

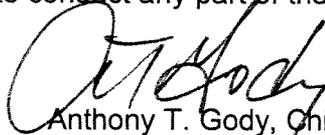
April 18, 2006

NOTE TO: Kelly Clayton
Chief Examiner, Operations Branch

FROM: Anthony T. Gody, Chief
Operations Branch
Division of Reactor Safety

SUBJECT: EXAMINATION ASSIGNMENT

You have been assigned as Chief of the San Onofre Nuclear Generating Station examination. The operating test has been scheduled to be completed by November 3, 2006. Thank you for contacting the San Onofre Nuclear Generating 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.



Anthony T. Gody, Chief
Operations Branch
Division of Reactor Safety

CHIEF:	Kelly Clayton	FACILITY:	San Onofre Nuclear Generating Station	DATE of OPERATING EXAM:	10/23/2006
Due Date	Description	Date Complete	Initials	Notes	
4/26/06	Exam Administration Date Confirmed (C.1.a; C.2.a & b)	4/26/06	KDC	Al e-mail me class dist. I send him due dates	
6/25/06	NRC Staff & Facility Contact Assigned (C.1.d; C.2.e)	6/26/06	KDC		
6/25/06	Facility Contact Briefed on Security & Other Req's (C.2.c)	6/26/06	KDC		
6/25/06	Corporate Notification Letter (ES-201 Att-3) Sent (C.2.d)	6/26/06	KDC	produced by Chief Examiner	
7/25/06	Reference Material Due (if NRC authored) (C.1.e; C.3.c)	N/A			
8/9/06	Integrated Exam Outlines Due (C.1.e & f; C.3.d)	8/9/06	KDC	security issue for report	
8/14/06	Outlines Review & NRC Feedback Provided (c.2.h; C.3.e)	8/15/06	KDC	requested detailed ^{sw} ^{procedur} ^{review}	
9/8/06	Draft Exams w/References Due (C.1.e,f,g,h; C.3.d)	9/11/06	KDC	missing cover letter	8/28 Jim Perry writ
9/23/06	*Peer Reviewer Completes Review of Exam on ES-401-9	9/25/06	KDC	Sarchow reviewed	written
9/23/06	*NRC BC Approves Feedback to Facility (C.2.h; C.3.f)	9/24/06	KDC	talked w/ Tom ^{Adkins} ^{ES.} ^{Kernan}	
9/23/06	*Exams Reviewed w/ Fac. (C.1.h; C.2.f & h; C.3.g)	9/26/06	KDC		
9/23/06	Preliminary Applications Due (C.1.i; C.2.g; ES-202)	9/05/06	KDC		
9/28/06	Preliminary Applications Reviewed (C.1.i; C.2.g)	9/05/06	KDC		
10/9/06	Final Applications Due (C.1.i; C.2.i; ES-202)	10/10/06	KDC		
10/9/06	On-Site Preparatory Week to Validate Operating Exam	10/06/06	KDC		
10/9/06	On-Site Audit (10%) of License App's (ES-202 C.2.e)	10/06/06	KDC		
10/16/06	Final Appl. OK'ed & Waiver Letters Sent (ES-204; C.2.e)	10/12/06	KDC		
10/16/06	NRC Supervisor Approved Final Exams (C.2.i; C.3.h)	10/12/06	KDC		
10/16/06	Exam Approval Letter (ES-201 Att-4) and List of Applicants (ES-201-4) Prepared (C.2.i)	10/12/06	KDC	produced by OLA	
10/16/06	Proctor Rules Review w/Fac. & Written Authorized (C.3.k)	10/16/06	KDC		
10/16/06	Exam Material to Exam Team (C.3.i)	10/16/06	KDC		
10/23/06	Administer Operating Exam On-Site	10/23/06	KDC	two week exam	
11/13/06	Facility Graded Exam & Comments Received	11/13/06	KDC	two week exam	
11/16/06	NRC Written Exam Grading Completed	11/15/06	KDC		
11/16/06	Examiners Document Exam Grades on ES Forms	11/15/06	KDC		
11/24/06	NRC Chief Examiner Grading Review Completed	11/15/06	KDC		
11/25/06	NRC BC Review Completed	11/20/06	KDC		
11/29/06	License/Denials Signed & Report Issued	11/21/06	KDC		
11/29/06	RPS/IP Number of Examinees Updated	11/21/06	KDC	print Report-21	
12/14/06	Examination Report Issued	11/21/06	KDC	produced by Chief Examiner	
12/14/06	Package Closed Out	11/22/06	KDC		
12/14/06	Chief QA of ADAMS and ^{SUNSR} SISR review complete	11/22/06	KDC		

