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November 30, 2011  
U7-C-NINA-NRC-110145

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852-2738

South Texas Project  
Units 3 and 4  
Docket Nos. 52-012 and 52-013  
10 CFR 70 License Application Additional Information

The South Texas Project (STP) Units 3 & 4 Combined License Application (COLA) Part 1, Section 1.1 requests a license under 10 CFR 70 to receive, possess, and use source, byproduct, and special nuclear material. The attachment to this submittal provides additional information required to be provided by 10 CFR 70.22(a)(4) regarding the possession and use of non-fuel special nuclear material by STP 3 & 4.

There are no commitments in this letter.

If there are any questions regarding this response, please contact me at (361) 972-7136, or Bill Mookhoek at (361) 972-7274.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 11/30/11

Scott Head  
Manager, Regulatory Affairs  
South Texas Project Units 3 & 4

rhs

Attachment: Non-Fuel Special Nuclear Material

DO91

STI 33141995

NRO

cc: w/o attachment except\*  
(paper copy)

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The radioactive material identified below represents nominal values of known non-fuel special nuclear material specifically required for use in each ABWR unit. The nominal values are based on the current design of the ABWR incore detectors; however, this design may change in the future.

<b>Element and Mass Number</b>	<b>Chemical or Physical Form</b>	<b>Amount</b>
Uranium 234, 235	Uranium Oxide in Start-Up Range Neutron Monitors (SRNM).  Fission Chamber	Approximately 5.6 mg of Uranium Oxide per detector (U235:U234 = 1:4).  10 detectors per unit. Total per unit = approximately 56 mg.
Uranium 234, 235	Uranium Oxide in Local Power Range Monitor (LPRM).  Fission Chamber	Approximately 13 mg of Uranium Oxide per detector (U235:U234 = 1:4).  52 detector assemblies per unit. Total per unit = approximately 676 mg.
Uranium 235	Uranium Oxide in Traversing Incore Probe (TIP)  Fission Chamber	Approximately 1 mg of Uranium Oxide per detector.  3 detectors per unit. Total per unit = approximately 3 mg.

The applicant for this 10 CFR 70 material license is technically qualified to engage in the proposed activities associated with this license based on the applicant's on-going experience in the safe operation of nuclear power plants as documented in the STP 3 & 4 COLA, Part 2 Tier 2, Section 1.4.4.2, thereby satisfying the requirements of 10 CFR 70.22(a)(6).

Furthermore, as indicated in COLA, Part 2 Tier 2, Table 13.4S-1, the applicable portions of the Radiation Protection Program will be implemented before initial receipt of byproduct, source or special nuclear material (excluding exempt quantities). In addition, adherence to the guidance contained in Nuclear Energy Institute (NEI) 07-03A, "Generic FSAR Template Guidance for Radiation Protection Program Description," which is incorporated by reference in COLA Part 2 Tier 2 Section 12.5S, ensures that the appropriate Radiation Protection Program elements associated with organization, facilities, instrumentation and equipment, procedures and training will be in place before initial receipt of byproduct, source, or special nuclear material, thereby satisfying the requirements of 10 CFR 70.22 (a)(7) and (a)(8).