


United States Nuclear Regulatory Commission Official Hearing Exhibit In the Matter of:	NUCLEAR INNOVATION NORTH AMERICA LLC (South Texas Project Units 3 and 4)
	Commission Mandatory Hearing Docket #: 05200012 & 05200013 Exhibit #: NRC-011-MA-CM01 Admitted: 11/19/2015 Rejected: Other: Identified: 11/19/2015 Withdrawn: Stricken:



Combined License Application Review STP Units 3 and 4

Overview Panel November 19, 2015

Overview of Staff Review of STP 3 and 4 COL Application

- **STP 3 and 4 COL Application and Contents**
- **ABWR Design Certification (DC)**
- **STP 3 and 4 COL Overview – Safety Review**
- **STP 3 and 4 COL Overview – Environmental Review**
- **Summary of Staff Findings – COL Application**

STP 3 and 4 COL Application

- **In September 2007, South Texas Project Nuclear Operating Company (STPNOC) submitted the application**
- **In January 2011, Nuclear Innovation North America LLC (NINA) became lead applicant**
- **NINA would be licensed to construct STP 3 and 4. STPNOC would be the licensed operator.**

STP 3 and 4 COL Application

- **Incorporates by reference the ABWR Design Certification, including the Aircraft Impact Assessment (AIA) amendment to the ABWR**
- **Staff safety evaluation for ABWR: NUREG-1503 and NUREG-1503, Supplement 1**
- **Staff safety evaluation for AIA Amendment: NUREG-1948**

STP 3 and 4 COL Application Contents

- **STP 3 and 4 plant-specific information**
- **COL Information Items**
- **Departures from certified design**

STP 3 and 4 COL Overview: Safety Review

- **Design Certified in 1997**
 - **Technological improvements**
 - **Design innovations**
 - **Regulatory changes**
 - **Site-specific requirements**

STP 3 and 4 COL Overview: Safety Review

- **General Electric was the original ABWR vendor**
- **Alternate vendor (Toshiba) chosen to supply design**
- **Staff inspections and evaluation to determine alternate vendor qualification**

STP 3 and 4 COL Overview: Safety Review

- **Advisory Committee on Reactor Safeguards (ACRS) Review**
 - **Twenty ABWR Subcommittee meetings and two Full Committee meetings held on STP 3 and 4 COL application and safety evaluation report (SER)**
 - **ACRS report provided February 19, 2015**

STP 3 and 4 COL Overview: Safety Review

- **Staff response to ACRS provided
April 2, 2015**
- **Final SER issued September 29, 2015**

STP 3 and 4 COL Overview: Required Findings

- **Summary of Findings – 10 CFR 52.97**
 - **Applicable standards and requirements of the Atomic Energy Act (AEA) and the Commission's regulations have been met**
 - **Required notifications to other agencies or bodies have been duly made**

STP 3 and 4 COL Overview: Required Findings

- **Summary of Findings, continued**
 - **There is reasonable assurance that the facility will be constructed and will operate in conformity with the license, the AEA, and NRC regulations**
 - **Applicants are technically and financially qualified to engage in the activities authorized**

STP 3 and 4 COL Overview: Required Findings

- **Summary of Findings, continued**
 - **Issuance of the licenses will not be inimical to the common defense and security or to the health and safety of the public**
 - **Findings required by Subpart A of 10 CFR Part 51 have been made**

STP 3 and 4 COL Overview: Environmental Review

- **Environmental Impact Statement (EIS) completed in accordance with:**
 - **National Environmental Policy Act of 1969**
 - **10 CFR Part 51**
- **U.S. Army Corps of Engineers, Galveston District, was a cooperating agency**

STP 3 and 4 COL Overview: Environmental Review

- **Staff follows a systematic approach to evaluate impacts**
 - **Solicit and reconcile scoping comments**
 - **Conduct technical review**
 - **Issue draft EIS for public/stakeholder comment**
 - **Consider and disposition comments in preparing final EIS**

STP 3 and 4 COL Overview: Environmental Review

- **Stakeholder involvement is a key aspect of the process**
- **Final EIS published February 24, 2011, as NUREG-1937**

STP 3 and 4 COL Overview: Environmental Review

- **Record of Decision:**
 - **States the decision**
 - **Identifies all alternatives considered**
 - **Discusses preferences among alternatives**
 - **States whether the Commission has taken all practicable measures, within its jurisdiction, to avoid or minimize environmental harm**

STP 3 and 4 COL Overview: Environmental Review

- **Summary of Findings – 10 CFR 51.107(a)**
 - **The requirements of Section 102(2)(A),(C), and (E) of NEPA and the regulations in 10 CFR Part 51, Subpart A, have been met**
 - **After considering the final balance among conflicting factors in the record of the proceeding, the appropriate action is issuance of the COLs**

STP 3 and 4 COL Overview: Environmental Review

- After weighing the environmental, economic, technical, and other benefits against environmental and other costs, and considering reasonable alternatives, the COLs should be issued**
- The staff's NEPA review has been adequate**

STP Overview of Panel Presentations

Panel Number	Issues to be Discussed	Evaluation
Safety Panel 1	Departures and Exemptions	FSER Chapter 1
Safety Panel 2	<ul style="list-style-type: none"> Mitigation Strategies for Beyond Design Basis Events Electric Power (Bulletin 2012-01) 	FSER Chapter 22 FSER Chapter 8
Safety Panel 3	<ul style="list-style-type: none"> Design Basis Flood Alternate Vendor Qualification 	FSER Chapter 2 FSER Chapters 1 and 17
Environmental Panel	<ul style="list-style-type: none"> Process for Developing the EIS Environmental Impacts Analysis of Alternatives Conclusions and Recommendations 	FEIS