

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

as of: 10/15/2001

Chief: T. McKernon

Facility/Task: CNS IN EX

Task Start Date: 8/5/2002

ITEM DESCRIPTION	DUE DATE	INIT	DATE
0 Exam/Inspection Schedule Agreement (C.1.a;C.2.a&b)	Feb 6, 2002	ATG	10/15/2001
1 NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	Feb 6, 2002	ATG	10/15/2001
2 Facility contact briefed on security & other issues (C.2.c)	Feb 6, 2002	Tom	2/21/02
3 Corp. Notification Letter Sent (C.2.d) (Exams only)	Feb 6, 2002	Tom	2/21/02
3a Inspection Announcement Letter Sent (PIR & LORT if req'd)	Jun 21, 2002	NA	
4 Task Expectations, Issues, & Standards Discussed w/ BC	May 7, 2002	Tom	5/2/02
5# [Reference Material Due (C.1.d;C.3.c)]	Apr 7, 2002	Tom	6/8/02
6# Integrated Exam Outlines Due (C.1.d&e;C.3.d)	Apr 27, 2002	Tom	4/24/02
7# Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	Apr 30, 2002	Tom	4/26/02
8# Preliminary Applications Due (C.1.j;C.2.g;ES202)	Jul 8, 2002	Tom	7/8/02
9# Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	Jun 6, 2002	Tom	6/8/02
10# Peer Reviewer Initials As Reviewed All Parts*	Jun 19, 2002	Tom	6/10/02 - HFB
11# NRC Supervisor. Initials Approving for Fac. Rev. (C.2.h;C.3.f)*	Jun 19, 2002	ATG	6/18/02
12# Exams Reviewed w/ Fac. (C.1.h;C.2.f&h;C.3.g)	Jun 21, 2002	Tom	6/21/02
13# Final Appl. Due & Assign. Sheet Prepared (C.1.j;C.2.h;ES202)	Jul 22, 2002	Tom	6/18/02 ✓
14# NRC Supervisor Approved Final Exams (C.2.i;C.3.h)*	Jul 29, 2002	ATG	7/20/02 ✓
15# Final Appl. Rec'd & Waivers Sent (C.2.g)	Jul 29, 2002	Tom	6/18/02 ✓
16# Proctor Rules Reviewed w/ Fac. & Written Authorized (C.3.k)	Jul 29, 2002	Tom	7/29/02 ✓
17 Exam/Insp Material to Team (C.3.i)	Jul 29, 2002	Tom	7/29/02 ✓
18# Fac. graded exam & Comments Rec'd	Aug 17, 2002	Tom	8/9/02
19# NRC Written Grading Completed	Aug 20, 2002	Tom	8/13/02
20# Examiners Finished Grading Op. Tests	Aug 20, 2002	Tom	8/14/02
21# NRC Ch. Ex. Review Completed	Aug 30, 2002	Tom	8/19/02
22 NRC BC Review Completed*	Aug 31, 2002	Tom	8/19/02
23# RPS/IP # Examinees Updated Before Report Issued	Sep 5, 2002	Tom	9/5/02
24 License/Denials Signed & Report Issued	Sep 5, 2002	Tom	9/5/02
25 Package Closed Out	Sep 26, 2002	Tom	10/2/02
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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Facility: Cooper Nuclear Station		Date of Examination: 8/5/2002		
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.	EWS	JD	JOM
	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.	EWS	JD	JOM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	EWS	JD	JOM
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	EWS	JD	JOM
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.	EWS	JD	JOM
	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.	EWS	JD	JOM
	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.	EWS	JD	JOM
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.	EWS	JD	JOM
	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.	EWS	JD	JOM
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	EWS	JD	JOM
	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.	EWS	JD	JOM
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.	EWS	JD	JOM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	EWS	JD	JOM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	EWS	JD	JOM
	d. Check for duplication and overlap among exam sections.	EWS	JD	JOM
	e. Check the entire exam for balance of coverage.	EWS	JD	JOM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	EWS	JD	JOM
a. Author	Edwin W. Bowles	Date		6/8/02
b. Facility Reviewer (*)	Mark D. Schaible			6/4/02
c. NRC Chief Examiner (#)	T. McKernon			6/18/02
d. NRC Supervisor	Anthony T. Gonyea			6/18/02
Note:	* 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 Exam: <u>8/5/2002</u> Exam Level: <u>RO/SRO</u>			
Item Description	Initial		
	a	b*	c#
1. Questions and answers technically accurate and applicable to facility	JM	Q	JM
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	JM	Q	JM
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	JM	Q	JM
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			JM
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)	JM	Q	JM
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
	RO 63 SRO 58	RO 10 SRO 9	RO 27 SRO 33
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	
	RO 43 SRO 42	RO 57 SRO 58	JM
8. References/handouts provided do not give away answers	JM	Q	JM
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	JM	Q	JM
10. Question psychometric quality and format meet ES, Appendix B, guidelines	JM	Q	JM
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	JM		JM
Printed Name / Signature			Date
a. Author	<u>Harley A. McDaniel, Jr</u>		<u>5/31/02</u>
b. Facility Reviewer (*)	<u>Marie Schaefer</u>		<u>6/15/02</u>
c. NRC Chief Examiner (#)	<u>J. M. KERNON</u>		<u>6/18/02</u>
d. NRC Regional Supervisor	<u>Al Goddy</u>		<u>6/18/02</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: Cooper Nuclear Station    Date of Exam: 8/5/2002    Scenario Numbers: 1 / 2 / 3 / A    Operating Test No.: 1		Initials		
QUALITATIVE ATTRIBUTES		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.	EWS	JA	JOM
2.	The scenarios consist mostly of related events.	EWS	JA	JOM
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>	EWS	JA	JOM
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.	EWS	JA	JOM
5.	The events are valid with regard to physics and thermodynamics.	EWS	JA	JOM
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	EWS	JA	JOM
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.	NA	JA	JOM
8.	The simulator modeling is not altered.	EWS	JA	JOM
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.	EWS	JA	JOM
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.	EWS	JA	JOM
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	EWS	JA	JOM
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).	EWS	JA	JOM
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	EWS	JA	JOM
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		
1.	Total malfunctions (5-8)	6 / 8 / 6 / 5	EWS	JA
2.	Malfunctions after EOP entry (1-2)	1 / 2 / 2 / 2	EWS	JA
3.	Abnormal events (2-4)	4 / 3 / 4 / 4	EWS	JA
4.	Major transients (1-2)	1 / 2 / 1 / 1	EWS	JA
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 3 / 3	EWS	JA
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1 / 1	EWS	JA
7.	Critical tasks (2-3)	2 / 3 / 3 / 3	EWS	JA

