

CHIEF:	Mike Murphy	FACILITY:	San Onofre Nuclear Generating Station	DATE of OPERATING EXAM:	12/17/07
Due Date	Description	Date Complete	Initials	Notes	
8/29/07	Exam Administration Date Confirmed (C.1.a; C.2.a & b)	9/4/07	JMB	Week of 12/10/07	
9/7/07	NRC Staff & Facility Contact Assigned (C.1.d; C.2.e)	8/21/07	JMB		
9/7/07	Facility Contact Briefed on Security & Other Req's (C.2.c)	9/5/07	JMB		
9/7/07	Corporate Notification Letter (ES-201 Att-3) Sent (C.2.d)	9/5/07	SMB	produced by Chief Examiner	
10/1/07	Reference Material Due (if NRC authored) (C.1.e; C.3.c)	NA	NA		
10/8/07	Integrated Exam Outlines Due (C.1.e & f; C.3.d)	N/A	NA		
10/26/07	Outlines Review & NRC Feedback Provided (c.2.h; C.3.e)	11/14	SMB		
11/9/07	Draft Exams w/References Due (C.1.e,f,g,h; C.3.d)	11/13	SMB		
11/17/07	*Peer Reviewer Completes Review of Exam on ES-401-9	NA	NA		
11/17/07	*NRC BC Approves Feedback to Facility (C.2.h; C.3.f)	NA	REN	Scenarios were OK	
11/17/07	*Exams Reviewed w/ Fac. (C.1.h;C.2.f & h; C.3.g)	11/19	SMB		
11/17/07	Preliminary Applications Due (C.1.i;C.2.g; ES-202)	11/13/07	SMB		
11/22/07	Preliminary Applications Reviewed (C.1.i;C.2.g)	11/15/07	SMB		
12/3/07	Final Applications Due (C.1.i;C.2.i;ES-202)	11/20/07	SMB		
12/3/07	On-Site Preparatory Week to Validate Operating Exam	NA	NA		
12/3/07	On-Site Audit (10%) of License App's (ES-202 C.2.e)	N/A	NA		
12/10/07	Final Appl. OK'ed & Waiver Letters Sent (ES-204; C.2.e)	12/3/07	JMB		
12/10/07	NRC Supervisor Approved Final Exams (C.2.i;C.3.h)	11/21/07	REN		
12/10/07	Exam Approval Letter (ES-201 Att-4) and List of Applicants (ES-201-4) Prepared (C.2.i)	12/03/07	SMB	produced by OLA	
12/10/07	Proctor Rules Review w/Fac. & Written Authorized (C.3.k)	NA	NA		
12/10/07	Exam Material to Exam Team (C.3.i)	11/21	SMB		
12/17/07	Administer Operating Exam On-Site	12/11	JMB		
12/29/07	Facility Graded Exam & Comments Received	NA	NA		
1/1/08	NRC Written Exam Grading Completed	NA	NA		
1/1/08	Examiners Document Exam Grades on ES Forms	12/17	SMB		
1/11/08	NRC Chief Examiner Grading Review Completed	12/17	SMB		
1/12/08	NRC BC Review Completed	~12/18	SMB		
1/16/08	License/Denials Signed & Report Issued	~12/18	SMB		
1/16/08	RPS/IP Number of Examinees Updated	8/6	SMB	print Report-21	
1/31/08	Examination Report Issued	1/18	SMB	produced by Chief Examiner	
2/7/08	Package Closed Out	8/7	SMB		
2/7/08	Chief QA of ADAMS and SISP review complete	8/7	SMB		

* Indicates the due dates are more conservative than the ES-201-1 requires.

