

**PROPOSED EXAMINATION SUBMITTAL**

**LETTER AND CHECKLISTS**

**FOR THE DC COOK INITIAL EXAMINATION - FEBRUARY 2006**



**Indiana Michigan  
Power Company**  
Nuclear Generation Group  
One Cook Place  
Bridgman, MI 49106  
aep.com

December 14, 2005

U. S. Nuclear Regulatory Commission  
ATTN: Mr. Nicholas A. Valos  
Region III Examiner  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Donald C. Cook Nuclear Plant Units 1 and 2  
2006 INITIAL LICENSE EXAMINATION

Enclosed you will find a copy of the Initial License Examination for the planned February 2006 Examination at Donald C. Cook Nuclear Plant (CNP).

The following items are enclosed in the sealed envelope:

- 1) CNP 2006 NRC Operating Examination Overview
- 2) ES-201-3 Examination Security Agreement
- 3) ES-301-3 Operating Test Quality Checklist
- 4) Scenario Exams with Forms ES-D-1 & D-2
  - a) COOK06-01
  - b) COOK06-02
  - c) COOK06-03
  - d) COOK06-04
  - e) COOK06-05
  - f) COOK06-06
- 5) ES-301-4 Simulator Checklist Set 1
- 6) ES-301-4 Simulator Checklist Set 2
- 7) ES-301-4 Simulator Checklist Set 3
- 8) ES-301-5 Transient and Event Checklist Set 1
- 9) ES-301-5 Transient and Event Checklist Set 2
- 10) ES-301-5 Transient and Event Checklist Set 3
- 11) ES-301-6 Competencies Checklist Set 1
- 12) ES-301-6 Competencies Checklist Set 2
- 13) ES-301-6 Competencies Checklist Set 3
- 14) ES-301-2 System JPM Outlines & Exams
  - a) SRO(I) JPM Outline
  - b) SRO(U) JPM Outline
  - c) NRC2006-SIM01
  - d) NRC2006-SIM02

- e) NRC2006-SIM03
  - f) NRC2006-SIM04
  - g) NRC2006-SIM05
  - h) NRC2006-SIM06
  - i) NRC2006-SIM07
  - j) NRC2006-INP01
  - k) NRC2006-INP02
  - l) NRC2006-INP03
- 15) ES-301-1 Admin JPM Outlines & Exams
- a) SRO(I) Admin Outline
  - b) SRO(U) Admin Outline
  - c) NRC2006-SRO-a
  - d) NRC2006-SRO-b
  - e) NRC2006-SRO-c
  - f) NRC2006-SRO-d
  - g) NRC2006-SRO-e
- 16) ES-401-6 Written Exam Quality Checklist – SRO
- 17) CNP 2006 Written Exam SRO Attachments
- 18) CNP 2006 NRC Written Examination (100 questions with references)
- 19) AUDIT Exam Operating Test Outline

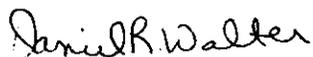
A hard copy of all the examination materials is provided for your review. An electronic copy of documents without initials or signatures or other handwritten notations for the Public Document Room (ADAMS) has also been provided.

None of these materials are to go to the Public Document Room (ADAMS) until after the examination has been completed.

An electronic copy of supporting reference material for the operating test and a hard copy of updated exam schedules based upon discussions with the NRC are also enclosed.

If you have any comments or concerns, please contact Ron Bailey or Steve Pettinger at (269) 466-3364.