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

Note: These dates shifted 1 week because this was a two week exam.

Facility:	SONGS Units 2 & 3		Date of Examination:		
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.	Z	H	KDC	
	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.	Z	H	KDC	
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Z	H	KDC	
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	Z	H	KDC	
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.	Z	H	KDC	
	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 scenarios will not be repeated on subsequent days.	Z	H	KDC	
	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.	Z	H	KDC	
3. W / T	a. Verify that 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 alternate path, low-power, emergency and RCA tasks meet the criteria on the form.	Z	H	KDC	
	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	Z	H	KDC	
	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.	Z	H	KDC	
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.	Z	H	KDC	
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	Z	H	KDC	
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	Z	H	KDC	
	d. Check for duplication and overlap among exam sections.	Z	H	KDC	
	e. Check the entire exam for balance of coverage.	Z	H	KDC	
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	Z	H	KDC	
a. Author	LARRY R. ZILL <i>Larry R Zilli</i>		Date 08/07/06		
b. Facility Reviewer (*)	<i>Alan H Haseneyer</i>		08/07/06		
c. NRC Chief Examiner (#)	Kelly Clayton <i>Kelly Clayton</i>		08/14/06		
d. NRC Supervisor	Vincent Gaddy <i>Vincent Gaddy</i>		9/5/06		

NOTE: # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/23-10/30/06 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 (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 10/23-10/30. 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.	JOSEPH ARSENAULT	AUTHOR/DEVELOPER	<i>Joseph Arsenault</i>	1/28/06	<i>Joseph Arsenault</i>	11/6/06	
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14.							
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NOTES:

NRC

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Oct 23, 2006 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Hampton, Robert	Instructor	Robert Hampton	4-19-06	Robert Hampton	11/6/06	
2. LAUREN ELLI	AUTHOR	Lauren Elli	04/19-06	Lauren Elli	11/08/06	
3. S.M. GRAHAM	SHIFT MANAGER	S.M. Graham	6/23/06	S.M. Graham	11/9/06	
4. RICHARD GIBROUX	MACHINE OPERATOR	Richard Gibroux	6-30-06	Richard Gibroux	11-8-06	
5. Kevin Balch	Engineer	Kevin Balch	6-30-06	Kevin Balch	11/14/06	
6. Vincent Gagnon	Engineer	Vincent Gagnon	6-30-06	Vincent Gagnon	11/6/06	
7. CORKY CALSBECK	CLERICAL	Corky Calsbeck	6-30-06	Corky Calsbeck	11/6/06	
8. Sharon Hart	Clerical	Sharon Hart	6-30-06	Sharon Hart	11/6/06	
9. George Mareng	Instructor	George Mareng	6-30-06	George Mareng	11/6/06	
10. ALAN HAYWARD	Supervisor	Alan Hayward	7-19-06	Alan Hayward	11-6-06	
11. Michael Jones	MANAGER	Michael Jones	8/06	Michael Jones	11/6/06	
12. Richard J Prescott	RO	Richard J Prescott	8-2-06	Richard J Prescott	11/6/06	
13. MEL STEINKAMP	SHIFT MANAGER	Mel Steinkamp	8-12-06	Mel Steinkamp	11/6/06	
14. Stephen K. Hathaway	NCO - RO	Stephen K. Hathaway	8/14/06	Stephen K. Hathaway	11/6/06	
15. David Davidson	RO	David Davidson	8-12-06	David Davidson	11/6/06	

NOTES:

N-1

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Oct 23, 30 2006, 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 Oct 23, 30 2006. 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. John F. McKinley	NCO	<i>John F. McKinley</i>	8/30/06	<i>John F. McKinley</i>	11/6/06
2. Robert Clement	CRS	<i>Robert Clement</i>	8/30/06	<i>Robert Clement</i>	11/6/06
3. Kee Boerneke	CRS	<i>Kee Boerneke</i>	8/30/06	<i>Kee Boerneke</i>	11/6/06
4. JOJI TOKUMOTO	NCO	<i>Joji Tokumoto</i>	8/30/06	<i>Joji Tokumoto</i>	11/6/06
5. Kurt Rauch	manager	<i>Kurt Rauch</i>	9/6/06	<i>Kurt Rauch</i>	11/6/06
6. HARLAND FABARDO	CRS	<i>Harland Fabardo</i>	9/13/06	<i>Harland Fabardo</i>	11/6/06
7. John Mouser	NCO	<i>John Mouser</i>	9-13-06	<i>John Mouser</i>	11-6-06
8. GARY Houser	NCO	<i>Gary Houser</i>	9-13-06	<i>Gary Houser</i>	11-6-06
9. Neil Scheuerlein	CRS	<i>Neil Scheuerlein</i>	9-13-06	<i>Neil Scheuerlein</i>	11-8-06
10. SARA POWELL	MO	<i>Sara Powell</i>	9/20/06	<i>Sara Powell</i>	11/6/06
11. Davine Pollock	NCO	<i>Davine Pollock</i>	9/25/06	<i>Davine Pollock</i>	11/6/06
12. EDWARD R. SEWSTACKS	CRS	<i>Edward R. Sewstacks</i>	9/26/06	<i>Edward R. Sewstacks</i>	11/9/06
13. Wayne L. Lyke	Supervisor	<i>Wayne L. Lyke</i>	9/26/06	<i>Wayne L. Lyke</i>	11/6/06
14. Theodore J. Vogt	Manager	<i>Theodore J. Vogt</i>	10/13/06	<i>Theodore J. Vogt</i>	11/6/06
15. MATTHEW THURBURN	SUPERVISOR	<i>Matthew Thurburn</i>	10/13/06	<i>Matthew Thurburn</i>	11/6/06

NOTES:

NRC

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Oct 23, 30 2006 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 Oct 23, 30 2006 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.	RICHARD WHITEHOUSE	INSTRUCTOR	<i>[Signature]</i>	10/23/06	<i>[Signature]</i>	11/6/06
2.	Harbord A. White	INSTRUCTOR	<i>[Signature]</i>	10/24/06	<i>[Signature]</i>	11/6/06
3.	David E Craig	INSTRUCTOR	<i>[Signature]</i>	10/24/06	<i>[Signature]</i>	11/6/06
4.	Dennis Wilcockson	Operations manager	<i>[Signature]</i>	10/24/06	<i>[Signature]</i>	11/6/06
5.	Michael R. Ney	Supervisor	<i>[Signature]</i>	10/24/06	<i>[Signature]</i>	11/6/06
6.	STEPHEN J WILKOT	INSTRUCTOR	<i>[Signature]</i>	10/24/06	<i>[Signature]</i>	11/6/06
7.	Lawrence K. B. L. L.	Floor	<i>[Signature]</i>	10/26/06	<i>[Signature]</i>	11/6/06
8.	JAMES MARRON	INSTRUCTOR	<i>[Signature]</i>	10/31/06	<i>[Signature]</i>	11/6/06
9.	ROBERT BOYER	TECH SPEC.	<i>[Signature]</i>	10/31/06	<i>[Signature]</i>	11/7/06
10.						
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NOTES:

