

VARIOUS CHECKLISTS

FOR THE PRAIRIE ISLAND INITIAL EXAMINATION - SEP 2003

Facility: <u>Praine Island</u>		Date of Examination: <u>9/8-19/2008</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)	SP
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	SP
-120	3. Facility contact briefed on security & other requirements (C.2.c)	SP
-120	4. Corporate notification letter sent (C.2.d)	SP
[-90]	[5. Reference material due (C.1.e; C.3.c)]	SP
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	SP
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	SP
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	SP
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	SP
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	SP
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	SP
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	SP
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	SP
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	SP
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	SP
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	SP
<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>		

Facility: Prairie Island		Date of Examination: 09/08/2003		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	Per	ASL	48
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	Per	ASL	48
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Per	ASL	48
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	Per	ASL	48
2. S I M	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	Per	ASL	48
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated on subsequent days.	Per	ASL	48
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	Per	ASL	48
3. W /	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	Per	ASL	48
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 4-6 (2-3 for SRO-U) of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	Per	ASL	48
	c. Verify that the required administrative topics are covered.	Per	ASL	48
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	Per	ASL	48
	e. Verify that the required administrative topics are covered.	Per	ASL	48
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	Per	ASL	48
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	Per	ASL	48
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	Per	ASL	48
	d. Check for duplication and overlap among exam sections.	Per	ASL	48
	e. Check the entire exam for balance of coverage.	Per	ASL	48
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	Per	ASL	48
Printed Name / Signature		Date		
a. Author	PAUL COOPER / Paul Cooper	9/3/03		
b. Facility Reviewer (*)	James D Lash / James D Lash	9/3/03		
c. NRC Chief Examiner (#)	Charles Phillips / Charles Phillips	9/4/03		
d. NRC Supervisor	Reginald Linksbury / Reginald Linksbury	9/4/03		
Note: * Not applicable for NRC-developed examinations # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.				

Enclosure 4

Forms ES-201-3
"Examination Security Agreement"

September 24, 2003

4 Pages Follow

PRAIRIE ISLAND TRAINING CENTER		PITC 218 Q
TITLE:	EXAMINATION SECURITY AGREEMENT	Revision 0
		Page 1 of 1

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing requalification examination scheduled for the week(s) indicated in this agreement as of the date of my signature. I agree that I will not knowingly divulge any information about this examination to any unauthorized persons. An unauthorized person is any individual who has not been approved by the NRC chief examiner to receive specialized knowledge of the examination. I understand that I am not to participate in any instruction, tutoring, or examination involving those operators scheduled to be administered this licensing/requalification examination from this date until completion of examination administration. Furthermore, I am aware of the physical security measures and requirements (as documented in procedure PITC 3.10 "NRC Exam Security"). 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 examination(s) administered during the indicated week(s). 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 operators who were administered this licensing/requalification examination(s).

Examination Period March 28, 2003 to Sept. 22, 2003

Printed Name	Pre-Examination Certification (1)	Date	Post-Examination Certification (2)	Date
PAUL COOPER	<i>Paul Cooper</i>	3/28/03	<i>Paul Cooper</i>	9/18/03
ROBERT K GILLESPIE	<i>Robert K Gillespie</i>	4-1-03	<i>Robert K Gillespie</i>	9-20-03
Karen Coulson	<i>Karen Coulson</i>	4-2-03	<i>Karen Coulson</i>	9-22-03
Mark Loosbrack	<i>Mark A. Loosbrack</i>	5/2/03	<i>Mark A. Loosbrack</i>	9/21/03
Dennis Westphal	<i>Dennis Westphal</i>	5/19/03		
Jeff Gehlhar	<i>Jeff Gehlhar</i>	6/2/03	<i>Jeff Gehlhar</i>	9/18/03
Scott Whitson	<i>Scott Whitson</i>	6/2/03	<i>Scott Whitson</i>	9/18/03
MIKE GARDENSKI	<i>Mike Garden</i>	6/2/03	<i>Mike Garden</i>	9/18/03
JOHN KEMPLES	<i>John Kemples</i>	6/11/03	<i>John Kemples</i>	9/20/03
Jeff Hankenson	<i>Jeff Hankenson</i>	6/27/03	<i>Jeff Hankenson</i>	9/21/03
GENE DAMMANN	<i>Gene Dammann</i>	6/27/03	<i>Gene Dammann</i>	9/20/03
Todd Strain	<i>Todd Strain</i>	6/28/03	<i>Todd Strain</i>	9-20-03
TIM LOSINSKI	<i>Tim Losinski</i>	6/29/03		
Kevin Rindley	<i>Kevin Rindley</i>	6/29/03	<i>Kevin S. Rindley</i>	9-21-03
WARNER ANDREWS	<i>W. Andrews</i>	7/13/03	<i>W. Andrews</i>	9/21/03

