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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335
 AUTH. NAME AUTHOR AFFILIATION
 TURNER, S.E. Florida Power & Light Co.
 SAGER, D.A. Florida Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION

SUBJECT: LER 93-003-00: on 930331, 1B edg inadvertently started. Caused by personnel error. Personnel involved in event counseled about necessity of being careful when working in & around sensitive equipment. W/930419 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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AO-4
JLP



April 19, 1993

L-93-099
10 CFR 50.73

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

Re: St. Lucie Unit 1
Docket No. 50-335
Reportable Event: 93-003
Date of Event: March 31, 1993
Inadvertent Start of the 1B Diesel Generator
due to Personnel Error

The attached Licensee Event Report is being submitted pursuant to the requirements of 10 CFR 50.73 to provide notification of the subject event.

Very truly yours,

D. A. Sager
Vice President
St. Lucie Plant

DAS/JWH/kw

Attachment

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

DAS/PSL #898-93

230060
9304230121 930419
PDR ADOCK 05000335
S PDR
an FPL Group company

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.8 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT DIVISION (P-520), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) St. Lucie Unit 1	DOCKET NUMBER (2) 0510103351	PAGE (3) 1 OF 03
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TITLE (4) **Inadvertent Start of the 1B Emergency Diesel Generator due to Personnel Error.**

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
03	31	93	93	003	00	04	19	93	N/A	051010111
									N/A	051010111

OPERATING MODE (9) 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR : (Check one or more of the following) (11)				
POWER LEVEL (10) 0100	20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
	20.405(a)(1)(i)	50.36(c)(1)		50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)		50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text NRC Form 366A)
	20.405(a)(1)(iii)	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)		50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME S. E. Turner , Shift Technical Advisor	TELEPHONE NUMBER
	AREA CODE 407465 - 3550

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO					

ABSTRACT (Limit to 1400 spaces. i.e. approximately fifteen single-space typewritten lines) (16)

On March 31, 1993 , at 1311 hours with Unit 1 in Mode 5 for refueling, the 1B Emergency Diesel Generator (EDG) was inadvertently started. While plant maintenance personnel were installing test equipment to be used for the Integrated Safeguards Test one of the undervoltage relays located in the 1B EDG control panel was actuated, starting the 1B EDG. The 1B EDG operated as expected with no abnormal conditions observed. The 1B3 4160 VAC bus remained powered by the normal off-site source. After operators determined that the EDG had been inadvertently started the 1B EDG was secured.

The root cause of this event was personnel error. Utility personnel inadvertently bumped an undervoltage relay during the installation of test equipment for the Integrated Safeguards Test.

Corrective actions: An INPO Human Performance Enhancement System review (HPES) was performed on this event. The utility personnel were counseled. The procedure in use during this event was changed to add a precaution for installing test equipment.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION
REQUIRES: 15.2 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS
AND REPORTS MANAGEMENT BRANCH (P-336), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0154), OFFICE
OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) St. Lucie Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 3 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		9 3 --	0 0 3 --	0 0	0 2	OF 0 3	

TEXT (If more space is required, use additional NRC Form 366A's) (17)

DESCRIPTION OF THE EVENT

On March 31, 1993, at 1311 hours with Unit 1 in Mode 5 preparing for refueling, the 1B Emergency Diesel Generator (EDG)(E11S:EK) was inadvertently started. While utility maintenance personnel were installing test equipment to be used for the Integrated Safeguards Test one of the undervoltage relays located in the 1B EDG control panel was actuated by inadvertent bumping which started the 1B EDG. The 1B EDG came to rated speed and voltage with no abnormal conditions observed. After the control room operators determined that the EDG had been inadvertently started they stopped the 1B EDG and returned it to the normal standby status.

CAUSE OF THE EVENT

The root cause of this event was personnel error in the inadvertent operation of an undervoltage relay in the 1B Emergency Diesel Generator (EDG) control circuitry by utility maintenance personnel. The utility person bumped the undervoltage relay causing the relay to actuate starting the EDG. The utility maintenance personnel were checking installed test equipment in accordance with Maintenance Procedure 1-0950183, INTEGRATED SAFEGUARDS/ECCS TEST SUPPORT FOR 1B DIESEL GENERATOR. A contributing factor is that the installation of the test equipment is covered in the procedure; however, the specific steps for checking the test equipment were to be determined in the field. No precaution was in the procedure for those steps on the possibility of an inadvertent EDG start. No unusual characteristics of the work location contributed to the personnel error. There was no valid undervoltage condition present and no undervoltage logic was made up.

ANALYSIS OF THE EVENT

This event is reportable under 10CFR50.73(a)(2)(iv) as an event that resulted in the manual or automatic actuation of any Engineered Safety Feature.

The inadvertent starting of the 1B Emergency Diesel Generator had no adverse consequences on the plant because the 1B3 4160VAC bus remained energized and in service during this event, supplied by the normal off-site power supply source. During Mode 5, Technical Specifications require that only one EDG be in service. Both EDGs were in service at the time of this event.

Thus, the health and safety of the public were not at risk at any time during this event.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION
REQUIREMENT: 30 MINUTES. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS
AND REPORTS MANAGEMENT BRANCH (P-829), U.S. NUCLEAR REGULATORY COMMISSION,
WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE
OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) St. Lucie Unit 1	DOCKET NUMBER (2) 05000335	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		93	003	00	03	OF	03

TEXT (If more space is required, use additional NRC Form 366A's) (17)

CORRECTIVE ACTIONS

1. Operations secured the 1B Emergency Diesel Generator.
2. The procedures involved in this incident, MP 1-0950183 and MP 1-0950182, INTEGRATED SAFEGUARDS/ECCS TEST SUPPORT FOR THE 1B (1A) DIESEL GENERATOR, have been changed to preclude this event from reoccurring, by adding steps to require that the EDG be removed from service when checking the test equipment.
3. The utility personnel involved in this event were counseled about the necessity of being careful when working in and around sensitive equipment.
4. A Human Performance Evaluation System (HPES) review was performed on this event and its results agree with the cause of this event.
5. Unit 2 procedures MP 2-0950183 and MP 2-0950182 INTEGRATED SAFEGUARDS/ECCS TEST SUPPORT FOR THE 2B (2A) DIESEL GENERATOR, will be changed by Electrical Maintenance to preclude this event from occurring by adding steps to require that the EDG be removed from service when checking the test equipment.

ADDITIONAL INFORMATION

FAILED COMPONENT IDENTIFICATION

None

PREVIOUS SIMILAR EVENTS

- LER 335-86-007 "Personnel error results in automatic start of a Diesel Generator".
- LER 335-88-005 "Inadvertent start of the 1A Diesel Generator during trouble shooting due to personnel error".

