#### **EXAM ASSIGNMENT TICKLER**

Chief:	Chris Steely	Facility:	DC	Date	of Written Exam: 8/8/2014
	St	art of Op Test:	8/11/2014		End of Op Test: 8/15/201
	m Developed By: NRC / Facil	lity			ped By: NRC / Facility
Due Date	Description		Date Complete		Notes
2/7/2014	Written Exam & Op Test Dates Confirmed		10 31 13	m	
4/4/2014	NRC Examiners & Facility Contact Assigne		10 31 13	13	
4/4/2014	Facility Contact Briefed on Security & Othe	r Req's	10 31 13	47	
4/4/2014	Corporate Notification Letter sent		1/22/4	13	ES-201 Att-4 produced by CE
5/9/2014	Reference material due (if NRC authored)		N/A.	4	ES-201 Att-3
5/23/2014	Integrated exam outlines due		5/22/14,	les	
5/30/2014	Outlines reviewed by CE; feedback approv	ed by BC	5/30/14	45	ES-201-2 signed by CE & BC
5/30/2014	Feedback on integrated outlines provided t	o facility	5/30/14	ly	
6/20/2014	DRAFT exam / docs / support reference ma	aterial due	6/20/14	4	
7/4/2014	Peer review of written exam complete		7/2/14	45	Document review on ES-401-9
7/4/2014	Preliminary license applications due		7/14/14	3	NRC Forms 398/396
7/11/2014	Preliminary license applications and waiver	's reviewed	7/21/14	3	
7/11/2014	DRAFT exam reviewed by CE; feedback ap	oproved by BC	781	4	
7/11/2014	Feedback on DRAFT exam provided to fac	ility	7/8/14	4	
7/14/2014	On-site validation & 10% audit of license ap	pplications	7/14/14	hy	
7/25/2014	Final applications due & List of Applicants p	prepared	7/28/14	4	ES-201-4 prepared by LA
8/1/2014	Final applications approved & waiver letters Final Exam due (if significant changes mad		7/28/14	y	
8/1/2014	Branch Chief approves FINAL exam (Writte	en & Op Test)	7/29/14	5	LA produces / BC signs Exam Approval Letter (ES-201 Att-5)
8/1/2014	Proctoring/written exam admin guidelines re	eviewed w/ facility	8/1/14,	5	
8/4/2014	Exam material to exam team		8/1/17/	4	
8/11/2014	Administer Operating Test		8/11/14,	4	
8/22/2014	Facility post-exam documentation due		9/16/it	13	
8/22/2014	NRC written exam grading completed		8120114	4	ES-403-1 to BC
8/22/2014	Examiner's document op test results on ES	303's	8/27/14	ly	
8/29/2014	Chief Examiner review of written exam & op	test completed	412x 14	ly	Signed ES 303's to BC
9/5/2014	Branch Chief review of exam results comple	eted	8/27/14	4	
9/12/2014	Waivers/deferrals reviewed for impact on lic		8/27/14	Cz	
9/12/2014	License/Denial letters mailed; Facility notifie	ed of results	8/28/14	Cs	
9/12/2014	RPS/IP number of examinees updated		8 28 14	by	print Report-21
9/26/2014	Examination Report Issued		9/26/14	en	produced by CE
10/3/2014	SUNSI checklist complete and exam docs to	o ADAMS	10/2/14	4	SUNSI checklist to LA
10/10/2014	Ref Mat'l Returned after Final Resolution of	Appeals	NA	4	
	Replaces NUREG-1021, I	Revision 9, Supp 1,		nd ES-50	1-1

