ES-303 Operator License Examination Report Form ES-303-1

Ex. 6

| U.S. NUCLEAR REGULATORY COMMISSION OPERATOR LICENSE EXAMINATION REPORT | | | | |
|---|---|---|---|---|
| APPLICANT'S NAME [redacted] Ex. 6 | | | DOCKET NUMBER 55-9999 | |
| I | R | EXAMINATION TYPE (INITIAL OR RETAKE) | FACILITY NAME BFNP | |
| X | | REACTOR OPERATOR | X | HOT |
| | | SENIOR REACTOR OPERATOR (SRO) INSTANT | | COLD FACILITY |
| | | SRO UPGRADE | X | BWR DESCRIPTION |
| | | SRO LIMITED TO FUEL HANDLING | | PWR |

| WRITTEN EXAMINATION SUMMARY | | | |
|---|---|---|---|
| WRITTEN BY | Ron Read | TOTAL EXAMINATION POINTS | 100 |
| GRADED BY | Steve Read | TOTAL APPLICANT POINTS | 85 |
| DATE ADMINISTERED | 12/27/94 | APPLICANT GRADE | 85% |

| OPERATING TEST SUMMARY | | | |
|---|---|---|---|
| ADMINISTERED BY | Steve Read | DATE ADMINISTERED | 12/28/94 |
| A. ADMINISTRATIVE TOPICS | | | S |
| B. CONTROL ROOM SYSTEMS AND FACILITY WALK-THROUGH | | | S |
| C. INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) | | | U |

EXAMINER RECOMMENDATIONS

| CHECK BLOCKS | PASS | FAIL | WAIVE | SIGNATURE | DATE |
|---|---|---|---|---|---|
| WRITTEN EXAMINATION | X | | | Steve Read | 1/10/95 |
| OPERATING TEST | | X | | Steve Read | 1/10/95 |
| FINAL RECOMMENDATION | | X | | George Write | 1/10/95 |

LICENSE RECOMMENDATION

| | | | |
|---|---|---|---|
| | ISSUE LICENSE | SIGNATURE - SECTION CHIEF | DATE |
| X | DENY LICENSE | Kye Witherspoon | 1/12/95 |

APPLICANT NUMBER: 55- 9999 PAGE OF

| A. ADMINISTRATIVE TOPICS | EVALUATION (S OR U) | COMMENT PAGE NUMBER |
|---|---|---|
| 1. CONDUCT OF OPERATIONS | S | |
| 2. EQUIPMENT CONTROL | S | |
| 3. RADIATION CONTROL | S* | Page 4 |
| 4. EMERGENCY PLAN | S* | Page 4 |

| B.1 CONTROL ROOM SYSTEMS | SAFETY FUNCTION | JPM GRADE (S OR U) | QUESTION GRADE (S OR U) | SYSTEM GRADE (S OR U) | COMMENT PAGE NUMBER |
|---|---|---|---|---|---|
| SYSTEM / JPM TITLE | | | | | |
| 1. Start and Load EDG From Control Room | VII | S | S* | S | Page 5 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| B.2 FACILITY WALK-THROUGH | | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |

**U.S. NUCLEAR REGULATORY COMMISSION**
**OPERATOR LICENSE EXAMINATION REPORT**

| APPLICANT'S NAME | | | DOCKET NUMBER 55- | |
|---|---|---|---|---|
| I | R | EXAMINATION TYPE (INITIAL OR RETAKE) | FACILITY NAME | |
| | | REACTOR OPERATOR | | HOT |
| | | SENIOR REACTOR OPERATOR (SRO) INSTANT | | COLD FACILITY |
| | | SRO UPGRADE | | BWR DESCRIPTION |
| | | SRO LIMITED TO FUEL HANDLING | | PWR |

**WRITTEN EXAMINATION SUMMARY**

| | |
|---|---|
| WRITTEN BY | TOTAL EXAMINATION POINTS |
| GRADED BY | TOTAL APPLICANT POINTS |
| DATE ADMINISTERED | APPLICANT GRADE % |

**OPERATING TEST SUMMARY**

| ADMINISTERED BY | DATE ADMINISTERED |
|---|---|
| A. ADMINISTRATIVE TOPICS | |
| B. CONTROL ROOM SYSTEMS AND FACILITY WALK-THROUGH | |
| C. INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) | |

