

**VARIOUS CHECKLISTS**

**FOR THE PRAIRIE ISLAND INITIAL EXAMINATION**

**THE WEEKS OF SEPTEMBER 10 AND 17, 2001**

Facility: <u>Prairie Island</u>		Date of Examination: <u>9/10-9/21/01</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	JH
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	JH
-120	3. Facility contact briefed on security & other requirements (C.2.c)	JH
-120	4. Corporate notification letter sent (C.2.d)	JH
[-90]	[5. Reference material due (C.1.e; C.3.c)]	JH
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	JH
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	JH
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	JH
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	JH
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	JH
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	JH
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	JH
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	JH
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	JH
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	JH
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	JH
<p>* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[ ] Applies only to examinations prepared by the NRC.</p>		



**Nuclear Management Company, LLC**  
Prairie Island Nuclear Generating Plant  
1717 Wakonade Dr. East • Welch MN 55089

November 13, 2001

10CFR55

Mr. Dave Pelton, Chief Examiner  
U S Nuclear Regulatory Commission  
Region III  
801 Warrenville Road  
Lisle, IL 60532-4351

**PRAIRIE ISLAND NUCLEAR GENERATING PLANT**

Docket Nos. 50-282 License Nos. DPR-42  
50-306 DPR-60

**Examination Security Agreement for Initial Operator License Examination**

Enclosed are signed Forms 201-3, "Examination Security Agreement," as required by Operator Licensing Examination Standards for Power Reactors, NUREG-1021, ES-501 C.1.a.

In this letter we have made no new Nuclear Regulatory Commission commitments.

If you have questions, please contact John Kempkes at 651-388-1165 X5031.

Sincerely,

Mano K. Nazar  
Site Vice President

Encl: Examination Security Agreements (7 pages)

NOV 16 2001

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <sup>10</sup> 9/17/2001 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 9/10-17/2001 from the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. Stephen P. Johnson	WDA-ssac. Contractor / Written Exam Developer	<i>Stephen P. Johnson</i>	1/11/2001	SEE ATTACHED FAX	
2. JOSEPH W. LOESCH	OPS WST / EXAM DEVELOPMENT	<i>Joe Loesch</i>	1/11/2001	<i>Joe Loesch</i>	9/24/01
3. Patricia E. Smith	BPS / Adm Support	<i>Patricia E. Smith</i>	1/11/2001	<i>Patricia E. Smith</i>	* 10/30/01
4. <del>Donna Smith</del>	<del>SHIFT MANAGER</del>	<del>Donna Smith</del>	<del>1/11/01</del>	<del>Donna Smith</del>	<del>1/18/01</del> SEE MEMO
5. Karen Carlson	BPS / Exam Support	<i>Karen Carlson</i>	5-4-01	<i>Karen Carlson</i>	9-24-01
6. JOE HEDMAN	EXAM DEVELOPMENT	<i>Joe Hedman</i>	5-14-01	<i>Joe Hedman</i>	9/24/01
7. Doug Smith	SHIFT MANAGER	<i>Doug Smith</i>	5/23/01	<i>Doug Smith</i>	10/11/01
8. George Thullen	DTRC - PEER REVIEW	<i>George Thullen</i>	6/4/01	<i>George Thullen</i>	SEE ATTACHED FAX
9. Jeff Gehlhar	Simulator Engineer	<i>Jeff Gehlhar</i>	6/6/01	<i>Jeff Gehlhar</i>	10/24/01
10. Scott Whitson	Simulator Engineer	<i>Scott Whitson</i>	6/6/01	<i>Scott Whitson</i>	10/26/01
11. MARK D BORN	I&C	<i>Mark D Born</i>	6/6/01	<i>Mark D Born</i>	10/24/01
12. MIKE GAEDZINSKI	INSTRUCTOR	<i>Mike Gaedzinski</i>	6/6/01	<i>Mike Gaedzinski</i>	9/27/01
13. RICHARD P. NOVAK	SAFE WORK	<i>Richard P. Novak</i>	6/7/01	<i>Richard P. Novak</i>	SEE ATTACHED FAX
14. Daniel S Goebel	SAFE WORK	<i>Daniel S Goebel</i>	6/7/01	<i>Daniel S Goebel</i>	SEE ATTACHED FAX
15. David M. Webb	Lead Reactor Operator	<i>David M Webb</i>	6/7/01	<i>David M Webb</i>	9-24-01