OPERATING TEST NO.: 1, RO-1, ISRO-1, USRO-1 (CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO #1	Reactivity	1	3			
	Normal	1		1		
	Instrument / Component	4	4,5	3,5,7		
	Major	1	6	6		

		RO		BOP	
As RO	Reactivity	1	3		3
	Normal	0		1	
	Instrument / Component	2	4,5	3,5,7	
	Major	1	6	6	
SRO-I #1					
As SRO	Reactivity	0			3
	Normal	1			1
	Instrument / Component	2			2,4,6,7
	Major	1			6

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

- 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:

Edwin W. Bond

NRC Reviewer:

J.D. McK...

OPERATING TEST NO.: 1, RO-2, ISRO-2, USRO-2 (CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO #2	Reactivity	1	3			
	Normal	1		1		
	Instrument / Component	4	4,5	3,5,7		
	Major	1	6	6		

			RO	BOP		
As RO	Reactivity	1		2		
	Normal	0			1	
	Instrument / Component	2		4,5	2,6,7	
	Major	1		6	5	
SRO-I #2						
As SRO	Reactivity	0	3			
	Normal	1	1			
	Instrument / Component	2	2,4,5,7			
	Major	1	6			

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

- 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:

Edwin W. Dore

NRC Reviewer:

J. McK...

OPERATING TEST NO.: 1, RO-3, ISRO-3 (CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO # 3	Reactivity	1		2		
	Normal	1	1			
	Instrument / Component	4	2,5,7	4,5		
	Major	1	6	6		

