

Operations Branch Assignment Check Sheet:  
 (Includes ES-201-1 & ES-501-1 Rev. 8, Supplement 1 information)

as of: 5/21/2002

Chief: ~~S. McGroarty~~ E. Werner

9/23/02

Facility/Task: CN IN EX

Rev 8 Sep 1

Task Start Date: 6/16/2003

ITEM DESCRIPTION	DUE DATE	INIT	DATE
0 Exam/Inspection Schedule Agreement (C.1.a;C.2.a&b)	Dec 18, 2002	ATG	5/21/2002
1 NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	Dec 18, 2002	ATG	5/21/2002
2 Facility contact briefed on security & other issues (C.2.c)	Dec 18, 2002	JEW	11/25/02
3 Corp. Notification Letter Sent (C.2.d) (Exams only)	Dec 18, 2002	JEW	11/26/02
3a Inspection Announcement Letter Sent (PIR & LORT if req'd)	May 2, 2003	N/A	—
4 Task Expectations, Issues, & Standards Discussed w/ BC	Mar 18, 2003	JEW	3/18/03
5# [Reference Material Due (C.1.d;C.3.c)]	Feb 16, 2003	N/A	—
6# Integrated Exam Outlines Due (C.1.d&e;C.3.d) <sup>7/16/03</sup>	Feb 16, 2003	JEW	2/15/03
7# Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	Mar 2, 2003	JEW	2/17/03
8# Preliminary Applications Due (C.1.j;C.2.g;ES202)	May 17, 2003	JEW	5/5/03
9# Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	Apr 17, 2003	JEW	4/17/03
10# Peer Reviewer Initials As Reviewed All Parts*	Apr 27, 2003	JEW	4/28/03
11# NRC Supervisor. Initials Approving for Fac. Rev. (C.2.h;C.3.f)*	Apr 27, 2003	A	5/5/03
12# Exams Reviewed w/ Fac. (C.1.h;C.2.f&h;C.3.g) <sup>Comments sent 5/5</sup>	Apr 27, 2003	JEW	5/8/03
13# Final Appl. Due & Assign. Sheet Prepared (C.1.j;C.2.h;ES202)	Jun 2, 2003	JEW	6/2/03
14# NRC Supervisor Approved Final Exams (C.2.i;C.3.h)*	Jun 9, 2003	AT	6/5/03
15# Final Appl. Rec'd & Waivers Sent (C.2.g)	Jun 9, 2003	JEW	6/10/03
16# Proctor Rules Reviewed w/ Fac. & Written Authorized (C.3.k)	Jun 9, 2003	JEW	6/5/03
17 Exam/Insp Material to Team (C.3.i)	Jun 9, 2003	JEW	6/2/03
18# Fac. graded exam & Comments Rec'd	Jun 28, 2003	JEW	6/23/03
19# NRC Written Grading Completed	Jul 1, 2003	JEW	6/25/03
20# Examiners Finished Grading Op. Tests	Jul 1, 2003	JEW	6/25/03
21# NRC Ch. Ex. Review Completed	Jul 11, 2003	JEW	6/26/03
22 NRC BC Review Completed*	Jul 12, 2003	JEW	6/26/03
23# RPS/IP # Examinees Updated Before Report Issued	Jul 17, 2003	JEW	6/30/03
24 License/Denials Signed & Report Issued	Jul 17, 2003	JEW	7/25/03
25 Package Closed Out	Aug 7, 2003	JEW	7/17/03
Final Inspection Report Issued, Exam Package to OLA, Facility. Contact Notified of Results			

# Not required for inspections, except as noted.

\* Note Supervisor/Peer initials required.

[] Required NRC-auth. exams only.

When complete, for exams, add to pkg & fwd copy to BC, for insp, fwd orig'l to BC.

Last revised 10/15/01

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ES-201

Examination Outline  
Quality Checklist

Form ES-201-2

Facility: <u>Casper Nuclear Station</u>		Date of Examination: <u>6/16/03</u>		
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.	MM	DUP	KE
	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.	MM	DUP	KE
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	MM	DUP	KE
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	MM	DUP	KE
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.	MM	DUP	KE
	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 over successive days.	MM	DUP	KE
	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.	MM	DUP	KE
3. W / T	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.	MM	DUP	KE ①
	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) 40% 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.	MM	DUP	KE
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	MM	DUP	KE
	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 successive days.	MM	DUP	KE
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.	MM	DUP	KE
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MM	DUP	KE
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MM	DUP	KE
	d. Check for duplication and overlap among exam sections.	MM	DUP	KE
	e. Check the entire exam for balance of coverage.	MM	DUP	KE
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	MM	DUP	KE
a. Author	<u>Harley McDaniel</u>	Printed Name / Signature		Date
b. Facility Reviewer (*)	<u>Dave Peave</u>			<u>2/4/03</u>
c. NRC Chief Examiner (#)	<u>SE. Werner</u>			<u>2/4/03</u>
d. NRC Supervisor	<u>A.T. GODY</u>			<u>2/16/03</u>
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.				