NOTES:

\* Patricia Smith no longer works at PITE and cannot be located. She had no exam specific knowledge, and was on the agreement only for exam room access to update procedures. *Jan Kempkes* 10/30/01  
 ILT SUPERVISOR  
 per phone con with Dave Patron  
 NRC Region 3 10/30/01

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/17/2001 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of \_\_\_\_\_ From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE/NOTE
1. Stephen P. Johnson	WDA Assoc Contender / Written Exam Developer	<i>Stephen P. Johnson</i>	9/17/2001	<i>Stephen P. Johnson</i>	9/17/2001
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NOTES:

To: Joe Hedman

PRAIRIE ISLAND

Form ES-201-3

Examination Security Agreement

1. ~~The Applicant~~

10

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/17/01 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. ~~Post-Exam Debrief~~

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 9/17/01 from the date that I entered into this security agreement until the completion of examination administration. I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE	DATE	SIGNATURE (2)	DATE/NOTE
Stephen P. Johnson	WDA-500C / Written Exam Developer	[Signature]	11/1/01	SEE ATTACHED FAX	9/24/01
JOSEPH W. LOESCH	OPS MGT / EXAM DEVELOPMENT	[Signature]	11/1/01	[Signature]	9/24/01
Patricia E. Smith	OPS / Admin Support	[Signature]	11/1/01	[Signature]	9/24/01
Karen Quisenberry	OPS / Admin Support	[Signature]	11/1/01	[Signature]	9/24/01
JOE HEDMAN	OPS / Admin Support	[Signature]	11/1/01	[Signature]	9/24/01
David Smith	Shift Manager	[Signature]	11/1/01	[Signature]	9/24/01
George Zalkin	OPAC-PEEL Engineer	[Signature]	11/1/01	[Signature]	9/24/01
Jeff Gehlbach	Simulator Engineer	[Signature]	11/1/01	[Signature]	9/24/01
Scott Whitson	Simulator Engineer	[Signature]	11/1/01	[Signature]	9/24/01
MARK D BOON	IT / QA	[Signature]	11/1/01	[Signature]	9/24/01
MIKE GARDNER	IT / QA	[Signature]	11/1/01	[Signature]	9/24/01
RICHARD P. PLOWAK	SAFE WORK	[Signature]	11/1/01	[Signature]	9/24/01
Daniel J. Goshel	SAFE WORK	[Signature]	11/1/01	[Signature]	9/24/01
David M. Keble	Lead Reactor Operator	[Signature]	11/1/01	[Signature]	9/24/01

NOTES:

NUREG-1021, Revision 6

24 of 24

PRAIRIE ISLAND

Form ES-201-3

Examination Security Agreement

1. The Examinee(s)

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/17/2001 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of these conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Exam Action

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 9/17/2001 from the date that I entered into this security agreement until the completion of examination administration. I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE	DATE	SIGNATURE (2)	DATE/NOTE
Stephen P. Johnson	WDA-5500	[Signature]	11/20/01	[Signature]	9/14/01
STEPHEN W. LOESCH	Cost Estimator / Written Exam Development	[Signature]	11/20/01	[Signature]	9/14/01
Robert E. Smith	OPS MGR / EXAM DEVELOPMENT	[Signature]	11/20/01	[Signature]	9/14/01
John Smith	OPS MGR / EXAM DEVELOPMENT	[Signature]	11/20/01	[Signature]	9/14/01
JOE HEDMAN	OPS MGR / EXAM DEVELOPMENT	[Signature]	11/20/01	[Signature]	9/14/01
Dora Smith	SWR Manager	[Signature]	11/20/01	[Signature]	9/14/01
George Duller	Exam - Peer Review	[Signature]	11/20/01	[Signature]	9/14/01
Jeff Gehlhar	Simulator Engineer	[Signature]	11/20/01	[Signature]	9/14/01
Scott W. Tyson	Simulator Engineer	[Signature]	11/20/01	[Signature]	9/14/01
MARK D. BORN	Exam Development	[Signature]	11/20/01	[Signature]	9/14/01
MIKE GARDNER	Exam Development	[Signature]	11/20/01	[Signature]	9/14/01
RICHARD P. NOVAK	Exam Development	[Signature]	11/20/01	[Signature]	9/14/01
Dennis S. Goshel	Exam Development	[Signature]	11/20/01	[Signature]	9/14/01
David M. Webb	Lead Reactor Operator	[Signature]	11/20/01	[Signature]	9/14/01

