

Facility: PRAIRIE ISLAND Date of Exam: MAY 2016 Operating Test No.: PI-ILT-NRC-16

| A<br>P<br>P<br>L<br>I<br>C<br>A<br>N<br>T | E<br>V<br>E<br>N<br>T<br><br>T<br>Y<br>P<br>E | Scenarios – Group 1 |             |             |               |             |             |               |             |             |               |             |             |                       |  |   |   |
|---|---|---------------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|-----------------------|--|---|---|
|   |   | EVAL #1             |             |             | EVAL #2       |             |             | EVAL #4       |             |             | CREW POSITION |             |             | T<br>O<br>T<br>A<br>L | M<br>I<br>N<br>I<br>M<br>U<br>M<br>(*) |   |   |
|   |   | CREW POSITION       |             |             | CREW POSITION |             |             | CREW POSITION |             |             |               |             |             |                       |  |   |   |
|   |   | S<br>R<br>O         | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P |                       |  |   |   |
| R   | I   | U                   |             |             |               |             |             |               |             |             |               |             |             |                       |  |   |   |
| <b>R1</b>                                 | RX  |                     | 4           |             |               |             |             |               |             |             |               |             |             | 1                     | 1                                      | 1 | 0 |
|   | NOR   |                     |             |             |               |             | 1           |               |             | 2           |               |             |             | 2                     | 1                                      | 1 | 1 |
|   | I/C   |                     | 1, 5        |             |               |             | 5, 7        |               |             | 3, 7        |               |             |             | 6                     | 4                                      | 4 | 2 |
|   | MAJ   |                     | 6           |             |               |             | 6           |               |             | 5, 8        |               |             |             | 4                     | 2                                      | 2 | 1 |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             | 0                     | 0                                      | 2 | 2 |
| <b>I1</b>                                 | RX  |                     |             |             |               | 2           |             |               |             |             |               |             |             | 1                     | 1                                      | 1 | 0 |
|   | NOR   |                     |             |             |               |             |             |               | 1           |             |               |             |             | 1                     | 1                                      | 1 | 1 |
|   | I/C   |                     |             | 1, 3, 7     |               | 3, 4        |             |               | 3, 4, 6, 7  |             |               |             |             | 9                     | 4                                      | 4 | 2 |
|   | MAJ   |                     |             | 6           |               | 6           |             |               | 5, 8        |             |               |             |             | 4                     | 2                                      | 2 | 1 |
|   | TS  |                     |             |             |               |             |             |               | 3, 4        |             |               |             |             | 2                     | 0                                      | 2 | 2 |
| <b>I2</b>                                 | RX  |                     |             |             |               |             |             |               | 1           |             |               |             |             | 1                     | 1                                      | 1 | 0 |
|   | NOR   | 4                   |             |             | 2             |             |             |               |             |             |               |             |             | 2                     | 1                                      | 1 | 1 |
|   | I/C   | 1, 3, 5, 7          |             |             | 3, 4, 5, 7    |             |             |               | 4, 6        |             |               |             |             | 10                    | 4                                      | 4 | 2 |
|   | MAJ   | 6                   |             |             | 6             |             |             |               | 5, 8        |             |               |             |             | 4                     | 2                                      | 2 | 1 |
|   | TS  | 1, 2                |             |             | 3             |             |             |               |             |             |               |             |             | 3                     | 0                                      | 2 | 2 |
|   | RX  |                     |             |             |               |             |             |               |             |             |               |             |             |                       | 1                                      | 1 | 0 |
|   | NOR   |                     |             |             |               |             |             |               |             |             |               |             |             |                       | 1                                      | 1 | 1 |
|   | I/C   |                     |             |             |               |             |             |               |             |             |               |             |             |                       | 4                                      | 4 | 2 |
|   | MAJ   |                     |             |             |               |             |             |               |             |             |               |             |             |                       | 2                                      | 2 | 1 |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             |                       | 0                                      | 2 | 2 |

Instructions:

