

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8010240216      DOC. DATE: 80/10/20      NOTARIZED: NO      DOCKET #  
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co.      05000250  
       50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co.      05000251  
 AUTH. NAME      AUTHOR AFFILIATION  
 UHRIG, R.E.      Florida Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 VARGA, S.A.      Operating Reactors Branch 1

SUBJECT: Updates mod plans & provides addl info re fire protection plan.

DISTRIBUTION CODE: A006S      COPIES RECEIVED: LTR 3 ENCL 0 SIZE: 3  
 TITLE: Fire Protection Information (After Issuance of OP. Lic.)

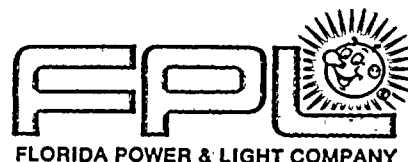
## NOTES:

	RECIPIENT ID CODE/NAME		COPIES LTR ENCL		RECIPIENT ID CODE/NAME		COPIES LTR ENCL
ACTION:	VARGA, S.	04	3				
INTERNAL:	CHEM ENG BR-A	7	5		I&E	06	2
	NRC PDR	02	1		OELD		1
	<u>REG FILE</u>	01	1		WAMBACH, T.	10	1
EXTERNAL:	ACRS	09	16	1	LPDR	03	1
	NSIC	05	1				

OCT 27 1980

TOTAL NUMBER OF COPIES REQUIRED: LTR 32 ENCL 0





October 20, 1980  
L-80-346

Office of Nuclear Reactor Regulation  
Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Varga:

RE: TURKEY POINT UNITS 3 & 4  
DOCKET NOS. 50-250 & 50-251  
FIRE PROTECTION

The Facility Operating Licenses for Turkey Point Units 3 and 4 require Florida Power & Light Company to "complete the modifications indentified in Paragraphs 3.1.1 through 3.1.19 of the NRC's Fire Protection Safety Evaluation, dated March 21, 1979..." The purpose of this letter is to update our modification plans and provide information that has been discussed with the NRC Staff. It is our understanding that the Staff finds the information acceptable.

Item 3.1.6

In our letter of May 7, 1980( L-80-140), we noted that:

The Fire Protection SER states that fixed water spray protection will be provided for the doors of the switchgear rooms which face the main and auxiliary transformers. We have reconsidered this fire protection modification and we have decided to remove the existing door in each switchgear room that faces the transformers area. We will block up each door opening with an appropriate 3 hour fire rated wall. This change affects the following fire protection SER requirements: 3.1.6 (Water Suppression), 3.1.9 (Fire Doors) Section (2), and 3.1.13 (Curbs) Paragraph (1).

Due to problems encountered in the implementation of this modification, we have decided not to block the door openings. We will, however, meet the intent of the USNRC's concern by providing a roofed labyrinth entrance (with a raised floor) and fire rated door at the existing entrances through the south wall of both the 3B and 4B 4160 V switchgear rooms.

The effective fire rating of the labyrinth-door combination will meet or exceed the requirement for protecting against the exposure hazard presented from the area external to the switchgear rooms. However, since fire rated doors are long-lead procurement items (approximately 8 months), it is our intent to install Maranite board over the existing doors on an interim basis in conjunction with the raised floor and labyrinth until the fire

*Approved  
10/3/80*



Office of Nuclear Reactor Regulation  
Page 2

rated door/frame assemblies arrive. This modification was discussed with Mr. G. Harrison of the USNRC and was found to be conceptually acceptable.

Item 3.1.12

In our letter of June 20, 1980 (L-80-196), we notified the USNRC of our intent to provide sprinkler heads on the outside wall of the diesel generator building as a means of reducing the potential for damage to the Diesel Generator system from a fire in the fuel oil storage tank. Through subsequent discussions with Mr. G. Harrison of the USNRC, we were informed that this alternative would be acceptable with certain modifications. Based on this discussion, we have revised the system as described below:

There are a total of four 9' x 7' louvers, two for each diesel. One is on the north, two are on the east, and one is on the south wall of the building with an oil spill dike between the tank and the building. Each louver will have a total of four nozzles (Grinnel Protectospray Type D3 large capacity with No. 48 orifice, 0.750", 95° deflection or equivalent). The spray will cool the metal louvers and missile shields, and will reduce the induction of particulate matter from smoke. The system supply will be a 4" line with a locked closed supply valve with breakable chain and lock. Actuation will be manually initiated by opening the supply valve after verification of a valid diesel generator building fire alarm due to a fire within the berm surrounding the emergency diesel generator fuel storage tank. The water supply line will come from the turbine building system about 40 feet west of the diesel generator building. Total pipe length is approximately 125 feet.

Item 3.1.15 (4)

The staff concern in this section of the Safety Evaluation is that the Control Point Guardhouse at the entrance to the Auxiliary Building creates an exposure hazard to cable trays in the vicinity.

Through Mr. G. Harrison of the USNRC, we have arrived at a cost effective alternative to construction of a new Control Point Guardhouse. The alternative, a sprinkler system, will allow FPL to assess its long term needs regarding access/egress control and personnel radiological monitoring in the Radiation Controlled Area, while adequately addressing the Staff's concerns.

The sprinkler system will consist of three sprinkler heads mounted between the roof of the existing Control Point Guardhouse and the bottom of the cable trays, one sprinkler head above the Control Point Guardhouse, and two sprinkler heads inside the Control Point Guardhouse. The six sprinkler



Office of Nuclear Reactor Regulation  
Page 3

heads will be 165°F fuseable element. The water supply line will come from the turbine building system about 12 feet above the roof of the Control Point Guardhouse.

Very truly yours,

*J a De Mosty*  
*jr*

Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/MAS/WAK/ras

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