NOTES:

NUREG-1021, Revision 8

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/10/2001 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. <u>Jeff Baartman</u>	<u>SS / Validation</u>	<u>Jeff Baartman</u>	<u>6/29/01</u>	<u>Jeff Baartman</u>	<u>10-1-01</u>
2. <u>Darrell Lapcinski</u>	<u>RO / Validation</u>	<u>Darrell Lapcinski</u>	<u>6-27-01</u>	<u>Darrell Lapcinski</u>	<u>9-26-01</u>
3. <u>Todd Strain</u>	<u>SS / Validation</u>	<u>Todd Strain</u>	<u>6-29-01</u>	<u>Todd Strain</u>	<u>10-15-01</u>
4. <u>Steve Schmidt</u>	<u>SS / Validation</u>	<u>Steve Schmidt</u>	<u>7-1-01</u>	<u>Steve Schmidt</u>	<u>9-24-01</u>
5. <u>JAMES CAMBER</u>	<u>LRO / VALIDATION</u>	<u>James Camber</u>	<u>7-1-01</u>	<u>James Camber</u>	<u>9-27-01</u>
6. <u>Brent Seely</u>	<u>RO / VALIDATION</u>	<u>Brent Seely</u>	<u>7-1-01</u>	<u>Brent Seely</u>	<u>9/24/01</u>
7. <u>MA: Barringer</u>	<u>BPS</u>	<u>MA Barringer</u>	<u>7-26-01</u>	<u>MA Barringer</u>	<u>10/22/01</u>
8. <u>Michael Buckner</u>	<u>Inst / Regual Exan Development</u>	<u>Michael Buckner</u>	<u>8/17/01</u>	<u>Michael Buckner</u>	<u>9/24/2001</u>
9. <u>Stuart Page</u>	<u>RO / Validation</u>	<u>Stuart Page</u>	<u>8/23/01</u>	<u>Stuart Page</u>	<u>9/24/01</u>
10. <u>Richard M. Vonk</u>	<u>Inst</u>	<u>Richard M. Vonk</u>	<u>8/23/01</u>	<u>Richard M. Vonk</u>	<u>10/8/01</u>
11. <u>MARK WEIGENANT</u>	<u>SS VALIDATION</u>	<u>Mark Weigant</u>	<u>8-22-01</u>	<u>Mark Weigant</u>	<u>9-27-01</u>
12. <u>Jeff Hawkenson</u>	<u>SS validation</u>	<u>Jeff Hawkenson</u>	<u>8/27/01</u>	<u>Jeff Hawkenson</u>	<u>9/24/01</u>
13. <u>Paul Finstrom</u>	<u>RO</u>	<u>Paul Finstrom</u>	<u>8/30/01</u>	<u>Paul Finstrom</u>	<u>10-1-01</u>
14. <u>Brad Churchill</u>	<u>LRO</u>	<u>Brad Churchill</u>	<u>8/30/01</u>	<u>Brad Churchill</u>	<u>10-1-01</u>
15. <u>Dale E Johnson</u>	<u>SS validation</u>	<u>Dale E Johnson</u>	<u>8/31/01</u>	<u>Dale E Johnson</u>	<u>10-24-01</u>

NOTES:

