



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

ab

JAN 3 1986

Mr. Thomas C. Houghton, Associate
KMC, Inc.
801 18th Street, NW, Suite 300
Washington, DC 20006

IN RESPONSE REFER
TO FOIA-85-771

Dear Mr. Houghton:

This is in response to your letter dated November 21, 1985, in which you requested, pursuant to the Freedom of Information Act (FOIA), copies of certain Reactor Operator and Senior Reactor Operator license examination question and answer keys.

The documents are identified on the enclosed appendix and are being placed in the NRC Public Document Room (PDR) located at 1717 H Street, NW, Washington, DC 20555, in file folder FOIA-85-771 in your name.

Sincerely,

Donnie H. Grimsley

Donnie H. Grimsley, Director
Division of Rules and Records
Office of Administration

Enclosure: As stated

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PDR FOIA
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APPENDIX

Documents Being Placed in the PDR

1. 07/15/85 SRO Examination Question and Answer Key - Hatch 1 and 2.
(123 pages)
2. 07/15/85 RO Examination Question and Answer Key - Hatch 1 and 2.
(188 pages)
3. 08/05/85 RO Examination Question and Answer Key - Farley 1 and 2.
(144 pages)
4. 11/06/84 SRO Examination Question and Answer Key - Millstone I.
(31 pages)
5. 12/11/84 RO Examination Question and Answer Key - Millstone II.
(40 pages)
6. 12/11/84 SRO Examination Question and Answer Key - Millstone II.
(43 pages)
7. 06/25/85 RO Examination Question and Answer Key - Peach Bottom 2 and 3.
(33 pages)
8. 06/25/85 SRO Examination Question and Answer Key - Peach Bottom 2 and 3.
(32 pages)

September 9, 1985

RECEIVED

Georgia Power Company
ATTN: Mr. R. J. Kelly
Executive Vice President
P. O. Box 4545
Atlanta, GA 30302

Gentlemen:

SUBJECT: EDWIN I. HATCH EXAMINATION REPORT - 50-321/OL-85-02

The NRC administered examinations on July 15-17, 1985, to employees of your company who had applied for licenses to operate the Edwin I. Hatch Nuclear Plant. Additionally, the NRC administered requalification examinations to employees of your company who currently hold licenses to operate the Edwin I. Hatch Nuclear Plant. At the conclusion of the examinations, the examination questions and preliminary findings were discussed with those members of your staff identified in the Examination Report, Enclosure 1.

A table summarizing the examination results for each examined individual is provided as Enclosure 2.

Copies of the written replacement and requalification examination questions and answer keys are included in this report as Enclosures 3 and 4, respectively.

A Requalification Program Evaluation Report is included as Enclosure 5.

In accordance with 10 CFR 2.790(a), a copy of this letter and Enclosures 1, 3, and 4 will be placed in NRC's Public Document Room. Enclosures 2 and 5 are exempt from public disclosure pursuant to 10 CFR 2.790(a) and will not be sent to the Public Document Room.

Should you have any questions concerning this letter, please contact us.

Sincerely,

(Original signed by VLBrownlee)

Virgil L. Brownlee, Chief
Reactor Projects Branch 2
Division of Reactor Projects

Enclosures: (See page 2)

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G PDR

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September 9, 1985

Enclosures:

1. Examination Report 50-321/OL-85-02
2. Table of Examination Results
(Official Use Only - Privacy Act
Information)
3. SRO Exam Questions and Answer Key -
Replacement Exam
4. RO/SRO Exam Questions and Answer
Key - Requalification Exam
5. Requalification Program Evaluation
Report

cc w/encls. 1, 2 & 5:

J. J. Badgett, Corporate Training Manager
H. C. Nix, Site General Manager

cc w/encls. 1, 2, 3, 4 & 5:

C. T. Moore, Site Training Supervisor

bcc w/encls. 1, 2, 3, 4 & 5:
Senior Resident Inspector

bcc w/encl. 1:

Project Manager, NRR
State of Georgia
M. King, EG&G Idaho

bcc w/encls. 1, 3 & 4:

