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RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards revised plans for monitoring noble gases which might be released from steam plant, per TMI Lessons Learned Task Force short-term requirements.

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FLORIDA POWER & LIGHT COMPANY

September 11, 1980
L-80-297

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
Discussion of Lessons Learned Short Term Requirements

Florida Power & Light submitted a letter (L-80-204), dated June 27, 1980, with the above subject for prior review and approval by the NRC of item 2.1.8.b, January 1, 1981 requirements. In the attachment to that letter, our plans for monitoring noble gases which might be released from the steam plant were discussed. Since the date of that letter, our plans in this area have changed, and we now intend to monitor for these gases as discussed in the attachment to this letter. Pursuant to the NRC letter dated October 30, 1979 with the same subject Florida Power & Light is submitting this information for prior review and approval.

If you have any questions, please feel free to call.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/PLP/pah

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire

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ATTACHMENT

DISCUSSION OF LESSONS LEARNED SHORT TERM REQUIREMENTS
NOBLE GAS MONITORS

To meet the requirements to monitor for noble gases which might be released via the steam plant, we plan to install a single detector on each main steam line upstream of the main steam isolation valves. These detectors and shielding will be mounted against the pipe, similar to "snow plow" designed samplers. Noble gas release rates will be determined from curves relating noble gas activity in the steam to the flow rate out of the steam system effluent (steam generator safety valves and atmospheric steam dumps).

We intend to use two Eberline Model SA-11's with microprocessor capabilities similar to the SPING-4 units. As an interim, local ratemeters will be provided until Eberline provides the Data Acquisition Module (D.A.M.) interface, which will then tie the SA'11's to the system control terminals. Continuous control room readout will be available with the D.A.M. unit. A local area monitor will be provided to allow backgroud subtraction of possible interfering radiation levels. The maximum range for this detector is 1000 μ ci/cc. Backup power will be supplied from a class 1E Emergency power source.

The requirements to have the capability to continuously sample steam effluents for radioiodine and particulates will be accomplished by obtaining condensed steam grab samples. These samples will be analyzed for iodine and particulate radioactivity with a Ge Li detector.