

50-498/499



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

October 24, 1995

Mr. William T. Cottle  
Group Vice-President, Nuclear  
Houston Lighting & Power Company  
South Texas Project Electric  
Generating Station  
P. O. Box 289  
Wadsworth, TX 77483

SUBJECT: TECHNICAL EVALUATION REPORT FOR THE OFFSITE DOSE CALCULATION MANUAL  
(REVISION 6), SOUTH TEXAS PROJECT, UNITS 1 AND 2 (STP) (TAC NOS.  
M82726 AND M82727)

Dear Mr. Cottle:

Enclosed is the Technical Evaluation Report (TER) for Revision 6 of the South Texas Project (STP) Offsite Dose Calculation Manual (ODCM). This TER was prepared for the NRC by the Idaho National Engineering Laboratory (INEL) in partial fulfillment of the "Review of Radiological Issues" project. The objective of this TER is to evaluate how well the STP ODCM conforms with the methodology and guidance of the following NRC documents:

- NUREG-1302, "Offsite Dose Calculation Manual Guidance: Standard Radiological Effluent Controls for Pressurized Water Reactors"
- NUREG-0133, "Preparation of RETS for Nuclear Power Plants"
- Regulatory Guide 1.109, Revision 1, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I"

The staff has thoroughly reviewed INEL's TER and agrees with the findings. The overall evaluation is that Revision 6 of the STP ODCM uses documented and approved methods that are consistent with the methodology and guidance of the above NRC documents. However, the Technical Findings section of the TER identifies 10 primary deficiencies and 27 secondary deficiencies, omissions, and suggestions. These findings range in seriousness from the use of incomplete and vague equations to missing figures and unclear nomenclature. The ODCM should be a stand-alone document. It should contain all the necessary information (equations, definitions, sample calculations) to permit an NRC inspector to duplicate calculations used by the licensee to demonstrate conformance with the regulations related to radioactive effluents. Therefore, many of the findings suggest that the ODCM should be revised to clarify certain alarm/trip setpoint calculation methods, verify the sources of equations used to determine dose rates and doses, include sample calculations, and add additional figures showing effluent release points, paths, and alarm locations.

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Mr. William T. Cottle

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As stated above, the enclosed TER is based on Revision 6 of the STP ODCM. Since you have issued subsequent revisions to the ODCM since the TER was prepared, some of the comments and suggestions contained in the attached TER may no longer be applicable. However, the staff suggests that you review the TER comments against the most recent version of the STP ODCM and incorporate all suggested changes into the next revision of the ODCM. No additional response to this letter is requested.

Sincerely,

ORIGINAL SIGNED BY:

Thomas W. Alexion, Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket Nos. 50-498 and 50-499

Enclosure: Technical Evaluation Report

cc w/encl: See next page

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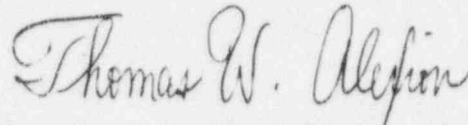
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Mr. William T. Cottle

-2-

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Sincerely,



Thomas W. Alexion, Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

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Enclosure: Technical Evaluation Report

cc w/encl: See next page

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