Facility:	Diablo Canyon Date of Examination.				
-	Diablo Canyon Date of Examination.	08/	08/14	1	
Item	Task Description	_	Initia	ils	
1. W	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	a QC	9	C#	
R	<ul> <li>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.</li> </ul>	0/-	9	Con	
T T E	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	er	9	by	
N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	0/	9	is	
2. S	<ul> <li>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.</li> </ul>	₩.	8	3	
L A T	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.				
R	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.	60	9	4	
w / T	<ul> <li>(4) the number of new or modified tasks meets or exceeds the minimums specified on the form the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.</li> </ul>	<del>to-</del>	9	Cz	
	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	ito (	7	az	
	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	9)	les	
_	Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	20	5	2	
G E b	and 35.45 sampling is appropriate.	1	8	12	
N c.	except for plant-specific priorities) are at least 2.5.	1	51	45	
R a.	and overlap among exam sections.	1	01	27	
L	Check the entire exam for balance of coverage.	1	0 0	3	
f.	Assess whether the exam fits the appropriate job level (RO or SRO).	1	9 0	2	
c. NRC Ch		2	Date 05/21/1 05/21/1 130/	14	
Note:	<ul> <li># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence require</li> <li>* Not applicable for NRC-prepared examination outlines</li> </ul>	ed.			

Facility: Diablo Canyon Date	e of Exam:	08/08/	/14	Exam	Level:	RO 🗸	SRO 🗸	
	· · · · · · · · · · · · · · · · · · ·					Initial		
ltem Description					а	b*	C <sup>e</sup>	
Questions and answers are technically accurate and approximate and approx	Questions and answers are technically accurate and applicable to the facility.							
a. NRC K/As are referenced for all questions.     b. Facility learning objectives are referenced as a	available.				RF	CM	4	
SRO questions are appropriate in accordance with Section	on D.2.d o	ES-40	1		RF	CM	c23	
The sampling process was random and systematic (If m were repeated from the last 2 NRC licensing exams, core	ore than 4 sult the NF	RO or 2 RR OL p	SRO q	uestions office).			3	
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate:						CM	43	
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 19 / 8			RF	CM	4		
7. Between 50 and 60 percent of the questions 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 41.3 / 36 58.7 / 64.0				RF	CM	5	
References/handouts provided do not give away answer or aid in the elimination of distractors.	3				RF	cm	ح	
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.						CM	5	
10. Question psychometric quality and format meet the guide	lines in ES	Appen	dix B.		RF	CM	څ.	
The exam contains the required number of one-point, muthe total is correct and agrees with the value on the cover.							5	
a. Author B. Facility Reviewer (*) Chris Method Chris Met						8/14		

Facility: Diablo Canyon Date of Examination: 08/08/14 Operating	Test N	lumbe	L121				
1. General Criteria		Initial	s				
1. General Officeria	а	b*	c#				
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).	br	9	47				
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	Le	Đ	43				
c. The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	85	D	Ces				
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	80	9	43				
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	Ø	P	4				
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	44	V	43				
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.	4	8	3				
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.	4	9	4				
b. Facility Reviewer(*)  Abdul Kadir /  C. NRC Chief Examiner (#)  Abdul Kadir /  Abdul Kadir /	Date 3/14 3/14 // // // // // // // // // // // // //	e					
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c": chief examiner concurrence required.							

Facility	: Diablo Canyon Date of Exam: 08/08/14 Scenario Numbers:	01 / 02 / 03 Oper	rating 7	est No	<sub>).</sub> L121	
		s				
			а	b*	c#	
1.	ation may be out	60	0	5		
2.	The scenarios consist mostly of related events.		60	9	4	
3. Each event description consists of						
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated without a credible preceding incident such as a seismic event.	nto the scenario	60	V	4	
5.	The events are valid with regard to physics and thermodynamics.		66	47	2	
6.	Sequencing and timing of events is reasonable, and allows the examination complete evaluation results commensurate with the scenario objectives.	team to obtain	th	D	63	
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.					
8.	The simulator modeling is not altered.					
9.						
10.						
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					
12.						
13						
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes				
1	4 .0.5					
2.	Malfunctions after EOP entry (1–2)	2/1/2	K	Ð	5	
3.	Abnormal events (2–4) 4 , 4 , 4					
4.	Major transients (1–2) 2 / 2 / 2					
5.	EOPs entered/requiring substantive actions (1–2)					
6.	EOP contingencies requiring substantive actions (0–2)					
7.	Critical tasks (2–3)	2,2,2	60	8	5	

