

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8104070393 DOC. DATE: 81/04/01 NOTARIZED: NO DOCKET # 05000250
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C
 AUTH. NAME AUTHOR AFFILIATION
 PACE, P.L. Florida Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Region 2, Atlanta, Office of the Director

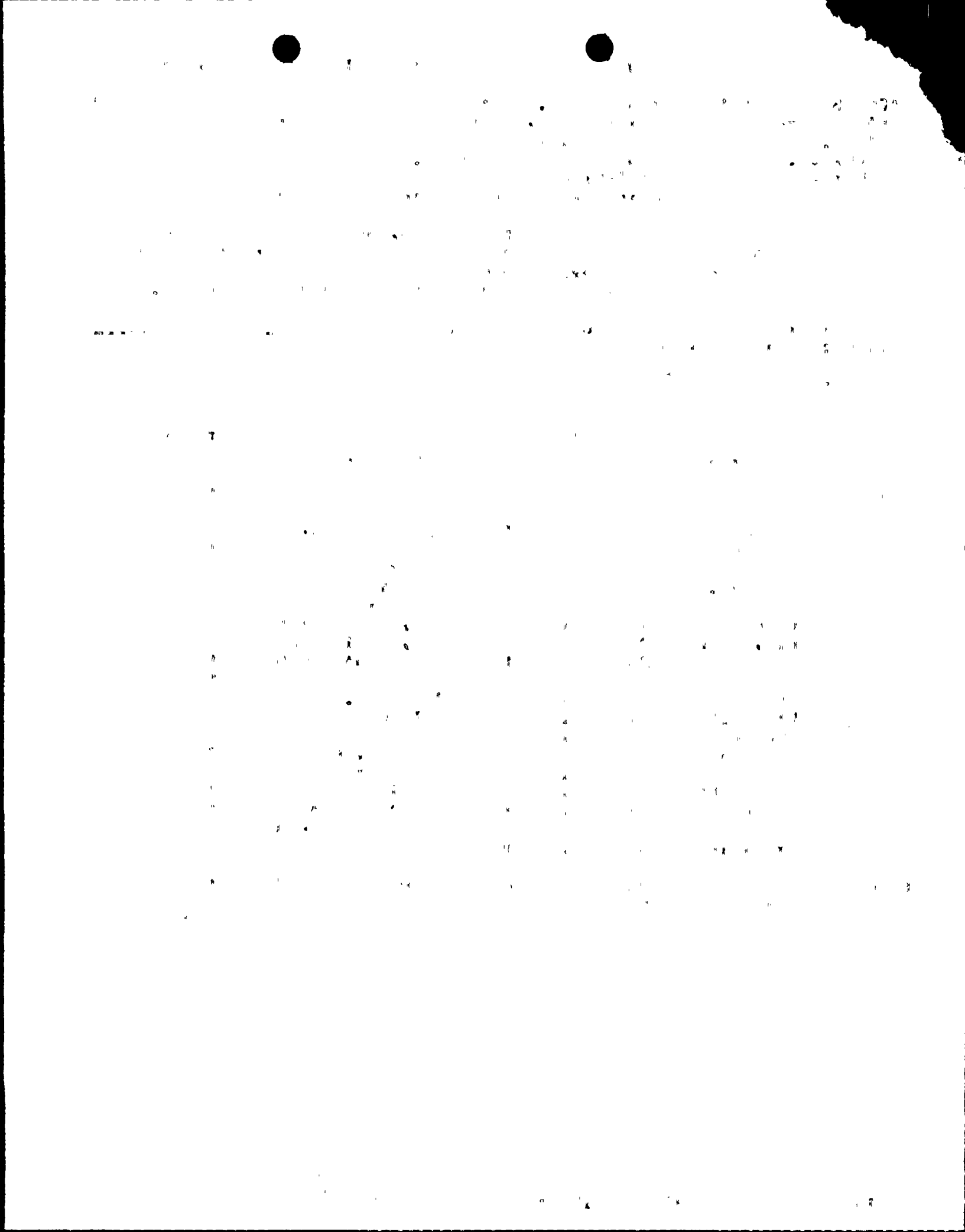
SUBJECT: Updated LER 79-039/03X-1: on 791203, foreign matl observed on "as found" 3B steam generator tubesheet photographs. Caused by piece of unalloyed plain carbon steel & steam generator tube plug skirt. Sys to monitor startup will be employed.

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 TITLE: Incident Reports

NOTES:

ACTION:	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	VARGA, S. 04	3 3		
INTERNAL:	A/D COMP&STRU06	1 1	A/D ENV TECH 07	1 1
	A/D MATL & QU08	1 1	A/D OP REACT009	1 1
	A/D PLANT SYS10	1 1	A/D RAD PROT 11	1 1
	A/D SFTY ASSE12	1 1	ACC EVAL BR 14	1 1
	AEOD	3 3	AEOD/DMU	3 3
	ASLBP/J. HARD	1 1	AUX SYS BR 15	1 1
	CHEM ENG BR 16	1 1	CONT SYS BR 17	1 1
	CORE PERF BR 18	1 1	DIR, ENGINEERI20	1 1
	DIR, HUM FAC S21	1 1	DIR, SYS INTEG22	1 1
	EFF TR SYS BR23	1 1	EQUIP QUAL BR25	1 1
	GEOSCIENCES 26	1 1	I&C SYS BR 29	1 1
	I&E 05	1 1	JORDAN, E./IE	1 1
	LIC GUID BR 30	1 1	MATL ENG BR 32	1 1
	MECH ENG BR 33	1 1	MPA	3 3
	NRC PDR 02	1 1	OP EX EVAL BR34	3 3
	OR ASSESS BR 35	1 1	POWER SYS BR 36	1 1
	RAD ASSESS BR39	1 1	REACT SYS BR 40	1 1
	REG FILE 01	1 1	REL & RISK A 41	1 1
	SFTY PROG EVA42	1 1	STRUCT ENG BR44	1 1
	SYS INTERAC B45	1 1		
EXTERNAL:	ACRS 46	16 16	LPDR 03	1 1
	NSIC 05	1 1		