Sincerely,



Daniel R. Walter  
Facility Representative

RMB/jen

Enclosures

|   |   |  |  |                        |     |    |
|---|---|--|--|------------------------|-----|----|
| Facility:   |   | Date of Examination:                   |  | Operating Test Number: |     |    |
| 1. General Criteria   |   |  |  | Initials               |     |    |
|   |   |  |  | a                      | b*  | c# |
| a.  | The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).   |  |  | B                      | Shw | NU |
| b.  | There is no day-to-day repetition between this and other operating tests to be administered during this examination.  |  |  | B                      | Shw | NU |
| c.  | The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)   |  |  | B                      | Shw | NU |
| d.  | Overlap with the written examination and between different parts of the operating test is within acceptable limits.   |  |  | B                      | Shw | NU |
| e.  | It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.   |  |  | B                      | Shw | NU |
| 2. Walk-Through Criteria  |   |  |  | --                     | --  | -- |
| a.  | Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>• initial conditions</li> <li>• initiating cues</li> <li>• references and tools, including associated procedures</li> <li>• reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee</li> <li>• operationally important specific performance criteria that include:                         <ul style="list-style-type: none"> <li>- detailed expected actions with exact criteria and nomenclature</li> <li>- system response and other examiner cues</li> <li>- statements describing important observations to be made by the applicant</li> <li>- criteria for successful completion of the task</li> <li>- identification of critical steps and their associated performance standards</li> <li>- restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul> |  |  | B                      | Shw | NU |
| b.  | Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.   |  |  | B                      | Shw | NU |
| 3. Simulator Criteria   |   |  |  | --                     | --  | -- |
| The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.                                      |   |  |  | B                      | Shw | NU |
|   |   | Printed Name / Signature               |  | Date                   |     |    |
| a.  | Author  | Ronald M. Bailey / <i>[Signature]</i>  |  | 12/13/05               |     |    |
| b.  | Facility Reviewer(*)  | Dan Walter / <i>[Signature]</i>        |  | 12-13-05               |     |    |
| c.  | NRC Chief Examiner (#)  | Nicholas A. Valos / <i>[Signature]</i> |  | 1-9-06                 |     |    |
| d.  | NRC Supervisor  | Hironor. Peterson / <i>[Signature]</i> |  | 1-25-06                |     |    |
| NOTE: * The facility signature is not applicable for NRC-developed tests.<br># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. |   |  |  |                        |     |    |

| Facility: DC Cook Nuclear Station Date of Exam: 02/06/2006 Scenario Numbers: 5 / 2 / 3 Operating Test No.: Set 1 |   |                   |     |     |    |
|--|---|-------------------|-----|-----|----|
| QUALITATIVE ATTRIBUTES   |   | Initials          |     |     |    |
|  |   | a                 | b*  | c#  |    |
| 1.   | The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.  | S                 | Shw | NV  |    |
| 2.   | The scenarios consist mostly of related events.   | S                 | Shw | NV  |    |
| 3.   | Each event description consists of<br>. the point in the scenario when it is to be initiated<br>. the malfunction(s) that are entered to initiate the event<br>. the symptoms/cues that will be visible to the crew<br>. the expected operator actions (by shift position)<br>. the event termination point (if applicable) | S                 | Shw | NV  |    |
| 4.   | No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.  | S                 | Shw | NV  |    |
| 5.   | The events are valid with regard to physics and thermodynamics.   | S                 | Shw | NV  |    |
| 6.   | Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.   | S                 | Shw | NV  |    |
| 7.   | If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.   | S                 | Shw | NV  |    |
| 8.   | The simulator modeling is not altered.  | S                 | Shw | NV  |    |
| 9.   | The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the reference plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.  | S                 | Shw | NV  |    |
| 10.  | Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.   | S                 | Shw | NV  |    |
| 11.  | All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).  | S                 | Shw | NV  |    |
| 12.  | Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).   | S                 | Shw | NV  |    |
| 13.  | The level of difficulty is appropriate to support licensing decisions for each crew position.   | S                 | Shw | NV  |    |
| Target Quantitative Attributes (Per Scenario; See Section D.5.d)   |   | Actual Attributes |     |     |    |
| 1.   | Total malfunctions (5-8)  | 8 / 5 / 6         | S   | Shw | NV |
| 2.   | Malfunctions after EOP entry (1-2)  | 3 / 2 / 2         | S   | Shw | NV |
| 3.   | Abnormal events (2-4)   | 4 / 2 / 3         | S   | Shw | NV |
| 4.   | Major transients (1-2)  | 1 / 1 / 1         | S   | Shw | NV |
| 5.   | EOPs entered/requiring substantive actions (1-2)  | 1 / 1 / 1         | S   | Shw | NV |
| 6.   | EOP contingencies requiring substantive actions (0-2)   | 1 / 0 / 0         | S   | Shw | NV |
| 7.   | Critical tasks (2-3)  | 3 / 4 / 2         | S   | Shw | NV |