Operating Licensing Branch, DHFS, NRR
Document Control Desk

RII

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PRShw:bhg
8/29/85

RII

KB
KBrockman
8/29/85

RII

BAW
BAWilson
8/29/85

RII

CAJ
CAJulian
8/ /85
9/3/85

RII

VP
VPAciera
9/6/85

Yellow

September 16, 1985

Alabama Power Company
ATTN: Mr. R. P. McDonald
Senior Vice President
P. O. Box 2641
Birmingham, AL 35291

REC-117
85 OCT 10 PM 3:33

Gentlemen:

SUBJECT: FARLEY EXAMINATION REPORT - 50-348/OL-85-02

The NRC administered examinations on August 5 - 8, 1985, to employees of your company who had applied for licenses to operate the Farley Nuclear Plant. At the conclusion of the examinations, the examination questions and preliminary findings were discussed with those members of your staff identified in the Examination Report, Enclosure 1.

A table summarizing the examination results for each examined individual is provided as Enclosure 2.

Copies of the written examination questions and answer key are included in this report as Enclosure 3.

In accordance with 10 CFR 2.790(a), a copy of this letter and Enclosures 1 and 3 will be placed in NRC's Public Document Room. Enclosure 2 is exempt from public disclosure pursuant to 10 CFR 2.790(a) and will not be sent to the Public Document Room.

Should you have any questions concerning this letter, please contact us.

Sincerely,

(Original signed by SWeise)

David M. Verrelli, Chief
Reactor Projects Branch 1
Division of Reactor Projects

Enclosures:

1. Examination Report 50-348/OL-85-02
2. Table of Examination Results
(Official Use Only-Privacy Act
Information)
3. RO/SRO Exam Questions and Answer
Key

cc w/encls. 1 & 2:
J. D. Woodard, Plant Manager

cc w/encls. 1, 2, & 3:
L. Williams, Site Training Director

bcc w/encls: (See page 2)

8509270184 2pp.
PDR

11 IE42

Alabama Power Company

2

September 16, 1985

bcc w/encls. 1, 2, & 3:
Senior Resident Inspector

bcc w/encl. 1:
Project Manager, NRR
State of Alabama

bcc w/encls. 1 & 3:
Operator Licensing Branch, DHFS, NRR
Document Control Desk

RII
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WGDouglas
09/5/85

RII
BAW
BAWilson
09/10/85

RII
CY
CAJulian
09/12/85

RII
FC
FCantrell
09/13/85

FEB 6 1985

Docket No. 50-336

Northeast Nuclear Energy Company
ATTN: Mr. W. G. Council
Senior Vice President - Nuclear
Engineering and Operations Group
P. O. Box 270
Hartford, Connecticut 06141-0270

P

Gentlemen:

SUBJECT: EXAMINATION REPORT NO. 50-336/84-27(OL)

This transmits the Examination Report of Operator Licensing Examinations conducted by USNRC Region I at the Millstone 2 Facility the week of December 10, 1984. At the exit interview held on December 13, 1984 the preliminary results of these examinations were discussed.

No reply to this letter is required. Your cooperation in this matter is appreciated.

Sincerely,

~~Signature~~ signed by:
Edward C. Wenzinger, Chief
Projects Branch No. 3
Division of Reactor Projects

Enclosure:
Examination Report No. 50-336/84-27(OL)
Attachment: Written Examination(s) and Answer(S) Key (SRO/RO)

cc: w/enclosures
Plant Superintendent
Plant Training Manager
Senior Resident Inspector
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
State of Connecticut

8502250633 2pp 10206
PDR 05000336
Q PDR

OFFICIAL RECORD COPY

MILLSTONE EXAM TRIP - 0001.0.0
09/21/84
1E47

bcc: w/o Attachment to Enclosure
DRP Section Chief
Examiner
D. Beckham, OLB/DHFS, NRR
OL File 2.0
Region I Docket Room (w/concurrences)
Master Exam File
D. Weiss, LFMB
B. Gore, PNL