PRAIRIE ISLAND

ES-201

Examination Security Agreement

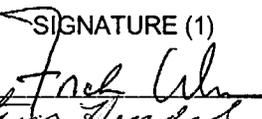
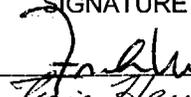
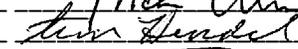
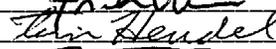
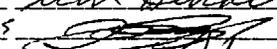
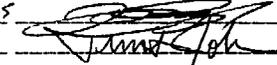
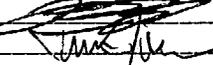
Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/10/2001 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 9/10 + 9/17. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Frank Wurster	Regual Development		9/27/01		9/24/01	
2.	Tim Hendel	SSD		9-10-01		10-8-01	
3.	John Kempkes	SUPV INITIAL TRNG/COMMS		9-10-01		9-24-01	
4.	Timothy Johansen	Surrogate		9-11-01		10/1/01	
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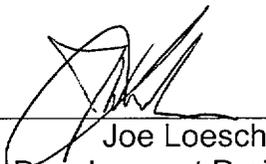
1/18/01

On 1/11/01 Doug Smith (PI Shift Manager) signed NUREG-1021 form ES-203-3 (Security Agreement). It was the intention to use Doug as Operations management oversight for the exam development process. On 1/12/01 it was discovered that Doug would be returning to Shift Manager duties. In order to minimize the risk of exam security compromise, it was decided to remove Doug from the security agreement prior to his involvement with the exam development process.

Although NUREG-1021 provides no specific guidance for this particular situation, the NRC lead examiner suggested removing Doug from the list and writing a memo explaining the situation. This memo is to be retained with form ES-203-3 and submitted to the NRC following the examination.

From the beginning of exam development (1/11/01) until removal from the security agreement (1/18/01) Doug Smith had received **no** knowledge of **any** part of the 2001 NRC license exam scheduled for the week of 9/17/2001. Additionally, Doug Smith had **not** been granted access to **any** examination materials.

The exam development team may decide to use Doug Smith on the exam development team in the future. In this case, Doug will re-sign form ES-201-3.



Joe Loesch  
Exam Development Project Manager



Doug Smith  
Prairie Island Shift Manager

Facility:	Prairie Island	Date of Examination:	09/10/2001	Operating Test Number:	1	
<b>1. GENERAL CRITERIA</b>				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).	Y	S	JL		
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	Y	S	JL		
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	Y	S	JL		
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	Y	S	JL		
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	Y	S	JL		
<b>2. WALK-THROUGH (CATEGORY A &amp; B) CRITERIA</b>				--	--	--
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>• 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>	Y	S	JL		
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	N/A	N/A	N/A		
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walkthrough) and do not compromise test integrity.	Y	S	JL		
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	Y	S	JL		
<b>3. SIMULATOR (CATEGORY C) CRITERIA</b>				---	---	---
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	Y	S	JL		
a. Author	<u>JOE LOESCH</u> / <u>[Signature]</u>			Date, <u>7/19/01</u>		
b. Facility Reviewer(*)	<u>Doug Smith</u> / <u>[Signature]</u>			Date, <u>7/20/01</u>		
c. NRC Chief Examiner (#)	<u>Jay Hopkins</u> / <u>[Signature]</u>			<u>9-6-01</u>		
d. NRC Supervisor	<u>David E. Hicks</u> / <u>[Signature]</u>			<u>9-7-01</u>		
Note: * The facility signature is not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.						

Facility:	Prairie Island	Date of Exam:	09/10/2001	Scenario Numbers:	1 / 2 / 3 / 4	Operating Test No.:	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.					Y	S	JL	
2.	The scenarios consist mostly of related events.					Y	S	JL	
3.	Each event description consists of • the point in the scenario when it is to be initiated • the malfunction(s) that are entered to initiate the event • the symptoms/cues that will be visible to the crew • the expected operator actions (by shift position) • the event termination point (if applicable)					Y	S	JL	
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.					Y	S	JL	
5.	The events are valid with regard to physics and thermodynamics.					Y	S	JL	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					Y	S	JL	
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.					Y	S	JL	
8.	The simulator modeling is not altered.					Y	S	JL	
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.					Y	S	JL	
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been modified in accordance with Section D.4 of ES-301.					Y	S	JL	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					Y	S	JL	
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form along with the simulator scenarios).					Y	S	JL	
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.					Y	S	JL	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)						Actual Attributes			
1.	Total malfunctions (5-8)					5 / 5 / 6 / 6	Y	S	JL
2.	Malfunctions after EOP entry (1-2)					1 / 1 / 1 / 2	Y	S	JL
3.	Abnormal events (2-4)					2 / 3 / 3 / 3	Y	S	JL
4.	Major transients (1-2)					1 / 1 / 1 / 1	Y	S	JL
5.	EOPs entered/requiring substantive actions (1-2)					2 / 1 / 1 / 1	Y	S	JL
6.	EOP contingencies requiring substantive actions (0-2)					1 / 1 / 1 / 1	Y	S	JL
7.	Critical tasks (2-3)					2 / 2 / 2 / 2	Y	S	JL

