

January 29, 2014

Mr. Scott Head, Manager
Regulatory Affairs
Nuclear Innovation North America, LLC
122 West Way, Suite 405
Lake Jackson, TX 77566

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 444 RELATED TO
SRP SECTION 1.5 FOR NUCLEAR INNOVATION NORTH AMERICA, LLC
(NINA) COMBINED LICENSE APPLICATION

Dear Mr. Head

By letter dated September 20, 2007, South Texas Project (STP) submitted for approval a combined license application pursuant to 10 CFR Part 52. The U. S. Nuclear Regulatory Commission (NRC) staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within **30** days of the date of this letter. If changes are needed to the safety analysis report, the staff requests that the RAI response include the proposed wording changes.

S. Head

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If you have any questions or comments concerning this matter, I can be reached at 301-415-8484 or by e-mail at Tom.Tai@nrc.gov.

Sincerely,

/RA/

Tom M. Tai, Senior Project Manager
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-012
52-013

eRAI Tracking No. 7403

Enclosure:
Request for Additional Information

cc: William Mookhoek
Richard Scheide

S. Head

-2-

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***Approval captured electronically in the electronic RAI system.
OFFICIAL RECORD COPY**

Request for Additional Information 444

Issue Date: 01/29/2014

Application Title: South Texas Project Units 3 and 4 - Dockets 52-012 and 52-013

Operating Company: South Texas Project Nuclear Operating Co

Docket No. 52-012 and 52-013

Review Section: 01.05 - Other Regulatory Considerations

Application Section:

QUESTIONS

01.05-30

In the response to RAI 01.05-22, NINA identified five RCIC valves (F004, F037, F001, F006, F011) for Phase 1 core cooling in the mitigation strategies. The power source for these valves is from Division 1 dc batteries. However, in Calculation Report No. U7-DCE-E-CALC-DESN-6001, only three RCIC valves (FV-004, FV-011, and FV-0052 with different valve numbers) were assumed to draw power from dc batteries. There appears to be an inconsistency between these two documents relating to the dc power source being used for RCIC valves during Phase 1. The applicant is requested to clarify the inconsistency and revise the document(s), as necessary, including different valve numbering in these two documents and assumptions being used in the calculation.

01.05-31

In RAI 01.05-22, the NRC staff requested additional information about the power sources including manual operations for all the valves and pumps that will be required for mitigation strategies throughout three phases of extended loss of all ac power. NINA responded on October 16, 2013 (ML13294A121). The staff requests NINA to place the portion of the response into the report of STP 3&4 ABWR FLEX Integrated Plan to demonstrate the adequacy of design capabilities of the power sources including operations for all the valves and pumps being used for mitigation strategies.