RI:DRP
Dudley/djh

1/23/85
4/8

RI:DRP
Keller
1/24/85

RI:DRP
McCabe
1/24/85

RI:DRP
Kister
1/30/85

RI:DRP
Wenzinger
2/5/85

U. S. NUCLEAR REGULATORY COMMISSION REGION I
OPERATOR LICENSING EXAMINATION REPORT

EXAMINATION REPORT NO. 84-27(OL)

FACILITY DOCKET NO. 50-336

FACILITY LICENSE NO. DPR-65

LICENSEE: Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06141-0270

FACILITY: Millstone 2

EXAMINATION DATES: December 10-13, 1984

CHIEF EXAMINER:

W. J. Dudley
Noel Dudley
Lead Reactor Engineer (Examiner)

JAN 21 1985
Date

REVIEWED BY:

W. J. Dudley
Chief, Project Section 1C

JAN 21 1985
Date

APPROVED BY:

W. J. Dudley
Chief, Project Branch No. 1

FEB 5 1985
Date

SUMMARY: Twelve candidates were examined and seven RO and five SRO licenses were issued.

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REPORT DETAILSTYPE OF EXAMS: Initial ____ Replacement X Requalification ____

EXAM RESULTS:

	RO Pass/Fail	SRO Pass/Fail	Inst. Cert Pass/Fail	Fuel Handler Pass/Fail
Written Exam	7/0	5/0	/	/
Oral Exam	7/0	5/0	/	/
Simulator Exam	/	/	/	/
Overall	7/0	5/0	/	/

1. CHIEF EXAMINER AT SITE: N. Dudley

2. OTHER EXAMINERS: J. Upton, PNL
J. Boegel, PNL
J. Smith, PNL

3. PERSONS EXAMINEDRO

J. M. Bergin
G. A. Beskop
C. D. Hackman
J. S. Kunze
J. W. Riley
W. H. Seifert
C. L. Zorn

SRO

J. D. Becker
D. A. Ekeren
J. J. Parillo
K. Truesdale
J. A. Sloan

1. Summary of generic strengths or deficiencies noted from grading of written exams:

Weaknesses were found in a majority of candidates in the following areas:

1. Reasons for programming pressurizer level in terms of design.
 2. Type of detectors used on radiation monitoring systems.
 3. The requirement for bypassing pressurizer high pressure trip on failure of pressurizer pressure instrument.
 4. Reasons for procedural cautions in the CVCS and quench tank operating procedures.
 5. The use of the EPIP in determining the types of notifications required.
2. Improvements noted in training programs as a result of prior operator licensing examinations/suggestions, etc:
- The facility has greatly improved the quality of candidates sitting for licensing examinations as demonstrated by the improved pass rate.
- The issuance of badges to examiners expedited the operational examinations.

3. Personnel Present at Exit Interview:

NRC Personnel

N. Dudley, Lead Reactor Engineer (Examiner)
T. Shedlosky, Senior Resident Inspector

Facility Personnel

R. Test, Director Nuclear Training
K. Parkinson, Training Supervisor
M. Wilson, Assistant Training Supervisor, Unit 2

4. Summary of NRC Comments made at exit interview:

The names of the persons who were clear passes on the oral portion of the examination will be provided to the training department by the NRC contract examiners upon completion of all oral examinations.

