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UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards short-term lessons learned Item 2.1.8.b for NRC review & approval.

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FLORIDA POWER & LIGHT COMPANY

August 20, 1980
L-80-274

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: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Short-Term Lessons Learned (2.1.8.b)

Enclosure 2 of an October 30, 1979 letter from Mr. Harold Denton requires prior NRC review and approval of Short-Term Lessons Learned item 2.1.8.b. Pursuant to that directive, Florida Power & Light Company is submitting the attached information for Turkey Point Units 3 and 4.

Please call if you have any questions on this subject.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/pah

Attachment

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

A001 S 3/3

8008260580

ATTACHMENT

Re: Turkey Point Units 3 & 4

Docket Nos. 50-250 & 50-251

Short-Term Lessons Learned (2.1.8.b)

Florida Power & Light Company has purchased and plans to have four Eberline SPING-4 samplers installed at Turkey Point Units 3 & 4 by January 1, 1981. The samplers will provide normal and high range noble gas monitoring at the plant vent stack, Unit 3 spent fuel pit, Unit 3 air ejector exhaust, and Unit 4 air ejector exhaust. Effluents from the Reactor Auxiliary Building, the Unit 4 spent fuel pit, the waste gas decay tanks, and from either containment (during a purge) pass through the plant vent stack.

The SPING-4 samplers monitor noble gas activity on three separate detectors accommodating a range from 1×10^{-7} uCi/cc up to 1×10^{5} uCi/cc. A background compensation feature is available on each channel to assure representative measurements inside a high background area.

Turkey Point Technical Specifications and Safety Guide 21 specify the requirements for calibration of detectors used to monitor radioactive release paths. The SPING-4 noble gas detectors used to monitor the plant vent stack, air ejector exhausts, and Unit 3 spent fuel pit will be calibrated annually. Specific procedures for calibrating the SPING-4 noble gas detectors will be written after the samplers and detailed instruction manuals have been

received. Calibration techniques will be consistent with the practices already employed in the calibration of the plant vent monitor as described in Turkey Point Units 3 and 4 Nuclear Chemistry Procedure NC-16, Calibration of the Gas Channel on the Plant Vent Nuclear Measurement Corporation (NMC) Monitor.

Noble gas release rates will be determined from curves based upon monitor readings and effluent flow rates. The SPING-4 noble gas monitors will read-out both locally and in the control room. The same information will be capable of being accessed from the Technical Support Center upon request by a computer data link.

The SPING-4 samplers are also used to sample for radioiodine and particulate radioactivity. Radioiodine and particulate isotopes are collected on high efficiency filters located in the samplers. To determine the amount of radioiodine and particulate radioactivity released, the sample filters will be removed from the sampler and transported to an on-site isotope counter. Ge-Li detectors are available within the radiation controlled area (RCA). If background is high a Ge-Li detector is also available in a low background area outside the RCA.

Under normal sampling conditions, radioiodines will be collected on standard charcoal filter cartridges with no concern for noble gas counting interference. However, silver zeolite cartridges will be available as necessary in the event of an accident. Silver zeolite filters minimize counting errors associated with noble gas contamination.

Prior to removing sample filters from the SPING-4, surveys will be performed. Precautions to minimize occupational exposure during sample handling will be based upon the results of these surveys. The SPING-4 contains an air purge feature which can be used to flush high activity samples from the system prior to retrieving sample filters.

To meet the requirements for monitoring noble gas activity which might be released from the secondary side of the Turkey Point units, we plan to install a single detector which will be capable of monitoring a steam sample from any of the six steam generators. The sample will be a side stream main steam sample from a point upstream of the main steam isolation valves. Noble gas release rates will be determined from curves which relate noble gas activity in a steam sample to the flow rate out of the system (e.g., steam generator safety valves, atmospheric steam dumps). The instrument will be an Eberline Model SA-9. The SA-9 sample unit contains a GM tube with a detection range of 10^0 - 10^5 uCi/cc referenced to Xe-133. The SA-9 will read out in the control room. The information will also be accessible to the Technical Support Center upon request by a computer data link.

Power to the four SPING-4 samplers and SA-9 steam sample monitor will be from a vital A.C. power source. Back-up power will be provided by the plant emergency diesel generator.

The requirements to have the capability to continuously sample steam system effluents for radioiodine and particulates will be accomplished by collecting condensed samples from the side stream steam sample system. Liquid grab samples will be analyzed on site for iodine and particulate radioactivity with a Ge-Li detector.

January 1981 requirements for having two high range containment radiation monitors will be met by the planned installation of two General Atomic High Range Area Monitors meeting the requirements of Enclosure 1, Table 2.1.8.b.3 of the October 30, 1979 letter from Mr. Harold Denton.

8/15/80

WESTINGHOUSE PRESSURIZED WATER REACTOR LICENSEES

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Docket No. 50-315
D. C. Cook Unit 1

Docket No. 50-316
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