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October 9, 2008

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

Dear Sir / Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION (VCSNS)
DOCKET NO. 50-395
OPERATING LICENSE NO. NPF-12
LICENSEE EVENT REPORT (LER 2008-004)
TECHNICAL SPECIFICATION VIOLATION DUE TO ALTERNATE AC INOPERABILITY

Attached is Licensee Event Report (LER) No. 2008-004, for the Virgil C. Summer Nuclear Station (VCSNS). This report describes the sequence of actions that led to a violation of Technical Specification LCO 3.8.1.1. This report is submitted in accordance with 10CFR50.73(a)(2)(i)(B).

Should you have any questions, please call Mr. Bruce Thompson at (803) 931-5042.

Very truly yours,

Jeffrey B. Archie

JW/JBA/sr
Attachment

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RTS (CR-08-02381/02477)
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DMS (RC-08-0128)

IE22
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NRC FORM 366 (9-2007) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 08/31/2010

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
Virgil C. Summer Nuclear Station	05000 395	1 OF 3

4. TITLE

Technical Specification Violation due to Alternate AC Unavailability

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
02	15	2007	2008	- 4 -	0	10	09	2008		05000
									FACILITY NAME	DOCKET NUMBER
										05000

9. OPERATING MODE

Mode 1

10. POWER LEVEL

100%

11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: *(Check all that apply)*

- ☐ 20.2201(b)
- ☐ 20.2201(d)
- ☐ 20.2203(a)(1)
- ☐ 20.2203(a)(2)(i)
- ☐ 20.2203(a)(2)(ii)
- ☐ 20.2203(a)(2)(iii)
- ☐ 20.2203(a)(2)(iv)
- ☐ 20.2203(a)(2)(v)
- ☐ 20.2203(a)(2)(vi)
- ☐ 20.2203(a)(3)(i)
- ☐ 20.2203(a)(3)(ii)
- ☐ 20.2203(a)(4)
- ☐ 50.36(c)(1)(i)(A)
- ☐ 50.36(c)(1)(ii)(A)
- ☐ 50.36(c)(2)
- ☐ 50.46(a)(3)(ii)
- ☐ 50.73(a)(2)(i)(A)
- ☑ 50.73(a)(2)(i)(B)
- ☐ 50.73(a)(2)(i)(C)
- ☐ 50.73(a)(2)(ii)(A)
- ☐ 50.73(a)(2)(ii)(B)
- ☐ 50.73(a)(2)(iii)
- ☐ 50.73(a)(2)(iv)(A)
- ☐ 50.73(a)(2)(v)(A)
- ☐ 50.73(a)(2)(v)(B)
- ☐ 50.73(a)(2)(v)(C)
- ☐ 50.73(a)(2)(v)(D)
- ☐ 50.73(a)(2)(vii)
- ☐ 50.73(a)(2)(viii)(A)
- ☐ 50.73(a)(2)(viii)(B)
- ☐ 50.73(a)(2)(ix)(A)
- ☐ 50.73(a)(2)(x)
- ☐ 73.71(a)(4)
- ☐ 73.71(a)(5)
- ☐ OTHER

Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME	TELEPHONE NUMBER *(Include Area Code)*
Virgil C. Summer Nuclear Station	(803) 931-5042

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

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX

14. SUPPLEMENTAL REPORT EXPECTED

◉ YES *(If yes, complete 15. EXPECTED SUBMISSION DATE)* ○ NO

15. EXPECTED SUBMISSION DATE

MONTH	DAY	YEAR
02	26	2009

ABSTRACT *(Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)*

On three occasions during Cycle 17, Virgil C. Summer Nuclear Station (VCSNS) extended Emergency Diesel Generator outages beyond 72 hours for maintenance by taking credit for the Alternate AC (AAC) power source as allowed by LCO 3.8.1.1 Action b.4. AAC testing during Refueling Outage 17 called into question the availability of AAC. On August 11, 2008 after a review of the past operability determination, it was determined that the AAC may not have been available during these periods. Therefore, VCSNS is reporting this Technical Specification violation in accordance with 10CFR50.73(a)(2)(i)(B).

