

Mr. R. S. Leddick
Vice President - Nuclear Operations
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

JUN 12 1984

DISTRIBUTION
Docket File 50-382
NRC PDR
Local PDR
NSIC
PRC System
LB#3 Reading

JLee
JWilson
ACRS (16)
EJordan
NGrace

In the Matter of
LOUISIANA POWER & LIGHT COMPANY
(Waterford Steam Electric Station, Unit 3)
Docket No. 50-382

Dear Mr. Leddick:

By letter dated May 4, 1984, your counsel, E. L. Blake, Jr. of Shaw, Pittman, Potts & Trowbridge requested, on behalf of the Louisiana Power & Light Company, that our office issue a Certification of Pollution Control Facilities for the Waterford Steam Electric Station, Unit 3 for certain facilities which are described in Exhibit A to the request.

The staff has reviewed the request. Based on the review, we are satisfied that the portions of Waterford Steam Electric Station, Unit 3 for which NRC certification was requested are "pollution control facilities." Accordingly, the attached certificate has been executed.

Copies of the request and this response will be available for inspection at the Local Public Document Room (University of New Orleans Library, Louisiana Collection, Lakefront, New Orleans Louisiana) and at the Commission's Public Document Room at 1717 H Street, N.W., Washington, D. C.

Sincerely,

Original Signed By
E. G. Case

Edson G. Case, Deputy Director
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc: See next page

DL:LB#3
JLee/yt
5/29/84

DL:LB#3
JWilson
5/29/84

DL:LB#3
G. Wrighton
5/29/84

OELD
S. Tule
5/31/84

DL:AD/L
TMNotak
6/8/84

DL:STR
DGEisenhut
6/11/84

NRR
ECase
6/11/84

HS 6/12/84

8406250162 840612
PDR ADOCK 05000382
A PDR

Mr. R. S. Leddick
Vice President - Nuclear Operations
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

W. Malcolm Stevenson, Esq.
Monroe & Leman
1432 Whitney Building
New Orleans, Louisiana 70130

Mr. E. Blake
Shaw, Pittman, Potts and Trowbridge
1800 M Street, NW
Washington, DC 20036

Mr. Gary L. Groesch
2257 Bayou Road
New Orleans, Louisiana 70119

Mr. F. J. Drummond
Project Manager - Nuclear
Louisiana Power and Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Mr. K. W. Cook
Nuclear Support and Licensing Manager
Louisiana Power & Light Company
142 Delaronde Street
New Orleans, Louisiana 70174

Luke Fontana, Esq.
824 Esplanade Avenue
New Orleans, Louisiana 70116

Stephen M. Irving, Esq.
535 North 6th Street
Baton Rouge, Louisiana 70802

Resident Inspector/Waterford NPS
P. O. Box 822
Killona, Louisiana 70066

Mr. Jack Fager
Middle South Services, Inc.
P. O. Box 61000
New Orleans, Louisiana 70161

Regional Administrator - Region IV
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76012

Carole H. Burstein, Esq.
445 Walnut Street
New Orleans, Louisiana 70118

CERTIFICATE

UNIT 3 (NUCLEAR) WATERFORD STEAM ELECTRIC GENERATING STATION

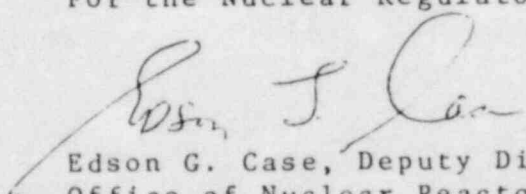
POLLUTION CONTROL FACILITIES

The Nuclear Regulatory Commission (the NRC) hereby certifies as follows:

(a) that it has examined Exhibit A attached hereto which is entitled "General Description of the Facilities" and which describes certain facilities which have been constructed, are under construction or are to be constructed at the Unit 3 (Nuclear) Waterford Steam Electric Generating Station, a nuclear electric power generating plant located in St. Charles Parish at Taft, Louisiana, which plant is owned by Louisiana Power & Light Company; and

(b) that such facilities, as designed, are in furtherance of the purpose of abating or controlling atmosphere pollutants or contaminants or water pollutants resulting from the generation of electricity at the Unit 3 (Nuclear) Waterford Steam Electric Generating Station.

For the Nuclear Regulatory Commission


Edson G. Case, Deputy Director
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland
this 12th day of June, 1984.

STEAM GENERATOR BLOWDOWN WASTE TREATMENT SYSTEM

The steam generator blowdown waste treatment system processes and treats effluent from the steam generator blowdown system through electromagnetic filters to remove magnetic corrosion particles and demineralizers to remove dissolved solids prior to effluent discharge to the environment.

The system consists of that portion of the steam generator blowdown system that is for cleanup of regeneration and filter flush wastes, including the regenerative waste tank, the filter flush tank, the acid storage tank, the caustic storage tank, and associated pumps, piping, wiring and instrumentation.

CONDENSATE POLISHER WASTE TREATMENT SYSTEM

The condensate polisher waste treatment system disposes of demineralizer filter backwash from the condensate polishing system.

