

P21 93351

POWER REACTOR

EVENT NUMBER: 26076

SEVERITY: SUMMER  
UNIT: [1] [ ] [ ]  
RX TYPE: [1] W-3-LP

REGION: 2  
STATE: SC

NOTIFICATION DATE: 09/17/93  
NOTIFICATION TIME: 13:30 [ET]  
EVENT DATE: 09/17/93  
EVENT TIME: 00:00 [EDT]  
LAST UPDATE DATE: 09/17/93

NRC NOTIFIED BY: SKOLDS  
HQ OPS OFFICER: JACK LEWIS

NOTIFICATIONS

EMERGENCY CLASS: NOT APPLICABLE  
10 CFR SECTION:  
CDEG 21.21(c)(3)(i) DEFECTS/NONCOMPLIANCE

| UNIT | SCRAM CODE | RX CRIT | INIT PWR | INIT RX MODE    | CURR PWR | CURR RX MODE    |
|------|------------|---------|----------|-----------------|----------|-----------------|
| 1    | N          | Y       | 98       | POWER OPERATION | 98       | POWER OPERATION |

EVENT TEXT

WELLY CONTACT HOLDERS FOUND TO BECOME BRITTLE, CRACKED OR BROKEN SUCH THAT  
THEY WOULD HAVE BEEN UNABLE TO PERFORM THEIR FUNCTION.

INVESTIGATION FOUND THAT NON-STANDARD PACKAGING USED BY VITRO WAS THE ROOT  
CAUSE OF THE FAILURE.

*Joe Ginter will page 21*

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26076

13:30

9-17-93

Notification of 10CFR21 Defect

- i) Notification by:  
John L. Skolds  
Vice President, Nuclear Operations  
South Carolina Electric & Gas Company  
P.O. Box 88  
Jenkinsville, S.C. 29065
- ii) V. C. Summer Nuclear Station (VCSNS) Docket No. 50/395  
Model D26 Type M relays manufactured by Cutler-Hammer
- iii) Subject relays supplied by Vitro Corporation, formerly known as Automation Industries/Vitro Labs
- iv) Contact holders were found to have become brittle, cracked or broken such that they would have been unable to perform their function. Investigation found that non-standard packaging used by Vitro was the root cause of the failure. These relays were supplied in sealed airtight packaging. It was determined that the phenolic resin relay housings generate ammonia which, if concentrated, will attack the Laxan (polycarbonate) contact holders.
- v) The defect was initially found on March 23, 1993 as described in Interim Part 21 Report (SSH 930003) dated May 21, 1993 (RC-93-0130). The evaluation of reportability was completed on September 10, 1993.
- vi) The relay was supplied as a spare for the Vitro-supplied Emergency Diesel Generator Load Sequencer, but was stored such that it could have been used in other Class 1E applications.
- vii) All affected relays in storage have been rejected and will not be used in any in-plant applications. Three relays had been installed in the plant. Two of these have been replaced and the third is planned for replacement when an outage occurs.
- viii) It should be noted that standard packaging of these relays, as supplied through Cutler-Hammer, was found to not have this problem as they are not airtight and therefore allow the escape of off-gassing. Vitro normally does not supply these Cutler-Hammer relays. Vitro supplied cutler-Hammer relays in response to specifications from VCSNS.

Written notification will be provided within 30 days.