

305/23/78

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)
DISTRIBUTION FOR INCOMING MATERIAL

50-250/251

REC: SCHWENCER A
NRC

ORG: UHRIG R E
FL PWR & LIGHT

DOC DATE: 08/18/78
DATE RCVD: 08/22/78

DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:

COPIES RECEIVED
LTR 3 ENCL 0

RESPONSE TO NRC LTR DTD 08/14/78... FURNISHING INFO RE CONSEQUENCES OF THE
POSSIBILITY OF EXTRANEIOUS WELD MATERIAL BEING PRESENT IN UNIT 4 REACTOR VESSEL
NOZZLE-BELT TO SHELL CIRCLE SEAM WELD.

PLANT NAME: TURKEY PT #3
TURKEY PT #4

REVIEWER INITIAL: XJM
DISTRIBUTER INITIAL: PL

***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

REACTOR VESSEL MATERIAL SURVEILLANCE
(DISTRIBUTION CODE A021)

FOR ACTION: BR CHIEF ORB#1 BC**LTR ONLY(3) ZWETZIG**LTR ONLY(1)

INTERNAL:	REG FILE**LTR ONLY(2)	NRC PDR**LTR ONLY(1)
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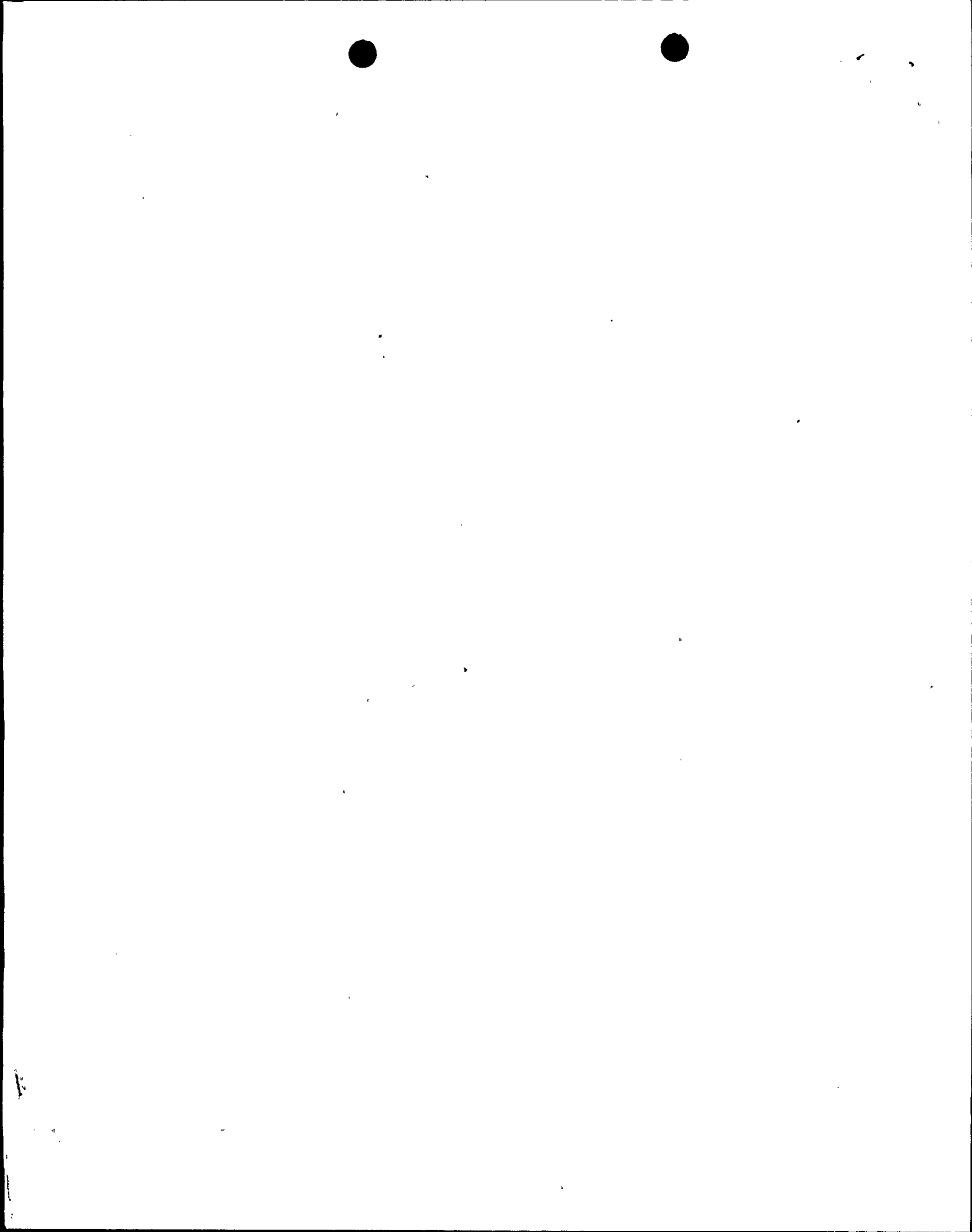
EXTERNAL: LPDR'S
 MIAMI, FL**LTR ONLY(1)
 TERA**LTR ONLY(1)
 NSIC**LTR ONLY(1)
 ACRS CAT B**LTR ONLY(16)