The backwash treatment equipment will process backwash water containing spent resins, corrosion products and particulates. The system consists of the backwash transfer pump, the dewatering filter, the holding tank, the backwash recovery pump, the polishing filter, the polishing filter drain pump, the fluffing pump, the treated water backwash storage tank and associated piping, wiring, sump pumps, motors and instrumentation.

LIQUID RADIOACTIVE WASTE TREATMENT SYSTEM

The liquid radioactive waste treatment system processes and disposes of liquid radiological effluents to maintain plant discharges at ALARA (as low as reasonably achievable) levels, in accordance with 10 CFR 50, Appendix I. The liquid radioactive waste treatment system is comprised of three subsystems: the low level liquid waste subsystem, the boron management subsystem and the laundry waste management system, which are described below.

Low Level Liquid Waste Subsystem:

The low level liquid waste subsystem collects potentially radioactive liquids from various plant systems and processes and treats them to remove both radioactive and nonradioactive contamination prior to discharging the effluent to the environment.

This subsystem includes the auxiliary boiler, two waste batching tanks, the oil filter and separator, the waste filter, the waste concentrator, the waste condensate ion exchanger, the waste condensate tank and associated pumps, drives, piping, wiring, drains, sumps, instrumentation and radiation monitoring equipment.

Boron Management Subsystem:

The boron management subsystem removes boron and low level radioactivity from reactor coolant blowdown, thereby reducing the concentration of boron discharged to within applicable regulatory limits.

The system consists of the reactor drain tank, the equipment drain tank, the flash tank, the holdup tank, the boric acid precondensate filters and ion exchangers, boric acid concentrators, the boric acid condensate ion exchangers, boric acid condensate tanks, heat tracing, thermal insulation, associated pumps and motors, piping, wiring and radiation monitors.

Laundry Waste Management Subsystem:

The laundry waste management subsystem collects, treats and disposes of liquid detergent wastes from the laundry, laundry sump, contaminated showers and sinks, and the chemistry laboratory dishwasher.

This system includes the laundry waste tanks and filter, piping, pumps, motors and associated electrical and mechanical equipment.

GASEOUS WASTE MANAGEMENT SYSTEM

The gaseous waste management system collects, stores, samples and monitors and disposes of potentially radioactive gaseous wastes generated during normal plant operations. This system insures that releases of radioactive materials are ALARA, in accordance with 10 CFR 50, Appendix I.

The system consists of the gas surge tank, the waste gas decay tanks, the waste gas compressors, the gas analyzers, filters, fans and related piping, wiring, instrumentation and radiation monitoring equipment.

SOLID WASTE MANAGEMENT SYSTEM

The solid waste management system prepares solid wastes for disposal and storage. This system is comprised of the following subsystems: the solid waste subsystem, the resin waste management subsystem, the compactor building and storage pad, the hot machine shop/decontamination station and hot laundry. The system processes, packages and stores high activity liquid and solid radioactive wastes and low activity solid radioactive wastes prior to shipment for offsite burial. The wastes processed through this system include waste concentrator bottoms, spent ion exchange resins, used filter cartridges and miscellaneous refuse (dry active waste).

Solid Waste Subsystem:

The solid waste subsystem treats waste concentrates and chemical wastes from the waste and boric acid concentrators, and the chemical waste tank.

Solid Waste Subsystem: (Continued)

The subsystem consists of a concentrate storage tank and metering pump and associated piping, pumps, wiring and instrumentation.

Resin Waste Management Subsystem:

The resin waste management subsystem treats spent radioactive ion exchanger resin from the various process demineralizers. Resin wastes are collected, stored and transferred to the portable solidification system.

The subsystem includes the spent resin tank and transfer pump, the spent resin sampling system and control panel and associated piping, pumps, wiring and instrumentation.

Compactor Building and Storage Pad:

The compactor building houses equipment for the sorting and packaging of dry active waste (miscellaneous contaminated refuse such as protective clothing, gloves, paper and boxes). The interim radwaste storage pad provides a secure area for the retention and storage of processed radwaste until an off-site disposal site is available.

The major equipment in the Compactor Building consists of the granulator (shredding machine), compactor, sorting cabinets, a forklift, platform scale and air filtration equipment.

Hot Machine Shop/Decontamination Station:

The Hot Machine Shop/Decontamination Station provides facilities to decontaminate and repair tools and system components which have become radioactively contaminated while in use in the Plant. Equipment located in the Hot Machine Shop includes lathes, a drill press, milling machines, a valve lapping machine, grinders, a radial drill and a power saw. The Decontamination Station is equipped with an ultrasonic cleaning assembly, a spray booth and associated apparatus, rinse tanks, a work bench, fume hoods, a radiation monitor, and monorails for moving heavy equipment.

Hot Laundry:

The Hot Laundry, located in the Reactor Auxiliary Building, provides onsite facilities to launder contaminated protective clothing prior to reuse. There are two washing machines and three dryers. The laundry room drains are plumbed into the Liquid Radioactive Waste Treatment System for treatment prior to discharge to the environment.