| Facility: DC Cook Nuclear Station Date of Exam: 02/06/2006 Scenario Numbers: 2 / 4 / 1 Operating Test No.: Set 2 |   |                          |                    |                    |
|--|---|--------------------------|--------------------|--------------------|
| QUALITATIVE ATTRIBUTES   |   | Initials                 |                    |                    |
|  |   | a                        | b*                 | c#                 |
| 1.   | The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.  | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 2.   | The scenarios consist mostly of related events.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 3.   | Each event description consists of<br>the point in the scenario when it is to be initiated<br>the malfunction(s) that are entered to initiate the event<br>the symptoms/cues that will be visible to the crew<br>the expected operator actions (by shift position)<br>the event termination point (if applicable) | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 4.   | No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.  | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 5.   | The events are valid with regard to physics and thermodynamics.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 6.   | Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 7.   | If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 8.   | The simulator modeling is not altered.  | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 9.   | The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the reference plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.  | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 10.  | Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 11.  | All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).  | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 12.  | Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| 13.  | The level of difficulty is appropriate to support licensing decisions for each crew position.   | <i>[Signature]</i>       | <i>[Signature]</i> | <i>[Signature]</i> |
| <b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>  |   | <b>Actual Attributes</b> |                    |                    |
| 1.   | Total malfunctions (5-8)  | 5 / 6 / 7                | <i>[Signature]</i> | <i>[Signature]</i> |
| 2.   | Malfunctions after EOP entry (1-2)  | 2 / 1 / 2                | <i>[Signature]</i> | <i>[Signature]</i> |
| 3.   | Abnormal events (2-4)   | 2 / 4 / 4                | <i>[Signature]</i> | <i>[Signature]</i> |
| 4.   | Major transients (1-2)  | 1 / 1 / 1                | <i>[Signature]</i> | <i>[Signature]</i> |
| 5.   | EOPs entered/requiring substantive actions (1-2)  | 1 / 1 / 1                | <i>[Signature]</i> | <i>[Signature]</i> |
| 6.   | EOP contingencies requiring substantive actions (0-2)   | 0 / 1 / 0                | <i>[Signature]</i> | <i>[Signature]</i> |
| 7.   | Critical tasks (2-3)  | 4 / 2 / 2                | <i>[Signature]</i> | <i>[Signature]</i> |

| Facility: DC Cook Nuclear Station Date of Exam: 02/06/2006 Scenario Numbers: 3 / 4 / 1 Operating Test No.: Set 3 |   |                          |            |            |
|--|---|--------------------------|------------|------------|
| QUALITATIVE ATTRIBUTES   |   | Initials                 |            |            |
|  |   | a                        | b*         | c#         |
| 1.   | The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.  | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 2.   | The scenarios consist mostly of related events.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 3.   | Each event description consists of<br>. the point in the scenario when it is to be initiated<br>. the malfunction(s) that are entered to initiate the event<br>. the symptoms/cues that will be visible to the crew<br>. the expected operator actions (by shift position)<br>. the event termination point (if applicable) | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 4.   | No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.  | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 5.   | The events are valid with regard to physics and thermodynamics.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 6.   | Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 7.   | If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 8.   | The simulator modeling is not altered.  | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 9.   | The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the reference plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.  | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 10.  | Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 11.  | All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).  | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 12.  | Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| 13.  | The level of difficulty is appropriate to support licensing decisions for each crew position.   | <i>S</i>                 | <i>Shw</i> | <i>NU</i>  |
| <b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>  |   | <b>Actual Attributes</b> |            |            |
| 1.   | Total malfunctions (5-8)  | 6 / 6 / 7                | <i>S</i>   | <i>Shw</i> |
| 2.   | Malfunctions after EOP entry (1-2)  | 2 / 1 / 2                | <i>S</i>   | <i>Shw</i> |
| 3.   | Abnormal events (2-4)   | 3 / 4 / 4                | <i>S</i>   | <i>Shw</i> |
| 4.   | Major transients (1-2)  | 1 / 1 / 1                | <i>S</i>   | <i>Shw</i> |
| 5.   | EOPs entered/requiring substantive actions (1-2)  | 1 / 1 / 1                | <i>S</i>   | <i>Shw</i> |
| 6.   | EOP contingencies requiring substantive actions (0-2)   | 0 / 1 / 0                | <i>S</i>   | <i>Shw</i> |
| 7.   | Critical tasks (2-3)  | 2 / 2 / 2                | <i>S</i>   | <i>Shw</i> |

