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FACIL:50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
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RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Application for amend to License DPR-67 changing Tech Specs to modify surveillance requirements & bases associated w/Chlorine detection sys.

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FLORIDA POWER & LIGHT COMPANY

March 9, 1983
L-83-129

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit 1
Docket No. 50-335
Proposed License Amendment
Chlorine Detection System

In accordance with 10 CFR 50.30, Florida Power & Light Company submits herewith three signed originals and forty copies of a request to amend Appendix A of Facility Operating License DPR-67.

This amendment is submitted to modify the surveillance requirements and bases associated with the Chlorine Detection System.

Since the removal of the 1-ton chlorine cylinders from the St. Lucie site, which were used in the treatment of plant circulating water, the main source of chlorine, for which the original analysis was performed, no longer exists. However, a smaller quantity of chlorine is stored offsite near the sewage treatment and city water storage facilities. The attached evaluation provides the consequences of an accidental failure of a 150-lb. chlorine cylinder on the habitability of the St. Lucie Unit 1 control room. The St. Lucie Unit 2 control room is further from the storage chlorine cylinder location and is, therefore, not more limiting. The results of the evaluation are detailed in Attachment 1 and specifically document that the 150-lb. chlorine cylinder does not constitute a source which would require having qualified detectors at the control room air intakes. (Based on Regulatory Guide 1.78 toxicity limit of 15 ppm).

Calibration and Periodic testing has also been a problem in that chlorine must be introduced into the detectors to verify their operability requiring an unnecessary possible exposure for plant personnel.

In order to facilitate plant operation and maintenance during the present refueling outage, it is requested that this Technical Specification change be approved by mid-April 1983.

A001

The proposed amendment is described below:

Page 3/4 3-36

Specifications 3.3.3.6 and 4.3.3.6 are deleted.

Page 3/4 7-23

The Control room emergency ventilation system surveillance requirement of specification 4.7.7.1.e concerning the chlorine accident detection signal is deleted.

Page B 3/4 3-3

The bases for the chlorine detection system is deleted.

Page B 3/4 7-5

The bases for the chlorine accident detection signal is deleted.

The proposed amendment has been reviewed by the St. Lucie Facility Review Group and the Florida Power & Light Company Nuclear Review Board.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/PLP/js

Attachment

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire
PNS-LI-83-152-1