PRAIRIE ISLAND TRAINING CENTER		PITC 218 Q
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Examination Period

March 28, 2003

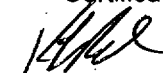
to

Sept. 22, 2003

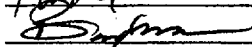
Printed Name

Pre-Examination
Certification (1)Post-Examination
Certification (2)

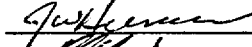
KEVIN BACH

Date 7/13/03Date 9/21/03

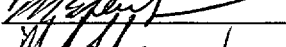
Jeff Baartman

Date 7-13-03Date 9-20-03

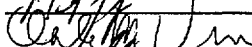
Jeff Human

Date 7-13-03Date 9-22-03

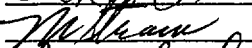
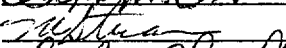
Mark Jenkin

Date 7-13-03Date 9-21-03

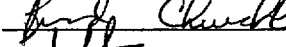
Mark J Jones

Date 8-7-03Date 9-22-03

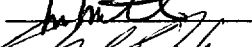
Dale M. Vincent

Date 8/7/03Date 9/22/03

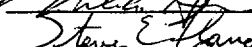
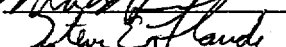
Morde Strain

Date 8/12/03Date 9-20-03

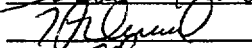
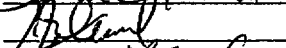
Brad Churchill

Date 8/12/03Date 9-21-03

MICHAEL MARTWOWICZ

Date 8/13/03Date 9-18-03

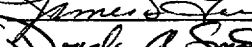
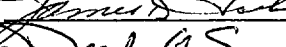
Mark Haven

Date 8-14-03Date 9-21-03

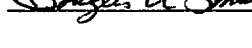
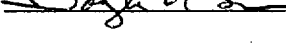
Steven Flanders

Date 8-15-03Date 9-21-03

TIMOTHY J. McDONNELL

Date 8/19/03Date 9/19/03

TERRILL W. BOGGS

Date 9-2-03Date 9/18/03

James D Lash

Date 9-2-03Date 9/18/03

DOUGLAS A SMITH

Date 9-3-03Date 9/21/03

Exam Security Agreement additional information:

- Dennis Westphal has mailed the facility a letter stating post-examination certification

- Tim Losinski is off-site and we are unable to contact him.

We will send post-examination certifications to the Chief Examiner as soon as they arrive.

October 10, 2003

L-PI-03-096
10 CFR 55

Mr. Chuck Phillips
Chief Examiner
USNRC, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Phillips:

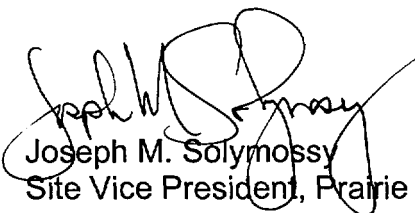
As a followup to the letter to you dated September 24, 2003, we are including two more Post-Examination Certification signatures to the Examination Security Agreement. Their signatures were unavailable at the time of the previous submittal, as noted in that submittal.

Tim Losinski's signature is contained on the normal agreement signature page, attached. Dennis Westphal's signature is contained on a separate statement page, attached also.

This letter contains no new commitments and no revisions to existing commitments.

Please contact Jim Lash (651-388-1165 ext 4053) if you have any questions related to this letter.