Facility: SONGS 2 & 3	Date of Examination: 12/11/07	Operating Test Number: 1
1. GENERAL CRITERIA		Initials
		a b* c#
a. The operating test conforms to the previously approved outline; changes are consistent with sampling requirements (e.g. 10 CFR 55.45, operational importance, safety function distribution).	RY	A Smb
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RY	A Smb
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	RY	A Smb
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	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.	RY	A Smb
2. WALK-THROUGH CRITERIA		- - -
a. Each JPM includes the following, as applicable: * initial conditions * initiating cues * references and tools, including associated procedures * reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee * operationally important specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable	N/A	
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.	RY	A Smb
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.		RY A Smb
	Printed Name / Signature	Date
a. Author	Rob Hampton <i>Rob Hampton</i>	11/19/07
b. Facility Reviewer (*)	William Arbour <i>William Arbour</i>	11/19/07
c. NRC Chief Examiner (#)	Stephen Garwood <i>Stephen Garwood</i>	11/21/2007
d. NRC Supervisor	RYAN LANTZ <i>Ryan Lantz</i>	11/21/2007
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.		

Facility: SONGS 2 & 3		Date of Exam: 12/11/07		Scenario Numbers: 1/2/3		Operating Test No.: NRC	
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.			RJ	A	SMB	
2.	The scenarios consist mostly of related events.			RJ	A	SMB	
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 			RM	A	SMB	
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.			RJ	A	SMB	
5.	The events are valid with regard to physics and thermodynamics.			RJ	A	SMB	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			RJ	A	SMB	
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.			RJ	A	SMB	
8.	The simulator modeling is not altered.			RJ	A	SMB	
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.					SMB	
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.			RJ	A	SMB	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			RJ	A	SMB	
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).			RJ	A	SMB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			RJ	A	SMB	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes (Scenario)			-	-	-
		1	2	3			
1.	Total malfunctions (5-8)	8	8	8	RJ	A	SMB
2.	Malfunctions after EOP entry (1-2)	2	2	3	RJ	A	SMB
3.	Abnormal events (2-4)	4	3	3	RM	A	SMB
4.	Major transients (1-2)	1	2	1	RM	A	SMB
5.	EOPs entered/requiring substantive actions (1-2)	1	1	1	RM	A	SMB
6.	EOP contingencies requiring substantive actions (0-2)	0	1	0	RJ	A	SMB
7.	Critical tasks (2-3)	5	3	3	RM	A	SMB

Facility:		SONGS 2 and 3		Date of Exam:		12/11/07		Operating Test No.:		NRC							
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						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		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				
SROI-1	RX	-			1								1	1	1	0	
	NOR	-			-								-	1	1	1	
	I/C	2,3, 4,5			2,4, 6								7	4	4	2	
	MAJ	6			5								2	2	2	1	
	TS	1,2, 5			-								3	0	2	2	
RO-1	RX		-			-							-	1	1	0	
	NOR		-			1							1	1	1	1	
	I/C		2,4, 7			3,4, 7							6	4	4	2	
	MAJ		6			5							2	2	2	1	
	TS		-			-							-	0	2	2	
RO-2	RX			-	1								1	1	1	0	
	NOR			-	-								-	1	1	1	
	I/C			3,5, 8	2,4, 6								6	4	4	2	
	MAJ			6	5								2	2	2	1	
	TS			-	-								-	0	2	2	
	RX													1	1	0	
	NOR													1	1	1	
	I/C													4	4	2	
	MAJ													2	2	1	
	TS													0	2	2	

Instructions:

1. Circle 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 service 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: SONGS		Date of Examination: 12/11/2007		Operating Test No. NRC 1-3											
Competencies	SRO					RO (ATC)					BOP				
	SCENARIO					SCENARIO					SCENARIO				
	1	2	3			1	2	3			1	2	3		
Interpret/Diagnose Events and Conditions	1,2, 3,4, 5,6	2,3, 4,5, 6,7	2,3, 4,5, 6			1,2, 4,6, 7	2,4, 5,6	2,5, 6,8			1,3, 5,6, 8	3,4, 5,7	3,4, 6,7		
Comply With and Use Procedures (1)	ALL	ALL	ALL			2,4, 6,7	1,2, 4,5, 6	1,2, 5,6, 8			1,3, 5,6, 8	1,3, 4,5, 7	1,3, 4,6, 7		
Operate Control Boards (2)	N/A	N/A	N/A			2,4, 6,7	1,2, 4,5, 6	1,2, 5,6, 8			1,3, 5,6, 8	1,3, 4,5, 7	1,3, 4,6, 7		
Communicate and Interact	ALL	ALL	ALL			1,2, 4,5, 6,7	1,2, 4,5, 6,7	1,2, 3,5, 6,8			1,3, 5,6, 8	1,3, 4,5, 6,7	1,2, 3,4, 6,7		
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL			N/A	N/A	N/A			N/A	N/A	N/A		
Comply With and Use Tech. Specs. (3)	1,2, 5	2,3, 4	3,4, 5			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 applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Operator Licensing Exam Schedule