5. CHANGES MADE TO WRITTEN EXAM

<u>Question No.</u>	<u>Change</u>	<u>Reason</u>
1.08a	Change "inches" to "steps". Add "(Assume HFP Boron)".	Changes rod position indication units to be plant specific. Specifies boron concentration to eliminate requirement to interpolate on graph.
2.02 Answer	After "steam-generator water level will rise" add "then be returned to the set point by FWRCs." After "feed-water-flowrate will decrease." Add "(+0.2) since steam flow increases feed flowrate will eventually increase (0.3)."	Modify answer to incorporate the short term effect of swell and the long term effects of an increased steam flow.
2.06c Answer	Add "(RCP or letdown Cooling heat exchanger (300°F to 350°F))"	Provides alternate answer for temperature band when the shutdown heat exchanger is not aligned by procedure.
2.10 Answer	Change "56.2% and 58.7%" to "1080 cu.ft. and 1190 cu.ft."	Provides SIT tank level requirements in units used in Technical Specifications.
3.02 and 6.04	Change "inches" to "steps" and "Tref" to "Tave".	Changes rod position indications to be plant specific. Provides parameter which will change if electrical output is constant.
3.02b Answer	Change "turbine" to "cycle".	Corrects answer to reflect difference between changes in cycle and turbine efficiency when condenser vacuum is increased.
3.04	Change "H ₂ O" to "#2".	Corrects identification of Steam Generators.
3.04b Answer and 6.06b Answer	Add "SRAS".	The Sump Recirculation Actuation Signal will be activated on an RWST level of 8%; ESAS system description, page 6.
OFFICIAL RECORD COPY		MILLSTONE EXAM TRIP - 0009.0.0 09/21/84

<u>Question No.</u>	<u>Change</u>	<u>Reason</u>
3.05b Answer	Change "low reactor coolant flow" to "SG pressure".	Corrects answers from response for SG differential pressure instrument to proper response for SG pressure instrument.
3.05c Answer	Add "and TM/LP".	Includes TM/LP channel since it is tripped.
3.07 Answer and 6.09 Answer	Add "or mainfeed available"	Provides alternate answer in accordance with EOP 2537, Loss of ALL Feedwater.
4.01b Answer	Add "4. SG SBCS (+0.5) cooldown to <520°F and isolate (+0.5)".	Provides additional response for radioactive release from the steam side of the SG.
4.03a Answer	Add "change in MW".	Recognizes that electrical output will change with a change in condenser vacuum.
4.03b Answer	Add "8. Reduce load; 9. Verify proper operation of vacuum breakers".	Incorporates two additional actions contained in AOP 2574 Loss of Condenser Vacuum.
4.04d Answer	Change "3 MREM" to "1.25 rem".	Corrects exposure limit to value specified in 10 CFR 20.
5.02 Answer	Change "1326" to "1357" and "924" to "893".	Corrects math errors.
5.03	Change "inches" to "steps".	Changes rod position indication units to be plant specific.
6.04b Answer	Change to read "Increase (+0.5) because the reactor power had to increase due to decrease cycle efficiency (+0.5)."	Corrects answer to reflect difference between changes in cycle and turbine efficiency when condenser vacuum increases.
6.04d Answer	Add "or increase due to change in ASI caused by rod pull."	Provides alternate answer for effects of plant parameters on TM/LP pressure set point.

<u>Question No.</u>	<u>Change</u>	<u>Reason</u>
7.08a Answer	Add "4. SJAЕ [0.5] align to EBFAS and Unit 1 stack [0.5]; 5. Atmospheric Dumps [0.5] reduce Tave and isolate SG".	Provides additional responses for radioactive release from the steam side of the SG.
8.01	Change "Tank" to "Pool".	Provides plant specific nomenclature for clarity.
8.01 Answer	Change first sentence to "Intent Procedure change is initiated".	Provides procedure and nomenclature specific to facility.
8.02	Add "at 500 MREM/hr" after "air-monitor alarm".	Provides additional information needed to classify the event.
8.05a Answer	Delete last sentence.	Information not required by question.
8.09a&e Answer	Change "one hour" to "immediate".	Correct classification to correspond to EPIP 4701 Emergency Plan Implementation Procedure requirements.

Attachments:

1. Written Examination(s) and Answer Key(s) (SRO/RQ)
2. Facility comments

Docket No. 50-245

JAN 15 1985

Northeast Nuclear Energy Company
ATTN: Mr. W. G. Council
Senior Vice President - Nuclear
Engineering and Operations Group
P.O. Box 270
Hartford, Connecticut 06141-0270

Gentlemen:

SUBJECT: EXAMINATION REPORT NO. 50-245/84-22 (OL)

This transmits the Examination Report of Operator Licensing Examinations conducted by USNRC Region I at the Millstone I Facility the week of November 5, 1984. At the exit interview, held on November 8, 1984, the preliminary results of these examinations were discussed.