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1	3	1	3	3
	Normal	1	3	2	3	3
	Instrument / Component	4	1,2 <sup>(RO)</sup> 5 <sup>(BOP)</sup>	3,7 <sup>(RO)</sup> 5 <sup>(BOP)</sup>	2,4,6 <sup>(RO)</sup> 1 <sup>(BOP)</sup>	1 <sup>(RO)</sup> 2,5 <sup>(BOP)</sup>
	Major	1	4	6	5	4

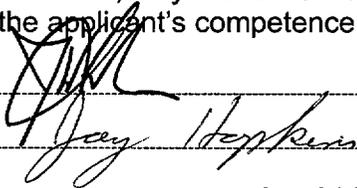
As RO	Reactivity	1	3	1	3	3
	Normal	0	0	0	0	0
	Instrument / Component	2	1,2 <sup>(RO)</sup> 5 <sup>(BOP)</sup>	3,7 <sup>(RO)</sup> 5 <sup>(BOP)</sup>	2,4,6 <sup>(RO)</sup> 1 <sup>(BOP)</sup>	1 <sup>(RO)</sup> 2,5 <sup>(BOP)</sup>
	Major	1	4	6	5	4
SRO-I						
As SRO	Reactivity	0	0	1	0	0
	Normal	1	3	2	3	3
	Instrument / Component	2	1,2,5	3,4,5, 7	1,2,4, 6	1,2,5, 6
	Major	1	4	6	5	4

SRO-U	Reactivity	0	0	1	0	0
	Normal	1	3	2	3	3
	Instrument / Component	2	1,2,5	3,4,5, 7	1,2,4, 6	1,2,5, 6
	Major	1	4	6	5	4

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
  - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
  - (3) 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 towards the minimum requirement.

Author:

NRC Reviewer:



Competencies	Applicant #1 SRO				Applicant #2 RO				Applicant #3 RO			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	2-5	3-7	2,3,5	1-6	1,2,4	3,4,6,7	2,4,5	1,4,6	3-5	4-6	3,5	2-6
Diagnose Events and Conditions	1-5	3-7	1-6	1-6	1-4	3,4,6,7	2-6	1,3,4,6	3-5	4-6	1,3,5	2-6
Understand Plant and System Response	1-5	1,3-7	1-6	1-6	1-4	1,3,4,6,7	2-6	1,3,4,6	3-5	2,4-6	1,3-5	2-6
Comply With and Use Procedures (1)	2-5	1-7	1-6	1-6	1-4	1,3,4,6,7	2-6	1,3,4,6	3-5	2,4-6	1,3-5	2-6
Operate Control Boards (2)					1-4	1,3,4,6,7	2-6	1,3,4,6	3-5	2,4-6	1,3-5	2-6
Communicate and Interact With the Crew	1-5	1-7	1-6	1-6	1-5	1,3,4,6,7	2-6	1,3,4,6	1,3-5	2,4-7	1,3-6	2-6
Demonstrate Supervisory Ability (3)	1-5	1-7	1-6	1-6								
Comply With and Use Tech. Specs. (3)	1,2	3,5	1,4	1,2								

Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.

Instructions:

Circle 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.