From 12/01/2007 To 01/30/2008

Region: 4

Phase Code: 5

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
12/10/2007	San Onofre / 05000361 / 2007302 TAC #: X02335	RO - 2	SROI - 1	Admin	FFF	GARCHOW, STEPHEN M. GARCHOW, STEPHEN M. LARSON, BRIAN T.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Dec 10, 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 _____. 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>Hampton Robert L.</u>	<u>Instructor</u>	<u>Robert L. Hampton</u>	<u>9/5/07</u>		
2. <u>LAUREN ZILI</u>	<u>AVIATOR</u>	<u>Lauren Zili</u>	<u>9/10/07</u>		
3. <u>RICHARD C. WHITEHOUSE</u>	<u>INSTRUCTOR</u>	<u>Richard C. Whitehouse</u>	<u>9-25-07</u>		
4. <u>George Marengo</u>	<u>Instructor</u>	<u>George Marengo</u>	<u>9-26-07</u>		
5. <u>Corky CALSBECK</u>	<u>OAZ</u>	<u>Corky Calsbeck</u>	<u>10/4/07</u>		
6. <u>Sharon Hart</u>	<u>OAZ</u>	<u>Sharon Hart</u>	<u>10/4/07</u>		
7. <u>Susan L. Compton</u>	<u>Implementation Lead</u>	<u>Susan L. Compton</u>	<u>10/5/07</u>		
8. <u>Vincent Gaugon</u>	<u>Sim Engineer</u>	<u>Vincent Gaugon</u>	<u>10/5/07</u>		
9. <u>Kevin Balch</u>	<u>Sim Engineer</u>	<u>Kevin Balch</u>	<u>10/5/07</u>		
10. <u>William Adagar</u>	<u>Sim/Exec Sup</u>	<u>William Adagar</u>	<u>10/6/07</u>		
11. <u>William E Brown</u>	<u>Exam Instructor</u>	<u>William E Brown</u>	<u>10/24/07</u>		
12. <u>Harold T. Wuerz</u>	<u>Exam INSTRUCTOR</u>	<u>Harold T. Wuerz</u>	<u>10/16/07</u>		
13. <u>Paul Jungnitsch</u>	<u>operator</u>	<u>Paul Jungnitsch</u>	<u>10/12/07</u>		
14. <u>SOE SALIGER</u>	<u>OPERATOR</u>	<u>SOE Saliger</u>	<u>11-2-07</u>		
15. <u>Robert Clement</u>	<u>OPERATOR</u>	<u>Robert Clement</u>	<u>11-02-07</u>		

NOTES:

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1.	EDWARD C. COLLINS	COMPUTER TECH	<i>[Signature]</i>	11/2/07		
2.	EDUARDO JACOME	COMPUTER TECH	<i>[Signature]</i>	11/9/07		
3.	Hector E. Luque	Senior Control Rn. Supv.	<i>[Signature]</i>	11-14-07		
4.	David Dawson	RO	<i>[Signature]</i>	11/16/07		
5.	RALPH W. MELLER	RO	<i>[Signature]</i>	11/16/07		
6.	Brian Edmiston	Computer Engineer	<i>[Signature]</i>	11/16/07		
7.	Maxime Barbeau	Contractor	<i>[Signature]</i>	11/16/07		
8.	ANTHONY MORENO	COMPUTER TECH	<i>[Signature]</i>	11/16/07		
9.	JOSEPH SUNO	REACTOR OPERATOR	<i>[Signature]</i>	11/16/07		
10.	D. Michael Fitzgerald	Reactor Operator	<i>[Signature]</i>	11/18/07		
11.						
12.						
13.						
14.						
15.						

NOTES: