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To MRC Operations Center	From R.S. Frantz	
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Illinois Power Company
Clinton Power Station
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Walter G. MacFarland IV
Chief Nuclear Officer

**ILLINOIS
POWER**
An Illinova Company

U-602934
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4F.140

February 17, 1998

Docket No. 50-461

10CFR50.73
10CFR21.21

Document Control Desk
Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Clinton Power Station - Unit 1
Licensee Event Report No. 98-001-00 and
10CFR Part 21 Report No. 21-97-044/047

Dear Madam or Sir:

Enclosed is Licensee Event Report (LER) No. 98-001-00 and 10CFR, Part 21 Report No. 21-97-044/047: Failure of Division 2 Safety-Related Battery Charger Due to Deficient Supplier Soldered Connections. This report is being submitted in accordance with the requirements of 10CFR50.73 and 10 CFR, Part 21.

This Licensee Event Report contains the following commitments:

- The SCR firing circuit card terminal posts for the Division 2 battery charger were re-soldered to ensure the as-left connections were adequate. The soldering technique for field wiring to SCR firing circuit card terminal posts will be added to vendor manual K2989-0001.
- The battery charger deficiencies identified during this event were determined to potentially affect other safety-related equipment supplied by the same manufacturer, including the Divisions 1, 2, and 4 Nuclear Systems Protection System regulating bypass transformers (1RP01E, 1RP02E, 1RP04E), the Divisions 1, 2, and 3 regulating transformers (OIP54EB, OIP55EB, 1IP78E), and the A and B Reactor Protection System (RPS) bypass regulating transformer (1C71S005A, 1C71S005B). In addition two non-safety switchyard battery chargers and two non-safety balance of plant battery chargers were identified as potentially affected by these issues. IP will inspect and rework/repair, as necessary, this equipment.

IE23/1

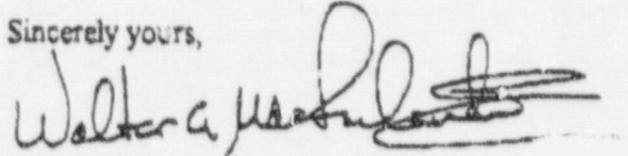
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- CPS is evaluating control and issuance of circuit cards.
- The Division 3 safety-related battery charger (1E22-S001E) was supplied by a different supplier and has not exhibited similar evidence of degradation; however, IP will perform an inspection of this charger for deficiencies similar to those found in the Division 2 battery charger.

Sincerely yours,



Walter G. MacFarland, IV
Chief Nuclear Officer

RSF/krk

Enclosure

cc: NRC Clinton Licensing Project Manager
NRC Resident Office, V-590
Regional Administrator, Region III, USNRC
Illinois Department of Nuclear Safety
INPO Records Center
Power Conversion Products, Inc.
Sargent & Lundy

GENERAL INFORMATION or OTHER

EVENT NUMBER: 33731

LICENSEE: CLINTON POWER STATION CITY: CLINTON COUNTY: LICENSE#: DOCKET: REGION: 3 STATE: IL AGREEMENT: Y	NOTIFICATION DATE: 02/17/98 NOTIFICATION TIME: 16:46 [ET] EVENT DATE: 01/16/98 EVENT TIME: 12:00 [CST] LAST UPDATE DATE: 02/17/98
	NOTIFICATIONS
	JIM MCCORMICKBARGER RDO VERN HODGE NRR
NRC NOTIFIED BY: R. FRANTZ HQ OPS OFFICER: DOUG WEAVER	
EMERGENCY CLASS: NOT APPLICABLE 10 CFR SECTION: CCCC 21.21 UNSPECIFIED PARAGRAPH	

EVENT TEXT

10 CFR PART 21 - DEFECTIVE SOLDERING IN A SAFETY-RELATED BATTERY CHARGER

THE BASIC COMPONENTS INVOLVED ARE THE DIVISION 2 SAFETY-RELATED BATTERY CHARGER, MODEL 3SC-130-300, AND THE HIGH VOLTAGE CIRCUIT CARD, MODEL DSHV120T2-01. THESE COMPONENTS WERE SUPPLIED TO CLINTON POWER STATION BY POWER CONVERSION PRODUCTS.

THE LICENSEE HAS IDENTIFIED INADEQUATE SOLDERED CONNECTIONS THROUGHOUT THE DIVISION 2 BATTERY CHARGER. IT WAS ALSO NOTED THAT THE TIME DELAY FOR THE INSTALLED DSHV CIRCUIT CARD WAS APPROXIMATELY 16 SECONDS, THE TIME DELAY FOR THE REPLACEMENT CIRCUIT CARD WAS 6 SECONDS, AND THE PURCHASE SPECIFICATION REQUIRED A 30-SECOND TIME DELAY.