Facilit	y: Diablo Canyon Date of Exam: 08/08/14 Scenario Numbers:	04 / / Oper	ating T	est No	<u>L</u> 121	
	QUALITATIVE ATTRIBUTES		Initial			
			a	b*	c#	
1.	Ħ	d	3			
2.	The scenarios consist mostly of related events.		6	9	5	
3. Each event description consists of  • 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)						
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated without a credible preceding incident such as a seismic event.	into the scenario	5	0	5	
5.	The events are valid with regard to physics and thermodynamics.		H		63	
6.	Sequencing and timing of events is reasonable, and allows the examination complete evaluation results commensurate with the scenario objectives.	team to obtain	H	0	3	
7.						
8.						
9.	<ol> <li>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.</li> </ol>					
10.						
11.	<ol> <li>All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).</li> </ol>					
12.						
13.	The level of difficulty is appropriate to support licensing decisions for each c	ew position.	65	0	63	
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes				
1.	Total malfunctions (5–8)	7 / /	#	7	5	
2.	Malfunctions after EOP entry (1–2)	3 / /	60	8	43	
3.	Abnormal events (2–4)	411	16	0	63	
4.	Major transients (1–2)	211	10	2	3	
5.	EOPs entered/requiring substantive actions (1-2)	211	10	B	3	
6.	EOP contingencies requiring substantive actions (0-2)	1 , ,	60	0	3	
7.	Critical tasks (2–3)	3 1 1	60	0	3	

Facility	y: Diablo Canyon	Date of Exam: 08/08/14	Exam	Level: R	07 8	RO[7]	
					Initials		
	lte	m Description		а	b	С	
1.	Clean answer sheets	copied before grading		RF	Oz	ez	
2.	Answer key changes and documented	and question deletions justified		RF	or	5	
3.	Applicants' scores che (reviewers spot check	ecked for addition errors  > 25% of examinations)		RF	a	9	
4.	Grading for all border as applicable, ±4% or	line cases (80 ±2% overall and 70 the SRO-only) reviewed in detail	or 80,	N/A	N/A	NA	
All other failing examinations checked to ensure that grades are justified					N/A	NA	
6.	deficiencies and word	ed questions checked for training ling problems; evaluate validity by half or more of the applicants		RF	02	4	
		Printed Name/Signature				ate	
a. Gra	ader	Ron Fortier			8/8	114	
b. Fac	cility Reviewer(*)	David Richards / Bad	undo		8-	2014	
	C Chief Examiner (*) C Supervisor (*)	Vincent Couly Vincent	Gada		6/2	19	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.							

11:00:19 Page 1 of 4 08/28/2014

Report 21

Operator Licensing Exam Schedule From 08/01/2014 To 09/30/2014

Phase Code: Operating Reactors (5) Region: 4

iner Examiners Assigned	STEELY, CHRISTOPHER D. APGER, GABRIEL W. OSTERHOLTZ, CLYDE C. STEELY CHRISTOPHER D.	STEELY, CHRISTOPHER D. APGER, GABRIEL W. FARINA, THOMAS J. OSTERHOLTZ, CLYDE C. STEELY CHRISTOPHER D.	STEELY, CHRISTOPHER D. APGER, GABRIEL W. FARINA, THOMAS J. OSTERNOLTZ, CLYDE C. STEELY CHRISTOPHER D.	STEELY, CHRISTOPHER D. APGER, GABRIEL W. OSTERHOLTZ, CLYDE C. STEELY. CHRISTOPHER D.	STEELY, CHRISTOPHER D. APGER, GABRIEL W. OSTERHOLTZ, CLYDE C. STEELY, CHRISTOPHER D.	STEELY, CHRISTOPHER D. APGER, GABRIEL W. OSTERHOLTZ, CLYDE C.
Exam Author   Chief Examiner	STEELY, C	STEELY, C	STEELY, C	STEELY, C	STEELY, CI	STEELY, CI
Exam Author	FFN	R H	F	H H	FF	
Type	Prep	Prep	Admin	Admin	Doc	Doc
# Candidates			SROI - 3	SROI-3		
# Car			RO - 7 SROU - 2	RO-7 SROU-2		
Exam Week Site/Docket No./Insp Rpt #	Diablo Canyon / 05000323 / 2014301 TAC #: X02533	Diablo Canyon / 05000275 / 2014301 TAC #: X02532	Diablo Canyon / 05000275 / 2014301 TAC #: X02532	Diablo Canyon / 05000323 / 2014301 TAC #: X02533	Diablo Canyon / 05000275 / 2014301 TAC #: X02532	Diablo Canyon / 05000323 / 2014301 TAC #: X02533
Exam Week	08/01/2013	07/21/2014	08/11/2014	08/11/2014	08/18/2014	08/18/2014