**NOTE: Applicant 2 is an RO filling the Reactor Operator position, and Applicant 3 is an RO filling the Balance of Plant position.**

Author: \_\_\_\_\_

NRC Reviewer: \_\_\_\_\_

Facility: <u>Prairie Island</u>		Date of Exam: <u>09/10/2001</u>		Exam Level: <u>RO/SRO</u>		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	Y	S	JH			
2. a. NRC K/As referenced for all questions b. Facility learning objectives reference as available	Y	S	JH			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	Y	S	JH			
4. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	Y	S	JH			
5. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	Y	S	JH
	34 <sup>43</sup> / 11	9 / 3 / 4	48 / 53 / 11			
6. Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory		CIA	Y	S	JH
	45 <sup>43</sup> / 11		55 <sup>57</sup> / 11			
7. References/handouts provided do not give away answers	Y	S	JH			
8. 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	Y	S	JH			
9. Question psychometric quality and format meet ES, Appendix B, guidelines	Y	S	JH			
10. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	Y	S	JH			
Printed Name / Signature			Date			
a. Author	<u>JOSEPH LOESCH</u> / <i>[Signature]</i>			<u>7/19/01</u>		
b. Facility Reviewer(*)	<u>DAVE SMITH</u> / <i>[Signature]</i>			<u>7/20/01</u>		
c. NRC Chief Examiner(#)	<u>JAY HOPKIN</u> / <i>[Signature]</i>			<u>9-6-01</u>		
d. NRC Regional Supervisor	<u>DAVID E. HILLS</u> / <i>[Signature]</i>			<u>9-5-01</u>		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.						

Facility: <u>Prairie Island</u>		Date of Exam: <u>09/10/2001</u>		Exam Level: <u>RO(SRO)</u>		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	Y	S	JH			
2. a. NRC K/As referenced for all questions b. Facility learning objectives reference as available	Y	S	JH			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	Y	S	JH			
4. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	Y	S	JH			
5. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	Y	S	JH
	<u>35</u> <del>24</del> <u>30</u>	<u>10</u> <del>15</del>	<u>55</u>			
6. Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory		CIA	Y	S	JH
	<u>45</u> <u>49</u>		<u>51</u> <u>55</u> <u>gr</u>			
7. References/handouts provided do not give away answers	Y	S	JH			
8. 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	Y	S	JH			
9. Question psychometric quality and format meet ES, Appendix B, guidelines	Y	S	JH			
10. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	Y	S	JH			
Printed Name / Signature			Date			
a. Author	<u>JOSEPH LOESCH</u> 			<u>7/18/01</u>		
b. Facility Reviewer(*)	<u>David Smith</u> 			<u>7/20/01</u>		
c. NRC Chief Examiner(#)	<u>JAY Hepkins</u> 			<u>9-6-01</u>		
d. NRC Regional Supervisor	<u>David E. G. (S) [Signature]</u>			<u>9-7-01</u>		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.						

