

FLORIDA POWER &amp; LIGHT COMPANY

November 8, 1974

Mr. Edson G. Case, Acting Director  
Directorate of Licensing  
Office of Regulation  
U. S. Atomic Energy Commission  
Washington, D. C. 20545

Dear Mr. Case:

ABNORMAL OCCURRENCE NO. 251-74-7  
NOVEMBER 8, 1974  
OCCURRENCE DATE: OCTOBER 29, 1974  
TURKEY POINT UNIT NO. 4

SAFETY INJECTION SYSTEM  
LEAK FROM VENT ASSEMBLY

A. Condition Prior to Occurrence:

A reactor heatup was in progress following cold shutdown.

B. Description of the Occurrence:

At about 6:30 a.m. October 29, 1974, a routine visual inspection of the reactor coolant system revealed steam leaking from a 3/4 inch vent line assembly upstream of Safety Injection System (SIS) 10 inch check valve 4-875A.

C. Cause of the Occurrence:

The leakage appeared to be confined to the weld area between the 3/4 inch pipe and the socket weld fitting. The cause for the discontinuity has not been determined at this time.

D. Analysis of Occurrence:

In the event that safety injection had been required, the amount of water lost through the leak would have had a negligible effect on the cooling of the reactor core. Thus, neither reactor safety nor the health and safety of the public were jeopardized by this occurrence.

E. Corrective Action:

Corrective actions consisted of the following:

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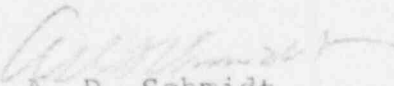
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1. The 3/4 inch vent assembly was removed from the (SIS) pipe run by grinding off the fitting to pipe weld. The vent assembly was sent to a laboratory for a metallurgical analysis.
2. Prior to welding, the replacement fitting was subjected to liquid penetrant and radiographic examination. The base metal of the SIS pipe was also examined by liquid penetrant examination. Following welding, a successful liquid penetrant examination was conducted on the vent assembly weld connections.
3. Subsequent to heat up and pressurization, a visual examination was made on the vent assembly welds. No leakage was observed.
4. To ensure the integrity of similar vent or drain line assemblies on the Unit 4 safety injection system, liquid penetrant examinations were conducted on these assemblies. Replacement of these assemblies is not required.
5. Unit 3 vent and drain assemblies will be examined during the current refueling outage.
6. A supplement to this Abnormal Occurrence will be issued upon receipt of the report from the laboratory.

F. Failure Data:

This is the first failure of this type at the Turkey Point nuclear units.

Very truly yours,

  
A. D. Schmidt  
Director of Power Resources

DWR:pg

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