

Mr. B. Ralph Sylvia
 Executive Vice President, Generation Business
 Group and Chief Nuclear Officer
 Niagara Mohawk Power Corporation
 Nuclear Learning Center
 450 Lake Road
 Oswego, NY 13126

March 11, 1997

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING VERIFICATION OF SEISMIC ADEQUACY OF MECHANICAL AND ELECTRICAL EQUIPMENT, NINE MILE POINT NUCLEAR STATION UNIT NO. 1 (TAC NO. M69461)

Dear Mr. Sylvia:

The NRC staff is reviewing your submittal of March 11, 1996, regarding the verification of seismic adequacy of mechanical and electrical equipment in operating reactors. We find that additional information regarding operator actions, as identified in the enclosure, is needed to complete this review.

Your response to the enclosure is requested within 45 days of receipt of this letter. If you have questions regarding the enclosure or are unable to meet the requested response date, please call me at (301) 415-3049, or e-mail me at dsh@nrc.gov.

Sincerely,
 ORIGINAL SIGNED BY:
 Darl S. Hood, Senior Project Manager
 Project Directorate I-1
 Division of Reactor Projects - I/II
 Office of Nuclear Reactor Regulation

Docket No. 50-220

Enclosure: Request for Additional Information

cc w/encl: See next page

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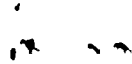
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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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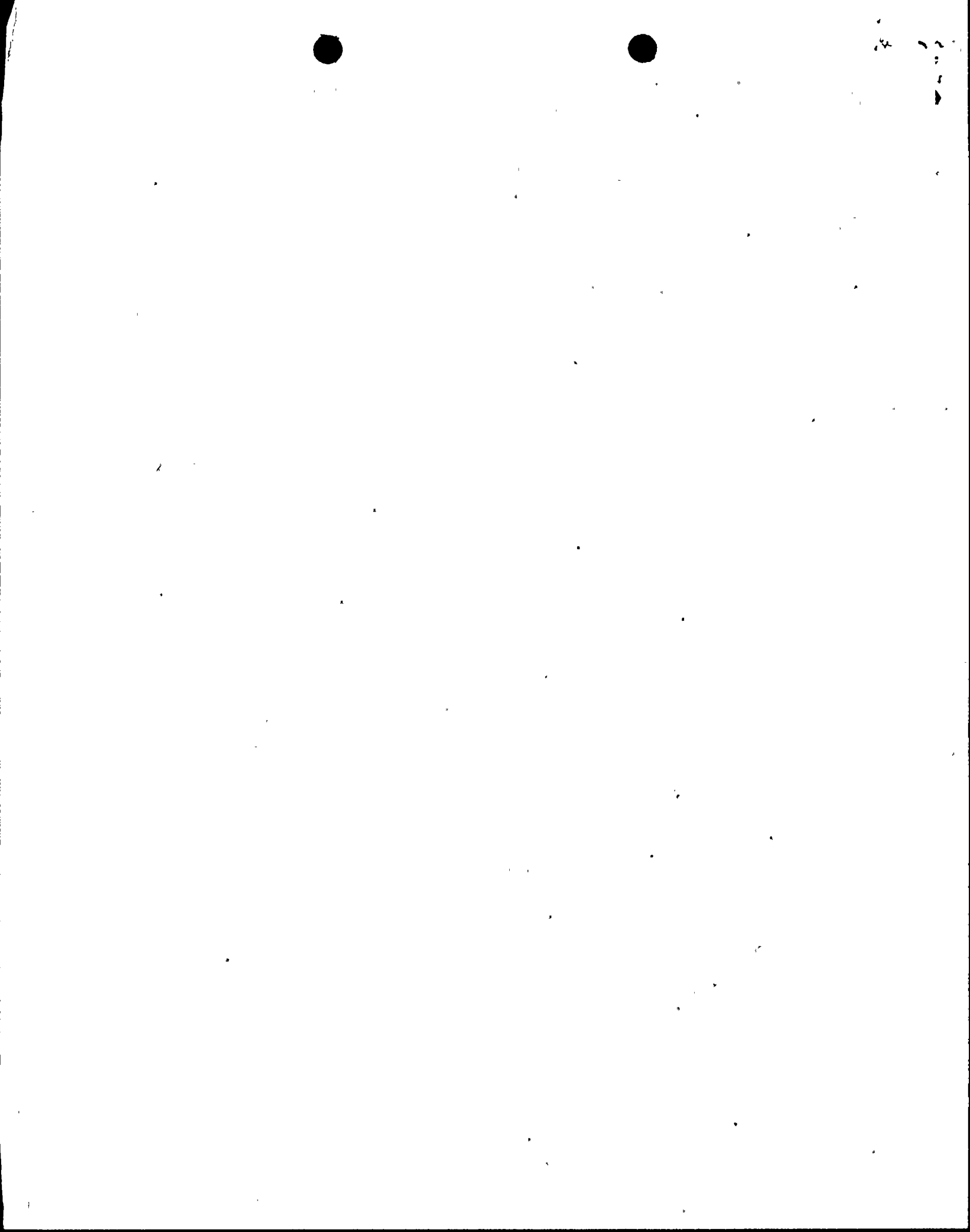
A handwritten signature in cursive script that reads "Darl S. Hood".