① a. (4) → Discussed with Harley McDaniel - all scenarios are new and 1 hour JPM is from bank for each RO + SRO Admin Topics. All other JPMs all not new

Facility: <u>Cosper Nuclear Station</u>		Date of Exam: <u>6/13/03</u>		Exam Level: <u>RO/SRO</u>		
Item Description	Initial			a	b*	c*
	a	b*	c*			
1. Questions and answers technically accurate and applicable to facility	Am	DW	78m			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	Am	DW	78m			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	Am	DW	78m			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process						
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 checked="" 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)	Am	DW	78m			
6. 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	Am	DW	78m
	58	10	32			
7. 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	C/A		Am	DW	78m
	45	55 (17 new)				
8. References/handouts provided do not give away answers	Am	DW	78m			
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	Am	DW	78m			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	Am	DW	78m			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	Am	DW	78m			
			Printed Name / Signature		Date	
a. Author	<u>Harley A. McDaniel Sr / David Amcree</u>				<u>4/14/03</u>	
b. Facility Reviewer (*)	<u>David L. Powell / James Powell</u>				<u>4-14-03</u>	
c. NRC Chief Examiner (#)	<u>Tom McMeans / Greg [unclear]</u>				<u>5/5/03</u>	
d. NRC Regional Supervisor	<u>A. T. GODY / [unclear]</u>				<u>6/5/03</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>Coper Nuclear Station</u>		Date of Exam: <u>6/13/03</u>		Exam Level: <u>RO/SRO</u>		
Item Description	Initial			a	b*	c#
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	RM	MS	RM			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	RM	MS	RM			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	RM	MS	RM			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process						RM
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 checked="" 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)	RM	MS				RM
6. 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	RM	MS	RM
	51	9	40			
7. 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	C/A		RM	MS	RM
	45	55 (20 new)				
8. References/handouts provided do not give away answers	RM	MS	RM			
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	RM	MS	RM			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	RM	MS	RM			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	RM	MS	RM			
			Printed Name / Signature		Date	
a. Author	<u>Harley A.M. Daniel, Jr. / David Amberg</u>				<u>4/14/03</u>	
b. Facility Reviewer (*)	<u>David L. Pease / Dennis Pease</u>				<u>4-14-03</u>	
c. NRC Chief Examiner (#)	<u>Tom McKersopp / Genevieve Heale</u>				<u>5/5/03</u>	
d. NRC Regional Supervisor	<u>A.J. Gody / A.J. Gody</u>				<u>6/5/03</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>Cooper Nuclear Station</u>		Date of Examination: <u>6/16/03</u>		Operating Test Number:	
1. GENERAL CRITERIA			Initials		
			a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
2. WALK-THROUGH (CATEGORY A & B) CRITERIA			--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>· initial conditions</li> <li>· initiating cues</li> <li>· references and tools, including associated procedures</li> <li>· reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee</li> <li>· 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>	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
3. SIMULATOR (CATEGORY C) CRITERIA			--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	<u>Jan</u>	<u>DW</u>	<u>Tom</u>	
	Printed Name / Signature	Date			
a.	Author <u>Herley A. McDaniel Jr / Amy Amy</u>	<u>4/14/03</u>			
b.	Facility Reviewer(*) <u>David L. Pease / James Pease</u>	<u>4-14-03</u>			
c.	NRC Chief Examiner (#) <u>Tom Kerian / GE. Werner Kula</u>	<u>5/1/03</u>			
d.	NRC Supervisor <u>A.T. GODY / AT Gody</u>	<u>6/5/03</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.					