		BOP		RO	
As RO	Reactivity	1			3
	Normal	0	1		
	Instrument / Component	2	2,5,7		2,4,6
	Major	1	6		5
SRO-I #3					
As SRO	Reactivity	0		2	
	Normal	1		1	
	Instrument / Component	2		3,4,5,7	
	Major	1		6	

	Reactivity	0			
	Normal	1			
SRO-U	Instrument / Component	2			
	Major	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:

Edwin W. Bauer

NRC Reviewer:

Z. M. K.

OPERATING TEST NO.: 1, RO-4(CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO #4	Reactivity	1		2		
	Normal	1	1			
	Instrument / Component	4	2,5,7	4,5		
	Major	1	6	6		

As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal					
	Instrument / Component	2				
	Major					

	Reactivity	0				
	Normal	1				
SRO-U	Instrument / Component	2				
	Major	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:

Edwin W. Bauer

NRC Reviewer:

J. M. K.

OPERATING TEST NO.: 1, RO-5 (CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO # 5	Reactivity	1	3			
	Normal	1		1		
	Instrument / Component	4	4,5	3,5,7		
	Major	1	6	6		

As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

	Reactivity	0				
	Normal	1				
SRO-U	Instrument / Component	2				
	Major	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:

Edwin O. Barlow

NRC Reviewer:

? McK

OPERATING TEST NO.: 1, RO-6 (CNS)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO #6	Reactivity	1		2		
	Normal	1	1			
	Instrument / Component	4	2,5,7	4,5		
	Major	1	6	6		

As RO	Reactivity	1					
	Normal	0					
	Instrument / Component	2					
	Major	1					
SRO-I							
As SRO	Reactivity	0					
	Normal	1					
	Instrument / Component	2					
	Major	1					

SRO-U	Reactivity	0					
	Normal	1					
	Instrument / Component	2					
	Major	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:

Edwin W. Dault

NRC Reviewer:

T. McK...

Cooper Nuclear Station	Applicant RO #1				Applicant RO #2			
Competencies	SCENARIO				SCENARIO			
	1 RO	2 BOP			1 RO	2 BOP		
Understand and Interpret Annunciators and Alarms	4,5	3,5			4,5	3,5		
Diagnose Events and Conditions	4,6	3,5,6 ,7			4,6	3,5,6 ,7		
Understand Plant and System Response	2,5	3,5,7			2,5	3,5,7		
Comply With and Use Procedures (1)	4,5	1,3			4,5	1,3		
Operate Control Boards (2)	3,4,5 ,6	1,3,5 ,6,7			3,4,5, 6	1,3,5 ,6,7		
Communicate and Interact With the Crew	3,5,6	3,5,6 ,7			3,5,6	3,5,6 ,7		
Demonstrate Supervisory Ability (3)								
Comply With and Use Tech. Specs. (3)								
<p>Notes:</p> <p>(1) Includes Technical Specification compliance for an RO.                      (2) Optional for an SRO-U.                      (3) Only applicable to SROs.</p>								

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:

Edwin W. Bevel

NRC Reviewer:

J. McK...

Cooper Nuclear Station	Applicant RO #3				Applicant RO #4			
Competencies	SCENARIO				SCENARIO			
	1 BOP	2 RO			1 BOP	2 RO		
Understand and Interpret Annunciators and Alarms	2,5	4,5			2,5	4,5		
Diagnose Events and Conditions	2,5,7	4,5,6			2,5,7	4,5,6		
Understand Plant and System Response	1,2,6	3,4,5 ,6			1,2,6	3,4,5 ,6		
Comply With and Use Procedures (1)	1,2,6	2,4,5			1,2,6	2,4,5		
Operate Control Boards (2)	1,2,5 ,6,7	2,4,6 ,7			1,2,5, 6,7	2,4,6 ,7		
Communicate and Interact With the Crew	1,2,5 ,6,7	2,3,4 ,5,6			1,2,5, 6,7	2,3,4 ,5,6		
Demonstrate Supervisory Ability (3)								
Comply With and Use Tech. Specs. (3)								
<b>Notes:</b>  (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:

*Edwin W. Bond*

NRC Reviewer:

*T. M. K.*

Cooper Nuclear Station	Applicant RO #5				Applicant RO #6			
Competencies	SCENARIO				SCENARIO			
	1 RO	2 BOP	3		1 BOP	2 RO	3	
Understand and Interpret Annunciators and Alarms	4,5	3,5			2,5	4,5		
Diagnose Events and Conditions	4,6	3,5,6 ,7			2,5,7	4,5,6		
Understand Plant and System Response	2,5	3,5,7			1,2,6	3,4,5 ,6		
Comply With and Use Procedures (1)	4,5	1,3			1,2,6	2,4,5		
Operate Control Boards (2)	3,4,5 ,6	1,3,5 ,6,7			1,2,5, 6,7	2,4,6 ,7		
Communicate and Interact With the Crew	3,5,6	3,5,6 ,7			1,2,5, 6,7	2,3,4 ,5,6		
Demonstrate Supervisory Ability (3)								
Comply With and Use Tech. Specs. (3)								
<b>Notes:</b> (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:

Edwin W. Bowler

NRC Reviewer:

T. M. K.

Cooper Nuclear Station	Applicant ISRO #1			Applicant ISRO #2		
Competencies	SCENARIO			SCENARIO		
	1 RO	2 BOP	3 SRO	1 SRO	2 RO	3 BOP
Understand and Interpret Annunciators and Alarms	4,5	3,5	2,4,5	1,2,5,6	4,5	2,5
Diagnose Events and Conditions	4,6	3,5,6,7	2,5,7	1,2,5,6, 7	4,5,6	2,5,6,7
Understand Plant and System Response	2,5	3,5,7	2,3,5	2,5,6	3,4,5,6	2,4,5
Comply With and Use Procedures (1)	4,5	1,3	2,3,4,5, 7	1,2,3,4	2,4,5	1,2,5,7
Operate Control Boards (2)	3,4,5,6	1,3,5,6, 7			2,4,6,7	1,2,5,6, 7
Communicate and Interact With the Crew	3,5,6	3,5,6,7	2,3,4,5, 6,7	1,2,3,5, 6	2,3,4,5, 6	1,2,3,5, 7
Demonstrate Supervisory Ability (3)			1,2,3,4, 5,6,7	1,2,3,5, 6		
Comply With and Use Tech. Specs. (3)			2	2,4		
<p>Notes:</p> <p>(1) Includes Technical Specification compliance for an RO.</p> <p>(2) Optional for an SRO-U.</p> <p>(3) Only applicable to SROs.</p>						

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:

*Edwin W. Beaulieu*

NRC Reviewer:

*T. McK*

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

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:

Edwin W. Basher

NRC Reviewer:

T. M. H.

Cooper Nuclear Station	Applicant ISRO #3					
Competencies	SCENARIO			SCENARIO		
	1 BOP	2 SRO	3 RO			
Understand and Interpret Annunciators and Alarms	2,5	3,4,5,6	2,4,5			
Diagnose Events and Conditions	2,5,7	3,5,6	2,4,5,6			
Understand Plant and System Response	1,2,6	3,4,5,6, 7	2,3,4			
Comply With and Use Procedures (1)	1,2,6	1,2,3,4, 5,6	3,4,5,6			
Operate Control Boards (2)	1,2,5,6, 7		2,3,4,5, 6			
Communicate and Interact With the Crew	1,2,5,6, 7	2,3,4,5, 6	2,3,4,5, 6			
Demonstrate Supervisory Ability (3)		1,2,3,4, 5,6				
Comply With and Use Tech. Specs. (3)		4				
<p>Notes:</p> <p>(1) Includes Technical Specification compliance for an RO.</p> <p>(2) Optional for an SRO-U.</p> <p>(3) Only applicable to SROs.</p>						

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:

Edwin W. Beaulieu

NRC Reviewer:

J. M. K.

Facility:		Date of Exam:		Exam Level: RO/SRO		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading			Ham	JC	Tom
2.	Answer key changes and question deletions justified and documented			Ham	JC	Tom
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			Ham	JC	Tom
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail			Ham	JC	Tom
5.	All other failing examinations checked to ensure that grades are justified			Ham	JC	Tom
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants			Ham	JC	Tom
Printed Name / Signature				Date		
a. Grader	Harley McDaniel / Amy			8/5/02		
b. Facility Reviewer(*)	John Christensen / John Christensen			8/7/02		
c. NRC Chief Examiner (*)	Tom McKERNON / T. McKern			8/13/02		
d. NRC Supervisor (*)	ANTHONY T. GORDY / AT Gordy			8/15/02		
(*) 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 07/01/2002 To 09/30/2002