Darl S. Hood, Senior Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-220

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Information

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B. Ralph Sylvia
Niagara Mohawk Power Corporation

Nine Mile Point Nuclear Station
Unit No. 1

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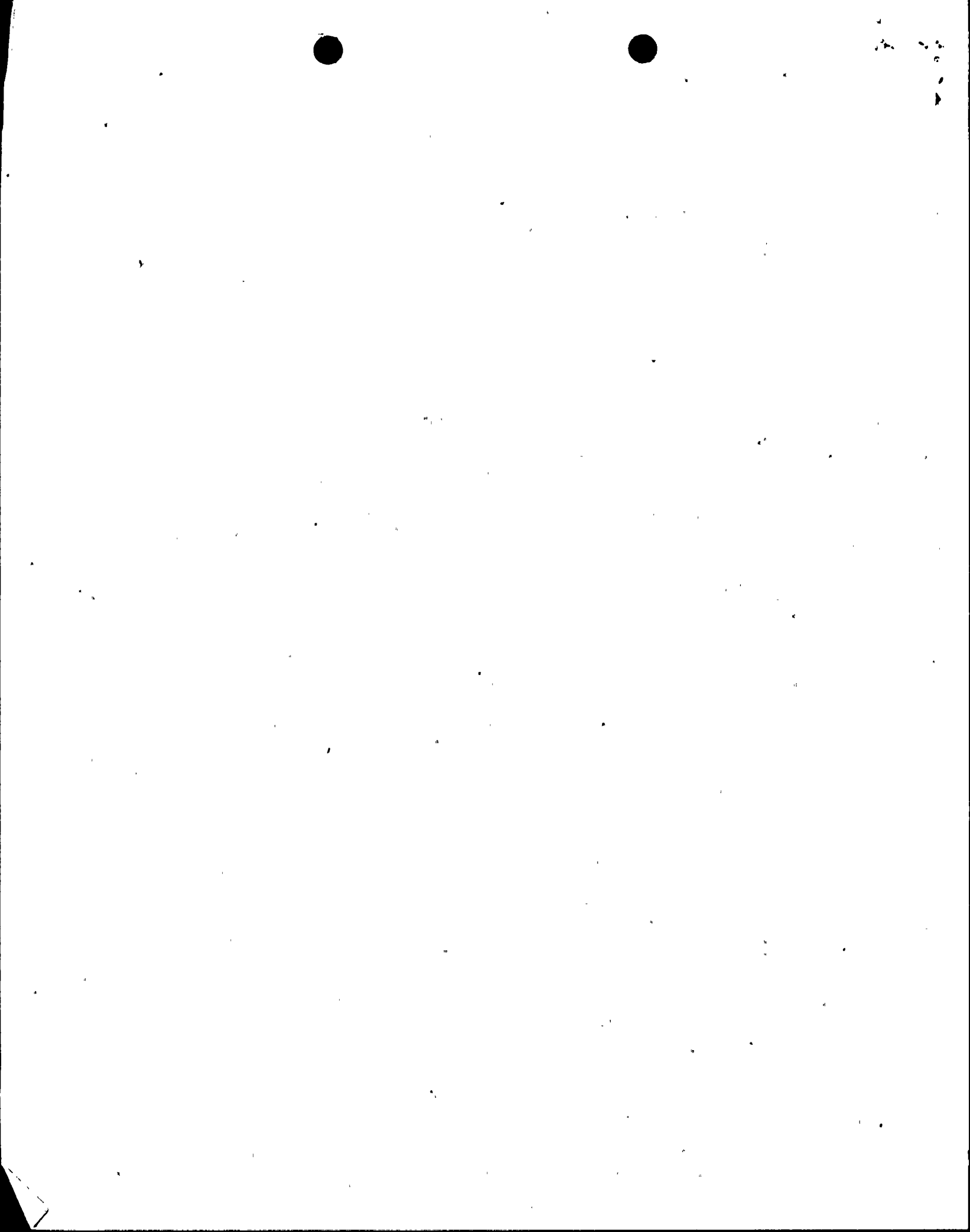
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Request For Additional Information

