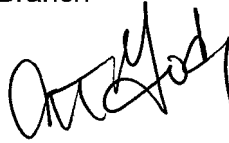


January 26, 2007

NOTE TO: Steve Garchow  
Chief Examiner, Operations Branch

FROM: Tony Gody, Chief  
Operations Branch  
Division of Reactor Safety

A handwritten signature in black ink, appearing to read 'Tony Gody', is positioned to the right of the 'FROM:' line.

SUBJECT: EXAMINATION ASSIGNMENT

You have been assigned as Chief of the Cooper Nuclear Station retake examination. The operating test has been scheduled to be completed by January January 31, 2007. Thank you for contacting the Cooper Nuclear Station facility to finalize the details of the examination. You are reminded that the RPS/IP system must be maintained to ensure that the examiners and numbers of candidates are accurate. In addition, you are reminded that only qualified examiners are permitted to conduct any part of the examination.

<b>CHIEF:</b>	Steve Garchow	<b>FACILITY:</b>	Cooper Nuclear Station	<b>DATE of OPERATING EXAM:</b>	1/29/07
Due Date	Description	Date Complete	Initials	Notes	
8/2/06	Exam Administration Date Confirmed (C.1.a; C.2.a & b)	12/06	JMB		
10/1/06	NRC Staff & Facility Contact Assigned (C.1.d; C.2.e)	12/06	JMB		
10/1/06	Facility Contact Briefed on Security & Other Req's (C.2.c)	12/06	JMB		
10/1/06	Corporate Notification Letter (ES-201 Att-3) Sent (C.2.d)	12/06	JMB	produced by Chief Examiner	
10/31/06	Reference Material Due (if NRC authored) (C.1.e; C.3.c)	NA	NA		
11/15/06	Integrated Exam Outlines Due (C.1.e & f; C.3.d)	1/15/07	JMB		
11/20/06	Outlines Review & NRC Feedback Provided (C.2.h; C.3.e)	1/18/07	JMB		
12/15/06	Draft Exams w/References Due (C.1.e,f,g,h; C.3.d)	1/15/07	JMB		
12/30/06	*Peer Reviewer Completes Review of Exam on ES-401-9	NA	NA		
12/30/06	*NRC BC Approves Feedback to Facility (C.2.h; C.3.f)	1/18/07	JMB		
12/30/06	*Exams Reviewed w/ Fac. (C.1.h; C.2.f & h; C.3.g)	1/18/07	JMB		
12/30/06	Preliminary Applications Due (C.1.i; C.2.g; ES-202)	1/15/07	JMB		
1/4/07	Preliminary Applications Reviewed (C.1.i; C.2.g)	1/16/07	JMB		
1/15/07	Final Applications Due (C.1.i; C.2.i; ES-202)	1/22/07	JMB		
1/15/07	On-Site Preparatory Week to Validate Operating Exam	1/29/07	JMB		
1/15/07	On-Site Audit (10%) of License App's (ES-202 C.2.e)	1/29/07	JMB		
1/22/07	Final Appl. OK'ed & Waiver Letters Sent (ES-204; C.2.e)	1/23/07	JMB		
1/22/07	NRC Supervisor Approved Final Exams (C.2.i; C.3.h)	1/25/07	JMB		
1/22/07	Exam Approval Letter (ES-201 Att-4) and List of Applicants (ES-201-4) Prepared (C.2.i)	1/07	JMB	produced by OLA	
1/22/07	Proctor Rules Review w/Fac. & Written Authorized (C.3.k)	NA	NA		
1/22/07	Exam Material to Exam Team (C.3.i)	NA	NA		
1/29/07	Administer Operating Exam On-Site	1/29-31/07	JMB		
2/10/07	Facility Graded Exam & Comments Received	NA	NA		
2/13/07	NRC Written Exam Grading Completed	NA	NA		
2/13/07	Examiners Document Exam Grades on ES Forms	2/1/07	JMB		
2/23/07	NRC Chief Examiner Grading Review Completed	2/1/07	JMB		
2/24/07	NRC BC Review Completed	2/1/07	JMB		
2/28/07	License/Denials Signed & Report Issued	2/1/07	JMB		
2/28/07	RPS/IP Number of Examinees Updated	1/25/07	JMB	print Report-21	
3/15/07	Examination Report Issued	2/21/07	JMB	produced by Chief Examiner	
3/22/07	Package Closed Out	2/21/07	JMB		
3/22/07	Chief QA of ADAMS and SISF review complete	2/21/07	JMB		
* Indicates the due dates are more conservative than the ES-201-1 requires.					