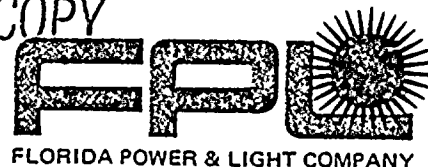
DISTRIBUTION: LTR 40 ENCL 0
SIZE: 2P

CONTROL NBR: 782340173

TUCOCHPPT
CP

***** THE END *****





August 18, 1978
L-78-274

Office of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Reactor Vessel Atypical Weld Material

The following information is provided in response to your letter of August 14, 1978:

On August 11, 1978, Westinghouse Electric Corporation informed Florida Power & Light Company (FPL) that they were evaluating the consequences of the possibility of extraneous weld material being present in the Turkey Point Unit 4 reactor vessel nozzle-belt to shell circle seam weld. Westinghouse reported that this material could have an estimated initial RT_{NDT} of $125^{\circ}F$, but would be located in a region where fluence is a factor of approximately 6-1/2 less than the limiting core region.

Since then, Westinghouse has met with the reactor vessel manufacturer to review the potential weld metal problem. Information was presented at the meeting to show that the extraneous weld material was not used in any Unit 3 reactor vessel welds and was not used in any Unit 4 reactor vessel welds other than possibly the nozzle-belt to shell circle seam weld. No information was presented to prove that the extraneous weld material was not used in the subject Unit 4 weld, therefore, for the purpose of evaluating the effect of radiation on that weld, it was assumed that the extraneous material was used. However, even with this conservative approach, the assumed presence of the extraneous weld material has no adverse safety consequences because the subject weld is located in a non-limiting region. Furthermore, Westinghouse has determined that if the extraneous weld material was used in the nozzle-belt to shell circle seam weld it would be in the outside diameter of the weld.

The Unit 4 heatup and cooldown curves in the Technical Specifications are based on an RT_{NDT} of $281^{\circ}F$ at the 1/4 thickness location and are applicable for up to 5 effective full power years of operation. The assumption that extraneous weld material exists in the reactor vessel nozzle-belt to shell circle seam weld has no effect on the use of these curves because the subject

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weld is located in a region where fluence is much less than in the limiting 1/4 thickness region and also because the extraneous material would be located in the outside diameter of the weld.

Based on the information presented above; the possible use of extraneous weld material in the Turkey Point Unit 4 reactor vessel nozzle-belt to shell circle seam weld does not require revised pressure/temperature limits. The existing Technical Specification heatup and cooldown curves are sufficient to provide the necessary reactor vessel integrity and to ensure continued safe operation of the facility. We will continue our discussions with Westinghouse in order to achieve final resolution of this issue.

Very truly yours,



Robert E. Uhrig
Vice President

REU/MAS/GG/cpc

cc: Mr. James P. O'Reilly, Region II
Robert Lowenstein, Esquire