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On October 3, 1985 while shutdowr, an inspection of the Drywell side of six General Electric Primary Containment electrical penetrations was conducted. The inspection was initiated as a result of previously identified electrical shorting between two conductors due to insulation damage in primary containment control and indication penetration X105C. The short had caused the trip of the "A" Reactor Recirculation Motor Generator Set on September 10, 1985. Subsequent investigation after plant shutdown identified that the short was due to insulation degradation in the penetration.

As a result of the inspection on October 3 it was determined in all of the inspected penetrations that the conductors were installed such that some were in contact with the sharp edge of the end of the Electrical penetration assembly sleeve. Contact with the steel sleeve could result in electrical shorts between conductors or from conductors to ground.

The inspections indicated that four of the six penetration types (control and indication, CR position indication, 480V power and neutron monitoring) were installed such that insulation damage to the conductors could result. Of the remaining types the thermocouple penetration is expected to have a similar installation configuration due to the large quantity of flexible conductors. The two 5KV power penetrations however, are not expected to be subject to the problem due to the size and stiffness of the conductors. There are a total of sixteen Primary Containment (Drywell) electrical penetrations.

Corrective action is expected to consist of additional penetration inspections and the installation of an edgeguard/insulating material in conjunction with insulation resistance testing and/or conductor inspection.

At this time, there are no known affected safety related cables and, therefore, no adverse consequences to the public health and safety. If any safety related system cables are affected, a supplemental LER will be submitted.

There have been no similar occurrences reported to the Commission.



## VERMONT YANKEE NUCLEAR POWER CORPORATION

P. O. BOX 157 GOVERNOR HUNT ROAD VERNON, VERMONT 05354

October 30, 1985

VYV85-471

U.S. Nuclear Regulatory Commission Document No. 50-271 Washington, D.C. 20555

REFERENCE: Operating License DPR-28 Docket No. 50-271 Reportable Occurrence No. LER 85-10

Dear Sirs:

As defined by 10CFR50.73, we are reporting the attached Reportable Occurrence as LER 85-10.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

Jamest P.

James P. Pelletier Plant Manager

HMM/drc

cc: Regional Administrator USNRC Office of Inspection and Enforcement Region I 631 Park Avenue King of Prussia, Pennsylvania 19406

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