Facility:	SONGS	Date of Examination:	10/23/06	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).	Z	/	/	/	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	Z	/	/	/	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	Z	/	/	/	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	Z	/	/	/	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	Z	/	/	/	
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	Z	/	/	/	
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.	Z	/	/	/	
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.				Z	/	/
		Printed Name / Signature		Date		
a.	Author	Larry R. Zilli	<i>Larry R Zilli</i>	10/25/06		
b.	Facility Reviewer (*)	Alan H. Hagemeyer	<i>[Signature]</i>	10/05/06		
c.	NRC Chief Examiner (#)	Kelly D. Clayton	<i>[Signature]</i>	10/05/06		
d.	NRC Supervisor	Vincent G. Gaddy	<i>Vincent G. Gaddy</i>	10/17/06		
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	Date of Exam:	10/23/2006	Scenario Numbers:	1/2/3/4	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.					Z	M	KRC			
2.	The scenarios consist mostly of related events.					Z	M	KRC			
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) 					Z	M	KRC			
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.					Z	M	KRC			
5.	The events are valid with regard to physics and thermodynamics.					Z	M	KRC			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					Z	M	KRC			
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.					Z	M	KRC			
8.	The simulator modeling is not altered.					Z	M	KRC			
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.					Z	M	KRC			
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.					Z	M	KRC			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					Z	M	KRC			
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).					Z	M	KRC			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.					Z	M	KRC			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)					Actual Attributes (Scenario)				-	-	-
					1	2	3	4			
1.	Total malfunctions (5-8)				8	6	6	6			
2.	Malfunctions after EOP entry (1-2)				2	1	1	2			
3.	Abnormal events (2-4)				2	3	2	3			
4.	Major transients (1-2)				1	2	1	1			
5.	EOPs entered/requiring substantive actions (1-2)				2	1	2	1			
6.	EOP contingencies requiring substantive actions (0-2)				0	1	0	1			
7.	Critical tasks (2-3)				2	4	3	3			

Facility:		SONGS 2 and 3		Date of Exam:		10/23/2006		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			5						
		Crew Position			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	S R O	A T C	B O P		R	I	U
SROU-1	RX																0	1	1	0
	NOR	-			4												1	1	1	1
	I/C	2,3,4,5			1,2,3												7	4	4	2
	MAJOR	6			5,7												3	2	2	1
	TS	2,3			1,3												4	0	2	2
SROU-2	RX																0	1	1	0
	NOR	-						1									1	1	1	1
	I/C	2,3,4,5						2,3,4									7	4	4	2
	MAJOR	6						5									2	2	2	1
	TS	2,3						2,4									4	0	2	2
SROU-3	RX																0	1	1	0
	NOR	-			4												1	1	1	1
	I/C	2,3,4,5			1,2,3												7	4	4	2
	MAJOR	6			5,7												3	2	2	1
	TS	2,3			1,3												4	0	2	2
SROU-4	RX																0	1	1	0
	NOR				4			1									2	1	1	1
	I/C				1,2,3			2,3,4									6	4	4	2
	MAJOR				5,7			5									3	2	2	1
	TS				1,3			2,4									4	0	2	2
SROI-1	RX							1									1	1	1	0
	NOR	-					4										1	1	1	1
	I/C	2,3,4,5					1,2,6		2,4								9	4	4	2
	MAJOR	6					5,7		5								4	2	2	1
	TS	2,3					-		-								2	0	2	2
SROI-2	RX		-														0	1	1	0
	NOR				4					1							2	1	1	1
	I/C		2,3,4		1,2,3					3,6							8	4	4	2
	MAJOR		6		5,7					5							4	2	2	1
	TS		-		1,3					-							2	0	2	2