Sincerely,



Joseph M. Solymossy
Site Vice President, Prairie Island Nuclear Generating Plant

cc: Regional Administrator, USNRC, Region III, w/o
Roger D. Lanksbury, USNRC, Region III, w/o

Attachments: Examination Security Agreement (2 pages)

OCT 15 2003

Attachment

Examination Security Agreement, PITC 218 Q (1 page)

Post Examination Certification Statement of Dennis Westphal (1 page)

October 10, 2003

2 Pages Follow

PRAIRIE ISLAND TRAINING CENTER		PITC 218 Q
TITLE:	EXAMINATION SECURITY AGREEMENT	Revision 0
		Page 1 of 1

1. Pre-Examination

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2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the examination(s) administered during the indicated week(s). 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 operators who were administered this licensing/requalification examination(s).

Examination Period March 28, 2003 to Sept. 22, 2003

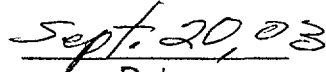
Printed Name	Pre-Examination Certification (1)	Date	Post-Examination Certification (2)	Date
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ROBERT K GILLESPIE	<i>Robert K Gillespie</i>	4-1-03	<i>Robert K Gillespie</i>	9-20-03
Karen Coulson	<i>Karen Coulson</i>	4-2-03	<i>Karen Coulson</i>	9-22-03
Mark Loosbroek	<i>Mark A. Loosbroek</i>	5/2/03	<i>Mark A. Loosbroek</i>	9/21/03
Dennis Westphal	<i>Dennis Westphal</i>	5/19/03		
Jeff Gehlhar	<i>Jeff Gehlhar</i>	6/2/03	<i>Jeff Gehlhar</i>	9/18/03
Scott Whitson	<i>Scott Whitson</i>	6/2/03	<i>Scott Whitson</i>	9/18/03
MIKE GARDZINSKI	<i>Mike Gardzinski</i>	6/2/03		
John KEMPLES	<i>John KEMPLES</i>	6/11/03		
Jeff Hawkenson	<i>Jeff Hawkenson</i>	6/27/03	<i>Jeff Hawkenson</i>	9/21/03
GENE DAMMANN	<i>Gene Dammann</i>	6/27/03	<i>Gene Dammann</i>	9/20/03
Todd Strain	<i>Todd Strain</i>	6/29/03	<i>Todd Strain</i>	9-20-03
TIM LOSINSKI	<i>Tim Losinski</i>	6/29/03	<i>Tim Losinski</i>	10-6-03
Kevin Pharty	<i>Kevin Pharty</i>	6/29/03	<i>Kevin S. Pharty</i>	9-21-03
WARNER ANDREWS	<i>Warner Andrews</i>	7/13/03	<i>Warner Andrews</i>	9/21/03

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 09/08/2003 through 09/18/2003. 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.

Exception: I did evaluate a portion of the Audit Exam as previously reported to the Lead Examiner and documented in the PI Corrective Action Program.


Dennis Westphal


Date

1. GENERAL CRITERIA		Initials		
		a	b*	c*
a.	Verify that the outline(s) fit(s) the appropriate model per ES-401.	PC	JB	GP
b.	Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	PC	JB	GP
c.	Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	PC	JB	GP
d.	Assess whether the justifications for deselected or rejected K/A statements are appropriate.	PC	JB	GP
a.	Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	PC	JB	GP
2. WALK-THROUGH CRITERIA		—	—	—
c.	To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	PC	JB	GP
a.	Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	PC	JB	GP
b.	Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 4 - 6 (2 - 3 for SRO-U) of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	PC	JB	GP
3. SIMULATOR CRITERIA		—	—	—
d.	Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	PC	JB	GP
Printed Name / Signature a. Author <u>PAUL COOPER</u> <u>Paul Cooper</u> b. Facility Reviewer(*) <u>TERAY W. BACON</u> <u>Teray Bacon</u> c. NRC Chief Examiner (#) <u>Charles Phillips</u> <u>Charles Phillips</u> d. NRC Supervisor <u>Rogers D. Linksbury</u> <u>Rogers D. Linksbury</u>		Date a. Author <u>9/2/03</u> b. Facility Reviewer(*) <u>9/3/03</u> c. NRC Chief Examiner (#) <u>9/4/03</u> d. NRC Supervisor <u>9/4/03</u>		
Note: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.				

