

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: B6061B0092 DOC. DATE: 86/06/12 NOTARIZED: NO DOCKET #
 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
 AUTH. NAME AUTHOR AFFILIATION
 MANGAN, C. V. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Discusses emergency lighting in control room. Overhead emergency lighting sys uses non-Class 1E fixtures & dimmers. In event of failure of tubes or dimmers following seismic event, 8 h battery pack lighting operable. Diagram encl.

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NOTES:

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| | BWR FOB | 1 | BWR PD3 LA | 1 |
| | BWR PD3 PD | 1 | HAUGHEY, M 01 | 2 |
| | BWR PSB | 1 | BWR RSB | 1 |
| INTERNAL: | ACRS 41- | 6 | ADM/LFMB | 1 |
| | ELD/HDS3 | 1 | IE FILE | 1 |
| | IE/DEPER/EPB 36 | 1 | IE/DGAVT/GAB 21 | 1 |
| | NRR BWR ADTS | 1 | NRR PWR-B ADTS | 1 |
| | NRR ROE, M. L | 1 | NRR/DHFT/MTB | 1 |
| | <u>REG FILE</u> 04 | 1 | RGN1 | 3 |
| | RM/DDAMI/MIB | 1 | | |
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| | NRC PDR 02 | 1 | NSIC 05 | 1 |
| | PNL GRUEL, R | 1 | | |

June 12, 1986
(NMP2L 0746)

Ms. Elinor G. Adensam, Director
BWR Project Directorate No. 3
U.S. Nuclear Regulatory Commission
7920 Norfolk Avenue
Washington, DC 20555

Dear Ms. Adensam:

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

This letter addresses a concern raised by a Nuclear Regulatory Commission staff member pertaining to the emergency lighting in the Nine Mile Point Unit 2 Control Room. The overhead emergency fluorescent lighting system uses non-Class 1E fixtures and dimmers similar to those used in other nuclear power plants. Class 1E devices are not available. In the event of the failure of tubes or dimmers following a seismic event, the eight hour battery pack lighting would take over the Control Room lighting function. Before the battery pack lighting becomes inoperative, Niagara Mohawk could restore the emergency fluorescent lighting to meet or exceed the illumination levels specified in the Illumination Engineering Society Handbook as required in Standard Review Plan 9.5.3. The location of the dimmer panels is shown on the attached markup of the Final Safety Analysis Report Figure 1.2-15. The fluorescent light fixtures are located in the Control Room overhead.

Very truly yours,

C. V. Mangon
C. V. Mangon
Senior Vice President

EU:ja
1678G

xc: R. A. Gramm, NRC Resident Inspector
Project File (2)

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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 435

LECTURE 10

THE HARMONIC OSCILLATOR

1. Introduction

2. The Simple Harmonic Oscillator

3. The Quantum Harmonic Oscillator

4. The Anharmonic Oscillator

5. The Damped Harmonic Oscillator

6. The Driven Harmonic Oscillator

7. The Coupled Harmonic Oscillator

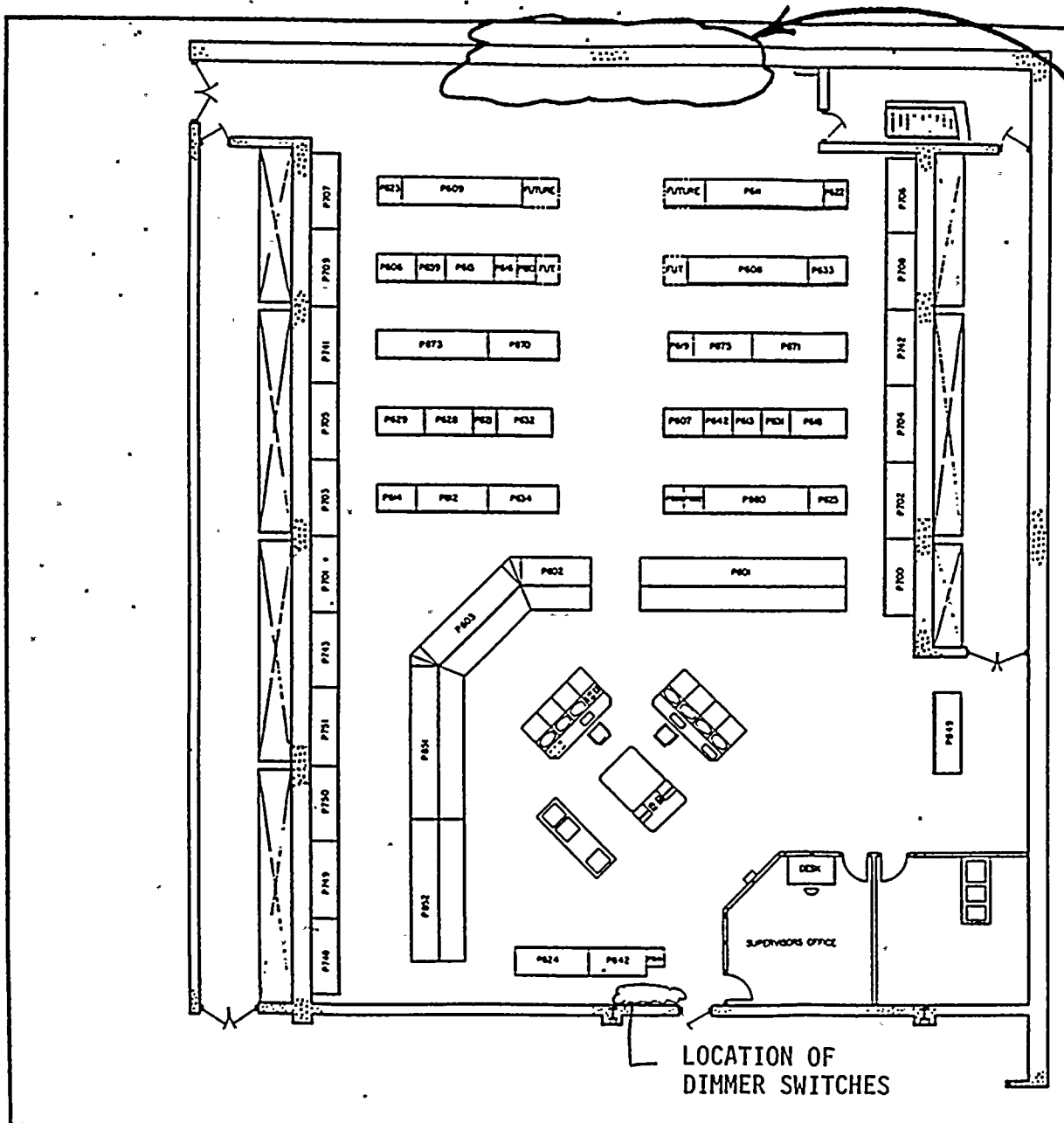
8. The Nonlinear Oscillator

9. The Chaotic Oscillator

10. The Stochastic Oscillator

11. The Quantum Harmonic Oscillator

12. The Quantum Harmonic Oscillator



LOCATION OF DIMMING SYSTEM
EQUIPMENT CABINETS (5)

LOCATION OF
DIMMER SWITCHES

FIGURE 1.2-15
GENERAL ARRANGEMENT
CONTROL ROOM PLAN
EL. 306'-0" SHEET 1 OF 3
NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT-UNIT 2
FINAL SAFETY ANALYSIS REPORT