Regarding Verification of Seismic Adequacy of Mechanical

and Electrical Equipment in Operating Reactors

Nine Mile Point Nuclear Station Unit No. 1

Docket No. 50-220

Provide the following additional information regarding your letter of March 11, 1996, forwarding summary reports associated with the Unresolved Safety Issue (USI) A-46 program for Nine Mile Point Nuclear Station Unit No. 1:

- a. Section 4.2, "Operations Department Review of SSEL," of the Seismic Evaluation Report states that:

NMP-1 Operations Department has reviewed the Safe Shutdown Equipment List (SSEL) necessary to meet USI A-46 requirements. Comments made during the review process on shutdown systems and operating procedures credited with coping with a seismic event have been resolved and incorporated. Operations agrees that the four basic functions of reactivity control, pressure control, inventory control, and decay heat removal can be accomplished as described in this report.

Describe the process used by the Operations Department to review the SSEL and verify it was consistent with the A-46 requirements. Discuss changes made (if any) to your normal, abnormal, and emergency operating procedures as a result of your review effort.

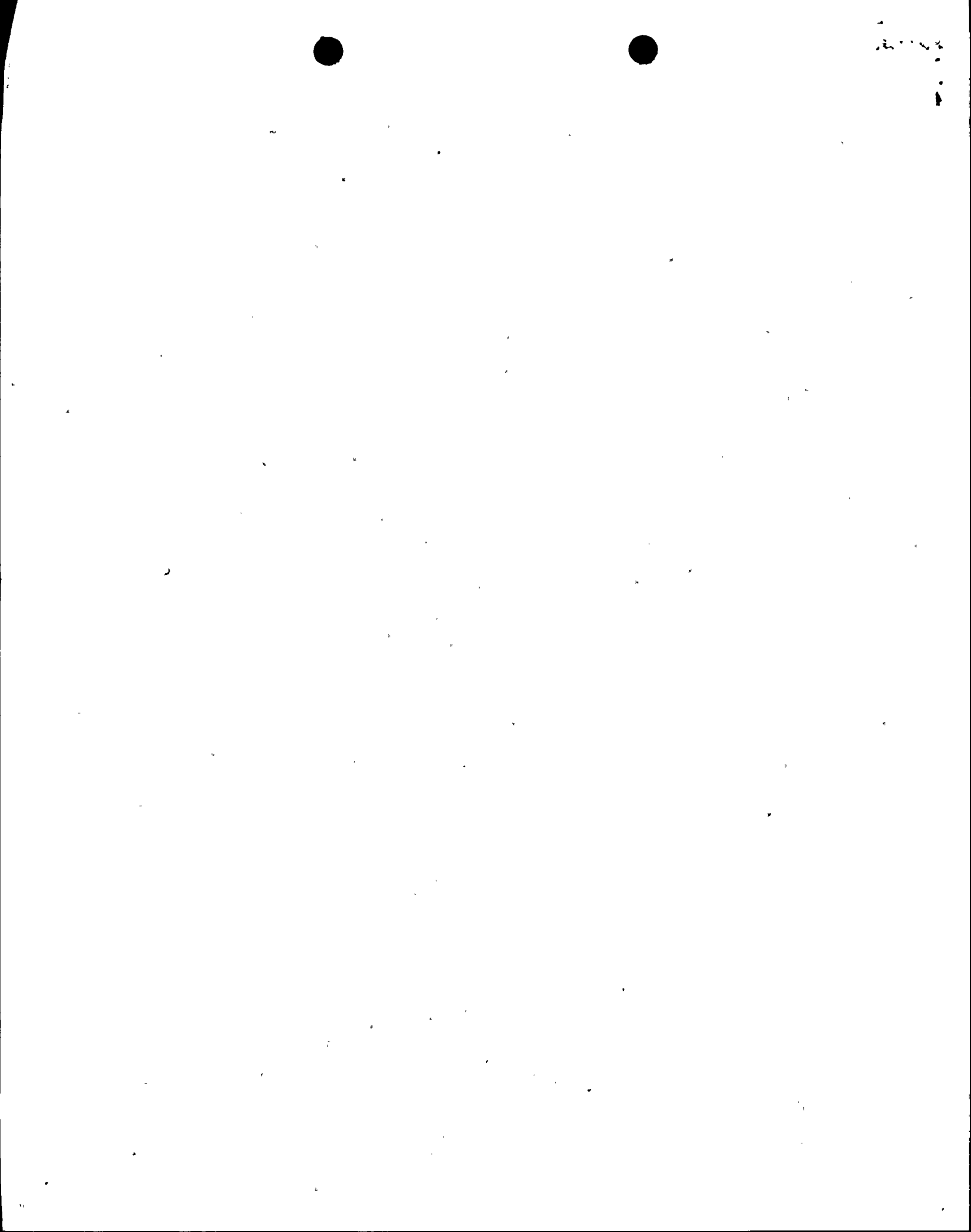
What, if any, simulator scenarios or walkdowns of local operator actions were performed to ensure that operators are able to place the plant in a safe shutdown condition following the postulated seismic event? Describe the reviews that were performed to determine if any local operator actions required to safely shutdown the reactor could be affected by potentially adverse environmental conditions (such as loss of lighting, excessive heat or humidity, or in-plant barriers) resulting from the design basis earthquake (DBE).

