



Entergy Operations, Inc.
P.O. Box B
Killona, LA 70066
Tel 504 739 6242

Early C. Ewing, III
Director
Nuclear Safety & Regulatory Affairs
Waterford 3

W3F1-98-0058
A4.05
PR

April 8, 1998

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
Annual Environmental Operating Report - 1997

Gentlemen:

Attached is the 1997 Annual Environmental Operating Report for the subject facility. This report is submitted pursuant to section 5.4.1 of the Environmental Protection Plan (Appendix B to the Operating License).

Should you have any questions regarding this report, please contact Roy Prados at (504) 739-6632. 1/1

Very truly yours,

E.C. Ewing
Director
Nuclear Safety & Regulatory Affairs

ECE/RWP/rtk
Attachment

cc: E.W. Merschoff (NRC Region IV), C.P. Patel (NRC-NRR),
J. Smith, N.S. Reynolds, R.H. Gibson (EPA),
L.K. Levy (LA DEQ), NRC Resident Inspectors Office

9804130286 971231
PDR ADOCK 05000382
R PDR

cool

WATERFORD 3 1997 ANNUAL ENVIRONMENTAL OPERATING REPORT

This report describes implementation of the Environmental Protection Plan (EPP) for the calendar year 1997, and provides the information required by the EPP.

A. Summaries and analyses of the results of the environmental protection activities required by EPP subsection 4.2:

This section of the EPP provides protection of the two cultural resources areas on the Waterford 3 site. There were no activities which affected either the Plantation Overseer's House site or the Plantation Quarter's site, both eligible for the National Register of Historic Places, during this reporting period.

B. EPP noncompliance's and the corrective actions taken to remedy them:

There were no noncompliance's with the requirements of the EPP during this reporting period.

C. A discussion of changes in station design or operation, tests, or experiments made in accordance with the EPP subsection 3.1 which involved a potential significant unreviewed environmental question:

On July 23, 1997, the Plant Operations Review Committee approved a new Technical Requirements Manual (TRM) Specification for the Auxiliary Boiler (AB) Fuel Oil Storage Tank (FOST). This new Specification was necessary to enable Waterford 3 to meet the ANSI N195 10% fuel oil margin required for the Emergency Diesel Generators (EDGs) following the limiting design basis accident utilizing fuel in the Auxiliary Boiler FOST. This new TRM Specification ensures that the Auxiliary Boiler FOST maintains a sufficient usable volume of fuel oil (verified by performing Surveillance Requirements) and prescribes appropriate Actions if the volume was reduced to less than required.

In order to utilize the Auxiliary Boiler FOST for this purpose, a temporary hose would be run from the FOST to the Diesel Generator fill line. This would create the potential for a diesel fuel spill, from a hose rupture, in the area around the Turbine Generator Building. An environmental evaluation determined that the Turbine Generator Building sumps and dikes are sufficient to contain the tank contents. In the event of an oil spill, Waterford 3 would

implement its Spill Control and Countermeasures Plan, in accordance with 40 CFR 112, which includes 24 hour spill response coverage. These measures assure that there is no adverse environmental consequences during day to day plant operations or adverse conditions.

D. Nonroutine reports submitted in accordance with subsection 5.4.2:

1. On July 8, 1997, Waterford 3 notified (by telecon) the Louisiana Department of Environmental Quality (LA DEQ) that the pH limitation (upper limit of 9.0) of Outfall 01D, Steam Generator Blowdown, of NPDES Permit LA0007374 had been exceeded. In preparation for startup, the plant discharged 25,172 gallons of steam generator water from Outfall 01D to the Mississippi River through a mixed bed demineralizer. Prior to the release, a pH of 7.02 was measured on the demineralizer effluent. At the end of the release, the mixed bed demineralizer showed signs of exhaustion and a pH of 9.54 was measured. All other monitored parameters were within specification.

Controls were put into place such that discharges from Outfall 01D are monitored periodically to ensure that pH remains within specification. This event was also reported in a letter dated July 10, 1997, and in the NPDES Permit Discharge Monitoring Report for July 1997.

2. On August 13, 1997, Waterford 3 notified (by telecon) the LA DEQ that the pH in Outfall 002, Yard Oil/Water Separator, had exceeded the permit limitation (upper limit of 9.0). The discharge from the separator was halted immediately, and an investigation of the cause was conducted. It was found that the drainage ditch that receives the flow from Outfall 002 had a pH of 9.3; however, the pH was 8.05 at the stormwater monitoring point, Outfall 04A, prior to leaving the plant site.

This noncompliance was attributed to the concentration of ammonia in the seal water of two recently installed condenser vacuum pumps. These vacuum pumps are recirculating and designed to utilize no motive air (atmospheric). This design enables ammonia from the degassing of condensing turbine exhausted steam to concentrate in the pump seal water and seal water tank. The seal water tank discharges to the Turbine Building Industrial Waste Sump which discharges to the Yard Oil/Water Separator.

Waterford 3 has placed controls on discharges of the Yard Oil/Water Separator Sump to ensure that the pH is within specification prior to discharge. This event was also reported to the LA DEQ in a letter dated August 19, 1997 and in the NPDES Permit Discharge Monitoring Report for August 1997.

3. On September 26, 1997, Waterford 3 requested (by fax) permission from the LA DEQ to use Alum, as a temporary measure, to control total suspended solids in the Yard Oil/Water Separator Sump. The request was made because the suspended solids concentration was trending upward. Permission was granted by the LA DEQ on the same day. However, Waterford 3 did not utilize the Alum because the need did not materialize.