Facility: <i>Cooper</i>		Date of Exam: <i>6/16/03</i>		Scenario Numbers: <i>1/2/3</i>		Operating Test No.: <i>1</i>	
QUALITATIVE ATTRIBUTES			Initials				
			a	b*	c#		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
2.	The scenarios consist mostly of related events.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
3.	Each event description consists of <ul style="list-style-type: none"> <li>• the point in the scenario when it is to be initiated</li> <li>• the malfunction(s) that are entered to initiate the event</li> <li>• the symptoms/cues that will be visible to the crew</li> <li>• the expected operator actions (by shift position)</li> <li>• the event termination point (if applicable)</li> </ul>	<i>MM</i>	<i>DS</i>	<i>JM</i>			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
5.	The events are valid with regard to physics and thermodynamics.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
8.	The simulator modeling is not altered.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
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.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<i>MM</i>	<i>DS</i>	<i>JM</i>			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	<i>MM</i>	<i>DS</i>	<i>JM</i>			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>MM</i>	<i>DS</i>	<i>JM</i>			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes					
1.	Total malfunctions (5-8)	<i>6</i>	<i>7</i>	<i>6</i>	<i>DS</i>	<i>JM</i>	
2.	Malfunctions after EOP entry (1-2)	<i>2</i>	<i>2</i>	<i>2</i>	<i>DS</i>	<i>JM</i>	
3.	Abnormal events (2-4)	<i>2</i>	<i>2</i>	<i>2</i>	<i>DS</i>	<i>JM</i>	
4.	Major transients (1-2)	<i>1</i>	<i>2</i>	<i>1</i>	<i>DS</i>	<i>JM</i>	
5.	EOPs entered/requiring substantive actions (1-2)	<i>2</i>	<i>2</i>	<i>2</i>	<i>DS</i>	<i>JM</i>	
6.	EOP contingencies requiring substantive actions (0-2)	<i>1</i>	<i>0</i>	<i>1</i>	<i>DS</i>	<i>JM</i>	
7.	Critical tasks (2-3)	<i>2</i>	<i>3</i>	<i>3</i>	<i>DS</i>	<i>JM</i>	

Reactor Operator

RO1, RO3, ~~RO5~~ <sup>new</sup>

OPERATING TEST NO.:

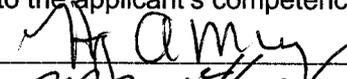
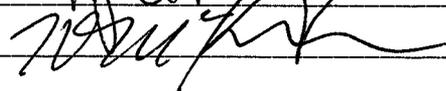
Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			①	②	3	4
RO	Reactivity	1	1	0		
	Normal	1	0	1		
	Instrument / Component	4	2	2		
	Major	1	1	2		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

Total  
1  
1  
4  
3

- 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 toward the minimum requirement.

Author:

NRC Reviewer:

Reactor Operator

RO2, ~~RO4~~, ~~RO6~~  
*the the*

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			①	2	3	4
RO	Reactivity	1	0	1		
	Normal	1	1	0		
	Instrument / Component	4	3	2		
	Major	1	1	2		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

Total

1  
1  
5  
3

- 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 toward the minimum requirement.

Author:

NRC Reviewer:

*Samery*  
 \_\_\_\_\_  
*[Signature]*  
 \_\_\_\_\_

UPGRADE  
SRO

USRO1 & USRO2

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			①	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0	0			
	Normal	1	1			
	Instrument / Component	2	5			
	Major	1	1			

Total

0  
1  
5  
1

- 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 toward the minimum requirement.

Author:

NRC Reviewer:

*[Handwritten Signature]*  
 \_\_\_\_\_  
*[Handwritten Signature]*  
 \_\_\_\_\_

INSTANT  
SRO

ISRO #1

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			(1)	(2)	(3)	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1		1	0	
	Normal	0		0	1	
	Instrument / Component	2		2	4	
	Major	1		2	1	
SRO-I						
As SRO	Reactivity	0	0			
	Normal	1	1			
	Instrument / Component	2	5			
	Major	1	1			
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

Total

1  
1  
6  
3  
0  
1  
5  
1

- 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 toward the minimum requirement.

Author:

NRC Reviewer:

*[Handwritten Signature]*  
\_\_\_\_\_

*[Handwritten Signature]*  
\_\_\_\_\_

INSTANT  
SRO

ISRO #2

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			(1)	(2)	(3)	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1	1		0	
	Normal	0	0		1	
	Instrument / Component	2	2		4	
	Major	1	1		1	
SRO-I	Reactivity	0		0		
	Normal	1		1		
	Instrument / Component	2		<del>2</del> <sup>10</sup>		
	Major	1		2		
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

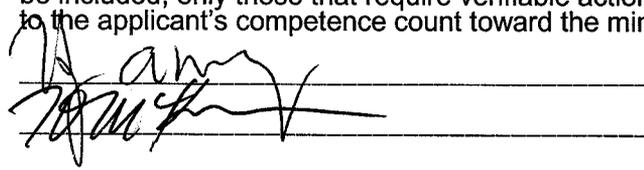
Total

1  
1  
6  
2  
0  
1  
4  
1

- 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 toward the minimum requirement.