No reply to this letter is required. Your cooperation in this matter is appreciated.

Sincerely,

Original Signed By:

E. Wenzinger, Chief
Reactor Projects Section 1A
Projects Branch No. 1
Division of Project and Resident Programs

Enclosure:
Examination Report No. 50-245/84-22 (OL) w/attachments

cc: w/enclosures
Plant Superintendent
Plant Training Manager
Senior Resident Inspector
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
State of Connecticut

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Northeast Nuclear Energy Company 2

bcc: w/o enclosures
DPRP Section Chief
Examiner
D. Beckham, OLB/DHFS, NRR
OL File 12.0
Region I Docket Room (w/concurrences)
Master Exam File
D. Weiss, LMB

RI:DPRP **LB**
Banavitch/djh

~~12/1/84~~
12/1/85

RI:DPRP
Wentzinger
12/1/84

RI:DPRP
Berry
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12/1/84
1/4/85

RI:DPRP
Starostecki
12/1/84
1-14-85

RI:DPRP
Lange
12/1/84
1/4/85

RI:DPRP
Kerley
12/1/84
1/4/85

RI:DPRP
McCabe
12/1/84
1/4/85

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MILLSTONE 1 EXAM RPT - 0004.0.0
09/21/84

U. S. NUCLEAR REGULATORY COMMISSION REGION I
OPERATOR LICENSING EXAMINATION REPORT

EXAMINATION REPORT NO. 84-22

FACILITY DOCKET NO. 50-245

FACILITY LICENSE NO. DPR-21

LICENSEE: Northeast Nuclear Energy Company
P.O. Box 270
Hartford, Connecticut 06141-0270

FACILITY: Millstone I

EXAMINATION DATES: November 5-8, 1984

CHIEF EXAMINER: Original [Signature] JAN 4 1985
John Berry, Chief BWR Examiner Date

APPROVED BY: [Signature] JAN 4 1985
Chief, Project Section 1D Date

SUMMARY: The following report contains the results of the Operator Licensing Examinations administered at the Millstone I facility the week of November 5, 1984. Two Upgrade Senior Reactor Operator candidates were examined. Both candidates successfully completed the written and oral examinations administered.

An inspection of the Requalification Training Program was conducted by the examiners on November 7, 1984. The results of the inspection showed no significant deficiencies.

Several suggestions were made to improve the quality of annual exams and traceability of records. (See Exit Comments)

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MILLSTONE 1 EXAM RPT - 0005.0.0
09/21/84

REPORT DETAILS

TYPE OF EXAMS: Initial ____ Replacement X Requalification ____

EXAM RESULTS:

	RO Pass/Fail	SRO Pass/Fail	Inst. Cert Pass/Fail	Fuel Handler Pass/Fail
Written Exam	/	2/0	/	/
Oral Exam	/	2/0	/	/
Simulator Exam	/	/	/	/
Overall	/	2/0	/	/

1. CHIEF EXAMINER AT SITE: David Lange, US NRC, Region I
2. OTHER EXAMINERS: John Berry, US NRC, Region I
3. PERSONS EXAMINED

SRO (Upgrade)

Michael J. Bigiarelli
William R. McCollum

1. Summary of generic strengths or deficiencies noted on oral exams:
 - No generic deficiencies were noted during the oral exams.
 - A generic strength was noted in the area of Reactivity Control and Transient Analysis.
2. Summary of generic strengths or deficiencies noted from grading of written exams:

The written exam noted a generic weakness in Section Six (6), "Plant Systems Design, Control, and Instrumentation".
3. Comments on availability of, and candidate familiarization with plant reference material in the control room:
 - The control room reference material was readily available.
 - The candidates were sufficiently knowledgeable in using the proper procedures.
4. Comments on availability of, and candidate familiarization with design, procedure, and T. S. changes, and with LERs and recent significant events.
 - In general, the candidates used the Technical Specifications and procedures effectively.
 - One examiner noted that a few candidates were inadequately aware of recent, significant industry events.
5. Personnel Present at Exit Interview:

NRC Personnel

John Berry, Chief BWR Examiner, US NRC, Region I
 David Lange, BWR Examiner, US NRC, Region I
 Lynn Banavitch, Examiner Trainee, US NRC, Region I
 Frank Crescenzo, Examiner Trainee, US NRC, Region I
 John T. Shedlosky, Senior Resident Inspector, NRC

Facility Personnel

Neil G. Bergh, Unit I Operations Assistant
 Michael C. Jensen, Training Supervisor, MP U-1
 Charles S. Marschall, Senior Instructor - Operator MP U-1
 Ray Palmieri, MP1, Operations Supervisor
 Keith Parkinson, Supervisor Millstone Training Branch
 Ron Stotts, MP3 Training, NU

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MILLSTONE 1 EXAM RPT - 0006.0.0
 09/21/84

6. Summary of NRC Comments made at exit interview:

- A. The Chief Examiner noted that both (?) candidates clearly passed the oral examination.
- B. The plant was considered very clean and cooperation of the on-shift personnel in the control room was appreciated.
- C. The Requal Inspection conducted by the examiners on November 7, 1984 produced no significant deficiencies, however, the following suggestions were made.
 - Attendance sheets should be initialed by the class attendees at least once during the morning and afternoon sessions in order to verify attendance.
 - A requal examination composed entirely of multiple choice questions may not be as effective as one with a mixture of question types.
 - The filing system for the Requalification Program should be more organized and allow easy access to the information.
- D. The examiners urged the training staff not to hesitate in removing candidates that they feel are not ready to take the NRC Licensing Examinations.
- E. The examiners expressed the need for an established cutoff date for changes to procedures and other items included in the testable material. The candidates would not be responsible for any change produced after this date. This would provide consistency between the NRC written examinations and the candidates' study material.
- F. The examiners thanked the training staff for their cooperation, both during the examination period and the requal inspection.

7. Summary of facility comments and commitments made at exit interview:

- A. The Training Department submitted the written comments on the SRO Exam. All comments, with the exception of question 6.07 and 8.10, had been previously resolved during the exam review conducted on 11/06/84.
- B. The Millstone Unit 1 Training Department noted the use of Tech. Spec. scenario questions in Section 8 of the exam was a step in the positive direction for operationally oriented exam questions.
- C. The Training Department committed to address the problem with the cut off date for both exam material and candidate withdrawal.
- D. The Millstone Training Department thanked the NRC Examiners for their professionalism during the week.

8. CHANGES MADE TO WRITTEN EXAM DURING EXAMINATION REVIEW:

<u>Question No.</u>	<u>Change</u>	<u>Reason</u>
See the attachments addressing this topic.		

Attachments:

1. Written Examination(s) and Answer Key(s) (SRO/RO)
2. Facility Comments on Written Examinations made after Exam Review

AUG 22 1985

Docket Nos. 50-277
50-278

Philadelphia Electric Company
ATTN: Mr. S. L. Daltroff
Vice President
Electric Production
2301 Market Street
Philadelphia, Pennsylvania 19101

RECEIVED
'85 SEP 11 P4:14
PUBLI

Gentlemen:

Subject: Examination Report Nos. 50-277/85-22 (OL); 50-278/85-19 (OL)

This transmits the Examination Report of Operator Licensing Examinations conducted by USNRC Region I at the Peach Bottom Facility the week of June 25, 1985. At the exit interview held on June 27, 1985, the preliminary results of these examinations were discussed.

No reply to this letter is required. Your cooperation in this matter is appreciated.

