FPL

FLORIDA POWER & LIGHT COMPANY

April 17, 1974

Mr. Angelo Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Giambusso:

TURKEY POINT UNIT NO. 4
DOCKET NUMBER 50-251
REINSPECTION OF SAFETY RELATED
HYDRAULIC PIPE RESTRAINTS INACCESSIBLE
DURING REACTOR OPERATION

The reinspection of hydraulic pipe restraints in accordance with the continuing requirements of the Directorate of Licensing letter of November 8, 1973, was completed on April 3, 1974.

A total of 50 restraints were inspected and all except one were found to be operable. The restraint judged to be inoperable contained a hydraulic fluid level below the minimum indicated level. This restraint was located in the pressurizer compartment and is a Bergen-Paterson Model No. HSSA-10-6.

Disassembly of the restraint showed that the cause of the fluid loss was the ineffective sealing of the main piston rod packing. The two pieces that comprise the packing assembly were found to have separated, resulting in a degradation of the packing's sealing function. This restraint was replaced with a spare unit containing ethylene propylene seals.

This was the first inspection conducted subsequent to rebuilding the Unit No. 4 restraints with the ethylene propylene seal material. Examination of the seals from the inoperable restraint showed no evidence of deterioration of the seal material. The separation of the main piston rod packing is believed to have been a random event related to the reassembly of the restraint.

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A summary of the radiation and temperature environment for the restraints is provided in the attached Table.

Very truly yours,

Robert E Uhrig

R. E. Uhrig
Director of Nuclear Affairs

REU/HNP/kmw

cc: Mr. Norman C. Moseley
Mr. Jack R. Newman

TABLE NO. 1

SUMMARY OF TEMPERATURE AND RADIATION ENVIRONMENT FOR SAFETY RELATED RESTRAINTS INACCESSIBLE DURING REACTOR OPERATION

	Restraint Location	No. at Location	Temperatures of Restraints	Radiation in Area of Restraint at 100% Power
1.	Top of Pressurizer Compartment	18	<150F	<1(R/hr)
2.	Just below the containment operating floor; just outside the pressurizer compartment	7	<120F	<1(R/hr)
3.	Operating floor in the vicinity of the steam generators	9	<120F	<1(R/hr)
4.	Lower elevation of Reactor containment (14 ft. elev.) inside the reactor coolant loop compartment	16	<120F	≈40(R/hr)*

*This number was determined by utilizing TLD's located on the restraints closest to the reactor coolant loop.

This radiation field is representative of a maximum and should also be used in place of restraint radiation environment data previously submitted for Unit No. 3.