



Surry Power Station, Units 1 & 2  
Docket No: 50-280  
Report No: 79-020/01T-0  
Event Date: 06-06-79

Degradation of Emergency Power Station Battery Charger Cable Insulation

1. Description of Event:

With both units at cold shutdown and the Unit 2 core off-loaded, abnormal degradation of internal power cable insulation was discovered on battery charger 2B2. The chargers are manufactured by C & D Battery. This event constitutes a condition reportable per Technical Specification 6.6.2.a.(9).

2. Probable Consequences and Status of Redundant Systems:

The degradation of the battery charger cable insulation led to failure of battery charger 2B2. With both units at cold shutdown, the battery chargers are not required. However, sufficient redundancy exists in the Emergency Power System such that a charger failure could not render the system inoperable. Therefore, the health and safety of the public were not affected.

3. Cause:

The manufacturer has been contacted in reference to the cable insulation deterioration. The manufacturer postulates that the cause of the deterioration was the high temperature environment to which the cable was subjected.

4. Immediate Corrective Action:

The immediate corrective action was to contact the manufacturer in an effort to discover the cause of the deterioration.

5. Subsequent Corrective Action:

The subsequent corrective action was to order new cable with an insulation designed to withstand higher temperatures than the old cable.

6. Future Corrective Action

The future corrective action will be to replace all affected cable.

7. Generic Implications

The degradation of this particular cable insulation could indicate a generic problem for similar installations and environments.