Sincerely,

Original Sent By:

Samuel J. Collins, Chief
Projects Branch No. 2
Division of Reactor Projects

Enclosure: Examination Report Nos. 50-277/85-22 (OL); 50-278/85-19 (OL)

cc w/enclosures and attachments:
R. S. Fleischmann, Station Superintendent
Plant Training Manager
Senior Resident Inspector
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
Commonwealth of Pennsylvania

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PDR MULLH --- PDR
G

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cc w/enclosures w/o attachments:

John S. Kemper, Vice President, Engineering and Research

Troy B. Conner, Jr., Esquire

A. J. Pietrofitta, General Manager, Power Production Engineering, Atlantic Electric

Eugene J. Bradley, Esquire, Assistant General Counsel

Raymond L. Hovis, Esquire

Thomas Magette, Power Plant Siting, Nuclear Evaluations

bcc w/o attachment to enclosure:

DRP Section Chief

Examiner

Chief, OLB/DHFS, NRR

OL File 12.0

Region I Docket Room (w/concurrences)

Master Exam File

RI:DRP
DLange/mjd

8/19/85

RI:DRP
JBerry

8/19/85

RI:DRP
RKeller

8/19/85

RI:DRP
RGallo

8/19/85

RI:DRP
HKister

8/21/85

RI:DRP
SCollins

8/21/85

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U.S. NUCLEAR REGULATORY COMMISSION REGION I
OPERATOR LICENSING EXAMINATION REPORT

EXAMINATION REPORT NOS. 50-277/85-22 (OL); 50-278/85-19 (OL)

FACILITY DOCKET NOS. 50-277 and 50-278

FACILITY LICENSE NO. DPR-44 and DPR-56

LICENSEE: Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

FACILITY: Peach Bottom

EXAMINATION DATE: June 25, 1985 to June 27, 1985

CHIEF EXAMINER: Daniel J. Lange 8/19/85
D. Lange, Reactor Engineer Examiner Date

REVIEWED BY: J. A. Berry 8/19/85
J. A. Berry, Lead BWR Reactor Engineer Date
Examiner

REVIEWED BY: R. M. Kellner 8/19/85
R. M. Kellner, Chief, Projects Section 1C Date

APPROVED BY: H. B. Kister 8/21/85
H. B. Kister, Chief, Projects Branch Date
No. 1

SUMMARY: On June 25, 1985, three SRO and one RO written examinations were administered at the Peach Bottom Atomic Power Station. Oral examinations were administered to two SRO Instructor Certification and one SRO Upgrade candidates on June 26 and 27, 1985. All candidates passed both the written and oral examinations with no generic weaknesses noted.

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REPORT DETAILS

Exam Results:

	RO Pass/Fail	SRO Pass/Fail	Inst. Cert Pass/Fail
Written Exam	1/0	1/0	2/0
Oral Exam	/	1/0	2/0
Overall	1/0	1/0	2/0

1. Chief Examiner at Site: Dave Lange, USNRC, Region I
2. Other Examiners: Tony Mendiola, USNRC, HDQ, OLB

1. Overall, the SRO and RO candidates appeared to be well prepared for the written and oral examinations.

During the oral examinations, only one weakness was noted by the examiner in the area of procedures. The candidates had difficulty locating and differentiating between some of the plant protection and emergency procedures. This problem was addressed at the exit meeting.

All candidates were knowledgeable of existing plant conditions and equipment location.

2. Personnel Present at Exit Interview:

NRC Personnel

Dave Lange, Chief Examiner, USNRC, Region I
 Tony Mendiola, Reactor Engineer Examiner, OLB, HDQ
 Herb Williams, Resident Inspector, USNRC, Peach Bottom

Facility Personnel

Steve Roberts, Operations Engineer
 Bob Bulmer, Superintendent, Nuclear Training
 Dennis McClellan, Training Instructor, Nuclear Training

3. Summary of NRC Comments Made at Exit Interview:

- a. The Chief Examiner re-emphasized the candidates strengths and weaknesses noted during the oral examinations.
- b. Cooperation of the control room staff and the training department personnel was appreciated.
- c. Plant conditions were clean and security and Health Physics access control was good.
- d. A problem with the E-4 Diesel Generator security card reader was identified. In addition, the physical condition of the E-4 D/G door was poor. Facility personnel agreed to correct this problem.

4. Summary of Facility Comments and Commitments Made at Exit Interview:

The Superintendent of Nuclear Training commented on the relaxed atmosphere created by the examiners and felt that this increased the quality of the oral examinations.

Attachments:

1. Written Examination(s) and Answer Key(s) (SRO/RO)
2. Facility Comments on Written Examinations Made After Exam Review