

August 20, 1984
(NMP2L 0134)

Mr. R. W. Starostecki, Director
U.S. Nuclear Regulatory Commission
Region I
Division of Project and Resident Programs
631 Park Avenue
King of Prussia, PA 19406

Re: Nine Mile Point Unit 2
Docket No. 50-410

Dear Mr. Starostecki:

Enclosed is a final report in accordance with 10CFR50.55(e) for the problem concerning motor control centers' wiring deficiencies. This problem was reported via telecon to your staff on July 19, 1984

Very truly yours, -

C. V. Mangan

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

AFZ:ja
Enclosure
xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Project File (2)

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NIAGARA MOHAWK POWER CORPORATON
NINE MILE POINT UNIT 2
DOCKET NO. 50-410

Interim Report for the Problem
Concerning Gould Motor Control Center (MCC)
(55(e)-84-25)

Description of the Problem

Deficiencies have been identified in QA Category I Motor Control Center wiring due to poor workmanship. Specifically, the following deficiencies have been found:

1. Insufficient wire projection in terminal lugs.
2. Broken or nicked strands of wire.
3. Insufficient wire lengths causing stress at wire/terminal lug interface points.
4. Wiring not securely clamped.

The specific equipment affected are:

2EHS*MCC101
2EHS*MCC102
2EHS*MCC103

2EHS*MCC301
2EHS*MCC302
2EHS*MCC303

2DMS*MCCA1
2DMS*MCCB1

Analysis of Safety Implications

The above-stated deficiencies could represent potential problems during a design basis event such as:

1. Wire could pull out of lug resulting in control circuit discontinuity.
2. Lug and/or wire could fatigue and break.
3. Wire could catch on an object and break the wire or lug.

These wiring deficiencies could have prevented the Motor Control Centers from performing their design function, thus resulting in loss of power and/or controls of safety-related systems (e.g., service water system, standby liquid control, main steam system, reactor water cleanup and residual heat removal). Therefore, the problem were to remain uncorrected, it could have adversely affected the safe operation of the plant.

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Corrective Action

The following corrective action will be taken:

1. Insufficient wire projection: Construction shall cut off the old termination and reterminate the wire using PIDG lugs in accordance with the manufacturer's recommendation. Cable ties may be cut as required to provide sufficient slack. Wire shall be reconnected and supported as required.
2. Broken or nicked strands of wire: Construction shall remove the existing lugs up to the point of the broken strand. The wire shall be reterminated using "AMP" PIDG lugs in accordance with the manufacturer's recommendations.
3. Insufficient wire lengths: If sufficient wire is not available to provide enough slack to eliminate the stress points after all ties have been cut, Construction shall use wire supplied by the vendor as a replacement part. The old wire shall be removed and the required length of new wire shall be cut, terminated with "AMP" PIDG lugs in accordance with the manufacturer's recommendation and tied and clamped as outlined in Item 4 below.
4. Wiring not securely clamped: Construction shall install cable ties and T&B adhesive mounting bases (Tefzel brand) according to the manufacturer's recommendations. Mounting bases shall be applied at maximum 18-in. intervals. Where overall wire length is less than 36 in. but greater than 18 in., a mounting base shall be installed in the approximate center of the routing.

The corrective action will be completed by December 31, 1984.