Region: 4

Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
07/15/2002	Cooper / 05000298 / 2002301 TAC #: X02229		Prep		MCKERNON, THOMAS O.	MCKERNON, THOMAS O. STETKA, THOMAS F. WERNER, G E.
08/05/2002	Cooper / 05000298 / 2002301 TAC #: X02229	$\frac{4}{2}$ RO - 2 SROU - 2	Admin	FFF	MCKERNON, THOMAS O.	MCKERNON, THOMAS O. SANCHEZ, ALFRED STETKA, THOMAS F.
			Total: 7			<i>Tom</i>

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P. 01

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 Aug 5-12-02 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 Aug 5-12-02. 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. Edwin W. Bowles	Exam Development	<i>Edwin W. Bowles</i>	2/15/02	See attached	
2. Philip G. Ballaro	EXAM DEVELOPMENT	<i>Philip G. Ballaro</i>	2/15/02	See attached	
3. Ricky D. Goodrick	Exam Review	<i>Ricky D. Goodrick</i>	2/15/02	See attached	
4. Cheryl H. Marino	Clerk	<i>Cheryl H. Marino</i>	2-20-02	See attached	
5. Harley A. McDaniels	CNS Instructor/Reviewer	<i>Harley A. McDaniels</i>	3/14/02	See attached	8/13/02
6. Matt Kreitzel	CNS Simulator Maint. Specialist	<i>Matt Kreitzel</i>	3/20/02	See attached	8/12/02
7. Craig Frenzel	Database Administrator	<i>Craig Frenzel</i>	5/1/02	See attached	8/19/02
8. Mark Gannett	Validation	<i>Mark Gannett</i>	5/13/02	See attached	8/12/02
9. Brian Waddell	Simulator Support	<i>Brian Waddell</i>	5/13/02	See attached	8/19/02
10. Don Lea	Simulator Support	<i>Don Lea</i>	8/1/02	See attached	8/19/02
11. MARK SCHWABE	Work Control Operator	<i>Mark Schwabe</i>	5/2/02	See attached	8/19/02
12. KENNETH NOSAICH	WORK CONTROL OPERATOR	<i>Kenneth Nosaich</i>	5/14/02	See attached	8-23-02
13. Steve Herr	RO	<i>Steve Herr</i>	5-14-02	See attached	8-27-02
14. Matt Timmueler	Control Room Operator	<i>Matt Timmueler</i>	5-14-2	See attached	8-9-2
15. RONALD D. CONWAY	SIMULATOR SPECIALIST	<i>Ronald D. Conway</i>	5-14-02	See attached	8/9/02

NOTES:

NUREG-1021, Revision 8, Supplement 1

2/14/02

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5 Aug 2002 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 Aug 5, 2002. 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. <u>Gregory P Jensen</u>	<u>Operations Instructor/Exam Dev</u>	<u>[Signature]</u>	<u>5-18-02</u>	<u>See Attached</u>	
2. <u>Tammie Knapp</u>	<u>Nuclear Support</u>	<u>[Signature]</u>	<u>5-28-02</u>	<u>Tammie Knapp</u>	<u>8/8/02</u>
3. <u>RICHARD TANDERUP</u>	<u>SHIFT SUPERVISOR / SIMULATOR</u>	<u>[Signature]</u>	<u>5-30-02</u>	<u>Richard Tanderup</u>	<u>8/14/02</u>
4. <u>Terry L Ratzlaff</u>	<u>Shift Supervisor / Control Room</u>	<u>[Signature]</u>	<u>5-30-02</u>	<u>Terry Ratzlaff</u>	<u>8-9-02</u>
5. <u>R LEE CONNER</u>	<u>RO OPERATIONS SUPPORT</u>	<u>[Signature]</u>	<u>5-30-02</u>	<u>R Lee Conner</u>	<u>8-12-02</u>
6. <u>Dave Pearson</u>	<u>Assistant Operations Manager</u>	<u>[Signature]</u>	<u>6-3-02</u>	<u>Dave Pearson</u>	<u>8-4-02</u>
7. <u>Jim Higgins</u>	<u>Simulator Supervisor</u>	<u>[Signature]</u>	<u>7-15-02</u>	<u>Jim Higgins</u>	<u>8/8/02</u>
8. <u>Peter Orvath</u>	<u>STF</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>Peter Orvath</u>	<u>8/8/02</u>
9. <u>Josh Garuh</u>	<u>Simulator NLRPO</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>Josh Garuh</u>	<u>8/9/02</u>
10. <u>Don McGarrill</u>	<u>NLRPO</u>	<u>[Signature]</u>	<u>7-16-02</u>	<u>Don McGarrill</u>	<u>8/8/02</u>
11. <u>Paul Olson</u>	<u>Ops Instructor / Test Lead</u>	<u>[Signature]</u>	<u>8/5/02</u>	<u>Paul Olson</u>	<u>8/8/02</u>
12. <u>Gregory A Brewer</u>	<u>Instructor</u>	<u>[Signature]</u>	<u>8/2/02</u>	<u>Gregory Brewer</u>	<u>8/8/02</u>
13. <u>Sharon Kjelseten</u>	<u>Simulator Specialist</u>	<u>[Signature]</u>	<u>8/6/02</u>	<u>Sharon Kjelseten</u>	<u>8/8/02</u>
14. _____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____

NOTES:



TOTAL P. 01

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 5 Aug 2002 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 Aug 5-9-02. 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. Gordon Jensen	Operations Instructor/Exam Dev	[Signature]	5-18-02	[Signature]	8/13/02
2. [Name]	NUCLEAR SUPPORT	[Signature]	5-28-02	[Signature]	8/8/02
3. RICHARD TAUBER	Safety & Operations	[Signature]	5-30-02	[Signature]	8-9-02
4. [Name]	Shift Supervisor	[Signature]	5-30-02	[Signature]	
5. [Name]	CO	[Signature]	5-30-02	[Signature]	
6. [Name]	Assistant Operations Manager	[Signature]	6/10/02	[Signature]	8-11-02
7. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
8. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
9. [Name]	Shift Supervisor	[Signature]	7-10-02	[Signature]	8/8/02
10. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
11. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
12. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
13. [Name]	Shift Supervisor	[Signature]	7/10/02	[Signature]	8/8/02
14.					
15.					

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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 Aug 5-22 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 procedure) 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 Aug 5-22. 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. Edwin W. Banks	Exam Development	[Signature]	2/15/02	[Signature]	2/15/02
2. David C. Boland	Exam Development	[Signature]	2/15/02	[Signature]	2/15/02
3. Rick D. Goodric	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
4. Cheryl H. Perkins	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
5. Healy A. Phillips	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
6. David K. Smith	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
7. Craig F. Taylor	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
8. Mark G. Williams	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
9. Brian J. Young	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
10. Don Lee	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
11. Mark Swartz	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
12. Mark Swartz	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
13. Steve Hill	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
14. Steve Hill	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02
15. Ronald B. Lowrey	Exam Review	[Signature]	2/26/02	[Signature]	2/26/02

NOTES

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ES-201 Examination Security Agreement Form ES-201-3

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1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5-22-02 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 harvest, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from the 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 revocation of the examination 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 5-22-02 from the date that I entered into this security agreement until the completion of examination administration. I did not harvest, 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. Edwin W. Dowdy	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
2. David C. Billard	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
3. Rick D. Goodell	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
4. Cheryl H. Harvino	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
5. David J. McDonald	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
6. David J. Keitel	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
7. Craig Gehring	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
8. Don G. Anell	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
9. Guya W. Smith	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
10. Don Lee	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
11. MAER Schwabe	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
12. Kenneth Anderson	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
13. Steve Haff	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
14. Thomas J. Timmiller	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02
15. Ronald D. Cantor	Exam Department	[Signature]	5/15/02	[Signature]	5/15/02

NOTES:

NUREG-1021, Revision 8, Supplement 1

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