Author:

NRC Reviewer:



INSTANT  
SRO

ISRO #3

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			(1)	(2)	(3)	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1	0		1	
	Normal	0	1		0	
	Instrument / Component	2	3		2	
	Major	1	1		1	
SRO-I	Reactivity	0		0		
	Normal	1		1		
	Instrument / Component	2		4		
	Major	1		2		
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

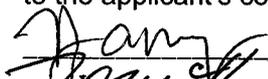
Total

1  
1  
5  
2  
0  
1  
4  
2

- 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 toward the minimum requirement.

Author:

NRC Reviewer:


Competencies	RO #1 Applicant #1 (RO/SRO-I/SRO-U)				RO #2 Applicant #2 (RO/SRO-I/SRO-U)				RO #3 Applicant #3 (RO/SRO-I/SRO-U)			
	SCENARIO				SCENARIO				SCENARIO			
	(1)	(2)	3	4	(1)	(2)	3	4	(1)	(2)	3	4
Understand and Interpret Annunciators and Alarms	4	3			3	2			4	3		
Diagnose Events and Conditions	4,7	3			3,8	2			4,7	3		
Understand Plant and System Response	2	3,6			1	2			2	3,6		
Comply With and Use Procedures (1)	2,4	1,5			1	4			3,4	1,5		
Operate Control Boards (2)	3,4	1,6			1,5	4			3,4	1,6		
Communicate and Interact With the Crew	6,7	4,5 7			6	4,7 3			6,7	4,5 7		
Demonstrate Supervisory Ability (3)	N/A	N/A			N/A	N/A			N/A	N/A		
Comply With and Use Tech. Specs. (3)	N/A	N/A			N/A	N/A			N/A	N/A		

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: A. amy

NRC Reviewer: [Signature]

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

*[Handwritten Signature]*

NRC Reviewer:

*[Handwritten Signature]*

Competencies	ISRO #1				ISRO #2				ISRO #3			
	Applicant #1 RO/SRO-I/SRO-U				Applicant #2 RO/SRO-I/SRO-U				Applicant #3 RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	①	②	③	4	①	②	③	4	①	②	③	4
Understand and Interpret Annunciators and Alarms	3,4,6	2	3,4		4	2,3,4,7	3,4		3	3,3,4	3,4	
Diagnose Events and Conditions	3,4,6	2	3,4		4,7	4,3,4,7	3,4		3,3	3,3,4,7	3,4	
Understand Plant and System Response	3,4	2	2,4		2	2,3,4,7	2,4		1	2,3,4,7	3,4	
Comply With and Use Procedures (1)	2,3,4	4	3,2		2	4,7	2		1	4,7	3,4	
Operate Control Boards (2)	N/A	4	4,2		2	N/A	3,2		1,5	N/A	3,4	
Communicate and Interact With the Crew	2,3,6	4,7,7	4,6,7,8		6,7	4,3,6,7	4,6,7,8		6	4,5,6,7	4,6,8	
Demonstrate Supervisory Ability (3)	2,3,6	N/A	N/A		N/A	4,5,6,7	N/A		N/A	4,5,6,7	N/A	
Comply With and Use Tech. Specs. (3)	3	N/A	N/A		N/A	2	N/A		N/A	2	N/A	

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:

*[Handwritten Signature]*

NRC Reviewer:

*[Handwritten Signature]*

Facility: <u>Cooper</u>		Date of Exam: <u>6/13/03</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>HAM</u>	<u>DW</u>	<u>Stu</u>		
2. Answer key changes and question deletions justified and documented	<u>HAM</u>	<u>DW</u>	<u>Stu</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>HAM</u>	<u>DW</u>	<u>Stu</u>		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	<u>HAM</u>	<u>DW</u>	<u>N/A Stu</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>HAM</u>	<u>DW</u>	<u>N/A Stu</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>HAM</u>	<u>DW</u>	<u>Stu</u>		
Printed Name / Signature	Date				
a. Grader	<u>Harley A. McDaniel Jr / [Signature]</u>		<u>6/20/03</u>		
b. Facility Reviewer(*)	<u>David L. Pease / [Signature]</u>		<u>6/20/03</u>		
c. NRC Chief Examiner (*)	<u>G.E. Werner / [Signature]</u>		<u>6/24/03</u>		
d. NRC Supervisor (*)	<u>Gary W. Johnston / [Signature]</u> <u>for A.T. Gohary</u>		<u>6/25/03</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: <u>Cooper</u>		Date of Exam: <u>6/13/03</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>DM</u>	<u>DP</u>	<u>DK</u>		
2. Answer key changes and question deletions justified and documented	<u>DM</u>	<u>DP</u>	<u>DK</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>DM</u>	<u>DP</u>	<u>DK</u>		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	<u>DM</u>	<u>DP</u>	<u>DK</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>DM</u>	<u>DP</u>	<u>DK</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>DM</u>	<u>DP</u>	<u>DK</u>		
Printed Name / Signature		Date			
a. Grader	<u>Harley A. McDaniel Jr / [Signature]</u>	<u>6/20/03</u>			
b. Facility Reviewer(*)	<u>David L. Peave / [Signature]</u>	<u>6-20-03</u>			
c. NRC Chief Examiner (*)	<u>G. E. Werner / [Signature]</u>	<u>6/24/03</u>			
d. NRC Supervisor (*)	<u>Gary W. Johnston / [Signature]</u> <u>for A.T. Gody</u>	<u>6/25/03</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

## Operator Licensing Exam Schedule

From 10/01/2002 To 09/30/2003

Region: 4

Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
05/26/2003	Cooper / 05000298 / 2003301 TAC #: X02234		Prep		WERNER, G E.	SANCHEZ, ALFRED WERNER, G E.
06/16/2003	Cooper / 05000298 / 2003301 TAC #: X02234	RO - 3 SROU - 2	SROI - 3 Admin	FFF	WERNER, G E.	BUNDY, HOWARD F. SANCHEZ, ALFRED WERNER, G E.
06/23/2003	Cooper / 05000298 / 2003301 TAC #: X02234		Doc		WERNER, G E.	BUNDY, HOWARD F. SANCHEZ, ALFRED WERNER, G E.

Sites: CNS

Orgs: 4620

Exam Author: ALL

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/16/03 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 6/16/03. 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. Gregory P Jensen	Exam Developer	<i>[Signature]</i>	1-13-03		
2. Harry M David	Nuclear Instructor I	<i>[Signature]</i>	1-15-03	<i>[Signature]</i>	6-19-03
3. Janet Pease	Assistant Operations Manager	<i>[Signature]</i>	1-30-03	<i>[Signature]</i>	6-20-03
*4. Ken McCall	DEVELOPER AUDIT EXAM	<i>[Signature]</i>	1-30-03		
*5. MARKS HANSEN	Developer Audit Exam	<i>[Signature]</i>	1-3-03	<i>[Signature]</i>	6-30-03
6. Craig Frenzel	Database Administrator	<i>[Signature]</i>	2-7-03	<i>[Signature]</i>	6/25/03
7. Don Dea	Simulator	<i>[Signature]</i>	2-28-03	<i>[Signature]</i>	6/25/03
8. Ron Conaway	SIMULATOR	<i>[Signature]</i>	2-28-03	<i>[Signature]</i>	6/24/03
*9. Dave Werner	Instructor	<i>[Signature]</i>	3/4/03	<i>[Signature]</i>	6/20/03
10. BRIAN WATKIN	Simulator Specialist	<i>[Signature]</i>	3/6/03	<i>[Signature]</i>	6/19/03
11. BILL BOWLES	SR INSTRUCTOR	<i>[Signature]</i>	3/7/3	<i>[Signature]</i>	6/20/03
12. Tammy Knapp	Nuclear Support	<i>[Signature]</i>	3/31/03	<i>[Signature]</i>	6/23/03
13. Jim Stough	L.O. Validation	<i>[Signature]</i>	4/7/03	<i>[Signature]</i>	6/20/03
14. JOHN R KAHANCA	EXAM VALIDATION	<i>[Signature]</i>	4/7/03	<i>[Signature]</i>	6-20-03
15. Dan Goodman	Exam Validation	<i>[Signature]</i>	4/7/03	<i>[Signature]</i>	6-24-03

NOTES: \* OPERATING EXAMINATION ONLY

\*\* Admin written question / Admin JPM only, providing JIT to crews for startup.

① See attached fax copy.