Facility:		SONGS 2 and 3		Date of Exam:		10/23/2006		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			5						
		Crew Position			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	S R O	A T C	B O P		R	I	U
SROI-3	RX				4											1	1	1	0	
	NOR			-			1									1	1	1	1	
	I/C			5,7,8	2,3		2,3,4									8	4	4	2	
	MAJOR			6	5,7		5									4	2	2	1	
	TS			-	-		2,4									2	0	2	2	
RO-1	RX		-													0	1	1	0	
	NOR					4										1	1	1	1	
	I/C		2,3,4			1,2,6										6	4	4	2	
	MAJOR		6			5,7										3	2	2	1	
	TS		-			-										0	0	2	2	
RO-2	RX		-													0	1	1	0	
	NOR							1								1	1	1	1	
	I/C		2,3,4					3,6								5	4	4	2	
	MAJOR		6					5								2	2	2	1	
	TS		-					-								0	0	2	2	
RO-3	RX		-													0	1	1	0	
	NOR					4										1	1	1	1	
	I/C		2,3,4			1,2,6										6	4	4	2	
	MAJOR		6			5,7										3	2	2	1	
	TS		-			-										0	0	2	2	
RO-4	RX						1									1	1	1	0	
	NOR					4										1	1	1	1	
	I/C					1,2,6	2,4									5	4	4	2	
	MAJOR					5,7	5									3	2	2	1	
	TS					-	-									0	0	2	2	
RO-5	RX				4											1	1	1	0	
	NOR			-												0	1	1	1	
	I/C			5,7,8	2,3											5	4	4	2	
	MAJOR			6	5,7											3	2	2	1	
	TS			-	-											0	0	2	2	

Facility:		SONGS 2 and 3		Date of Exam:		10/23/2006		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			5						
		Crew Position			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	S R O	A T C	B O P		R	I	U
RO-6	RX								1								1	1	1	0
	NOR			-													0	1	1	1
	I/C			5,7,8					2,4								5	4	4	2
	MAJOR			6					5								2	2	2	1
	TS			-					-								0	0	2	2
RO-7	RX					4											1	1	1	0
	NOR			-													0	1	1	1
	I/C			5,7,8		2,3											5	4	4	2
	MAJOR			6		5,7											3	2	2	1
	TS			-		-											0	0	2	2
RO-8	RX					4											1	1	1	0
	NOR									1							1	1	1	1
	I/C					2,3				3,6							4	4	4	2
	MAJOR					5,7				5							3	2	2	1
	TS					-				-							0	0	2	2

Instructions:

- 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.
- 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.
- 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: 10/23/2006		Operating Test No. NRC 1-4											
Competencies	SRO					RO (ATC)					BOP				
	SCENARIO					SCENARIO					SCENARIO				
	1	2	3	4		1	2	3	4		1	2	3	4	
Interpret/Diagnose Events and Conditions	2,3, 4,5, 6	1,2, 3,5, 7	1,2, 3,5, 6	2,3, 4,5, 6		2,3, 4	2,3, 5,7	2,3, 6,7	2,3, 5,7		5,6, 7,8	1,2, 5,6, 7	1,5, 6	3,4, 5,6	
Comply With and Use Procedures (1)	ALL	ALL	ALL	ALL		2,3, 4,6	2,3, 4,5, 7	2,3, 4,6, 7	1,2, 3,5, 7		5,6, 7,8	1,4, 5,6, 7	1,4, 5,6	1,3, 4,5, 6	
Operate Control Boards (2)	N/A	N/A	N/A	N/A		2,3, 4,6	2,3, 4,5, 7	2,3, 4,6, 7	1,2, 3,5, 7		5,6, 7,8	1,2, 4,5, 6,7	1,4, 5,6	1,3, 4,5, 6	
Communicate and Interact	ALL	ALL	ALL	ALL		2,3, 4,5, 6	1,2, 3,4, 5,7	2,3, 4,6, 7	1,2, 3,5, 7		5,6, 7,8	1,2, 4,5, 6,7	1,4, 5,6	1,3, 4,5, 6	
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	ALL		N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	
Comply With and Use Tech. Specs. (3)	2,3	1,3	1,3	2,4		N/A	N/A	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.

