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Waterford 3

W3F1-2000-0168
A4.05
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December 14, 2000

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
2000 Survey of Toxic Chemicals and Pipelines
in the Vicinity of Waterford 3

Reference: Entergy Letter to NRC, W3F1-2000-0109 dated August 3, 2000

Gentlemen:

The referenced letter reported the results of the 2000 survey of toxic chemicals and pipelines in the vicinity of Waterford 3. In the letter, it was stated that Entergy was evaluating the potential hazards related to the transportation of toxic and explosive chemicals on the Union Pacific Railroad (UPRR) and would submit the results upon completion of the evaluation. Entergy has completed the evaluation and the purpose of this letter is to report its findings.

The analysis of the 2000 survey results indicates the overall hazard probability (for incapacitation of operators) from toxic chemicals being transported on UPRR is approximately 2.3×10^{-6} per year. Incapacitation of the operators will not necessarily lead to radiological releases in excess of 10CFR100 guidelines. The plant would have to experience multiple system failures to produce core damage. NUREG/CR-2650 suggests a value of 0.1 for the probability that incapacitation of the operators would lead to a radiological release in excess of 10CFR100 guidelines. With this factor applied, the probability that toxic chemicals frequently transported on this

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rail line could cause a radiological release is 2.3×10^{-7} per year. This probability is well below the 10^{-6} per year criterion described in FSAR Section 2.2.3.3.

This letter also affirms our commitment made in the referenced letter to add to the toxic chemical detectors any new chemicals that pose a potential hazard. There are no new commitments associated with this correspondence.

Should you have any questions regarding this matter, please contact P.M. Melancon at (504) 739-6614.

Very truly yours,



E.P. Perkins, Jr.
Director
Nuclear Safety Assurance

EPP/TMM/rtk

cc: E.W. Merschoff (NRC Region IV), N. Kalyanam (NRC-NRR), J. Smith,
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