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FACIL:50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
AUTH.NAME AUTHOR AFFILIATION
UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
CLARK,R.A. Operating Reactors Branch 3

SUBJECT: Submits addl info re seismic qualification of auxiliary feedwater sys in response to Generic Ltr 81-14.

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TITLE: Equipment Qualification (OR & PRE-OL)

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FLORIDA POWER & LIGHT COMPANY

May 6, 1982
L-82-186

Office of Nuclear Reactor Regulation
Attention: Mr. Robert A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Clark:

Re: St. Lucie Unit 1
Docket No. 50-335
Seismic Qualification of Auxiliary Feedwater System

Ref: 1) R.A. Clark (NRC) letter to R.E. Uhrig (FPL), same subject, dated 4/2/82.
2) R.E. Uhrig (FPL) letter L-81-411 to D.G. Eisenhut (NRC) dated 9/18/81.

The NRC has requested, by Reference (1), clarification of the St. Lucie Unit 1 AFW system boundary as discussed in Reference (2). This information is provided below.

NRC QUESTION 1:

"Clarify the extent to which your AFW System boundary coincides with the boundary defined in Generic Letter 81-14, especially parts (a) and (b):

(a) "The AFW system boundary from suction to discharge (including the water source and heat sink) shall include those portions of the system required to accomplish the AFW system function and connected branch piping up to and including the second valve which is normally closed or capable of automatic closure when the safety function is required".

RESPONSE: Reference 2 addressed the seismic Category I AFW system from the (seismic Category I) Condensate Storage Tank up to the terminal connection of the AFW system to the (seismic Category I) Main Feedwater piping. The AFW system boundary also includes the (seismic Category I) steamline connection upstream of the MSIVs which feed the (seismic Category I) steam turbine driven AFW pump. The heat sinks are by reference, the (seismic Category I) steam generators and (seismic Category I) Main Steam piping up to and including the seismic Category I Atmospheric Dump Valves and Main Steam Isolation Valves. There is no branch piping in this flowpath which is required to be isolated for performance of the AFW system function.

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(b) "The AFW System boundary shall also include any portion of branch piping that is structurally coupled to the AFW system boundary such that the seismic response of the branch piping transmits loads to the AFW system. As a minimum, this includes the branchlines outside the AFW system boundary to a point of three orthgonal restraints".

RESPONSE: There are no branch piping connections in the AFW system. Only normal small bore vents, drains and instrument taps all with root valves, are provided as an integral part of the AFW system piping. These vents, drains and taps were seismically analyzed with the AFW system piping to meet seismic Category I requirements.

(c) "All mechanical and electrical equipment, piping (e.g., instrument air), conduits and cable trays, which are necessary or contain items which are necessary for the operation of the AFW system, shall also be considered."

(d) "In addition, the structures housing these systems and components shall be included".

RESPONSE: item c) and d) were addressed in our original response (Reference 2).

Very truly yours,

J. A. De Mastry
for

Robert E. Uhrig
Vice President
Advanced Systems and Technology

REU/PKG/DAV/mbd

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