This event is still under investigation. Upon completion of the root cause analysis, the cause and corrective actions will be identified in a supplement to this report. A revised report is projected to be submitted by February 26, 2009.

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
		YEAR	SEQUENTIAL NUMBER	REV NO.	
Virgil C. Summer Nuclear Station	05000 395	2008	- 004	- 00	2 OF 3

NARRATIVE

PLANT IDENTIFICATION

Westinghouse - Pressurized Water Reactor

EQUIPMENT IDENTIFICATION

XTF5052, Alternate AC Transformer

IDENTIFICATION OF EVENT

On three occasions during Cycle 17, Virgil C. Summer Nuclear Station (VCSNS) extended Emergency Diesel Generator outages beyond 72 hours for maintenance by taking credit for Alternate AC (AAC) as allowed by LCO 3.8.1.1 Action b.4. Surveillance testing during Refueling Outage 17 identified voltage regulation problems and an incorrectly installed reverse power relay which tripped the AAC supply breaker to the VCSNS vital buses. These test results called into question the availability of AAC, and a subsequent past operability determination led to the discovery, on August 11, 2008, that the AAC power source may not have been available during these periods.

EVENT DATES

2/15/2007, 3/01/2007, 3/27/2008

Condition Reports CR-08-02381 and CR-08-02477 were initiated to address this event.

REPORT DATE

10/09/2008

CONDITIONS PRIOR TO EVENT

Mode 1, 100% Power

DESCRIPTION OF EVENT

On three separate occasions VCSNS entered LCO 3.8.1.1 Action b.4. for Emergency Diesel Generator (EDG) outages:

EDG1A: 02/12 - 02/18/2007

EDG1B: 02/26 - 03/01/2007

EDG1B: 03/24 - 03/30/2008

In accordance with Technical Specification LCO 3.8.1.1, the EDG must be restored to operable status within 72 hours. However, the requirement for restoration of the EDG to operable status within 72 hours may be extended to 14 days if the AAC power source is or will be available within 1 hour. Since past availability of the AAC could not be assumed, VCSNS violated Technical Specification LCO 3.8.1.1 anytime an EDG was inoperable greater than 72 hours. Therefore, VCSNS violated Technical Specification LCO 3.8.1.1 on 2/15/2007, 3/01/2007, and 3/27/2008.

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
		YEAR	SEQUENTIAL NUMBER	REV NO.	
Virgil C. Summer Nuclear Station	05000 395	2008	- 004	- 00	3 OF 3

NARRATIVE

CAUSE OF EVENT

This event is still under investigation. Upon completion of the root cause analysis, the cause will be identified in a supplement to this report. A revised report is projected to be submitted by February 26, 2009.

ANALYSIS OF EVENT

The incorrectly installed reverse power relay called into question the past availabilty of the AAC. During the RF-17 testing the relay actuated and tripped the AAC supply breaker to VCSNS, when a load was being added to the AAC. Further investigation determined that the relay had been installed incorrectly. Even with the relay installed incorrectly, post modification testing and subsequent surveillance testing were successful.

Although the potential unavailability of the AAC resulted in a Technical Specification violation, a PRA evaluation determined that the safety significance was low (< 1E-6/yr).

CORRECTIVE ACTIONS

Two issues were identified with the AAC power sources: voltage regulation problems and an incorrectly installed reverse power relay. To address the voltage regulation issue an enhanced prejob brief and procedural guidance have been put in place for controlling the Parr hydro units when adding VCSNS loads to the AAC. The reverse power relay function has been interimly addressed by jumpering out this function.

This event is still under investigation. Upon completion of the root cause analysis, the corrective actions will be identified in a supplement to this report. A revised report is projected to be submitted by February 26, 2009.

PRIOR OCCURRENCES

There have been no other instances of Technical Specification violations related to AAC unavailability in the past three years.