NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Virgil C. Summer Nuclear Station	0 5 0 0 0 3 9 5	1 OF 0 2

TITLE (4)
Inoperable Turbine Driven Emergency Feedwater Pump

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 5 0 0 0
0 9	0 8	8 5	8 5	0 2 6	0 0	1 0	0 7	8 5		0 5 0 0 0

OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
1		20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
1 0 0		20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	X 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)	Voluntary
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
A. R. Koon, Jr., Assoc. Mgr., Regulatory Compliance	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	
X	B A	F C V	F 1 2 7	Y							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	X NO				

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

On September 8, 1985 at 1640 hours during normal operations at 100% power, an operator noted the Turbine Driven Emergency Feedwater Pump (TDEFP) RPM indicator on the Main Control Board reading 250 RPM. During normal plant operations, the reading should be zero. The TDEFP was declared inoperable and troubleshooting commenced.

Investigation revealed turbine roll was caused by seat leakage past the Steam Supply Control valve. Repair of the valve, retest of the valve and TDEFP were completed on September 11, 1985 at 1025 hours.

The Licensee is submitting a voluntary report to document the inadvertent rolling of the TDEFP. The event is similar to a February 1985 event at Crystal River Unit #3.

IE-22

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Virgil C. Summer Nuclear Station	0 5 0 0 0 3 9 5	8 5	— 0 2 6	— 0 0	0 2 OF 0 2

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

On September 8, 1985 at 1640 hours during normal operations at 100% power, an operator noted the Turbine Driven Emergency Feedwater Pump (TDEFP) RPM indicator on the Main Control Board reading 250 RPM. The operator questioned this indication and declared the TDEFP inoperable because the TDEFP is normally in a "standby for auto-start" mode, and RPM should be zero. The problem was noted shortly after a transient on the instrument air system which caused air pressure to drop to approximately 70 pounds from a normal pressure of 110 pounds.

Operators initially assumed the instrument air transient caused the Steam Supply Control valve (IFV 2030-MS) to drift open, resulting in the turbine roll. Subsequent troubleshooting revealed that a steam cut in the seating surface of the valve body was the cause of turbine roll. An operational check of the backup air accumulator installed on the instrument air operator supply line verified that the steam supply control valve would remain shut during an instrument air transient. Repair of the valve and retest of the valve and pump were completed on September 11, 1985 at 1025 hours.

The failed steam supply control valve is a 4" Globe valve manufactured by the Fisher Controls Company, Model # 657 E.S.

Although the two Motor Driven Emergency Feedwater Pumps remained operable throughout this time period and Technical Specifications requirements were met, the Licensee is submitting a voluntary report to document the problem of inadvertent rolling of the Turbine Driven Emergency Feedwater Pump. This event is similar to a February 1985 event at Crystal River Unit #3.

SOUTH CAROLINA ELECTRIC & GAS COMPANY
POST OFFICE 764
COLUMBIA, SOUTH CAROLINA 29218

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

October 7, 1985

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 85-026

Dear Sir:

Attached is Licensee Event Report #85-026 for the Virgil C. Summer Nuclear Station. This is a voluntary report.

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

Very truly yours,

O. W. Dixon, Jr.

PDL/OWD:lcd
Attachment

cc: V. C. Summer
T. C. Nichols, Jr./O. W. Dixon, Jr.
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