A1612

Facility: Prairie Island Date of Exam: September 8-19, 2003 Scenario Numbers: AC-3 Operating Test No.: _____

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.	Pe	B	CB	
2.	The scenarios consist mostly of related events.	Pe	RB	CB	
3.	Each event description consists of <input checked="" type="checkbox"/> the point in the scenario when it is to be initiated <input checked="" type="checkbox"/> the malfunction(s) that are entered to initiate the event <input checked="" type="checkbox"/> the symptoms/cues that will be visible to the crew <input checked="" type="checkbox"/> the expected operator actions (by shift position) <input checked="" type="checkbox"/> the event termination point (if applicable)	Pe	RB	CB	
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.	Pe	RB	CB	
5.	The events are valid with regard to physics and thermodynamics.	Pe	RB	CB	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	Pe	RB	CB	
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.	Pe	RB	CB	
8.	The simulator modeling is not altered.	Pe	RB	CB	
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	Pe	RB	CB	
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered IAW Section D.5 of ES-301.	Pe	RB	CB	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	Pe	RB	CB	
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).	Pe	RB	CB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	Pe	RB	CB	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; see section D.5.d)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	8 / 7 / 8	Pe	RB	CB
2.	Malfunctions after EOP entry (1-2)	4 / 2 / 2	Pe	RB	CB
3.	Abnormal events (2-4)	3 / 3 / 4	Pe	RB	CB
4.	Major transients (1-2)	1 / 1 / 1	Pe	RB	CB
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 3	Pe	RB	CB
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1	Pe	RB	CB
7.	Critical tasks (2-3)	3 / 5 / 6	Pe	RB	CB
a. Author <u>PAUL COOPER</u> / <u>Paul Cooper</u>		Date <u>9/1/03</u>			
b. Facility Reviewer(*) <u>TERRY W. Bacon</u> / <u>TBacon</u>		<u>9/3/03</u>			
c. NRC Chief Examiner (#) <u>Charles Phillips</u> / <u>Charles Phillips</u>		<u>9/4/03</u>			
d. NRC Supervisor <u>Roger Linksbury</u> / <u>R Linksbury</u>		<u>9/4/03</u>			
Note: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.					

OPERATING TEST NO.: 2

SCENARIO:	EVOLUTION TYPE	RO	LEAD	SS
A	Reactivity	-	-	-
	Normal	-	-	-
	Instrument/Component	#1, #2 & #5	#3, #7 & #8	#1, #2, #3, #5, #7 & #8
	Major	#4	#4	#4
B	Reactivity	#3	-	#3
	Normal	-	-	-
	Instrument/Component	#4, #7	#1, #2 & #4	#1, #2, #4 & #7
	Major	#5	#5	#5
C	Reactivity	-	-	-
	Normal	-	-	-
	Instrument/Component	#2, #5 & #7	#1, #3 & #8	#1, #2, #3, #5, #7 & #8
	Major	#4	#4	#4

This set of scenarios will be the simulator exam for 1 group composed of three SRO-I.

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.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.
- (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:

Paul Coaf
Charles Smith 9/4/03

Competencies	SRO			RO			BOP		
	SCENARIO			SCENARIO			SCENARIO		
	1	2	3	1	2	3	1	2	3
Interpret / Diagnose Events and Conditions	4	1,2,3	2,4,8	1,2	1,3	2,4,5,7,8	3	1,2	1,3,4,5,8
Comply With and Use Procedures (1)	4	4,5	4	1,2	2	2,8	3,4	ALL	1,3,4,8
Operate Control Boards (2)	NA	NA	NA	1,2,4,5	3,4,5,7	2,4,7,8	4,7	ALL	1,3,4,5,6
Communicate and Interact	ALL	ALL	ALL	1,2,4	ALL	2,4,5,7,8	ALL	ALL	1,3,4,5,8
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	3	1,2	2,3,8	NA	NA	NA	NA	NA	NA

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.

