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ATLANTA, GEORGIA

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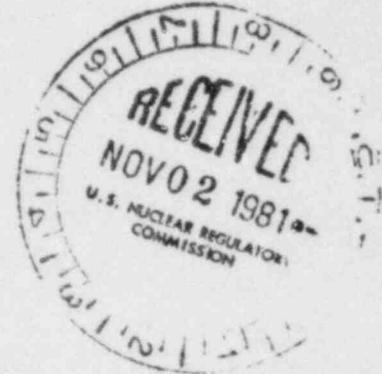
October 26, 1981

Copies to: CMW, JHB, DAS, NGR, RRJ

Offsite: JWJ, COW, PLP, REU, KNH

To: Mr. J. P. O'Reilly, Director, Region II
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Atlanta, Georgia 30303

From: Mr. C. M. Wethy, Plant Manager
St. Lucie Plant - DPR 67
Florida Power & Light Company
Miami, Florida



Subject: MEMO FOR FACSIMILE TRANSMISSION TO CONFIRM PROMPT REPORTABLE
OCCURRENCE 335-81-46

Steam Generator Tube Eddy Current Testing

This is to confirm the telephone conversation with Mr. H. Dance at 4:15 p.m. on 10/23/81. Due to a very small tube leak located by helium testing we did Eddy Current Testing (ECT) in the "center" area of B S/G which was not part of our original planned sample and was an area not previously extensively tested.

With a planned sample of 600 tubes (each S/G) to be tested we had found enough failures (degradation greater than 40% of wall thickness) to put us in Category C-3 of Tech Spec 3.4.5 which is prompt reportable per T.S. Table 4.4-2. Current results are that the failures are concentrated in tube rows with full radius bends i.e. U shaped rather than tubes with two 90° bends. There are about 2000 of these U bend tubes (of approximately 8600 total) in each S/G. Based on a small sample, concentrated in the failure area, the defect rate is quite high as of 10/23/81. "A" S/G 2 failures of 38 tested, "B" S/G 22 failures of 120 tested. Again, this is the first time any significant ECT has been done in this area. CE states this is the first time this pattern has been seen.

Update: As of 10/26/81 "A" S/G 22 failures of 536 tested. "B" S/G 39 failures of 904 tested (4.1% and 4.3%) All but 2 failures are in rows 8-12 of the U-bend tubes; 1 is in row 13, and 1 is in row 18, the outermost U-Bend tube row.

Present plans are to complete testing in rows 1-18 over the next 2-3 days. So far failures are in the upper bend area so the defective area is inaccessible for inspection even by pulling the tube.

C. M. Wethy
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