Describe the reviews that were conducted to ensure that operators have adequate time and resources to respond to such events.

- b. Section 10, "Third Party Audit Summary," of the Seismic Evaluation Report notes that a problem report was written to address the "tieg down of the control room ceiling tiles." Has this problem been resolved? If not, what is your current schedule for resolution?

Section 10 also indicated that the Control Room and Auxiliary Control Room panels are outliers. It appears from Table 5-3, "Equipment Outlier Description and Resolution Summary," that these panels will be modified to provide more substantial anchorage. Have these issues been resolved? If not, what is your current schedule for resolution?

Enclosure



- c. Section 2, "Summary of Results," of the Relay Evaluation Report for NMP-1, states in part:

22 contact or contact groups were screened on the basis that operator action could correct the adverse effects postulated due to seismic chatter. The operator action disposition for these devices affects eight SSEL equipment items. The operator actions and the timing for each were evaluated. The actions required are considered reasonable because the operators are provided with indications of the status of the affected components, the controls necessary to reset operator actions is available.

Operator actions are noted to involve the control room chillers, the pilot control valves for the control room chillers, and the 24VDC battery chargers. For each of these, describe the evaluations conducted to ensure that operator actions and timing of those actions are adequate to ensure safe shutdown of the plant. Also for each, describe the status indications and controls necessary to reset the equipment and the approximate time available for the operators to reset the equipment following the postulated seismic event. What training and exercises have been provided or planned to ensure that operators are capable of taking the required actions to reset this equipment within the available time?

Describe the review conducted to ensure that adverse environmental conditions (such as loss of lighting, excessive heat or humidity) or in-plant barriers postulated to exist following the DBE would prevent the local operator actions required to reset the 24VDC battery chargers.

- d. Are the operator actions associated with resetting the SSEL equipment affected by the postulated contact chatter considered to be routine and consistent with the skill of the craft? If not, what operator training and operational aids were developed to ensure the operators will perform the actions required to reset the affected equipment? Discuss specific changes to current practices affecting safe operator performance to include training, simulator scenarios and equipment restrictions such as resetting equipment switches, as necessary.