**EXAMINER RECOMMENDATIONS**

| CHECK BLOCKS | PASS | FAIL | WAIVE | SIGNATURE | DATE |
|---|---|---|---|---|---|
| WRITTEN EXAMINATION | | | | | |
| OPERATING TEST | | | | | |
| FINAL RECOMMENDATION | | | | | |

**LICENSE RECOMMENDATION**

| | | | |
|---|---|---|---|
| | ISSUE LICENSE<br>DENY LICENSE | SIGNATURE - SECTION CHIEF | DATE |

APPLICANT NUMBER: 55- PAGE OF

| A. ADMINISTRATIVE TOPICS | EVALUATION (S OR U) | COMMENT PAGE NUMBER |
|---|---|---|
| 1. CONDUCT OF OPERATIONS | | |
| 2. EQUIPMENT CONTROL | | |
| 3. RADIATION CONTROL | | |
| 4. EMERGENCY PLAN | | |

| B.1 CONTROL ROOM SYSTEMS | SAFETY FUNCTION | JPM GRADE (S OR U) | QUESTION GRADE (S OR U) | SYSTEM GRADE (S OR U) | COMMENT PAGE NUMBER |
|---|---|---|---|---|---|
| SYSTEM / JPM TITLE | | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| B.2 FACILITY WALK-THROUGH | | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |

APPLICANT NUMBER: 55-

PAGE OF

C. REACTOR OPERATOR INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) GRADING SUMMARY

| COMPETENCIES / RATING FACTORS | WEIGHT | 3.0 | 2.0 | 1.0 | TOTAL | SCENARIOS OBSERVED | COMMENT PAGE NO |
|---|---|---|---|---|---|---|---|
| 1. ALARMS / ANNUNCIATORS | | | | | | 1 2 3 | |
| A. NOTICE / ACKNOWLEDGE | 0.30 | 0.90 | 0.60 | 0.30 | | | |
| B. INTERPRET / VERIFY | 0.40 | 1.20 | 0.80 | 0.40 | | | |
| C. PRIORITIZE | 0.30 | 0.90 | 0.60 | 0.30 | ( ) | | |
| 2. DIAGNOSIS | | | | | | 1 2 3 | |
| A. RECONGIZE | 0.40 | 1.20 | 0.80 | 0.40 | | | |
| B. USE OF REFERENCE MATERIAL | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| C. DIAGNOSE | 0.40 | 1.20 | 0.80 | 0.40 | ( ) | | |
| 3. SYSTEM RESPONSE | | | | | | 1 2 3 | |
| A. LOCATE / INTERPRET | 0.33 | 1.0 | 0.66 | 0.33 | | | |
| B. SYSTEM OPERATION KNOWLEDGE | 0.33 | 1.0 | 0.66 | 0.33 | | | |
| C. EFFECT OF ACTIONS | 0.33 | 1.0 | 0.66 | 0.33 | ( ) | | |
| 4. PROCEDURES / TECH SPECS | | | | | | 1 2 3 | |
| A. REFERENCE | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| B. EOP ENTRY/ IMMEDIATE ACTIONS | 0.40 | 1.20 | 0.80 | 0.40 | | | |
| C. PROCEDURE COMPLIANCE | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| D. TECH SPEC ENTRY | 0.20 | 0.60 | 0.40 | 0.20 | ( ) | | |
| 5. CONTROL BOARD OPERATIONS | | | | | | 1 2 3 | |
| A. LOCATE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| B. MANIPULATE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| C. RESPONSE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| D. MANUAL CONTROL | 0.25 | 0.75 | 0.50 | 0.25 | ( ) | | |
| 6. COMMUNICATIONS | | | | | | 1 2 3 | |
| A. PROVIDE INFORMATION | 0.33 | 1.0 | 0.66 | 0.33 | | | |
| B. RECEIVE INFORMATION | 0.33 | 1.0 | 0.66 | 0.33 | | | |
| C. CARRY OUT INSTRUCTIONS | 0.33 | 1.0 | 0.66 | 0.33 | ( ) | | |

