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April 19, 1982

US Nuclear Regulatory Commission
Region II
101 Marietta Street, NW
Suite 3100
Atlanta, Georgia 30303

Attn: G. P. Coryell, Fuel Facilities Inspector
Docket No. 50-332; License No. CPCSF-4
Subject: AGNS Event Report 50-332-82-5



Gentlemen:

During your recent inspection of our facility, the subject event report was discussed. It was agreed that AGNS would notify the Commission of the defect discovered as the cause of the event. The attached "Defect Notification Report" provides the details to enable the origination of an NRC Information Notice.

Sincerely,

J. A. Buckham
J. A. Buckham

JAB/MLR/wcc

Attachment

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PDR ADOCK 05000332
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DEFECT NOTIFICATION REPORT

Ref: AGNS Event Report No. 50-332-82-5: "Short and Damage to 70GM790B Breaker"

Description of Circumstances:

On February 24, 1982, Allied-General Nuclear Services' Separations Facility was conducting checkout operations requiring routine startup of the 76°F closed-loop cooling water system to leak check the 76°F closed-loop cooling water heat exchanger after completion of repairs. The system had been in operation approximately ten minutes when the coolant pump (Pump A) automatically shut down. When restart of Pump A failed, the operator elected to start Pump B, a redundant pump identical to Pump A. When 70GM790B circuit/starter was closed, the preliminary step to starting the pump, the anomaly occurred. Sparks, smoke, and a loud "bang" came from the breaker/starter panel. The breaker was immediately opened and no further attempts were made to operate either pump.

Corrective Action:

The Electrical Department Supervisor was summoned to investigate and determine if the breakers/starters were in a safe electrical configuration. Both breakers were locked open and danger tagged by operations personnel. Inspection of the Pump B breaker revealed that a metal tag normally affixed to the control power transformer by adhesive had separated from it and fallen across the phase conductors of the motorstarter, thus, providing the electrical fault.

Inspection of other identical breakers/starters revealed some with tags remaining affixed and some unaffixed and within the enclosure. The apparent cause of the metal tags coming off the cases was the deterioration of the adhesive and loss of its bonding qualities.

To preclude reoccurrence of this event, all existing transformer nomenclature plates were removed and fastened by mechanical means to the outside bottom of the enclosure.

Identification of Equipment/Components:

The following is a list of the Control Power Transformers (CPTs) that are in use at AGNS and had the nameplate problems.

1. Hevi-Duty Electric CPT, 50 VA (.050 KVA); H-D Type SZ0; 55°C Rise; 50/60 Hertz; Number D47649; Nelson I.D. #B961.102
2. Hevi-Duty Electric CPT; 150 VA (.150 KVA); H-D Type SZ0; 55°C Rise; 50/60 Hertz; Number D47646; Nelson I.D. #B961.104.10 (Specific Item: Equipment Number 70GM790B breaker/starter component)
3. Hevi-Duty Electric CPT; 500 VA (.500 KVA); H-D Type SZ0; 55°C Rise; 50/60 Hertz; Number D48321
4. Also found was a power panel transformer. The same type nameplate had fallen off:
Hevi-Duty Electric 3.0 KVA; H-D Type SZ0; 55°C Rise; 50/60 Hertz; Number 2435116T00; 480/240 to 240/120 Volts

The CPT 25 VA transformers used on size 5 starters do not have nameplates. The data is stenciled on them. The CPTs supplied in all breakers/starters in the motor control centers are components manufactured by Hevi-Duty Electric, a Division of Sola Basic Industries, Goldsboro, North Carolina.