

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.  
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 RECIP. NAME:    RECIPIENT AFFILIATION: Document Control Branch (Document Control Desk)

SUBJECT: Forwards plans for exam of component cooling water HX 2B welds, per encl LER 90-005-00. Util plans to conduct non-NDE of full circumference of HX shell/tube welds during 1992 outage to better characterize condition of welds.

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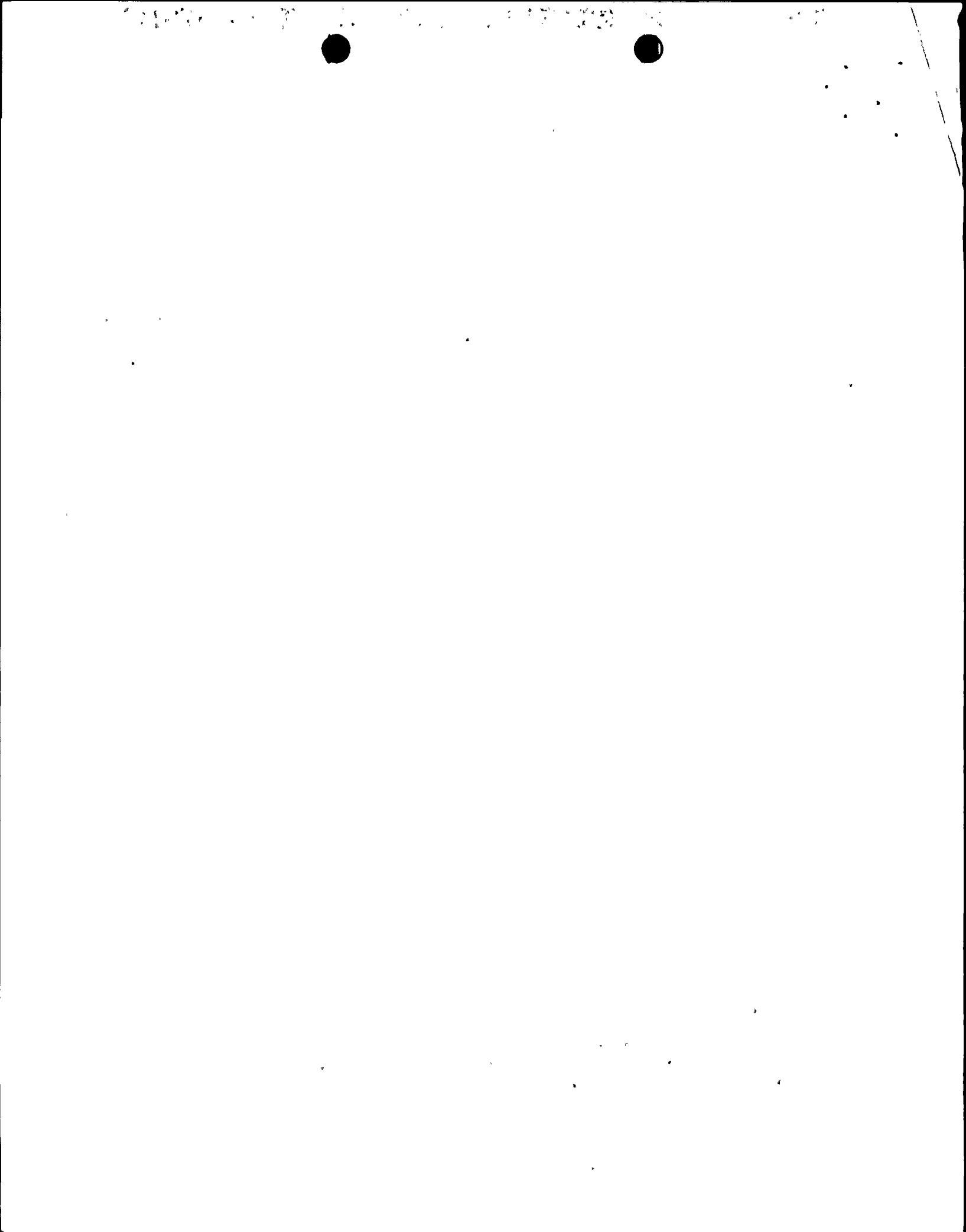
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March 23, 1992

L-92-92  
10 CFR 50.4

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

RE: St. Lucie Unit 2  
Docket No. 50-389  
2B Component Cooling Water Heat Exchanger

On November 23, 1990 Florida Power and Light Company (FPL) requested and was granted a Temporary Waiver of Compliance to enter Mode 4 with the 2B Component Cooling Water Heat Exchanger out of service. The heat exchanger was out of service while completing a repair of the tube sheet/shell weld joint. The NRC approval was later documented in an NRC Region II letter (S.D. Ebnetter to J. H. Goldberg) dated November 26, 1990.

In the FPL request L-90-413, FPL stated our plans to conduct non-destructive examination of the full circumference of the 2B CCW heat exchanger shell/tube sheet welds during the 1992 refueling outage to better characterize the condition of these welds.

Attached for your information are the plans for examination of the 2B CCW heat exchanger welds. The Unit 2 outage is scheduled to start on April 21, 1992.

Please contact us if there are any questions about this plan.

Very truly yours,

D. A. Sager  
Vice President  
St. Lucie Plant

DAS/GRM/kw

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, St. Lucie Plant

DAS/PSL #661-92

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**PLAN FOR AUGMENTED ULTRASONIC EXAMINATION OF BI-METALLIC WELDS IN THE ST. LUCIE 2B COMPONENT COOLING WATER HEAT EXCHANGER**

The 2B component cooling water (CCW) heat exchanger is scheduled for an augmented volumetric examination in April of 1992 based on leaks found and repaired during the 1990 Unit 2 refueling outage. The leakage was attributed to the retubing activities which included channel head removal and re-installation. This activity was reported via LER 389/90-05 (see attached copy).

The St. Lucie Unit 2 CCW heat exchangers were designed and fabricated in accordance with ASME Code Section III, with no "N" stamp required and ASME Section VIII, Div. 1, 1974 edition with a "U" stamp. Final NDE for the tube sheet to shell welds was 100% surface examination (PT) and hydrostatic pressure test.

For inservice inspection, the CCW heat exchangers are Class 3 components. Per ASME Section XI, 1980 edition through Winter 1980 addenda, paragraph IWD-2410, these vessels are only required to be subjected to the inservice system pressure tests and visual examinations as specified in Table IWD-2500-1. The augmented volumetric examination of the 2B CCW heat exchanger will be performed to better characterize the quality of the tube sheet to shell welds.

The necessity for repairs to the welds will be determined by the acceptability of indications for continued service based on criteria similar to that found in IWB-3112. Indications not bounded by this criteria will be evaluated utilizing Fracture Mechanics, applying criteria similar to that of IWB-3600, for suitability for continued service.

The St. Lucie Unit 2 1992 refueling outage is scheduled to start on April 21, 1992 with a planned duration of approximately 53 days. Preparations for the ultrasonic inspection of the 2B CCW welds are scheduled to begin immediately at the start of the outage.