



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

July 7, 2016

Mr. J. Connolly
Site Vice President
STP Nuclear Operating Company
P.O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
SOUTH TEXAS PROJECT LICENSE RENEWAL APPLICATION

Dear Mr. Connolly:

By letter dated October 25, 2010, STP Nuclear Operating Company, submitted an application pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 51 and 10 CFR Part 54, to renew the operating license NPF-76 and NPF-80 for South Texas Project, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, an area where additional information is needed to complete the review.

This request for additional information was discussed with Rafael Gonzales, and a mutually agreeable date for the response is within 60 days from the date of this letter. If you have any questions, please contact me at (301) 415-3617 or by e-mail at Tam.Tran@nrc.gov.

Sincerely,

/RA/

Tam Tran, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
As stated

cc w/encl: Listserv

Mr. J. Connolly
Site Vice President
STP Nuclear Operating Company
P.O. Box 289
Wadsworth, TX 77483

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
SOUTH TEXAS PROJECT, LICENSE RENEWAL APPLICATION

Dear Mr. Connolly:

By letter dated October 25, 2010, STP Nuclear Operating Company, submitted an application pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 51 and 10 CFR Part 54, to renew the operating license NPF-76 and NPF-80 for South Texas Project, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, an area where additional information is needed to complete the review.

This request for additional information was discussed with Rafael Gonzales, and a mutually agreeable date for the response is within 60 days from the date of this letter. If you have any questions, please contact me at (301) 415-3617 or by e-mail at Tam.Tran@nrc.gov.

Sincerely,
/RA/

Tam Tran, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure:
As stated

cc w/encl: Listserv

DISTRIBUTION: See following pages

ADAMS Accession No.: ML16187A052

OFFICE	LA:DLR	PM:RPB1:DLR	BC:RERP:DLR
NAME	IBetts	TTran	JDanna
DATE	7/6/16	6/30/2016	7/7/2016

OFFICIAL RECORD COPY

**SOUTH TEXAS PROJECT
LICENSE RENEWAL APPLICATION
REQUEST FOR ADDITIONAL INFORMATION**

RAI CLI-16-07

On May 4, 2016, the Commission issued a decision (CLI-16-07) in the Indian Point license renewal proceeding, in which it directed the staff to supplement the Indian Point Severe Accident Mitigation Alternatives (SAMA) analysis with sensitivity analyses. Specifically, the Commission held that documentation was lacking for two inputs (TIMDEC and CDNFRM) used in the MACCS computer analyses, and that uncertainties in those input values could potentially affect the SAMA analysis cost-benefit conclusions. The Commission therefore directed the Staff to perform additional sensitivity analyses.

The two inputs (TIMDEC and CDNFRM) are commonly used in the SAMA analyses performed for license renewal applications (LRAs). These two input values were generally based on the values provided in NUREG 1150, "Severe Accident Risks: An Assessment for Five U.S. Nuclear Power Plants" and NUREG/CR-3673, "Economic Risks of Nuclear Power Reactor Accidents." The TIMDEC input value defines the time required for completing decontamination to a specified degree. The CDNFRM input parameter defines the cost (on a per person basis) of decontaminating non-farmland by a specified decontamination factor. The CDNFRM values used in NUREG-1150 (\$3,000/person for decontamination factor of 3 and \$8,000/person for decontamination factor of 15) stem from decontamination cost estimates provided in NUREG/CR-3673, the same 1984 economic risk study referenced in support of the decontamination time inputs. These decontamination cost inputs are commonly escalated to account for inflation.

The NRC staff believes the Commission's decision in CLI-16-07 may be applicable to the SAMA analysis performed for South Texas Project (STP), Units 1 and 2, license renewal, in as much as that analysis may have also relied upon the NUREG-1150 values for TIMDEC and CDNFRM. We therefore request that STP Nuclear Operating Company (STPNOC) either justifies why CLI-16-07 does not apply to the SAMA analysis performed for STP or supplements the SAMA analysis with sensitivity analyses for the CDNFRM and TIMDEC values.

STPNOC is requested to review the input values specified in CLI-16-07 for the Indian Point LRA and (a) to apply the maximum values specified by the Commission (one year (365 days) for TIMDEC and \$100,000 for the CDNFRM values for the decontamination factor of 15) or (b) in the alternative, to explain, with sufficient justification, its rationale for choosing any other value(s) for its sensitivity analyses. In any event, STPNOC should execute sensitivity analyses for the release categories modeled that exceed 10^{15} Becquerels of Cs-137 released.

STPNOC is requested to evaluate how these sensitivity analyses may affect its identification of potentially cost-beneficial SAMAs. Finally, upon completing its sensitivity analysis, STPNOC is requested to submit the spreadsheet (or equivalent table if another method is used) that conveys the population dose and off-site economic cost for each release category and integrates the results into a Population Dose Risk and an Offsite Economic Cost Risk for STP.

ENCLOSURE

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE SOUTH TEXAS PROJECT, LICENSE RENEWAL APPLICATION

DISTRIBUTION:

HARD COPY:

DLR RF

E-MAIL:

PUBLIC

RidsNrrDlr Resource

RidsNrrDlrRpb1 Resource

RidsNrrDlrRerb Resource

RidsNrrDlrRsg Resource

RidsNrrPMSouthTexasProject Resource

RidsOgcMailCenter

LJames, DLR

YDiaz-Sanabria, DLR

TTran, DLR

JDanna, DLR

DMcIntyre, OPA

LRegner, DORL

NTaylor, RIV

DProulx, RIV

SJanicki, RIV

SMoney, RIV

ASanchez, RIV

NHernandez, RIV

WMaier, RIV

VDricks, RIV

GPick, RIV

SGraves, RIV

ajaldrige@STPEGS.COM, STP

rjgonzales@STPEGS.COM, STP

Isterling@STPEGS.COM, STP

mpmurray@STPEGS.COM, STP