|  |   |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
|--|---|---|---|-----------------|---------------------|-------------------|--|-------------------|-------------------|-----------------------------|--|-----------------|---|---|---|--|
| Facility: DC Cook  |   | Date of Examination: 02/06/2006 Operating Test No.: Set 1 |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
| <b>Competencies</b>  | <b>APPLICANTS</b>                         |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
|  | RO <input type="checkbox"/>               | RO <input type="checkbox"/>                               | RO <input type="checkbox"/>               |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
|  | SRO-I <input type="checkbox"/>            | SRO-I <input checked="" type="checkbox"/>                 | SRO-I <input checked="" type="checkbox"/> |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
|  | SRO-U <input checked="" type="checkbox"/> | SRO-U <input type="checkbox"/>                            | SRO-U <input type="checkbox"/>            |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
| <b>SCENARIO</b>  |   |   |   | <b>SCENARIO</b> |                     |                   |  | <b>SCENARIO</b>   |                   |                             |  | <b>SCENARIO</b> |   |   |   |  |
| 5  | 2   | 3   |   | 5               | 2                   | 3                 |  | 5                 | 2                 | 3                           |  | 1               | 2 | 3 | 4 |  |
| S<br>R<br>O  | B<br>O<br>P                               | A<br>T<br>C   |   | A<br>T<br>C     | S<br>R<br>O         | B<br>O<br>P       |  | B<br>O<br>P       | A<br>T<br>C       | S<br>R<br>O                 |  |                 |   |   |   |  |
| Interpret/Diagnose<br>Events and Conditions                | 1,2,<br>3,4,<br>5,7,<br>8                 | 4,6   | 2,7,<br>8                                 | 1,3,<br>6,7     | 1,2,<br>4,5,<br>6   | 1,4,<br>6,8       |  | 2,4,<br>5,7,<br>8 | 1,2,<br>4,5       | 1,2,<br>4,5,<br>6,7,<br>8   |  |                 |   |   |   |  |
| Comply With and<br>Use Procedures (1)                      | 1,2,<br>3,4,<br>5,6,<br>7,8               | 2,4,<br>6   | 2,3,<br>5,7                               | 1,3,<br>6,7     | 1,2,<br>3,4,<br>5,6 | 1,4,<br>5         |  | 2,4,<br>5,7,<br>8 | 1,2,<br>3,4,<br>5 | 1,2,<br>3,4,<br>5,6,<br>7,8 |  |                 |   |   |   |  |
| Operate Control<br>Boards (2)                              |   | 4,6   | 2,3,<br>5,7                               | 1,3,<br>6,7     |                     | 1,4,<br>7         |  | 2,4,<br>7,8       | 1,2,<br>3,4,<br>5 |                             |  |                 |   |   |   |  |
| Communicate<br>and Interact                                | 1,2,<br>3,4,<br>5,7,<br>8                 | 3,4,<br>6   | 2,3,<br>5,7,<br>8                         | 1,3,<br>6,7     | 1,2,<br>3,4,<br>5,6 | 1,4,<br>5,6,<br>7 |  | 2,4,<br>7,8       | 1,2,<br>3,4,<br>5 | 1,2,<br>3,4,<br>5,6,<br>7,8 |  |                 |   |   |   |  |
| Demonstrate<br>Supervisory Ability (3)                     | 1,2,<br>3,4,<br>5,7,<br>8                 |   |   |                 | 1,2,<br>3,4,<br>5,6 |                   |  |                   |                   | 1,2,<br>3,4,<br>5           |  |                 |   |   |   |  |
| Comply With and<br>Use Tech. Specs. (3)                    | 1,2                                       |   |   |                 | 1,2                 |                   |  |                   |                   | 1,2,<br>4                   |  |                 |   |   |   |  |
| Notes:   |   |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
| (1) Includes Technical Specification compliance for an RO. |   |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
| (2) Optional for an SRO-U.                                 |   |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |
| (3) Only applicable to SROs.                               |   |   |   |                 |                     |                   |  |                   |                   |                             |  |                 |   |   |   |  |

