

Shin-Kori Units 1&2



7

Shin-Wolsong Units 1&2



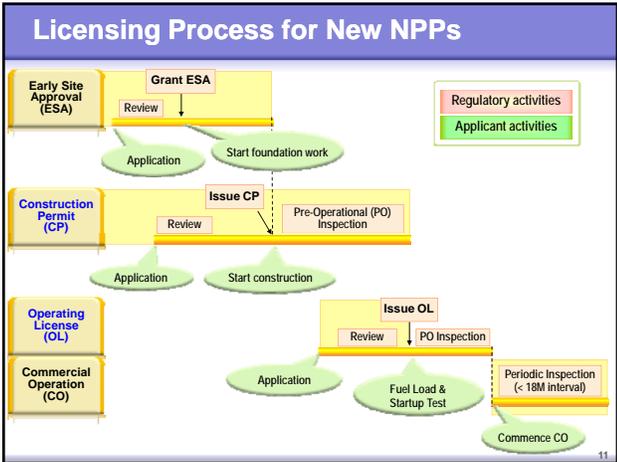
8

Shin-Kori Units 3&4



9





Safety Review

- ❑ **Construction Permit**
 - To ensure the plant design complies with applicable regulations
 - (Submittals) *Radiological Environmental Report, Preliminary Safety Analysis Report, Quality Assurance Program for construction, etc..*
- ❑ **Operating License**
 - To confirm the as-built plant design, installation and performance comply with applicable regulations
 - To ensure that the operator's capability, operating program, and emergency plan conform with applicable regulations
 - (Submittals) *Technical Specifications for Operation, Final Safety Analysis Report, QAP for operation, technical basis and verification for EOP, fuel loading plan, RER (if changed from CP stage), etc..*

Inspection

Pre-operational Inspection

- To confirm whether the plant has been constructed in accordance with the construction permit
- CP holder submits to the regulatory body an application form for the inspection
- Inspection stages
 - Structure inspection
 - Installation inspection
 - Cold functional test inspection
 - Hydrostatic test & hot functional test inspection
 - Initial fuel loading & start-up test Inspection

13

Inspection

QA Inspection

- Vendor inspection
 - Criteria: QA Requirements (equivalent to 10CFR part 50 Appendix B) and PSAR commitments (e.g. welding control, component design data, etc.)
 - Biannual inspection of NSSS contractor
 - Annual inspection of NSSS sub-tier vendors and ESF component vendors
- Site QA inspection
 - Annual base team inspection to verify if site QA activities conform with the QA Program for construction

Other inspection

- Resident inspection to daily oversight status and activities in the construction site and monitor safety culture of workers
- Special inspection in response to unexpected, unplanned or unusual situation, or event, as necessary

14



Control of Changes during Construction

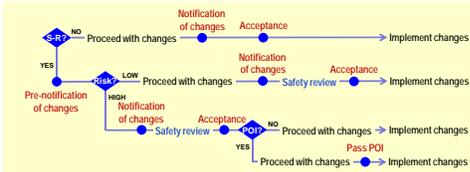
Control of Changes during Construction

❑ Process of Implementing Changes

- Changes that require approval from the regulatory body



- Other changes



19

Maintenance of Licensing Basis

❑ Management Considerations

- Close communication between regulatory body and a CP holder
- Inspection conducted by KINS staff involved in the CP review
- Multi-disciplinary team inspection approach for possible areas
- Use of KINS inspection guidelines and documentation of inspection results
- Use of past inspection and operating experience

20

*Safety Together
Better Tomorrow*



KANSAS INSTITUTE OF NUCLEAR ENERGY