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- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (\*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
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|---|---|---------------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---|-----------------------|--|---|--|
|   |   | EVAL #1             |             |             | EVAL #2       |             |             | EVAL #3       |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | CREW POSITION       |             |             | CREW POSITION |             |             | CREW POSITION |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | S<br>R<br>O         | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | R |                       | I                                      | U |  |
| <b>R2</b>                                 | RX  |                     | 4           |             |               |             |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             | 1           |               |             | 1           |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     | 1, 5        |             |               |             | 5, 7        |               |             | 4, 7        |               |             | 6           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     | 6           |             |               |             | 6           |               |             | 6           |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 0 | 2                     | 2                                      |   |  |
| <b>I3</b>                                 | RX  |                     |             |             |               | 2           |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             | 1, 3, 7     |               | 3, 4        |             |               | 2, 4, 5, 7  |             |               |             | 9           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             | 6           |               | 6           |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               | 2, 4        |             |               |             | 2           | 0 | 2                     | 2                                      |   |  |
| <b>I4</b>                                 | RX  |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   | 4                   |             |             | 2             |             |             |               |             |             |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   | 1, 3, 5, 7          |             |             | 3, 4, 5, 7    |             |             |               | 2, 5        |             |               |             | 10          | 4 | 4                     | 2                                      |   |  |
|   | MAJ   | 6                   |             |             | 6             |             |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  | 1, 2                |             |             | 3             |             |             |               |             |             |               |             | 3           | 0 | 2                     | 2                                      |   |  |
|   | RX  |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             |             |               |             |             |               |             |             |               |             |             | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             |             |               |             |             |               |             |             |               |             |             | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             | 0 | 2                     | 2                                      |   |  |

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|---|---|---------------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---|-----------------------|--|---|--|
|   |   | EVAL #1             |             |             | EVAL #2       |             |             | EVAL #3       |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | CREW POSITION       |             |             | CREW POSITION |             |             | CREW POSITION |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | S<br>R<br>O         | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | R |                       | I                                      | U |  |
| <b>R3</b>                                 | RX  |                     | 4           |             |               |             |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             | 1           |               |             | 1           |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     | 1, 5        |             |               |             | 5, 7        |               |             | 4, 7        |               |             | 6           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     | 6           |             |               |             | 6           |               |             | 6           |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 0 | 2                     | 2                                      |   |  |
| <b>I5</b>                                 | RX  |                     |             |             |               | 2           |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             | 1, 3, 7     |               | 3, 4        |             |               | 2, 4, 5, 7  |             |               |             | 9           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             | 6           |               | 6           |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               | 2, 4        |             |               |             | 2           | 0 | 2                     | 2                                      |   |  |
| <b>I6</b>                                 | RX  |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   | 4                   |             |             | 2             |             |             |               |             |             |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   | 1, 3, 5, 7          |             |             | 3, 4, 5, 7    |             |             |               | 2, 5        |             |               |             | 10          | 4 | 4                     | 2                                      |   |  |
|   | MAJ   | 6                   |             |             | 6             |             |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  | 1, 2                |             |             | 3             |             |             |               |             |             |               |             | 3           | 0 | 2                     | 2                                      |   |  |
|   | RX  |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             |             |               |             |             |               |             |             |               |             |             | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             |             |               |             |             |               |             |             |               |             |             | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             | 0 | 2                     | 2                                      |   |  |

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|---|---|---------------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---|-----------------------|--|---|--|
|   |   | EVAL #1             |             |             | EVAL #2       |             |             | EVAL #3       |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | CREW POSITION       |             |             | CREW POSITION |             |             | CREW POSITION |             |             | CREW POSITION |             |             |   |                       |  |   |  |
|   |   | S<br>R<br>O         | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | R |                       | I                                      | U |  |
| <b>R4</b>                                 | RX  |                     | 4           |             |               |             |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             | 1           |               |             | 1           |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     | 1, 5        |             |               |             | 5, 7        |               |             | 4, 7        |               |             | 6           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     | 6           |             |               |             | 6           |               |             | 6           |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 0 | 2                     | 2                                      |   |  |
| <b>I7</b>                                 | RX  |                     |             |             |               | 2           |             |               |             |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             | 1, 3, 7     |               | 3, 4        |             |               | 2, 4, 5, 7  |             |               |             | 9           | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             | 6           |               | 6           |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               | 2, 4        |             |               |             | 2           | 0 | 2                     | 2                                      |   |  |
| <b>I8</b>                                 | RX  |                     |             |             |               |             |             |               | 3           |             |               |             | 1           | 1 | 1                     | 0                                      |   |  |
|   | NOR   | 4                   |             |             | 2             |             |             |               |             |             |               |             | 2           | 1 | 1                     | 1                                      |   |  |
|   | I/C   | 1, 3, 5, 7          |             |             | 3, 4, 5, 7    |             |             |               | 2, 5        |             |               |             | 10          | 4 | 4                     | 2                                      |   |  |
|   | MAJ   | 6                   |             |             | 6             |             |             |               | 6           |             |               |             | 3           | 2 | 2                     | 1                                      |   |  |
|   | TS  | 1, 2                |             |             | 3             |             |             |               |             |             |               |             | 3           | 0 | 2                     | 2                                      |   |  |
|   | RX  |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 0                                      |   |  |
|   | NOR   |                     |             |             |               |             |             |               |             |             |               |             |             | 1 | 1                     | 1                                      |   |  |
|   | I/C   |                     |             |             |               |             |             |               |             |             |               |             |             | 4 | 4                     | 2                                      |   |  |
|   | MAJ   |                     |             |             |               |             |             |               |             |             |               |             |             | 2 | 2                     | 1                                      |   |  |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             | 0 | 2                     | 2                                      |   |  |