*Instructions:*

*Check the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.*

|  |   |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
|--|---|---|---|-------------------|---------------------------|-------------|--|-----------------|-------------------|---------------------|--|-----------------|---|---|---|
| Facility: DC Cook  |   | Date of Examination: 02/06/2006 Operating Test No.: Set 2 |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
| <b>Competencies</b>  | <b>APPLICANTS</b>                         |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
|  | RO <input type="checkbox"/>               | RO <input type="checkbox"/>                               | RO <input type="checkbox"/>               |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
|  | SRO-I <input type="checkbox"/>            | SRO-I <input checked="" type="checkbox"/>                 | SRO-I <input checked="" type="checkbox"/> |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
|  | SRO-U <input checked="" type="checkbox"/> | SRO-U <input type="checkbox"/>                            | SRO-U <input type="checkbox"/>            |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
| <b>SCENARIO</b>  |   |   |   | <b>SCENARIO</b>   |                           |             |  | <b>SCENARIO</b> |                   |                     |  | <b>SCENARIO</b> |   |   |   |
| 2  | 4   | 1   |   | 2                 | 4                         | 1           |  | 2               | 4                 | 1                   |  | 1               | 2 | 3 | 4 |
| S<br>R<br>O  | B<br>O<br>P                               | A<br>T<br>C   |   | A<br>T<br>C       | S<br>R<br>O               | B<br>O<br>P |  | B<br>O<br>P     | A<br>T<br>C       | S<br>R<br>O         |  |                 |   |   |   |
| Interpret/Diagnose<br>Events and Conditions                | 1,2,<br>4,5,<br>6                         | 2,4,<br>6   | 1,3,<br>5,7,<br>8                         | 1,2,<br>4,5       | 1,2,<br>3,4,<br>6,7       | 2,4,<br>5,6 |  | 4,6             | 1,3,<br>5,6,<br>7 | 1,2,<br>3,4,<br>5   |  |                 |   |   |   |
| Comply With and<br>Use Procedures (1)                      | 1,2,<br>3,4,<br>5,6                       | 2,4,<br>6   | 1,3,<br>5                                 | 1,2,<br>3,4,<br>5 | 1,2,<br>4,5,<br>6         | 2,4,<br>5,6 |  | 2,4,<br>6       | 1,3,<br>5,6       | 1,4,<br>5           |  |                 |   |   |   |
| Operate Control<br>Boards (2)                              |   | 2,4,<br>6   | 1,3,<br>7,8                               | 1,2,<br>3,4,<br>5 |                           | 2,4,<br>5,6 |  | 4,6             | 1,3,<br>5,6,<br>7 |                     |  |                 |   |   |   |
| Communicate<br>and Interact                                | 1,2,<br>3,4,<br>5,6                       | 2,4,<br>6   | 1,3,<br>7,8                               | 1,2,<br>3,4,<br>5 | 1,2,<br>3,4,<br>5,6,<br>7 | 2,4,<br>5,6 |  | 3,4,<br>6       | 1,3,<br>5,6,<br>7 | 1,2,<br>3,4,<br>5,6 |  |                 |   |   |   |
| Demonstrate<br>Supervisory Ability (3)                     | 1,2,<br>3,4,<br>5,6                       |   |   |                   | 1,2,<br>3,4,<br>5,6,<br>7 |             |  |                 |                   | 1,2,<br>3,4,<br>5,6 |  |                 |   |   |   |
| Comply With and<br>Use Tech. Specs. (3)                    | 1,2                                       |   |   |                   | 1,2                       |             |  |                 |                   | 1,4                 |  |                 |   |   |   |
| Notes:   |   |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
| (1) Includes Technical Specification compliance for an RO. |   |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
| (2) Optional for an SRO-U.                                 |   |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |
| (3) Only applicable to SROs.                               |   |   |   |                   |                           |             |  |                 |                   |                     |  |                 |   |   |   |