Tier / Group	Randomly Selected K/A	Reason for Rejection
1 / 1	017 AA2.10	(RO) Replaced with <b>E07 2.4.21</b> from the RO replacement outline. The originally selected KA covers a topic already covered by another selected KA (015 AK3.03). Since the subject is already covered and no 017 APE KA was selected on the replacement outline, KA E07 2.4.21 from the same Tier and Group was selected. This KA was selected by priority since the KA had been suppressed for generation on the original outline.
1 / 1	040 AA2.03	(SRO) Replaced with <b>E09 EA2.1</b> from the SRO replacement outline. A question at the SRO-only level could not be developed that would differentiate between competent and less-than-competent SROs. There were no 040 APE statements available from the replacement outline, so KA E09 EA2.1 from the same Tier and Group was selected as an appropriate SRO-only level KA from an EPE not previously selected on the SRO outline.
1 / 1	067 AA2.09	(SRO) Replaced with <b>067 2.4.6</b> from the SRO replacement outline. A question at the SRO-only level could not be developed that would differentiate between competent and less-than-competent SROs. KA 067 2.4.6 was selected from replacement outline as an appropriate SRO-Only level KA. This KA was also selected by priority since it had been suppressed for generation on the original outline.
1 / 2 (RO) 1 / 1 (SRO)	003 AK1.16	(BOTH) Replaced with <b>029 2.4.8</b> from the SRO replacement outline and <b>038 2.4.13</b> from the RO replacement outline. A question with operational significance could not be developed since MTC is not specifically addressed for dropped control rod at Prairie Island. There were no 003 APE KAs selected on replacement outlines. Since the KA is in two different groups, and no effective KA was randomly selected to fit this condition, two different KAs (one RO GP 2 and one SRO GP 1) were selected from the replacement outlines. The KAs were 038 2.4.13 (RO-only) and 029 2.4.8 (SRO-only). These KAs were selected by priority since they had been suppressed for generation on the initial outline.
1 / 2	061 AA1.01	(BOTH) Replaced with <b>033 AA1.02</b> from the SRO/RO replacement outlines. The selected KA is not applicable to Prairie Island because the ARMS has no automatic actuation's associated with it. There were no 061 APE KAs selected on the replacement outline, so KA 033 AA1.02 from the same Tier and Group was selected as an appropriate replacement KA (same KA grouping).
1 / 2	065 AA2.04	(SRO) Replaced with <b>025 2.2.25</b> from the 2 <sup>nd</sup> SRO replacement outline. A question at the SRO-only level could not be developed that would differentiate between competent and less-than-competent SROs. Also this was the condition for the same APE KA available from the replacement outline, 061 2.4.45. There were no acceptable SRO-Only KAs available from the replacement outline, so a second random SRO outline was generated and checked for applicability. Since no 065 APE KA was included on this outline, 025 2.2.25 from the same Tier and Group was selected as an appropriate SRO-only level KA from an APE not previously selected on the original SRO outline.
1 / 3	036 2.4.8	(SRO) Replaced with <b>028 AK2.02</b> from the SRO replacement outline. The selected KA is not applicable to Prairie Island because the EOPs are not used during fuel handling incidents. The AOPs for fuel handling incidents are independent and cover all aspects involved. There were no 036 APE KAs selected on the replacement outline, so KA 028 AK2.02 from the same Tier and Group was selected as an appropriate SRO-only level KA, and this APE had not been sampled on the original outline.
2 / 1	001 K5.73	(RO) Replaced with <b>013 K2.01</b> from the RO replacement outline. The selected KA topic is covered in the Operating portion of the examination, involving actions for rod exercise. KA 013 K2.01 was selected from the same Tier and Group in the replacement outline.
2 / 1	004 A3.12	(BOTH) Replaced with <b>004 K3.01</b> from the 2 <sup>nd</sup> SRO/RO replacement outlines. The selected KA covers a topic already covered by another selected KA and question (004 K4.03) concerning the letdown valves that provide protection for the CVCS demins. An acceptable KA was not generated on the replacement outline for SYS 004, so KA 004 K3.01 was selected from the same SYS from the second replacement SRO/RO outlines.