Author:

Paul Cooper

NRC Reviewer:

Charles J. Sullivan 9/4/03

Facility: **Prairie Island**

Scenario No.: 2003NRC-A

Op-Test No.:

Examiners:

- C.T. Phillips
- Nick Valos
- Robert Morris

Operators:

RO:
Lead:
SS:

Initial Conditions: (IC-40)

- 100% power EOC
- Turbine impulse pressure failed with S/D abnormal per C51

Turnover:

-

Event No.	Malf. No.	Event Type*	Event Description
1	VC01A	C	Loss of charging pump (RO)
2	RC21A	C	Reactor vessel flange O-ring leak (RO)
3	Various Overrides	I	Rad monitor (R-11 &12) low flow (LEAD) {T.S}
4	MS01B	M	Steam line rupture inside containment [Ramp 35% over 5 minutes]
5	FW34A/B	C	AFW pumps fail to start (RO)
5	FW32	C	Trip of MDAFW pump on manual start
6	RP06	C	MSIVs fail to auto close
6	DI-46158C DI-46159C	C	MSIVs fail to close in manual (ECA-2.1) (LEAD has CT actions)
7	CS03A/B	C	CS pumps fail to start (LEAD)
8	CS02A/B	C	Caustic addition valves fail to open (LEAD)

Critical Tasks:

- E-0 (E) Minimum containment cooling equipment
- E-0 (F) Minimum AFW flow
- ECA-2.1 (A) Reduce AFW flow

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: Prairie Island		Scenario No.: 2003NRC-B		Op-Test No.:	
<u>Examiners:</u> <ul style="list-style-type: none"> C.T. Phillips Nick Valos Robert Morris 		<u>Operators:</u> RO: Lead: SS:			
Initial Conditions: (IC-6) <ul style="list-style-type: none"> 6% power 					
Turnover: <ul style="list-style-type: none"> 					

Event No.	Malf. No.	Event Type*	Event Description
1	RX216	I	SG pressure fails (HIGH) {T.S.} (LEAD)
2	SI07A	C	SI accumulator check valve leakage (LEAD)
3	FW13A	C	Main feedwater pump trips (RO – power reduction)
4	ED18, ED19, DG07A/B	C	Loss of all AC power (ECA-0.0) with restoration from DG within 5 minutes
5	SG02A	M	SG tube rupture [10%]
6	DI-46158G	G	Associated MSIV won't close in manual (Deleted)
7	RC22A or B	C	Pressurizer PORV leaks after RCS depressurization (RO)

Critical Tasks:

- E-0 (A) Restore heat sink -OR- Manual reactor trip
- E-0 (C) Restore electrical power
- E-3 (A) Isolate ruptured SG
- E-3 (C) Depressurize RCS
- E-3 (D) Terminate SI

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: Prairie Island	Scenario No.: 2003NRC-C	Op-Test No.:
<u>Examiners:</u> <ul style="list-style-type: none"> C.T. Phillips Nick Valos Robert Morris 	<u>Operators:</u> RO: Lead: SS:	
Initial Conditions: (IC- <ul style="list-style-type: none"> 79% power Maximize pressurizer bypass spray flow Ensure pressurizer heaters are in AUTO 		
Turnover: <ul style="list-style-type: none"> 		

Event No.	Malfunction No.	Event Type*	Event Description
1	EG200	I	Generator gas temperature controller failure (LEAD)
2	RX014	I	Pressurizer low level bistable failure (No heaters) (RO)
3	CC01B	C	Running CC pump trips
3	CC02A	C	Standby CC pump fails to auto-start {T.S. 3.0.3} (LEAD)
4	MS02B	M	Main steam rupture outside containment before MSIV
5	various	C	ATWS (setup using computer assisted exercise)
6	TC01A	C	Turbine stop valve sticks open (LEAD)
7	NI04A	I	IR compensation causes P-6 failure (SR does not energize) (RO)
8	RC14	C	RCS Leak (RO/LEAD)

Critical Tasks:

- E-0 (A) Manual reactor trip
- E-0 (K) Minimum CCW pumps
- FR-S.1 (C) Negative reactivity insertion
- FR-S.1 (A) Isolate Main Turbine

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

OPERATING TEST NO.: 1

SCENARIO:	EVOLUTION TYPE	RO	LEAD	SS
A	Reactivity	-	-	-
	Normal	-	-	-
	Instrument/Component	#1, #2 & #5	#3, #7 & #8	#1, #2, #3, #5, #7 & #8
	Major	#4	#4	#4
C	Reactivity	-	-	-
	Normal	-	-	-
	Instrument/Component	#2, #5 & #7	#1, #3 & #8	#1, #2, #3, #5, #7 & #8
	Major	#4	#4	#4

This set of scenarios will be the simulator exam for 3 groups composed of a SRO-U and two ROs.

