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50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co. 05000389
AUTH. NAME AUTHOR AFFILIATION
WOODY, C. O. Florida Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Responds to NRC 870721 request for addl info supporting util response to IE Bulletin 85-03. Electrical power removed from unlisted motor operated valves (MOV). MOV reviewed for compliance w/IE Bulletin 85-03.

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AUGUST 21 1987

L-87-353

U. S. Nuclear Regulatory Commission
Attn: Document control Desk
Washington, D.C. 20555

Gentlemen:

Re: St. Lucie Plant Units 1 and 2
Docket Nos. 50-335 and 50-389
IE Bulletin 85-03
Request for Additional Information

The attached information is in response to your letter dated July 21, 1987 (Luis A. Reyes to C. O. Woody), which requested additional information in support of the Region II staff's review of Florida Power & Light's response to IE Bulletin 85-03 for our St. Lucie Units 1 nd 2.

Should there be additional information needed to support your review, please contact us.

Very truly yours,

C. O. Woody
Group Vice President
Nuclear Energy

COW/GRM/gp

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

IE11
1/1

IE BULLETIN 85-03
ADDITIONAL INFORMATION
ST. LUCIE UNITS 1 AND 2

QUESTION 1: Unlisted MOVs V-3614, -3624, -3634, and -3644 in discharge lines of the safety injection tank system are shown locked open (fail as is) on Drawing 8770-G-078, Sheet 131, Revision 3, for Unit 1. If power is removed from the motors in addition to the locked-open position of these MOVs, please state this in your response. Otherwise, address the effect of assuming inadvertent equipment operations as required by Action Item a of the bulletin, and revise the listing of the response of 08-15-86 to include these valves.

NOTE: For Unit 2, See Drawing 2998-G-078, Sheet 132, Revision 0.

RESPONSE 1: Electrical power is removed from these valves.

QUESTION 2: Has water hammer due to valve closure been considered in the determination of pressure differentials? If not, please explain?

RESPONSE 2: The motor operated valves reviewed for IEB 85-03 for St. Lucie Units 1 and 2 are slow acting valves. A survey of the closure times and piping lengths was conducted to determine the most limiting system configuration and valve operating characteristics with respect to water hammer. An evaluation was performed to verify that the worst case system configuration and valve operating characteristics would not cause significant water hammer loading due to valve closure. This bounding case was shown to produce a maximum total differential pressure (system differential pressure plus a conservative water hammer differential pressure) of less than one third of the maximum differential pressure calculated for IEB 85-03.

QUESTION 3: Please expand the proposed program for Action Items b, c and d of the bulletin to include the following details as a minimum:

(a) commitment to a training program for setting switches, maintaining valve operators, using signature testing equipment and interpreting signatures, and

(b) commitment to justify continued operation of a valve determined to be inoperable.

RESPONSE 3: (a) PSL has motor operated valve (MOV) switch adjustment and MOVATS training modules written. These are currently being reviewed for incorporation into the training program. Appropriate Electrical Maintenance personnel have been provided training in the use of MOVATS equipment and signature interpretation by MOVATS, Inc. Limitorque operator training has been provided by Power Safety International. Maintenance and testing of MOVs are controlled by approved plant procedures.

(b) Action will be taken as required by Technical Specifications for any MOVs found to be inoperable.