



## *Powell Apparatus Service Division*

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A Division of Powell Electrical Mfg. Co.

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### **SERVICE ADVISORY**

SA007, Dec. 29, 1997

Powell Electrical Manufacturing Co. has identified an operating condition of medium voltage "High Resistance Grounding" units which require immediate attention.

The equipment affected by this advisory are Powell High Resistance Grounding units for 5 kV (2400V & 4160V) systems. These units were manufactured since January of 1997.

Powell changed the model of this resistor to a Cutler-Hammer manufactured unit. The ohmic value is correct, but the wattage rating is insufficient. These units will still limit ground fault current and operate as designed for detecting resistive ground faults. The power dissipation property is insufficient however, for continuous ground fault operation.

**Solid ground faults will cause an overheating condition. Pulsing solid ground faults, due to the higher current requirement, will rapidly accelerate the overheating. Under no circumstances should this unit be placed in "pulse" mode, as the heating will be excessive. Leave the unit in the "normal" position until the resistor is changed.**

The resistor can be replaced without a system outage. The system will however be required to operate without a resistive ground reference during the change out procedure. The change out can be conducted in about two hours. We have ordered replacement resistors for all of the affected units and plan to have them available, along with a change out procedure, by the end of February.

Please contact PASD for coordination of resistor shipment and replacement.

Sincerely,

A handwritten signature in cursive script that reads "Dennis R. Thonsgard".

DENNIS R. THONSGARD  
MANAGER - POWELL APPARATUS SERVICE DIVISION