*Instructions:*

Check the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

|  |   |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
|--|---|---|---|--|-------------|-------------|-------------|-----------|-----------------|-------------|-------------|--|----------|---|---|---|
| Facility: DC Cook  |   | Date of Examination: 02/06/2006 Operating Test No.: Set 3 |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
| Competencies   | APPLICANTS                                |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
|  | RO <input type="checkbox"/>               | RO <input type="checkbox"/>                               | RO <input type="checkbox"/>               |  |             |             |             |           |                 |             |             |  |          |   |   |   |
|  | SRO-I <input type="checkbox"/>            | SRO-I <input checked="" type="checkbox"/>                 | SRO-I <input checked="" type="checkbox"/> |  |             |             |             |           |                 |             |             |  |          |   |   |   |
|  | SRO-U <input checked="" type="checkbox"/> | SRO-U <input type="checkbox"/>                            | SRO-U <input type="checkbox"/>            |  |             |             |             |           |                 |             |             |  |          |   |   |   |
|  | SCENARIO                                  |   |   |  | SCENARIO    |             |             |           | SCENARIO        |             |             |  | SCENARIO |   |   |   |
|  | 3   | 4   | 1   |  | 3           | 4           | 1           |           | 3               | 4           | 1           |  | 1        | 2 | 3 | 4 |
|  | A<br>T<br>C                               | S<br>R<br>O   | B<br>O<br>P                               |  | B<br>O<br>P | A<br>T<br>C | S<br>R<br>O |           | S<br>R<br>O     | B<br>O<br>P | A<br>T<br>C |  |          |   |   |   |
| Interpret/Diagnose Events and Conditions                   | 2,7,8                                     | 1,2,3,4,6,7   | 2,4,5,6                                   |  | 1,4,6,8     | 1,3,5,6,7   | 1,2,3,4,5   |           | 1,2,4,5,6,7,8   | 2,4,6       | 1,3,5,7,8   |  |          |   |   |   |
| Comply With and Use Procedures (1)                         | 2,3,5,7                                   | 1,2,4,5,6   | 2,4,5,6                                   |  | 1,4,5       | 1,3,5,6     | 1,4,5       |           | 1,2,3,4,5,6,7,8 | 2,4,6       | 1,3,5       |  |          |   |   |   |
| Operate Control Boards (2)                                 | 2,3,5,7                                   |   | 2,4,5,6                                   |  | 1,4,7       | 1,3,5,6,7   |             |           | 2,4,6           | 1,3,7,8     |             |  |          |   |   |   |
| Communicate and Interact                                   | 2,3,5,7,8                                 | 1,2,3,4,5,6,7   | 2,4,5,6                                   |  | 1,4,5,6,7   | 1,3,5,6,7   | 1,2,3,4,5,6 |           | 1,2,3,4,5,6,7,8 | 2,4,6       | 1,3,7,8     |  |          |   |   |   |
| Demonstrate Supervisory Ability (3)                        |   | 1,2,3,4,5,6,7   |   |  |             | 1,2,3,4,5,6 |             | 1,2,3,4,5 |                 |             |             |  |          |   |   |   |
| Comply With and Use Tech. Specs. (3)                       |   | 1,2   |   |  |             | 1,4         |             | 1,2,4     |                 |             |             |  |          |   |   |   |
| Notes:   |   |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
| (1) Includes Technical Specification compliance for an RO. |   |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
| (2) Optional for an SRO-U.                                 |   |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |
| (3) Only applicable to SROs.                               |   |   |   |  |             |             |             |           |                 |             |             |  |          |   |   |   |

**Instructions:**

Check the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

| Facility:   |          | Date of Exam:            |           | Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/> |           |           |
|---|----------|--------------------------|-----------|---|-----------|-----------|
| Item Description  | Initial  |                          |           |   |           |           |
|   | a        | b*                       | c*        |   |           |           |
| 1. Questions and answers are technically accurate and applicable to the facility.   | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 2. a. NRC K/As are referenced for all questions.<br>b. Facility learning objectives are referenced as available.  | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 3. SRO questions are appropriate in accordance with Section D.2.d of ES-401   | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).  |          |                          | <i>NV</i> |   |           |           |
| 5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate:<br>___ the audit exam was systematically and randomly developed; or<br>___ the audit exam was completed before the license exam was started; or<br>___ the examinations were developed independently; or<br><input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or<br>___ other (explain) | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.  | Bank     | Modified                 | New       | <i>J</i>  | <i>AW</i> | <i>NV</i> |
|   | 50 113   | 10 16                    | 15 16     |   |           |           |
| 7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.   | Memory   | C/A                      |           | <i>J</i>  | <i>AW</i> | <i>NV</i> |
|   | 33 19    | 42 16                    |           |   |           |           |
| 8. References/handouts provided do not give away answers or aid in the elimination of distractors.  | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 9. Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.  | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 10. Question psychometric quality and format meet the guidelines in ES Appendix B.  | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| 11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.   | <i>J</i> | <i>AW</i>                | <i>NV</i> |   |           |           |
| a. Author   |          | Printed Name / Signature |           | Date  |           |           |
| b. Facility Reviewer (*)  |          | <i>Ronald M. Bider</i>   |           | <i>12/13/05</i>   |           |           |
| c. NRC Chief Examiner (#)   |          | <i>Dan Walter</i>        |           | <i>12-13-05</i>   |           |           |
| d. NRC Regional Supervisor  |          | <i>Nicholas A. Yalos</i> |           | <i>1-9-06</i>   |           |           |
|   |          | <i>Hironor Johnson</i>   |           | <i>1-25-06</i>  |           |           |
| Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations.<br># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.   |          |                          |           |   |           |           |