APPLICANT NUMBER: 55-

C. SENIOR REACTOR OPERATOR INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) GRADING SUMMARY

PAGE OF

| COMPETENCIES / RATING FACTORS | WEIGHT | 3.0 | 2.0 | 1.0 | TOTAL | SCENARIOS OBSERVED | COMMENT PAGE NO |
|---|---|---|---|---|---|---|---|
| 1. ALARMS / ANNUNCIATORS | | | | | | 1 2 3 | |
| A. PRIORITIZE | 0.30 | 0.90 | 0.60 | 0.30 | | | |
| B. INTERPRET | 0.35 | 1.05 | 0.70 | 0.35 | | | |
| C. VERIFY | 0.35 | 1.05 | 0.70 | 0.35 | ( ) | | |
| 2. DIAGNOSIS | | | | | | 1 2 3 | |
| A. RECONGIZE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| B. ACCURACY | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| C. DIAGNOSE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| D. CREW RESPONSE | 0.25 | 0.75 | 0.50 | 0.25 | ( ) | | |
| 3. SYSTEM RESPONSE | | | | | | 1 2 3 | |
| A. INTERPRET | 0.35 | 1.05 | 0.70 | 0.35 | | | |
| B. ATTENTIVE | 0.20 | 0.9 | 0.40 | 0.20 | | | |
| C. PLANT EFFECTS | 0.45 | 1.35 | 0.90 | 0.45 | ( ) | | |
| 4. PROCEDURES | | | | | | 1 2 3 | |
| A. REFERENCE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| B. CORRECT USE | 0.50 | 1.50 | 1.00 | 0.50 | | | |
| C. CREW IMPLEMENTATION | 0.25 | 0.75 | 0.50 | 0.25 | ( ) | | |
| 5. CONTROL BOARD OPERATIONS | | | | | | 1 2 3 | |
| A. LOCATE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| B. MANIPULATE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| C. RESPONSE | 0.25 | 0.75 | 0.50 | 0.25 | | | |
| D. MANUAL CONTROL | 0.25 | 0.75 | 0.50 | 0.25 | ( ) | | |
| 6. COMMUNICATIONS | | | | | | 1 2 3 | |
| A. CLARITY | 0.45 | 1.35 | 0.90 | 0.45 | | | |
| B. CREW INFORMED | 0.35 | 1.05 | 0.70 | 0.35 | | | |
| C. RECIEVE INFORMATION | 0.20 | 0.60 | 0.40 | 0.20 | ( ) | | |

APPLICANT NUMBER: 55- PAGE OF

C. SENIOR REACTOR OPERATOR INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) GRADING SUMMARY

| COMPETENCIES / RATING FACTORS | WEIGHT | 3.0 | 2.0 | 1.0 | TOTAL | SCENARIOS OBSERVED 1 2 3 | COMMENT PAGE NO. |
|---|---|---|---|---|---|---|---|
| 7. DIRECT OPERATIONS | | | | | | | |
| A. TIMELY ACTION | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| B. SAFE DIRECTIONS | 0.40 | 1.20 | 0.80 | 0.40 | | | |
| C. OVERSIGHT | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| D. CREW FEEDBACK | 0.20 | 0.60 | 0.40 | 0.20 | ( ) | | |
| 8. TECHNICAL SPECIFICATIONS | | | | | | 1 2 3 | |
| A. RECOGNIZE | 0.40 | 1.20 | 0.80 | 0.40 | | | |
| B. LOCATE | 0.20 | 0.60 | 0.40 | 0.20 | | | |
| C. COMPLIANCE | 0.40 | 1.20 | 0.80 | 0.40 | ( ) | | |