2 / 1	015 K1.04	(BOTH) Replaced with <b>015 A3.05</b> from the RO replacement outline. The selected KA topic does not apply to Prairie Island. No relationship exists between the NIS and the ESF system, however the outputs from NIS do feed into RPS. KA 015 A3.05 was selected from the same SYS in the replacement outline.
2 / 1	059 K1.02	(BOTH) Replaced with <b>059 A4.08</b> from the RO replacement outline. The selected KA covers the topic already covered by another selected KA and question (059 K3.02) concerning relationship and cause/effect between Main Feedwater and AFW Systems. KA 059 A4.08 was selected from the same SYS in the replacement outline.
2 / 1	061 K6.01	(BOTH) Replaced with <b>061 A1.03</b> from the SRO/RO replacement outlines. The selected KA is not applicable at Prairie Island because controllers are not used in the AFW system. Motor valve manual positioners are used, however a question that differentiated between competent operators could not be developed that fit the KA (too easy). KA 061 A1.03 was selected from the same system in the replacement outline.
2 / 1	068 K4.01	(BOTH) Replaced with <b>068 K6.10</b> from the SRO/RO replacement outlines. An operationally valid question could not be developed to satisfy the given KA. Prairie Island operators do not handle hot, acidic, and radioactive liquids. KA 068 K6.10 was selected from the same SYS in the replacement outlines.
2 / 1	072 K4.03	(RO) Replaced with <b>072 A4.02</b> from the RO replacement outline. The selected KA is not applicable to Prairie Island in that the ARMS has no relationship/interlocks associated with the Plant Vent system. KA 072 A4.02 was selected from the same SYS in the replacement outline.
2 / 1	072 A1.01	(BOTH) Replaced with <b>001 K1.03</b> from the SRO/RO replacement outlines. Following a review of the entire outline for balance of coverage across all systems and categories, it was discovered that concepts relating to radiation monitoring were covered numerous times and the control rod drive system was not sampled in the original outline. Also, following outline changes, category K1 in tier 2 of the SRO outline had only one topic, therefore 001 K1.03 was chosen from the replacement outline.
2 / 2	029 K1.01	(BOTH) Replaced with <b>062 K4.02</b> from the RO replacement outline. The containment purge system was already sampled in tier 3. K/A 2.3.9. Additionally, the originally sampled K/A referred to radiation monitors resulting in the exam being unbalanced. KA 062 K4.02 was selected from the same tier and group in the replacement outline for a system that was not selected in the original outline. (AC Electrical Dist.)
2 / 3	045 2.1.14	(SRO) Replaced with <b>041 2.4.45</b> from the SRO replacement outline. A question at the SRO-only level could not be developed that would differentiate between competent and less-than-competent SROs. All system 045 K/As selected on the replacement outline were also not SRO specific, therefore KA 041 2.4.45 in the same Group was selected from replacement outline.
3 / 1	2.1.31	(BOTH) Replaced with <b>2.1.18</b> from the SRO/RO replacement outlines. The selected KA covers a topic already covered by the operating exam (planned RO Admin JPM). Additionally, the simulator scenarios contain malfunctions that require SROs to direct locating control room switches. This is the more appropriate format for locating and identifying the position of switches, etc. The nearest appropriate KA as available on the replacement outline was 2.1.18.
1 / 2	008 AK2.01	(RO) Replaced KA <b>008 2.4.8</b> with KA <b>008 AK2.01</b> (selected from replacement outline). Unable to develop an operationally valid question for the originally selected K/A at the RO level. <i>Replaced After Review fl Q=81 pr</i>
1 / 3	056 2.1.32	(SRO) Replaced KA <b>036 AA2.03</b> with KA <b>056 2.1.32</b> (selected from replacement outline). Unable to develop an operationally valid question for the originally selected K/A at the RO level. <i>Replaced After Review fl Q=93 pr</i>
1 / 1	040 AK3.03	(BOTH) Replaced KA <b>068 AK3.08</b> with KA <b>040 AK3.03</b> (selected from replacement outline). Unable to develop an operationally valid question for the originally selected K/A. <i>Replaced After Review fl Q=111 pr</i>

Facility: PRAIRIE ISLAND		Date of Exam: 09/21/01		Exam Level: RO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	gH	N/A	DP		
2. Answer key changes and question deletions justified and documented	gH	N/A	DP		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	gH	N/A	DP		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	gH	N/A	DP		
5. All other failing examinations checked to ensure that grades are justified	gH	N/A	DP		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	gH	N/A	DP		
		Printed Name / Signature	Date		
a. NRC Grader	Jay A. Hopkins/	<u>Jay A. Hopkins</u>	<u>10/17/01</u>		
b. Facility Reviewer(*)	N/A	<u>N/A</u>	<u>N/A</u>		
c. NRC Chief Examiner (*)	David L. Pelton/	<u>DP</u>	<u>10/17/01</u>		
d. NRC Supervisor (*)	David E. Hills/	<u>DEH</u>	<u>10/18/01</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: PRAIRIE ISLAND		Date of Exam: 09/21/01		Exam Level: SRO	
Item Description			Initials		
			a	b	c
1.	Clean answer sheets copied before grading	JH	N/A	DHP	
2.	Answer key changes and question deletions justified and documented	JH	N/A	DHP	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	JH	N/A	DHP	
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	JH	N/A	DHP	
5.	All other failing examinations checked to ensure that grades are justified	JH	N/A	DHP	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	JH	N/A	DHP	
		Printed Name / Signature		Date	
a.	NRC Grader	Jay A. Hopkins/ <u>Jay A. Hopkins</u>		<u>10/17/01</u>	
b.	Facility Reviewer(*)	N/A		N/A	
c.	NRC Chief Examiner (*)	David L. Pelton/ <u>David L. Pelton</u>		<u>10/17/01</u>	
d.	NRC Supervisor (*)	David E. Hills/ <u>David E. Hills</u>		<u>10/18/01</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					