

March 18, 1986

Docket No. 50-410

DISTRIBUTION

Central File
BWD-3 R/F
MHaughey
WHylton
RBernero
JMauck
Srinivasan

MEMORANDUM FOR: S. Collins, Chief
Projects Branch No. 1
Division of Reactor Projects-Region I

FROM: E. Adensam, Director
BWR Project Directorate No. 3
Division of BWR Licensing

SUBJECT: REGION I VERIFICATION OF NINE MILE POINT 2
SER COMMITMENTS

During the week of January 7, 1986, an Instrumentation and Control (I&C) Audit was performed by the NRR I&C technical reviewer for Nine Mile Point 2 (NMP-2), Jerry Mauck, and his consultant from EG&G, Art Nolan. During that audit they identified specific areas of concern for which followup actions are required. These items are identified in the enclosure to this memorandum.

Your assistance in reviewing these issues is requested to ensure this equipment has been installed correctly. Please document verification of these items by return memorandum when your review is completed.

Elinor G. Adensam, Director
BWR Project Directorate No. 3
Division of BWR Licensing

Enclosure:
As stated

Certified By Angela Henry

M Haughey
BWD-3/DBL
MHaughey:mn
03/14/86

LA
LA: BWD-3/DBL
EHLon
03/17/86

E Adensam
D: BWD-3/DBL
EAdensam
03/18/86

8603250053 860318
CF ADDCK 05000410
CF

ENCLOSURE

EICSB TRIP REPORT
SITE VISIT - NINE MILE POINT UNIT 2
JANUARY 7, 8, & 9, 1986

INTRODUCTION AND SUMMARY

On January 7, 8, & 9, 1986, the Electrical, Instrumentation and Control Systems Branch (EICSB) conducted a site visit at the Nine Mile Point Nuclear Station - Unit 2. The primary purpose of the site visit was to verify that the installation of electrical instrumentation and control equipment conformed to applicable design criteria regarding physical separation between redundant safety related circuits, and between safety related and non-safety related circuits (see Section 7.1.^{4.5} of the Nine Mile Unit 2 SER, NUREG-1047). In addition, the Nine Mile Unit 2 design was reviewed to verify that the actual installation of instrumentation and control systems was consistent with the staff's understanding of the design based on the review of electrical schematic/elementary diagrams and Chapter 7 (Instrumentation & Controls) of the FSAR. Additional areas of review included control room indication and annunciation, remote shutdown panels, instrument sensing lines, instrument racks, and capability for testing.

The detailed results of the EICSB site visit are provided in the "Findings and Conclusions" section below. Each agenda item is listed in order, followed by a discussion of the design installation, based on observations made by the staff. Applicable sections of the Nine Mile Unit 2 SER are referenced where appropriate. In general, the physical arrangement and installation of electrical, instrumentation, and control equipment appeared to be in accordance with the applicable design criteria. However, specific concerns along with

their potential resolution, were identified by the staff. We believe that followup actions should be pursued by Region I personnel.

Therefore, the EICSB will request the Nine Mile Unit 2 Resident Inspectors' office to take followup actions for the items listed below. The specific sections of this report which address each of these items is given in parentheses.

1. Verify that wiring modifications are performed such that acceptable separation (6 inches) is maintained between non-divisional and divisional cabling and between divisional and divisional cabling within the following panels:
 - (a) Panel 852 - non-divisional (black) to division 3 (purple) and division 1 (green 2FWS-W046)
 - (b) Panel 603 - non-divisional (black) to division 1 (green) and division 4 (blue) to division 1 (green)
 - (c) Panel 880A - non-divisional (black) to division 1 (green)
 - (d) Panel 880B - non-divisional (black) to division 1 (green)

(e) Panel 880C - non-divisional (black) to division 2 (yellow)

(f) Panel 880D - non-divisional (black) to division 2 (yellow)

(g) Panel 608B - division 3 (orange) to division 4 (blue)

(h) Panel 405 - non-divisional (black) to division 2 (yellow)

(i) Panel 602 - division 4 (blue) to division 1 (green)

2. Verify that RRCS divisional cabling within Panel 602 is separated such that there is one (1) inch separation between Channels A and B of Division 1 and between Channels A and D of Division 2.
3. Verify that all nomenclature associated with the RCIC System Trip units located in Panel P629 (LPCS/RHRA) is correct.
4. Verify that the conduit and cabling designations within the Remote Shutdown Panels (reactor building, elevation 261 feet) are correct.
5. Verify that the installation of the acoustic monitoring system, the scram discharge instrument volume (South) and the turbine first stage pressure transmitters (turbine building, elevation 220 feet) is completed.

6. Verify that the nomenclature utilized for the main steam line flow transmitter instrument racks (reactor building, elevation 215 feet) is consistent with the transmitter and steam line designations.