1. Pre-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. <u>LAURENCE J. DUBOIS</u>	<u>L.O. Validation</u>	<u>[Signature]</u>	<u>4-7-03</u>	<u>[Signature]</u>	<u>6/20/03</u>
2. <u>Sharon J Ketchum</u>	<u>SimSpec Documentation</u>	<u>[Signature]</u>	<u>4-7-03</u>	<u>[Signature]</u>	<u>6/20/03</u>
3. <u>Matt Kreitel</u>	<u>Sim. Maint Specialist</u>	<u>[Signature]</u>	<u>4-7-03</u>	<u>[Signature]</u>	<u>6/20/03</u>
4. <u>KRIS PETERSEN</u>	<u>TANG/VALIDATION</u>	<u>[Signature]</u>	<u>4-9-03</u>	<u>[Signature]</u>	<u>7/8/03</u>
5. <u>DAVE WERNER</u>	<u>Lead Regual Inst</u>	<u>[Signature]</u>	<u>4/9/03</u>	<u>[Signature]</u>	<u>6/20/03</u>
6. <u>MARK GONNELLA</u>	<u>L.O. INSTRUCTOR</u>	<u>[Signature]</u>	<u>5/23/03</u>	<u>[Signature]</u>	<u>6/24/03</u>
7. <u>SCOTT DELANEY</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>5/27/03</u>	<u>[Signature]</u>	<u>6/27/03</u>
8. <u>STEVE HOFF</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>5-27-03</u>	<u>[Signature]</u>	<u>7-03-03</u>
9. <u>Ron Olson</u>	<u>Lead Instructor</u>	<u>[Signature]</u>	<u>6-12-03</u>	<u>[Signature]</u>	<u>6-20-03</u>
10. <u>Jeff Boyd</u>	<u>Instructional S. Instructor</u>	<u>[Signature]</u>	<u>6/13/03</u>	<u>[Signature]</u>	<u>6/20/03</u>
11. <u>GARY DAVIS</u>	<u>Inst. Maint</u>	<u>[Signature]</u>	<u>6/12/03</u>	<u>[Signature]</u>	<u>6-23-03</u>
12. <u>David Tume</u>	<u>CRS / surrogate</u>	<u>[Signature]</u>	<u>6-17-03</u>	<u>[Signature]</u>	<u>6-20-03</u>
13.					
14.					
15.					

NOTES:

1. Pre-Examination

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3. WANCE PEAK	Assistant Operations Manager	<i>[Signature]</i>	1-30-03	<i>[Signature]</i>	6-23-03
* 4. Ken McCall	DEVELOPER AUDIT EXAM	<i>[Signature]</i>	1-30-03	<i>[Signature]</i>	6-25-03
* 5. MARK S. HANSEN	Developer Audit Exam	<i>[Signature]</i>	2-3-03		
6. Craig Frenzel	Database Administrator	<i>[Signature]</i>	2-7-03		
7. Don Dea	Simulator	<i>[Signature]</i>	2-28-03		
8. Ron Conaway	SIMULATOR	<i>[Signature]</i>	2-28-03	<i>[Signature]</i>	6/24/03
* 9. Dave Weaver	Instructor	<i>[Signature]</i>	3/4/03	<i>[Signature]</i>	6/20/03
10. BRIAN WATKIN	Simulator Specialist	<i>[Signature]</i>	3/6/03	<i>[Signature]</i>	6/19/03
11. Bill BRUNES	SR OPERATOR	<i>[Signature]</i>	3/7/03	<i>[Signature]</i>	6/20/03
12. Jimmy Knapp	Nuclear Support	<i>[Signature]</i>	3/30/03	<i>[Signature]</i>	6/23/03
13. Jim Staugh	L.O. Validation	<i>[Signature]</i>	4/16/03	<i>[Signature]</i>	6/20/03
14. JOHN R KAWANEA	EXAM VALIDATION	<i>[Signature]</i>	4/21/03	<i>[Signature]</i>	6-20-03
15. Dan Goodman	Exam Validation	<i>[Signature]</i>	4/21/03	<i>[Signature]</i>	6-24-03

NOTES: \* OPERATING EXAMINATION ONLY

\*\* Admin written question / Admin JSM only, providing J2T to crews for startups.

1. Pre-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Kelli S. Morris	Technical Analyst / <sup>Email</sup> Administrator	Kelli S. Morris	6/9/03	Kelli S. Morris	6/9/03	*
2.	Lisa K. Borchers	Network Analyst / Security + <sup>Email</sup> Administrator	Lisa K. Borchers	6/9/03	Lisa K. Borchers	6/9/03	*
3.							
4.							
5.							
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12.							
13.							
14.							
15.							

NOTES: \* I have not read any email pertaining to the above.