Sites: DIAB Orgs: 4620 Exam Author: ALL

### . Pre-Examination

acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/8 - 8/16/14 as of the date these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered 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 (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 the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and may have been compromised.

# . Post-Examination

instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted during the week(s) of 8/8-8/16/14 From the date that I entered into this security agreement until the completion of examination administration, I did not To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered below and authorized by the NRC.

						y			
DATE NOTE	8/25/14	8-23-20 mod &	HIDZ/8	2	8/20/14	S COM	1/61/8	11-8-6	
DATE SIGNATURE (2)	1/29/14 PM MINIOUSH	3/8/4 Mg Fat m Ble	3/18/14 A ONS	3/26/4 WW FALOR	5/6/14/ 65 000	5/6/14 4/10 EM	S/6/m /48	5-12-19 MM 0	
SIGNATURE (1)	IM Junewshi	mand of	The frem	The State of the S	Son from		XWX	Me iglos	
JOB TITLE / RESPONSIBILITY	N M	7	Shift Foreman	SAO	OPS SFM	OPS SFM	20 20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Con From ATTON. \$19114 Con From ATTON. 9/9/14
PRINTED NAME	1 TM LUNIEWSKI	5. Mike Brain	7. SHANE GUESS	9. DAVID BURNS	11. SRAM SAWACE	12. CHRISTINE BARE	14. JAKE BRANCHEAU	NOTES: Bigelow SINGEN	O EMAIL CONFIRMATION.

(1)

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# 2. Post-Examination

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2/2	
SIGNING SIGNIN	
SIGNATURE (2)	
DATE (1/2/1/3) (	
SIGNATURE (1)	
JOB TITLE / RESPONSIBILITY  N.C. EXAM DEV.  NIC. EXAM DEV.  NIC. EXAM DEV.  NIC. EXAM DEV.  OPS. CEP  ACM SPECIAL STATE  SFM  SFM  SFM  SFM  SFM  SFM  SFM  SF	
1. Low FORTHER JOB TITLE / 2. JOHN BECERER SULTY, E. 3. L. SOUCHER SULTY, E. 4. SOUCHER SULTY, E. 5. David Richards FX4M DEVELOR SULTY, E. 6. Abdul K. & & & & & & & & & & & & & & & & & &	18 14 16 C

### . Pre-Examination

acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \$\frac{8/8}{0}\$ - \$\frac{8/16/14}{0}\$ as of the date these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC 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 (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 the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and may have been compromised.

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No. of the control of	
872/14 8-20-14 8-10-14 8-10-14 8-20-14 8-20-14	
SIGNATURE (2)	
272/12 20-11-12 8-11-1	
SIGNATURE (1)	
Diverby LS  Chereto  LAS Fructor  LAS Fructo	PILIMITION 9/4/19
PRINTED NAME  1. Denny Retersor  3. Martene Schultz  4. New Scale  6. John Lees  7. Lange Millian  8. Lance Millian  9. Par Luce  11. 11.	NOTES: O Tex G