APR 9 1981



NRC FORM 360
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 F L T P S 3 00 - 00 00 00 - 00 00 04 11 11 11 04 09
7 3 9 LICENSE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 38

CON'T
01 REPORT SOURCE L 05 00 00 25 07 12 03 7 19 03 04 10 11 81 09
7 3 9 DOCKET NUMBER 52 53 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
02 During refueling shutdown while conducting steam generator inspections,
03 foreign material was observed on the "as found" 3B steam generator
04 tubesheet photographs. Subsequent inspection by both licensee and NSSS
05 vendor personnel resulted in discovery and retrieval of additional foreign
06 material.
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SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE
09 C A 11 A 12 X 13 Z Z Z Z Z Z 14 Z 15 Z 16
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

17 LER/RO REPORT NUMBER 79 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

ACTION TAKEN FUTURE ACTION EFFECT ON PLANT SHUTDOWN METHOD HOURS ATTACHMENT SUBMITTED APPROX. FORM SUB. PRIME COMP. SUPPLIER COMPONENT MANUFACTURER
X 18 X 19 Z 20 Z 21 00 00 00 Y 23 N 24 Z 25 Z 26 99 99 27
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
10 Subsequent examination and evaluation determined the objects to be from a
11 single piece of unalloyed plain carbon steel and a steam generator tube
12 plug skirt. Visual examinations and planned use of a MIMS during startup
13 should provide assurance that all foreign material was retrieved. Current
14 programs/procedures should prevent recurrence of an event of this type.
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FACILITY STATUS % POWER OTHER STATUS (30) METHOD OF DISCOVERY DISCOVERY DESCRIPTION (32)
15 H 23 00 00 29 NA C 31 Steam generator inspection
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)
16 Z 33 Z 34 NA NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PERSONNEL EXPOSURES NUMBER TYPE DESCRIPTION (39)
17 00 00 37 Z 38 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PERSONNEL INJURIES NUMBER DESCRIPTION (41)
18 00 00 40 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

LOSS OF OR DAMAGE TO FACILITY TYPE DESCRIPTION (43)
19 Z 42 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

PUBLICITY ISSUED DESCRIPTION (45)
20 N 44 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

NRC USE ONLY
21 N 44 NA
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

NAME OF PREPARER P.L. Pace

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8104070 393

Additional Event Description and Probable Consequences:

During refueling shutdown while conducting steam generator inspections, foreign material was observed on the "as found" 3B steam generator tubesheet photographs. Subsequent inspection by both licensee and NSSS vendor personnel resulted in discovery and retrieval of the following:

- 3B S/G - Hot Leg
- 7 pieces of sheet metal type (approx. 16 gauge), ferromagnetic material
 - 1 apparent piece of tube plug skirt (ring), non-ferromagnetic
 - total weight of the above 8 pieces:
243 grams
 - 1 apparent piece of tube plug skirt, non-ferromagnetic material, was removed from R-8, C-12. (The material was retrieved from a point approx. 2 inches up from the primary face of the tubesheet.)
 - total weight of the above piece:
4.5 grams
- 3C S/G - Hot Leg
- 4 pieces of sheet metal type (approx. 16 gauge), ferromagnetic material
 - total weight of the above 4 pieces:
116 grams

During the March 1981 refueling shutdown, while conducting steam generator inspections, foreign material was observed and retrieved from the 3C steam generator.

- 3C S/G - Hot Leg
- 1 piece of sheet metal type, ferromagnetic material
 - total weight of the above piece:
255 grams

Additional Cause Description and Corrective Actions:

Independent laboratory analyses of a sample of the ferromagnetic material confirmed that the sample is an unalloyed plain carbon steel. Additionally, visual examination of the foreign material supports the conclusion that the objects were from separate sources. i.e., the ferromagnetic objects originated from the same base piece and that the non-ferromagnetic objects were part of a tube plug skirt.

Based on the fact that unalloyed carbon steel is not used within the reactor coolant system, an examination of equipment in proximity to the reactor vessel/refueling cavity was conducted. However, the source of the material could not be located. The logical conclusion is that the ferromagnetic material was introduced into the reactor coolant system during a previous refueling shutdown, steam generator inspection outage, or during construction. The source of the non-ferromagnetic material was confirmed to be a tube plug that expanded improperly during the plugging process.

Visual examination of the foreign material which was discovered during the March 1981 refueling outage supports the conclusion that it originated from the same base piece which was previously discovered. A Metal Impact Monitoring System

had been used to monitor startups following both the previous refueling shutdown and the steam generator inspection, however, no abnormalities were detected.

As inspection was performed by licensee and NSSS vendor personnel of the upper internals and of a 90° sector of the reactor vessel where RC piping connects to steam generator "C". No anomalies, i.e., damage or additional foreign material, were noted.

The steam generator inspection program augmented by a visual examination of both the steam generator primary side and the reactor vessel provides assurance that all foreign objects were retrieved from the reactor coolant system. However, we currently plan to employ a Metal Impact Monitoring System to monitor startup.

Current inspection, surveillance, and quality control programs/procedures should prevent recurrence of an event of this type.

