

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)
Virgil C. Summer Nuclear Station

DOCKET NUMBER (2)
0 5 0 0 0 3 9 4 1 OF 0 2

PAGE (3) 3

TITLE (4)
Reactor Trip - Intermediate Range High Flux

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)										
0	9	28	8	4	0	4	1	0	0	1	0	2	6	8	4	0	5	0	0	0	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

OPERATING MODE (9) 1	20.402(b)	20.405(c)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 1 0	20.405(a)(1)(i)	50.36(c)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)	<input type="checkbox"/>	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)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	
	20.405(a)(1)(v)	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME: A. R. Koon, Jr., Assoc. Mgr., Regulatory Compliance

TELEPHONE NUMBER: 8 0 3 3 4 5 - 5 2 0 9

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
A	IIG			N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

On September 28, 1984, at 2153 hours, the Reactor tripped from approximately 10% power. The Plant was in the process of a shutdown for refueling. The Intermediate Range (IR) High Flux Bistable did not reset on decreasing power. At 10% decreasing power, Nuclear Instrumentation automatically reinstated the IR High Flux trip. The 1 out of 2 IR logic was completed and initiated the Reactor trip. The event was due to operator error in that the IR bistable status was not verified before decreasing Reactor power below 10%. All Reactor protection systems functioned properly. The Licensee plans to discuss the event with the operators and evaluate the IR High Flux trip reset point.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Virgil C. Summer Nuclear Station	0 5 0 0 0 3 9 5	8 4	- 0 4 1	- 0 0	0 2	OF 0 2

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

On September 28, 1984, at 2153 hours, during a plant shutdown for a refueling outage, the Reactor tripped from approximately 10% power.

At 10% decreasing power, the Power Range (PR) Nuclear Instrumentation de-energized permissive P-10 which automatically unblocked the Intermediate Range (IR) High Flux Reactor trip. However, Nuclear Instrumentation (NI) Channel 35 (NI-35) was indicating above its high flux trip reset point. The 1 out of 2 IR trip logic was completed and initiated the Reactor trip. All Reactor protection systems functioned properly during the event. The plant remained shutdown for the refueling outage.

The trip has been attributed to operator error in that the operator failed to verify that the NI-35 CHAN I IR FLUX HI status light was de-energized prior to reducing power below 10% as required by operating procedures. In addition, the small band of 2.5% Reactor power between the reset of the IR High Flux Reactor trip and the de-energization of P-10, which reinstates the Reactor trip, is considered a contributing factor.

The Licensee is taking the following corrective actions:

- 1) Review applicable calibration procedure to determine if correlation between IR and PR instrumentation can be improved.
- 2) Evaluate the IR High Flux trip reset point to determine if the reset function can occur at a higher power level.
- 3) Review the incident with licensed personnel.

These actions will be completed prior to startup following this refueling outage.

SOUTH CAROLINA ELECTRIC & GAS COMPANY

POST OFFICE 764

COLUMBIA, SOUTH CAROLINA 29218

O. W. DIXON, JR.
VICE PRESIDENT
NUCLEAR OPERATIONS

October 26, 1984

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

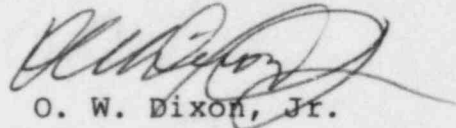
SUBJECT: Virgil C. Summer Nuclear Station
Docket No. 50/395
Operating License No. NPF-12
LER 84-041

Dear Sir:

Attached is Licensee Event Report #84-041 for the Virgil C. Summer Nuclear Station. This Report is submitted pursuant to the requirements of 10CFR50.73(a)(2)(iv).

Should there be any questions, please call us at your convenience.

Very truly yours,



O. W. Dixon, Jr.

HCF:OWD/lcd
Attachment

cc: V. C. Summer	J. F. Heilman
T. C. Nichols, Jr./O. W. Dixon, Jr.	C. L. Ligon (NSRC)
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