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|---|---|---------------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|---------------|-------------|-------------|-----------------------|--|---|---|
|   |   | EVAL #3             |             |             | EVAL #4       |             |             | CREW POSITION |             |             | CREW POSITION |             |             |                       |  |   |   |
|   |   | CREW POSITION       |             |             | CREW POSITION |             |             | CREW POSITION |             |             | CREW POSITION |             |             |                       |  |   |   |
|   |   | S<br>R<br>O         | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P | S<br>R<br>O   | A<br>T<br>C | B<br>O<br>P |                       | R                                      | I | U |
| <b>R5</b>                                 | RX  |                     | 3           |             |               |             |             |               |             |             |               |             | 1           | 1                     | 1                                      | 0 |   |
|   | NOR   |                     |             |             |               |             | 2           |               |             |             |               |             | 1           | 1                     | 1                                      | 1 |   |
|   | I/C   |                     | 2, 5        |             |               |             | 3, 7        |               |             |             |               |             | 4           | 4                     | 4                                      | 2 |   |
|   | MAJ   |                     | 6           |             |               |             | 5, 8        |               |             |             |               |             | 3           | 2                     | 2                                      | 1 |   |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 0                     | 2                                      | 2 |   |
| <b>R6</b>                                 | RX  |                     |             |             |               | 1           |             |               |             |             |               |             | 1           | 1                     | 1                                      | 0 |   |
|   | NOR   |                     |             | 1           |               |             |             |               |             |             |               |             | 1           | 1                     | 1                                      | 1 |   |
|   | I/C   |                     |             | 4, 7        |               | 4, 6        |             |               |             |             |               |             | 4           | 4                     | 4                                      | 2 |   |
|   | MAJ   |                     |             | 6           |               | 5, 8        |             |               |             |             |               |             | 3           | 2                     | 2                                      | 1 |   |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 0                     | 2                                      | 2 |   |
| <b>U1</b>                                 | RX  |                     |             |             |               |             |             |               |             |             |               |             | 0           | 1                     | 1                                      | 0 |   |
|   | NOR   | 3                   |             |             | 1             |             |             |               |             |             |               |             | 2           | 1                     | 1                                      | 1 |   |
|   | I/C   | 2, 4, 5, 7          |             |             | 3, 4, 6, 7    |             |             |               |             |             |               |             | 8           | 4                     | 4                                      | 2 |   |
|   | MAJ   | 6                   |             |             | 5, 8          |             |             |               |             |             |               |             | 3           | 2                     | 2                                      | 1 |   |
|   | TS  | 2, 4                |             |             | 3, 4          |             |             |               |             |             |               |             | 4           | 0                     | 2                                      | 2 |   |
|   | RX  |                     |             |             |               |             |             |               |             |             |               |             |             | 1                     | 1                                      | 0 |   |
|   | NOR   |                     |             |             |               |             |             |               |             |             |               |             |             | 1                     | 1                                      | 1 |   |
|   | I/C   |                     |             |             |               |             |             |               |             |             |               |             |             | 4                     | 4                                      | 2 |   |
|   | MAJ   |                     |             |             |               |             |             |               |             |             |               |             |             | 2                     | 2                                      | 1 |   |
|   | TS  |                     |             |             |               |             |             |               |             |             |               |             |             | 0                     | 2                                      | 2 |   |

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls" (ATC) and "balance-of-plant" (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (\*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.