



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

January 14, 2014

Mr. Dennis L. Koehl
President and CEO/CNO
STP Nuclear Operating Company
South Texas Project
P.O. Box 289
Wadsworth, TX 77483

SUBJECT: SOUTH TEXAS PROJECT, UNITS 1 AND 2 - REQUEST FOR ADDITIONAL
INFORMATION REGARDING FUKUSHIMA LESSONS LEARNED – FLOODING
HAZARD REANALYSIS REPORT (TAC NOS. MF1110 AND MF1111)

Dear Mr. Koehl:

By letter dated March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) issued a request for information pursuant to Title 10 of the *Code of Federal Regulations*, Section 50.54(f) (hereafter referred to as the 50.54(f) letter). The request was issued as a part of implementing lessons-learned from the accident at the Fukushima Dai-ichi nuclear power plant. Enclosure 2 to the 50.54(f) letter requested licensees to perform a flood hazard reevaluation using present-day methodologies and guidance.

By letter dated March 11, 2013 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13079A806), STP Nuclear Operating Company (STPNOC) submitted a response to Enclosure 2, Required Response 2 of the 50.54(f) letter. The NRC staff has determined that additional information is needed to complete its review.

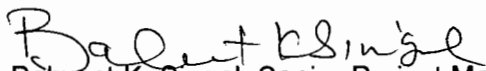
This request was discussed with Ms. Wendy Brost of your staff on January 9, 2014, and it was agreed that STPNOC would input files for the numerical models used for the analysis by January 22, 2014, and provide a complete response to the RAI by February 13, 2014.

D. Koehl

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If you have any questions, please contact me at 301-415-3016 or via e-mail at Balwant.Singal@nrc.gov.

Sincerely,



Balwant K. Singal, Senior Project Manager
Plant Licensing Branch IV-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

FUKUSHIMA LESSONS LEARNED

FLOODING HAZARD REEVALUATION REPORT

STP NUCLEAR OPERATING COMPANY

SOUTH TEXAS PROJECT, UNITS 1 AND 2

DOCKET NOS. 50-498 AND 50-499

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RAI 1: Local Intense Precipitation and Associated Site Drainage

Please provide electronic versions of the input files used for HEC-HMS analysis in the flood hazard reevaluation report (FHRR) related to the local intense precipitation analyses.

RAI 2: Local Intense Precipitation and Associated Site Drainage

Please provide electronic versions of the input files used for HEC-RAS analysis in the FHRR related to local intense precipitation analyses.

RAI 3: Local Intense Precipitation and Associated Site Drainage

Please provide descriptions of the sources of elevation data, the methods used to incorporate elevation measurements into local intense precipitation flood analysis, and the likely magnitude of the errors associated with these elevations.

RAI 4: Local Intense Precipitation and Associated Site Drainage

Please provide a description of the basis used to classify Probable Maximum Flood (PMF) flow as shallow concentrated flow used in the Natural Resources Conservation Service (NRCS) TR-55 methodology.

Enclosure

RAI 5: Failure of Dams and Onsite Water Control/Storage Structures

Please provide details of the ineffective flow areas and levees that were removed from the Halff Associates, Inc. HEC-RAS model while developing the HEC-RAS model used to reevaluate the flood hazard from upstream dam failures at the South Texas Project (STP), Units 1 and 2 site. Also, please provide a justification for removal of these features.

RAI 6: Failure of Dams and Onsite Water Control/Storage Structures

Please provide details of the intra-basin flows that were allowed to occur in the HEC-RAS model. Also, because allowing intra-basin flows would reduce the discharge at STP, Units 1 and 2 site, the licensee is requested to provide a justification how the flood hazard from upstream dam failures would still be conservative.

RAI 7: Failure of Dams and Onsite Water Control/Storage Structures

Please provide electronic versions of the input files used for HEC-RAS analysis in the FHRR related to upstream dam failures.

RAI 8: Failure of Dams and Onsite Water Control/Storage Structures

Please provide the electronic version of National Weather Service (NWS) BREACH model input files used in the recent Main Cooling Reservoir (MCR) breach analyses of the three postulated breach locations described in FHRR Section 2.3.

RAI 9: Failure of Dams and Onsite Water Control/Storage Structures

Please provide a description of model configuration, boundary conditions, and model parameters for the three RMA2 simulations. Also, Please provide the RMA2 input files, including the computational grids, used for the three simulations.

D. Koehl

- 2 -

If you have any questions, please contact me at 301-415-3016 or via e-mail at Balwant.Singal@nrc.gov.

Sincerely,

/RA/

Balwant K. Singal, Senior Project Manager
Plant Licensing Branch IV-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
Request for Additional Information

cc w/encl: Distribution via Listserv

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ADAMS Accession No. ML13358A065

*** Email dated 12/18/13**

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