Facility: <u>Cooper Nuclear Station</u>		Date of Examination: <u>1-29-07</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, in accordance with ES-401.			
	b. Assess whether the outline <del>was systematically and randomly prepared</del> in accordance with Section D.1 of ES-401 and whether all K/A categories <del>are appropriately sampled</del> .			
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.			
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.			
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	RC	DF	TS
	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, and ensure that 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 that scenarios will not be repeated on subsequent days.	RC	DF	TS
	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.	RC	DF	TS
3. W /	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.			
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations			
	c. 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.			
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 sections.	RC	DF	TS
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	RC	DF	N/A
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	N/A		N/A
	d. Check for duplication and overlap among exam sections.	RC	DF	N/A
	e. Check the entire exam for balance of coverage.	RC	DF	N/A
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RC	DF	N/A
a. Author <u>Randy Carlson</u> Printed Name/Signature <u>Randy Carlson</u>		Date <u>1-10-07</u>		
b. Facility Reviewer (*) <u>David Tune</u> Printed Name/Signature <u>David Tune</u>		Date <u>1-10-07</u>		
c. NRC Chief Examiner (#) <u>Stephan Garchow</u> Printed Name/Signature <u>Stephan Garchow</u>		Date <u>1-23-07</u>		
d. NRC Supervisor <u>ANTHONY T. GODY</u> Printed Name/Signature <u>Anthony T. Gody</u>		Date <u>1-25-07</u>		
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

Facility: <u>Cooper Nuclear Station</u>		Date of Examination: <u>1-29-07</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).	RC	DL	TS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	N/A	N/A	N/A	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	RC	DL	TS	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	N/A	N/A	N/A	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RC	DL	TS	
2. Walk-Through 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>• operationally important 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>				
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.				
3. Simulator Criteria		--	--	--	
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		RC	DL	TS	
Printed Name / Signature		Date			
a.	Author <u>Randy Carlson / Randy Carlson</u>	<u>1-10-07</u>			
b.	Facility Reviewer(*) <u>David Ture / David Ture</u>	<u>1-10-07</u>			
c.	NRC Chief Examiner (#) <u>Stephen Garchow / Stephen Garchow</u>	<u>1-23-07</u>			
d.	NRC Supervisor <u>Anthony T. Gooch / Anthony T. Gooch</u>	<u>1-25-07</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 Nuclear Station</i> Date of Exam: <i>1-25-88</i> Scenario Numbers: <i>1 12 13</i> 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.	<i>RC</i>	<i>DL</i>	<i>VB</i>
2.	The scenarios consist mostly of related events.	<i>RC</i>	<i>DL</i>	<i>VB</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>RC</i>	<i>DL</i>	<i>VB</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>RC</i>	<i>DL</i>	<i>VB</i>
5.	The events are valid with regard to physics and thermodynamics.	<i>RC</i>	<i>DL</i>	<i>VB</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>RC</i>	<i>DL</i>	<i>VB</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>N/A</i>	<i>N/A</i>	<i>N/A</i>
8.	The simulator modeling is not altered.	<i>RC</i>	<i>DL</i>	<i>VB</i>
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	<i>RC</i>	<i>DL</i>	<i>VB</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.5 of ES-301.	<i>RC</i>	<i>DL</i>	<i>VB</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>RC</i>	<i>DL</i>	<i>VB</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>RC</i>	<i>DL</i>	<i>VB</i>
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>RC</i>	<i>DL</i>	<i>VB</i>
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes		
1.	Total malfunctions (5-8)	<i>5 15 1 7</i>	<i>RC</i>	<i>DL</i>
2.	Malfunctions after EOP entry (1-2)	<i>2 11 1 2</i>	<i>RC</i>	<i>DL</i>
3.	Abnormal events (2-4)	<i>3 13 1 4</i>	<i>RC</i>	<i>DL</i>
4.	Major transients (1-2)	<i>1 11 1 1</i>	<i>RC</i>	<i>DL</i>
5.	EOPs entered/requiring substantive actions (1-2)	<i>2 12 1 2</i>	<i>RC</i>	<i>DL</i>
6.	EOP contingencies requiring substantive actions (0-2)	<i>1 10 1 1</i>	<i>RC</i>	<i>DL</i>
7.	Critical tasks (2-3)	<i>2 13 1 3</i>	<i>RC</i>	<i>DL</i>

Facility: <u>Cooper Nuclear Station</u>		Date of Exam: <u>1-29-07</u>		Operating Test No.:													
A P P L I C A N T	E V E N T  T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
RO <input checked="" type="checkbox"/>	RX		1			0							1	1	1	0	
<input checked="" type="checkbox"/> SRO-I	NOR		1			0							1	1	1	1	
<input type="checkbox"/> SRO-U	I/C		3			4							7	4	4	2	
<input type="checkbox"/>	MAJ		1			1							2	2	2	1	
<input type="checkbox"/>	TS		0										0	0	2	2	
RO <input type="checkbox"/>	RX													1	1	0	
<input type="checkbox"/> SRO-I	NOR													1	1	1	
<input type="checkbox"/> SRO-U	I/C													4	4	2	
<input type="checkbox"/>	MAJ													2	2	1	
<input type="checkbox"/>	TS													0	2	2	
RO <input type="checkbox"/>	RX													1	1	0	
<input type="checkbox"/> SRO-I	NOR													1	1	1	
<input type="checkbox"/> SRO-U	I/C													4	4	2	
<input type="checkbox"/>	MAJ													2	2	1	
<input type="checkbox"/>	TS													0	2	2	
RO <input type="checkbox"/>	RX													1	1	0	
<input type="checkbox"/> SRO-I	NOR													1	1	1	
<input type="checkbox"/> SRO-U	I/C													4	4	2	
<input type="checkbox"/>	MAJ													2	2	1	
<input type="checkbox"/>	TS													0	2	2	

## Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
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 1-for-1 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 toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: <i>Cooper Nuclear Station</i>		Date of Examination: <i>1-29-07</i>		Operating Test No.:												
Competencies	APPLICANTS															
	RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	①	②	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	✓	✓														
Comply With and Use Procedures (1)	✓	✓														
Operate Control Boards (2)	✓	✓														
Communicate and Interact	✓	✓														
Demonstrate Supervisory Ability (3)																
Comply With and Use Tech. Specs. (3)																
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																

**Instructions:**

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

07:51:31

Phase Code: 5 Operational

# Operator Licensing Exam Schedule

From 01/01/2007 To 02/15/2007

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
01/29/2007	Cooper / 05000298 / 2007301 TAC #: X02372	RO - 1			GARCHOW, STEPHEN M.	GARCHOW, STEPHEN M.



Operator Licensing Exam Schedule  
From 01/01/2007 To 02/15/2007

Page 2 of 4  
01/26/2007  
Report 21  
Region: 4

07:51:31

Phase Code: 5 Operational

Summary By Date

01/2007 CNS - Cooper  
RO - 1

SROI - 0

SROU - 0

LSRO - 0

Total for Cooper: 1

Operator Licensing Exam Schedule  
From 01/01/2007 To 02/15/2007

Page 3 of 4  
01/26/2007 07:51:31  
Report 21  
Region: 4 Phase Code: 5 Operational

Summary By Site

CNS - Cooper	SROI - 0	SROU - 0	LSRO - 0	Total for Cooper: 1
RO - 1				

07:51:31

# Operator Licensing Exam Schedule

From 01/01/2007 To 02/15/2007

Region: 4      Phase Code: 5 Operational

## Summary By Region

Region 4					
RO - 1	SROI - 0	SROU - 0	LSRO - 0		Total for Region 4: 1

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 01-29-07 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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 01-29-07. 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. Randy Carlson	Instructor / Developer	<i>[Signature]</i>	01-02-07	<i>[Signature]</i>	2-1-07
2. Dawie Dwyer	Ops Trainer / Reviewer	<i>[Signature]</i>	01/04/07	<i>[Signature]</i>	1/30/07
3. Rich Goldrick	Instructor / Reviewer	<i>[Signature]</i>	1/16/07	<i>[Signature]</i>	2/1/07
4. Matt Hreivels	Simulator Specialist / Maintenance	<i>[Signature]</i>	1/18/07	<i>[Signature]</i>	1/30/07
5. Sharon Ketchison	Simulator Specialist Ops	<i>[Signature]</i>	1/18/07	<i>[Signature]</i>	2/2/07
6. Jeffrey Danning	SRO	<i>[Signature]</i>	1/19/07	<i>[Signature]</i>	2/13/07
7. Robert Alexander	RO	<i>[Signature]</i>	1/19/07	<i>[Signature]</i>	2/13/07
8. Ken Alexander	SRO	<i>[Signature]</i>	1/19/07	<i>[Signature]</i>	2/13/07
9. Roy W. Giles	STE	<i>[Signature]</i>	1/19/07	<i>[Signature]</i>	2/13/07
10. David Tene	Ops TRNG. Coordinator	<i>[Signature]</i>	1-10-07	<i>[Signature]</i>	1-12-07
11. Tammy Knapp	Ops TRNG. Clerk	<i>[Signature]</i>	1-11-07	<i>[Signature]</i>	2/8/07
12. W. M. Lawrence	Sim SRO	<i>[Signature]</i>	1/18/07	<i>[Signature]</i>	1/30/07
13. Brian Waddele	Simulator Services	<i>[Signature]</i>	1/29/07	<i>[Signature]</i>	1/30/07
14. Ed Jackson	Instructor / Validator	<i>[Signature]</i>	1/29/07	<i>[Signature]</i>	1/30/07
15. J. W. Boyd	Instructor / Validator	<i>[Signature]</i>	1/29/07	<i>[Signature]</i>	1/30/07

NOTES:

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2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Mike Joe</u>	<u>Facilitator</u>	<u>[Signature]</u>	<u>1/29/07</u>	<u>[Signature]</u>	<u>2/1/07</u>	
2. <u>Josh Yonah</u>	<u>Scrub Procedures</u>	<u>[Signature]</u>	<u>1/29/07</u>	<u>[Signature]</u>	<u>1/31/07</u>	
3. <u>Lorne S. Covington</u>	<u>Resector Engineer</u>	<u>[Signature]</u>	<u>1/29/07</u>	<u>[Signature]</u>	<u>2-8-07</u>	
4.						
5.						
6.						
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NOTES:						