APPLICANT NUMBER: 55-9999 

C. REACTOR OPERATOR INTEGRATED PLANT OPERATIONS (SIMULATOR TEST) GRADING SUMMARY

| COMPETENCIES / RATING FACTORS | WEIGHT | 3.0 | 2.0 | 1.0 | TOTAL | SCENARIOS OBSERVED 1 2 3 | COMMENT PAGE NO |
|---|---|---|---|---|---|---|---|
| 1. ALARMS / ANNUNCIATORS | | | | | | | |
| A. NOTICE / ACKNOWLEDGE | 0.30 | 0.90 | 0.60 | 0.30 | | X | |
| B. INTERPRET / VERIFY | 0.40 | 1.20 | 0.80 | 0.40 | | X | |
| C. PRIORITIZE | 0.30 | 0.90 | 0.60 | 0.30 | ( 3.0 ) | X | |
| 2. DIAGNOSIS | | | | | | | |
| A. RECONGIZE | 0.40 | 1.20 | 0.80 | 0.40 | | X | |
| B. USE OF REFERENCE MATERIAL | 0.20 | 0.60 | 0.40 | 0.20 | | X | |
| C. DIAGNOSE | 0.40 | 1.20 | 0.80 | 0.40 | ( 3.0 ) | X X | |
| 3. SYSTEM RESPONSE | | | | | | | |
| A. LOCATE / INTERPRET | 0.33 | 1.0 | 0.66 | 0.33 | | X X | 6 |
| B. SYSTEM OPERATION KNOWLEDGE | 0.33 | 1.0 | 0.66 | 0.33 | | X | 6 |
| C. EFFECT OF ACTIONS | 0.33 | 1.0 | 0.66 | 0.33 | ( 1.67 ) | X | 7 |
| 4. PROCEDURES / TECH SPECS | | | | | | | |
| A. REFERENCE | 0.20 | 0.60 | 0.40 | 0.20 | | X X | |
| B. EOP ENTRY/ IMMEDIATE ACTIONS | 0.40 | 1.20 | 0.80 | 0.40 | | X | |
| C. PROCEDURE COMPLIANCE | 0.20 | 0.60 | 0.40 | 0.20 | | X X | |
| D. TECH SPEC ENTRY | 0.20 | 0.60 | 0.40 | 0.20 | ( 3.0 ) | X | |
| 5. CONTROL BOARD OPERATIONS | | | | | | | |
| A. LOCATE | 0.25 | 0.75 | 0.50 | 0.25 | | X | |
| B. MANIPULATE | 0.25 | 0.75 | 0.50 | 0.25 | | X X X | |
| C. RESPONSE | 0.25 | 0.75 | 0.50 | 0.25 | | X X X | |
| D. MANUAL CONTROL | 0.25 | 0.75 | 0.50 | 0.25 | ( 3.0 ) | X X | |
| 6. COMMUNICATIONS | | | | | | | |
| A. PROVIDE INFORMATION | 0.33 | 1.0 | 0.66 | 0.33 | | X X X | |
| B. RECEIVE INFORMATION | 0.33 | 1.0 | 0.66 | 0.33 | | X X | |
| C. CARRY OUT INSTRUCTIONS | 0.33 | 1.0 | 0.66 | 0.33 | ( 3.0 ) | X X X | |

| FORM ES-303-1 CROSS REFERENCE | COMMENTS |
|---|---|
| A.3 | QUESTION: Define a radiation area.<br><br>RESPONSE: An area where you can get greater than five mrem in one hour<br><br>ANSWER: Any area where an individual can receive greater than five mrem in any one hour -OR- greater than 100 mrem in five consecutive days<br><br>QUESTION: What is meant by a "low dose area"?<br><br>RESPONSE: Not familiar with that term.<br><br>ANSWER: A low dose area is used on radiation maps to indicate areas used for minimizing radiation exposure.<br><br>This demonstrated a weakness in knowledge of radiation control and aspects of ALARA. This could result in unnecessary radiation exposure.<br><br>K/A: 194001 K1.04 - Knowledge of facility ALARA program. 3.3/3.5 |

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APPLICANT NUMBER: 55- 9999

| FORM ES-303-1<br>CROSS REFERENCE | COMMENTS |
|---|---|
| B.1.1 | QUESTION: The EDG is operating in "parallel" mode during a periodic load test when an LOCA signal is recieved. How will the EDG respond?<br><br>RESPONSE: The EDG will continue to run in parallel with the output breaker open.<br><br>ANSWER: The EDG output breaker will open and the EDG will continue to run in the unit mode.<br><br>K/A: 064000a2;16 3.3/3.7 |

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| CROSS REFERENCE | COMMENTS |
|---|---|
| C.3.A | While performing a HPCI surveillance test (scenario 3-1a, event 2) the candidate was directed by the procedure to adjust the test isolation valve to obtain a discharge Pressure of at least the value calculated in a previous step (1100#). He recorded a flow rate of 5800 gpm and a discharge pressure of 980# on the surveillance test and reported to the SRO that he could not raise discharge pressure pressure to 1100#, therefore the test had failed. A system engineer was called in to assist the RO and SRO in determining the cause of the problem. The engineer pointed out that the candidate was looking at the wrong indicator. He was reading HPCI turbine steam supply pressure and thinking he was reading HPCI pump discharge pressure to full scale (1500#). By the time he realized that he was reading the wrong indicator, discharge pressure had been at full scale for about 5 minutes.<br><br>This demonstrates an inability to correctly interpret indicators of plant / system response.<br>K/A: 206000A4.01 3.8/3.7<br>K/A: 206000A4.06 4.3/4.3<br>K/A: 206000A3.06 3.6/3.8 |