- 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.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.
 - (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:

Paul Coop

Charles, Muller 9/4/03

Competencies	SRO				RO				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret / Diagnose Events and Conditions	4	1,2	2,4	1,3	1,2	1,2	2,5	2,4	3	1,2	1,3,4	1,4
Comply With and Use Procedures (1)	4	4	4	5	1,2	2	2,5	2,4	3	ALL	1,3,4	3,5
Operate Control Boards (2)	NA	NA	NA	NA	1,2	4	2,4	2,4,5	4	ALL	1,3,4	3,5
Communicate and Interact	ALL	ALL	ALL	ALL	1,2,4	ALL	2,4,5	2,4,5	ALL	ALL	1,3,4	3,5
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	ALL	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	3	2	2	2,4	NA	NA	NA	NA	NA	NA	NA	NA

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.

Author:

Paul Cox 7/14/03

NRC Reviewer:

Charles, Plutka 7/28/03

Facility: **Prairie Island**Date of Exam: **09/8-19/2003**Exam Level: **RO/SRO**

Item Description	Initial		
	a	b*	c#
1. Questions and answers technically accurate and applicable to facility.	PEL	ADL	CF
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	PEL	ADL	CF
3. SRO questions are appropriate per Section D.2.d of ES-401	PEL	ADL	CF
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process	PEL	ADL	CF
5. 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)	PEL	ADL	CF
6. Bank use meets limits (no more than 75% from the bank at least 10 percent new, and the rest modified). Enter the actual RO / SRO-only question distribution⇒	Bank 15/1	Modified 16/3	New 44/21
7. Between 50% and 60% of the questions on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60% if the randomly selected K/As support the higher cognitive levels. Enter the actual RO / SRO question distribution ⇒	Memory 37/10	C/A 38/15	
8. References/handouts provided do not give away answers	PEL	ADL	CF
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	PEL	ADL	CF
10. Question psychometric quality and format meet ES, Appendix B, guidelines	PEL	ADL	CF
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	PEL	ADL	CF

	Printed Name / Signature	Date
a. Author	PAUL COOPER / <i>Paul Cooper</i>	9/1/03
b. Facility Reviewer (*)	James D. Lask / <i>James D. Lask</i>	9/3/03
c. NRC Chief Examiner (#)	Charles Phillips / <i>Charles Phillips</i>	9/4/03
d. NRC Regional Supervisor	Roger D. Lankford / <i>Roger D. Lankford</i>	9/4/03

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.

Enclosure 3

Form ES-403
"Written Examination Grading Quality Checklist"

September 24, 2003

1 Page Follows

Facility: <u>Prairie Island</u>		Date of Exam: <u>9/18/2003</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>PC</u>	<u>A</u>	<u>g**</u>		
2. Answer key changes and question deletions justified and documented	<u>PC</u>	<u>A</u>	<u>g</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>PC</u>	<u>A</u>	<u>g</u>		
4. Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	<u>PC</u>	<u>A</u>	<u>g</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>PC</u>	<u>A</u>	<u>g</u>		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>PC</u>	<u>A</u>	<u>g</u>		

	Printed Name / Signature	Date
a. Grader	<u>Richard Bettelheim</u> <u>PAUL COOPER</u>	<u>9/24/03</u>
b. Facility Reviewer(*)	<u>James D. Last</u>	<u>9/22/03</u>
c. NRC Chief Examiner (*)	<u>Charles J. Sullivan</u>	<u>10/20/03</u>
d. NRC Supervisor (*)	<u>JB Lane</u>	<u>10/24/03</u>

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.

** Answer sheets were copied before hand grading but not before machine grading.