, to the extent not addressed at ESP
 - Safety review of emergency plans, to the extent not addressed at ESP
- Significant new safety or environmental issues would also be addressed at COL

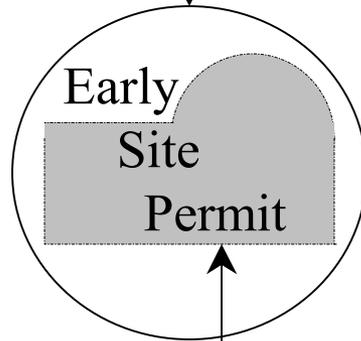
Part 52 Early Site Permit Process

Plant Parameters Envelope Approach

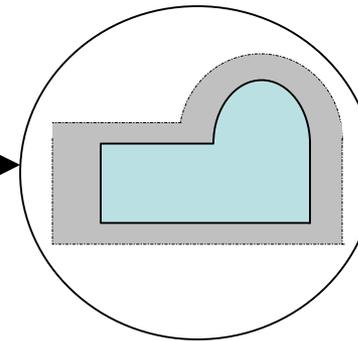
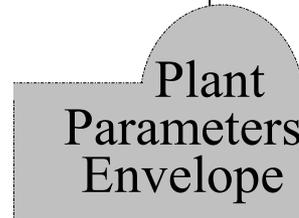
- Seismology
- Meteorology
- Geology, etc.



Early site approval for facilities that fit within the site characteristics and the PPE



- Acreage/footprint
- Releases/effluents
- Cooling water, etc.



Combined License

- Verification that design characteristics fall within the ESP site characteristics & PPE
- Consideration of significant new information