Facility:	San Onofre 2 and 3	Date of Exam:	10/23/2006	Exam Level:	RO/SRO		
Item Description				Initial			
				a	b*	c#	
1.	Questions and answers technically accurate and applicable to facility.			JGA	[Signature]	KAC	
2.	a. NRC K/As referenced for all questions. b. Facility learning objectives referenced as available.			JGA	[Signature]	KAC	
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401			JGA	[Signature]	KAC	
4.	The sampling process was random and systematic. (If more than 4 RO and 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL Program Office)			JGA	[Signature]	KAC	
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input 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 checked="" type="checkbox"/> the licensee certifies that there is no duplication, or <input type="checkbox"/> other (explain)			JGA	[Signature]	KAC	
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	Bank	Modified	New	JGA	[Signature]	KAC
		43 / 12 57.3% / 48%	3 / 2	29 / 11 38% / 44%			
7.	Between 50 and 60 percent of the question on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right	Memory	C/A		JGA	[Signature]	KAC
		34 / 6 54.7% 45.3% / 24%	41 / 19 54.7% / 76%				
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.			JGA	[Signature]	KAC	
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.			JGA	[Signature]	KAC	
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.			JGA	[Signature]	KAC	
11.	The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet.			JGA	[Signature]	KAC	
				Printed Name / Signature		Date	
a.	Author	Joseph G. Arsenault	[Signature]		10/5/2006		
b.	Facility Reviewer (*)	[Signature]	Alan Hagemeyer		10/5/06		
c.	NRC Chief Examiner (#)	Kelly D. Clayton	[Signature]		10/5/06		
d.	NRC Regional Supervisor	Vincent G. Caddy	[Signature]		10/12/06		
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:		Date of Exam:		Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading			RH	[Signature]	KDC
2.	Answer key changes and question deletions justified and documented			RH	[Signature]	KDC
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			RH	[Signature]	KDC
4.	Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail			RH	[Signature]	KDC
5.	All other failing examinations checked to ensure that grades are justified			RH	[Signature]	KDC
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants			RH	[Signature]	KDC
		Printed Name/Signature			Date	
a.	Grader			Robert L. Hampton Jr. / Pat [Signature]		11/8/06
b.	Facility Reviewer(*)			A. Hegener / [Signature]		11/2/06
c.	NRC Chief Examiner (*)			*K. Clayton (chief) / J. Garchow (indep. review)		11/13/06 11/14/06
d.	NRC Supervisor (*)			R. Nease / B.L. Nease		11/20/06
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.						

Facility:	Date of Exam:	Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	R4	_____	KDC
2. Answer key changes and question deletions justified and documented	R4	_____	KDC
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	R4	_____	KDC
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	R4	_____	KDC
5. All other failing examinations checked to ensure that grades are justified	R4	_____	KDC
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	R4	_____	KDC
Printed Name/Signature		Date	
a. Grader	<u>Robert L. Hampton Jr. / RWJ</u>	<u>11/8/06</u>	
b. Facility Reviewer(*)	A. Hager	11/8/06	
c. NRC Chief Examiner (*)	<u>K. Clayton / Kelly</u> <u>S.M. Gachow / Jim</u>	<u>11/13/06</u> <u>11/14/06</u>	
d. NRC Supervisor (*)	<u>Rebecca L. Nease / Rebecca Nease</u>	<u>11/20/06</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 10/01/2006 To 11/07/2006

Region: 4 Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
08/04/2006	San Onofre / 05000361 / 2006010 Procedure #: 7111111B				CLAYTON, KELLY D.	CLAYTON, KELLY D.
08/04/2006	San Onofre / 05000362 / 2006010 Procedure #: 7111111B				CLAYTON, KELLY D.	CLAYTON, KELLY D.
10/02/2006	San Onofre / 05000361 / 2006301 TAC #: X02335	RO - 8 SROU - 4	Prep	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.
10/02/2006	San Onofre / 05000362 / 2006301 TAC #: X02336	RO - 8 SROU - 4	Prep	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.
10/23/2006	San Onofre / 05000361 / 2006301 TAC #: X02335	RO - 8 SROU - 4	Admin	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.
10/23/2006	San Onofre / 05000362 / 2006301 TAC #: X02336	RO - 8 SROU - 4	Admin	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.
11/06/2006	San Onofre / 05000361 / 2006301 TAC #: X02335	RO - 8 SROU - 4	Doc	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.
11/06/2006	San Onofre / 05000362 / 2006301 TAC #: X02336	RO - 8 SROU - 4	Doc	FFF	CLAYTON, KELLY D.	CLAYTON, KELLY D. GAGE, PAUL C. GARCHOW, STEPHEN M. MCKERNON, THOMAS O.