# ADMINISTRATIVE DOCUMENTS (Yellow Paper)

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1	Exam Preparation Checklist ES-201-1
2.	Exam Outline Quality Checklist . (7.) ES-201-2
(B.)	Exam Security Agreement(s) ES-201-3
4.	Administrative Topics Outline (Final)
5.	Control Room Systems & Facility Walk-through Test Outline (Final)
<b>Ø</b> .	Operating Test Quality Check Sheet ES-301-3
J.	Simulator Scenario Quality Check Sheet ES-301-4
<b>8</b> .	Transient and Event Checklist ES-301-5
<b>Ø</b> .	Competencies Checklist ES-301-6
10.	Written Exam Quality Check Sheet ES-401-6
11.	Written Exam Review Worksheet ES-401-9
12.	Written Exam Grading Quality Checklist ES-403-1
13.	Post-Exam Check Sheet
1/4.	Facility Submittal Letter 08-02/7 DTD 4-11-08 [ 1
/	SURRY 2008-301

None.

Facility:	Surry		Date of Examination:	3/17/08
Evaminati	ons Developed by:	Facility:	NRC:	
Examinat	Operating Test Written		Written	
Target Date <sup>*</sup>		Task Description (Referenc	e)	Chief Examiner's Initials
-180	1. Examination admini	stration date confirmed (C.1.a;	C.2.a and b)	Ţ/Ę/FJE
-120	2. NRC examiners and	facility contact assigned (C.1.d	l; C.2.e)	F/FJE
-120	3. Facility contact brief	ed on security and other require	ements (C.2.c)	F/E/FJE
-120	4. Corporate notification	on letter sent (C.2.d)		F/FJE
[-90]	[5. Reference material d	lue (C.1.e; C.3.c; Attachment 2	)]	/FJE
{-75}		on outline(s) due, including Fo 3-301-5, ES-D-1's, ES-401-1/2, d f; C.3.d)		Æ/FJE
{-70}	{7. Examination outline licensee (C.2.h; C.3.	(s) reviewed by NRC and feedte)	oack provided to facility	/FJE
{-45}	applicable), supporti	ons (including written, walk-thring documentation (including F, and ES-401-6), and reference	forms ES-301-3, ES-301-4,	///FJE
-30	9. Preliminary license a	applications (NRC Form 398's)	due (C.1.1; C.2.g; ES-202)	/FJE
-14	10. Final license applica	tions due and Form ES-201-4	prepared (C.1.l; C.2.i; ES-202)	<b>A</b> FJE
-14	11. Examination approv (C.2.h; C.3.f)	ed by NRC supervisor for facil	ity licensee review	/FJE
-14	12. Examinations review	ved with facility licensee (C.1.j	; C.2.f and h; C.3.g)	/FJE
-7	13. Written examination (C.2.i; C.3.h)	as and operating tests approved	by NRC supervisor	/Z/FJE
-7	qualifications / eligi	eviewed; 1 or 2 (if >10) applicate bility; and examination approval; ES-202, C.2.e; ES-204)		/FJE
-7	15. Proctoring/written e (C.3.k)	xam administration guidelines	reviewed with facility licensee	A/FJE
-7	16. Approved scenarios NRC examiners (C.:	, job performance measures, an 3.i)	d questions distributed to	/FJE
iden case	tified in the corporate notile-by-case basis in coordinat		tions and are keyed to the exam nning purposes and may be adj the NRC.	

# **WRITTEN ONLY**

Facility:	SURRY	ate of F	Exan	inat	ion:
Item	Task Description		Init		.#
1.	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	a Obe	<u> </u>	+	c#
W R	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.	Olei	80)	A Z	<u>70</u> [18
I T	c.Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Clil	$\vdash$	1	1.fr
T	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.			1	<del>/</del>
E N		Offee			H
2.	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.				/
S I	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of	1	- Constitution of the last of		
M	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	'	۲١	Λ	
U	or significantly modified scenario, that no scenarios are duplicated from the applicants' audit		1 /		
L A	test(s), and that scenarios will not be repeated on subsequent days.	<u> </u>	$\angle$	$\perp$	A_
T	c.To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative	/			13
0	criteria specified on Form ES-301-4 and described in Appendix D.	//			
3.	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2:	ľ	$\Box$	+	7
	(1)the outline(s) contain(s) the required number of control room and in-plant tasks distributed among				
W	the safety functions as specified on the form	۱ ۵		-	
/ T	(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)	1 /	VΙ		/
1	(4)the number of new or modified tasks meets or exceeds the minimums specified on the form			1	
	(5)the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.				A
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1:				R
	(1) the tasks are distributed among the topics as specified on the form	1	VΙ		
	(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	/		İ	
	c.Determine if there are enough different outlines to test the projected number and mix of applicants	<del>  /                                   </del>	$\vdash$	+	
	and ensure that no items are duplicated on subsequent days.				
4.	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	CEN	$\Box$		<u>~</u> k
G	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	all	H	$\dashv$	40
E	c.Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	au	H	+	1/2
N E	d.Check for duplication and overlap among exam sections.	cla	H	-	
R	e.Check the entire exam for balance of coverage.	CHA	1-1	, -	1
A	f. Assess whether the exam fits the appropriate job level (RO or SRO).	All	1	7	1/1
L	1.75Sess whether the exam his the appropriate job level (NO of SNO).	cni	N	AL	70
	Printed Name/Signature				Date
a. Auth	or Charles Kowte		U	2/0	18
	Chief Examiner (#) Frank J- Ehrhands/Full We			,	
	Chief Examiner (#) Frenk J- Elistic Sp / Foulf We		4	12/	<b>@8</b>
	// Jugar char		04	103	<i> 0</i> 8
Note:#	Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

Facility	Date of Examination:	3/1	1/2008	
Item	Task Description		Initial	s
Item	Task Description	а	b*	c#
1. W	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	(1)	(1)	(C)
R I	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.	(1)	(ს	65
T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	(ı)	(b)	(3)
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	(1)	(i)	w
2. S	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.	M	<b>®</b>	H
M U 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.	M	(Di)	FE
O 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.	~	(B)	/ft
3. W / T	<ul> <li>a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: <ol> <li>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</li> <li>task repetition from the last two NRC examinations is within the limits specified on the form</li> <li>no tasks are duplicated from the applicants' audit test(s)</li> <li>the number of new or modified tasks meets or exceeds the minimums specified on the form</li> <li>the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.</li> </ol> </li></ul>	М	(B)	JE
	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	M	(Di	fl
	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.	M	(OL)	1/2
4.	Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	Ma	(P(2)	THE
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.		a) (e)	4/9
N	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	Max	D (2)	12
E R	d. Check for duplication and overlap among exam sections.	Ma	@ e,	1/2
Α	e. Check the entire exam for balance of coverage.	M(2)	(DU/C)	JE.
L.	f. Assess whether the exam fits the appropriate job level (RO or SRO).	M(2)	BU (2)	fl
c. NRC d. NRC	C Chief Examiner (#)  C Supervisor  David H Wice Wife Control of C		3/5/ 3/05/0 3/12	108 2/08 188
Note:	# Independent NRC reviewer initial items in Column "c"; whief examiner concurrence require	uired.		

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#### 1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of  $\frac{3/1 - 4/2}{2}$  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 3/1-1/10/5. 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. WILLIAM W. MARSHAU 2. Revald 4. Ewald	SENIOR INST-NUCLOPS/EAD LC INSTRUCTOR  Nucley UnitSupervisor / ONSMITH  The Control of the contr	WWMalel	2/15/08	WWW. Gel	4.29-08
3. Ryan C. Phillips 4. JOHN HEIDE	REMOTER DRENATION / MISHIFT RD		2/21/08 ( 2/22/08)	Tu Tu	4-19-08 4126el6
5. William J. Parker 6. Walter J. Ford	Super Inst - Nuc Op / Le instructor	William 1. For	-2/22/08 3 	with the	4/24/06 4/10/08
7. L.A. Baker 8. Tinggreen	Supy Nuclear Shift Oper.	John	3/5/8 3/14/8	Agur.	4/16/8
9. Brian Dobneier	Reactor Operator / E Shift Reactor Operator / O Shift	Brigg & bolombier	3/14/08/ 3/14/08/	Bugn & Dolmer	4/16/08
11. F.K. Grover	Dos Manager / Just Toshweler	The Division	- 3/14/08 3/17/08	2 Labore	- 4/10/08
13. Kevin J. Labat 14. Carl F. Dawn TE	Sr. Zastrucka- Nuc OPS / BLO Easts Sr. Instructor / ILO instructor	elf four	3/17/08		= 4/16/08, 4/73/08
·15. Richard F Bowen NOTES: OVA	SRO UNIT SUPERVISUR	- RBowe-	3//8/08	RBown	4/16/08
R. PHMPUT	RO	Robard Phips	3/19/08	٠ ، ، ،	W/ 4/1/08

#### 1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 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 3/17-1/2/8. 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. A. RUCKEL	HP SHIFT SUPERVISOR	if red	3-25-08	ANCIL	4-16-08
2. HOWER SCHILL	SHIFT TECHNICAL ADVISOR	1 Alex	3/25/08	Alexand.	4/11/03
3. Andy T. Barbee	Mgr-Training /Training Mor	/Con Soule	3/26/08	AND IN SOME	p 4-16-08
4. Don Jernigor	Site UP J'		3/26/00 4		4/1400
5. SEAN LOCASCIO	R.O.	1	<u> 3/28/8</u>	1 Ay	<u> </u>
6. William Henry Moore	Senior Reactor Operator Uni	it Supy com God	4-1-08	withour	4-26-08
~7. H Johnson	NUS	May	4/1/4	M	4/14/8
8.725 Jo DA				$\iota$	•
9					
10					
11					
12.					
13.					
14					
15					
NOTES:					

#### 1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of  $\frac{3/7 - 4/4}{4}$  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 317-419. 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
4. Christopher G. Huth 5. PHAT TEAN - LAM 6. AARON D BROWN	TRAINING ADMINISTRATOR  Superior - Neber Training  In Sor Similation Suppose Coom  SSG - Boffware  STM cook (HARDWARE)  SRSIM SUPPOSE GOED SOFTWARE  ONLY MITTERS	Umy C. Epps us Piplet white Chr. Hith	10-22-07 12/12/07 12/12/07 12/12/07 12/12/03 12/02/03	Agricon Spps Referration Construction	4-16-08 -1/10/08 -1/24/08 -4/24/08 -4/24/08 -24/08 -24/08
7. Rodney Adams 8.	OMELATIONS DUST.		<u>io/20/08</u>		<u> 7/24/08</u>
9 10.					
11					
12 13.					
14				,	
15 NOTES:		4			

Facility:	Surry	Date of Examination: March 2008
Examination Level: RC	S S	SRO  Operating Test Number: 2008-301
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations		
Conduct of Operations	N, R	Title: Perform a Quadrant Power Tilt Ratio calculation (QPTR).
G2.1.7 (3.7/4.4)	14, 14	Description: Given plant conditions determine the QPTR in accordance with QPTR worksheet.
Equipment Control	N, R	Title: Perform Measurement of Macrofouling Blockage of Component Cooling Heat Exchanger (CCHX) 1CC-E-1A Surveillance (RO only)
G2.2.12 (3.0/3.4)	11, K	Description: Determine status of the CCHX given plant data and associated graphs from 1-OSP-SW-002 to include completion of procedure acceptance criteria and follow-on tasks.
Radiation Control	MD	Title: Calculate radiation exposure when performing task in containment (varying fields and use of personnel)
G2.3.2 (2.5/2.9)	M, R	Description: Job to be performed in CTMT. Select number of personnel to perform the job in accordance with ALARA practices and determine the expected dose.
Emergency Plan		Title: Complete Report of Emergency to State and Local Governments (RO only).
G2.4.43 (2.8/3.5)	D, S	Description: Complete report per EPIP-2.01, Notification of State and Local Governments (Met data and stability class determination required).
		ed for SROs. RO applicants require only 4 items unless they are retaking s, when all 5 are required.
* Type Codes & Criteria:	(D)irect from (N)ew or (	room, (S)imulator or Class(R)oom om bank (3 for ROs; 4 for SROs & RO retakes) (M)odified from bank (1) (2 exams (1; randomly selected)

Facility:	Surry		Date of Examination:	March 2008		
Examination Level: RC		SRO ☑	Operating Test Number	r: <u>2008-301</u>		
Administrative Topic (see Note)	Type Code*		Describe activity to be perfe	ormed		
Conduct of Operations G2.1.5 (2.3/3.4)	M, R	Descript	aluate Overtime Eligiblity. (SRO onlion: Given various Operator hours of termine which operator is eligible to	work for previous		
Conduct of Operations G2.1.7 (3.7/4.4)	N, R	Descript	rform a Quadrant Power Tilt Ratio cation: Given plant conditions determined to with QPTR worksheet.			
Equipment Control G2.2.12 (3.0/3.4)	N, R	associate  Descript	rform a review of a performance test ed components. (SRO only) ion: Review 1-OPT-CS-006 (RWST d Containment Spray System MOV S	Chemical Addition		
Radiation Control G2.3.2 (2.5/2.9)	M, R	Descript personne	ellculate radiation exposure when perferent (varying fields and use of person ion: Job to be performed in CTMT. Sel to perform the job in accordance writing the expected dose.	nel) Select number of		
Emergency Plan G2.4.41 (2.3/4.1)	M, S	Descript	assify an event in accordance with El ion: Facility JPM 88.05. Modified so rmed with requested approval of faul	uch that EPIP-1.01 will		
	NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.					
* Type Codes & Criteria:	(D)irect fr (N)ew or (	rom bank (3 (M)odified	nulator or Class(R)oom 5 for ROs; 4 for SROs & RO retakes) from bank (1) 1; randomly selected)			

Facility:       Surry       Date of Examination:       March, 2008         Exam Level:       RO ☑ SRO-I ☐ SRO-U ☐       Operating Test No.:       2008-301					
Control Room Systems <sup>®</sup> (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)					
System / JPM Title		Type Code*	Safety Function		
a. CVCS / Perform a blended flow make-up accordance with 1-OP-CS-004. K/A - 004		S/N	I		
b. ESFAS / Transfer the SI System to Cold L (1-ES-1.3). K/A - 013A4.01 (4.5/4.8)		S/L/A/EN/D	II		
c. RHR / Initiate RHR alternate decay heat re cooling with a charging pump. K/A - 005A APE25AA1.02 (3.8/3.9)	•	S/L/D	IV - P		
d. CS / Secure containment depressurization (3.2/3.7)	equipment. 026A2.08	S/L/A/M	V		
e. NI / Remove a failure source range NI from reactor startup. 015A4.03 (3.8/3.9)	S/L/A/D	VII			
f. CW / Respond to a low level transient. 07	CW / Respond to a low level transient. 075A2.02 (2.5/2.7)				
g. WGDS / Initiate the release of a waste gas (3.1/3.9)	S/A/N	IX			
h. PPC / Depressurize the RCS to minimize EPE038 EA1.04 (4.3/4.1)	S/D	III			
In-Plant Systems <sup>®</sup> (3 for RO); (3 for SRO-I); (3 or 2 for	SRO-U)				
i. RC / Locally establish RCS and SG HI/L0 APE068.AA1.21 (3.9/4.1) / APE067.AA2		E/D	VIII		
j. AFW / Establish make-up to the ECST in 3.1 Attachment 4. 061A1.04 (3.9/3.9)	accordance with 2-ES-	E/L/A/R/N	IV - S		
k. EDG / Manually start an emergency diese panel. 064A4.01 (4.0/4.3)	E/A/M	VI			
All control room (and in-plant) systems must be diffe and functions may overlap those tested in the control.		unctions; in-plant sy	stems		
* Type Codes	Criteria for RO/S	RO-I / SRO-U			
(A)Iternate path (C)ontrol room					

(D)irect from bank	<9/<>4
(E)mergency or abnormal in-plant	<u>&gt;</u> 1/≥1/ <u>&gt;</u> 1
(EN)gineered safety feature	- / - / <u>≥</u> 1
(L)ow-Power / Shutdown	<u>&gt;</u> 1/≥1/≥1
(N)ew or (M)odified from bank including 1(A)	<u>&gt;</u> 2/≥2/≥1
(P)revious 2 exams	$\leq 3/\leq 3/\leq 2$ (randomly selected)
(R)CA	<u>≥</u> 1/≥1/≥
(S)imulator	

Date of Examination: March, 2008 Operating Test No.: 2008-301						
Control Room Systems <sup>®</sup> (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)						
	Type Code*	Safety Function				
o the Unit 1 RWST in A4.04 (3.2/3.6)	S/N	I				
g Recirculation Mode	S/L/A/EN/D	II				
moval by forced feed 2.03 (2.9/3.1) and	S/L/D	IV - P				
equipment. 026A2.08	S/L/A/M	V				
n service during a	S/L/A/D	VII				
5A2.02 (2.5/2.7)	S/D	VIII				
g. WGDS / Initiate the release of a waste gas decay tank. 071A4.26 (3.1/3.9)						
SRO-U)						
interface integrity. .16 (3.3/4.0)	E/D	VIII				
accordance with 2-ES-	E/L/A/R/N	IV - S				
generator at the local	E/A/M	VI				
ent and serve different safety for room.	unctions; in-plant sy	stems				
Criteria for RO/S	RO-I / SRO-U					
<u>&lt; 9</u>	/ <u>≤</u> 8/ <u>≤</u> 4					
	Operating Test No.: or SRO-U)  of the Unit 1 RWST in A4.04 (3.2/3.6) g Recirculation Mode  moval by forced feed 2.03 (2.9/3.1) and  equipment. 026A2.08  of service during a  5A2.02 (2.5/2.7)  decay tank. 071A4.26  GRO-U)  of interface integrity. 16 (3.3/4.0)  accordance with 2-ES-  generator at the local  ent and serve different safety froom.  Criteria for RO/S  4-6  <9	Operating Test No.:    2008-30				

(EN)gineered safety feature	- / - / <u>≥</u> 1
(L)ow-Power / Shutdown	<u>≥</u> 1/≥1/≥1
(N)ew or (M)odified from bank including 1(A)	<u>&gt;</u> 2/ <u>&gt;</u> 2/ <u>&gt;</u> 1
(P)revious 2 exams	$\leq 3/\leq 3/\leq 2$ (randomly selected)
(R)CA	<u>&gt;1/≥1/&gt;</u>
(S)imulator	
` '	

Facility: <u>Surry</u> Exam Level: RO □ SRO-I □ SRO-U ☑	Date of Examinatio Operating Test No.		
Control Room Systems <sup>®</sup> (8 for RO; 7 for SRO-I; 2 or 3 for	or SRO-U)		
System / JPM Title		Type Code*	Safety Function
a. ESFAS / Transfer the SI System to Cold Le (1-ES-1.3). K/A - 013A4.01 (4.5/4.8)	g Recirculation Mode	S/L/A/EN/D	II
b. RHR / Initiate RHR alternate decay heat re cooling with a charging pump. K/A - 005A APE25AA1.02 (3.8/3.9)	•	S/L/D	IV - P
c. CS / Secure containment depressurization (3.2/3.7)	equipment. 026A2.08	S/L/A/M	V
d.			
e.			
f.			
g.			
h.	·		
In-Plant Systems <sup>®</sup> (3 for RO); (3 for SRO-I); (3 or 2 for S	BRO-U)		
i. RC / Locally establish RCS and SG HI/LC APE068.AA1.21 (3.9/4.1) / APE067.AA2	<i>C</i> ,	E/D	VIII
j. AFW / Establish make-up to the ECST in 3.1 Attachment 4. 061A1.04 (3.9/3.9)	accordance with 2-ES-	E/L/A/R/N	IV - S
k.			
All control room (and in-plant) systems must be different and functions may overlap those tested in the control		unctions; in-plant sy	stems
* Type Codes	Criteria for RO / S	SRO-I / SRO-U	
(A)lternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	\(\frac{\leq \cdot \}{\rm \cdot \} \)	3/4-6/2-3 $9/\le 8/\le 4$ $1/\ge 1/\ge 1$ $1/\ge 1/\ge 1$ $1/\ge 1/\ge 1$ $2/\ge 2/\ge 1$ $3/\le 3/\le 2$ (randomly $1/\ge 1/\ge 1$	v selected)

Facilit	ty: SURRY POWER STATION Date of Examination: 3/17/08 Operating	j Test l	Numbe	r: 301
	4. Compared Criticaria		Initial	is
	1. General Criteria	а	b*	c#
а.	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).	M	600	4/2
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	M	60	Spe
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	M	(Qu	YE
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	M	6v	1/4
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	M	(P)	p
	2. Walk-Through Criteria	Ī.,	Ī	
a.	Each JPM includes the following, as applicable:     initial conditions     initiating cues     references and tools, including associated procedures	Ŋ	60	
	<ul> <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> <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>			Á
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.	M	(ov	H
	3. Simulator Criteria	Ī		
	associated simulator operating tests (scenario sets) have been reviewed in accordance with ES-301-4 and a copy is attached.	M	(Or	1/2
	Printed Name / Signature	Da	te	t
a. A	Author WILLIAM W. MARSHALL/ANDMahll 3)	5/08	>	
b. F	Facility Reviewer(*) DAVID H WILSON DAVID 3/5/	lews		
c. N	NRC Chief Examiner (#) Frank J. Elishardt Frys/ (# 3/	12/4	<u>V E</u>	
d. N	NRC Supervisor	12/08	<u>'</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:	SURRY POWER STATION Date of Exam: 3/11/45 Scenario Numbers: 1	/ ス / 3 Operatir	ng Test	No.: 3	101
	QUALITATIVE ATTRIBUTES			Initial	3
			а	b*	с#
1.	The initial conditions are realistic, in that some equipment and/or instrumenta of service, but it does not cue the operators into expected events.	tion may be out	M	(g)	1/2
2.	The scenarios consist mostly of related events.		M	(b)	The
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)		M	(O)	JE
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated in without a credible preceding incident such as a seismic event.	nto the scenario	M	(P)	J2
5.	The events are valid with regard to physics and thermodynamics.		M	ON	fr
6.	Sequencing and timing of events is reasonable, and allows the examination to complete evaluation results commensurate with the scenario objectives.	eam to obtain	M	(O)	ft
7.	If time compression techniques are used, the scenario summary clearly so in Operators have sufficient time to carry out expected activities without undue Cues are given.		M	€	JE
8.	The simulator modeling is not altered.		M	Ow	44
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open performance deficiencies or deviations from the referenced plant have been to ensure that functional fidelity is maintained while running the planned scen	evaluated	M	(a)	THE
10.	Every operator will be evaluated using at least one new or significantly modif All other scenarios have been altered in accordance with Section D.5 of ES-3		M	(ور	'Ar
11.	All individual operator competencies can be evaluated, as verified using Forr (submit the form along with the simulator scenarios).	n ES-301-6	M	(Ow	The
12.	Each applicant will be significantly involved in the minimum number of transic specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	M	(OL)	St
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	M	(Ox)	fl
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes			
1	Total malfunctions (5–8)	81818	M	(n)	3/2
2.	Malfunctions after EOP entry (1–2)	2/3/3	M	(0)	42
3.	Abnormal events (2–4)	41414	M	6	4/2
4.	Major transients (1–2)	3/2/3	7	(a)	1/1/12
5.	EOPs entered/requiring substantive actions (1–2)	21212	7	6	1/2
6.	EOP contingencies requiring substantive actions (0–2)	1111	M	00	111
7.	Critical tasks (2–3)	3 1212	M	(04)	4/2

Facility:	SURRY PURE STATION Date of Exam: 3/17/65 Scenario Numbers: 4	イルS / Operation	ng Test	No.: 3	10I
	QUALITATIVE ATTRIBUTES		ļ	Initial	s
			а	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumenta of service, but it does not cue the operators into expected events.	ition may be out	M	<b>O</b> O	H
2.	The scenarios consist mostly of related events.		M	00	Th
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)		M	(D)	(JE
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated i without a credible preceding incident such as a seismic event.	nto the scenario	M	<u>س</u>	4/2
5.	The events are valid with regard to physics and thermodynamics.		M	Ga	The
6.	Sequencing and timing of events is reasonable, and allows the examination to complete evaluation results commensurate with the scenario objectives.	eam to obtain	M	(D)	1/2
7.	If time compression techniques are used, the scenario summary clearly so in Operators have sufficient time to carry out expected activities without undue Cues are given.	dicates. time constraints.	M	(P)	推
8.	The simulator modeling is not altered.		M	60	Rft
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open performance deficiencies or deviations from the referenced plant have been to ensure that functional fidelity is maintained while running the planned scen	evaluated	M	@	/fr
10.	Every operator will be evaluated using at least one new or significantly modif All other scenarios have been altered in accordance with Section D.5 of ES-		M	(DW)	1/2
11.	All individual operator competencies can be evaluated, as verified using Forr (submit the form along with the simulator scenarios).	n ES-301-6	M	(ov)	JL
12.	Each applicant will be significantly involved in the minimum number of transic specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	191	(Or)	1/2
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	M	60	1/2
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes	<u> </u>		
1.	Total malfunctions (5–8)	7/8/	M	(D)	JE.
2.	Malfunctions after EOP entry (1–2)	2/2/	M	(O)	1/1
3.	Abnormal events (2–4)	4141	M	(a)	4/2
4.	Major transients (1–2)	2131	M	(01)	1.4
5.	EOPs entered/requiring substantive actions (1–2)	3/2/	M	(a)	1/2
6.	EOP contingencies requiring substantive actions (0-2)	1/1/	17	(O)	1/2
7.	Critical tasks (2–3)	2,2,	M	6	190

Facility: S	Surry Pow	er Stat	ion			Dat	e of	Exam:	3/17/20	008	Ор	eratin	g Tes	t No.	:		
A P	E V								Scenar	ios							
P L I	E N T		1			2			3			4		T O T	N I		
C A N	T		CREV			CREW		1	REW SITION		l .	REW SITION	١	A L	N 1 N	1	
T	P E	S R O	A T C	В О Р	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		L M	J 1 (*) 	
		U						0			0	٥			R	1	U
RO	RX								5					1	1	1	0
⊠ SRO-I	NOR								1				1	2	1	1	1
	I/C								3,4,7,9				3,7,8	7	4	4	2
SRO-U	MAJ								6,8,9				6,8	5	2	2	1
	TS													0	0	2	2
RO	RX											5		1	1	1	0
⊠ SRO-I	NOR									1				1	1	1	1
	I/C									2,8		2,4,6		5	4	4	2
SRO-U	MAJ									6,8,9		6,8		5	2	2	1
	TS													0	0	2	2
RO	RX							5			5			2	1	1	0
SRO-I	NOR							1			1			2	1	1	1
	I/C							2,3,4,7,8,9			2,3,4,6,7,8			12	4	4	2
SRO-U	MAJ							6,8,9			6,8			5	2	2	1
$\boxtimes$	TS							2,4			3,4,5			5	0	2	2
RO	RX													2	1	1	0
□ SRO-I	NOR													2	1	1	1
	I/C													8	4	4	2
SRO-U	MAJ									ļ				5	2	2	1
	TS													3	0	2	2

- 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.
- 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:	Surry Pow	er Stat	ion			Date (	of Exa	m: 3/1	17/200	8	Ol	peratin	g Tes	t No.	:		
A	E							Sc	enario	S						•	
P P	V E				Γ									- I		A	
Ļ	N		1			2		:	5			4		T	N I	1	
C	Т	С	REW		CREW I	POSI	TION	С	REW			CREW	······································	T	N		
A	T		SITIO	N					SITION	1		OSITIO		A	I N		
N T	Y P	S	Α	В	S	Α	В	S	Α	В	S	Α	В		U	j	
	E	R O	T C	0 P	R O	T C	O P	R O	T C	O P	R O	T C	O P		IV	1 (*)	
		)		1				0		'		0	'		R	ı	U
RO	RX					4								1	1	1	0
⊠ SRO-I	NOR									3				1	1	1	1
	I/C					1,3,6				2,4,7				6	4	4	2
SRO-U	MAJ					6,8				6,8,9				5	2	2	1
	TS		<u> </u>											0	0	2	2
RO ⊠	RX NOR								1		-			1	1	1	0
SRO-I	I/C						2		2.5.6		-			1	1	1	1
□ SRO-U	MAJ						5,7,9 6,8		3,5,6 6,8,9					6 5	2	2	2
	TS						0,8		0,0,9					0	0	2	2
RO	RX				4		ļ		1	-				2	1	1	0
	NOR				2									1	1	1	1
SRO-I ⊠	I/C				1,3,5,6,7,9				3,5,6					9	4	4	2
SRO-U	MAJ				6,8				6,8,9					5	2	2	1
	TS				1,3									2	0	2	2
RO	RX					4		1						2	1	1	0
SRO-I	NOR					2		3						1	1	1	1
$\boxtimes$	I/C					1,3,6		2,3,4,5,6,7						9	4	4	2
SRO-U	MAJ					6,8		6,8,9						5	2	2	1
	TS							2,3						2	0	2	2

- 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.
- 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: Surry Power Statio	'n		Dat	e of l	Exan	ninati	ion:	3/17	/2008	3	Орє	eratir	ng Te	st N	o.: 3(	)1
							AF	PLI(	CAN	TS						
	S	RO SRO- SRO-	-I [		S	30P 3RO- 3RO-	-I [		S	RO SRO- SRO-	_	]	S	RO SRO- SRO-	_	
Competencies	s	CEN	IARIO	၁	s	CEN	IARI	<b>o</b>	S	CEN	IARI	<b>o</b>	S	CEN	IARIO	<b>5</b>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	5	1	3	2	4	5	1	3	5	1	3	2	5	1	3	2
Comply With and Use Procedures (1)	1	2	1	1	8	4	1	7	1	2	1	1	1	2	1	1
Operate Control Boards (2)	4	4	5	5	2	8	2	5	4	4	5	5				
Communicate and Interact	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Demonstrate Supervisory Ability (3)									4	4	5	5	4	4	5	5
Comply With and Use Tech. Specs. (3)									2	3	4	3	2	3	4	3
Notes: (1)Includes Technical Specification (2)Optional for an SRO-U	on co	mpliar	nce fo	r an F	₹0.											

(3)Only applicable to SROs.

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.

Facility: Surry Power Statio	ภา		Date	e of I	Exan	ninati	ion:	3/17/	/2008	3	Орє	∍ratin	ıg Te	st No	o.: 30	)1
							AF	PLIC	CAN	ΓS						
	F	₹0		$\boxtimes$	E	30P		$\boxtimes$	F	२०		]	F	RO	Γ	
		SRO- SRO-	h		11	SRO- SRO-	_		l .	SRO- SRO-	-	]	1	SRO- SRO-	-	
Competencies	S	CEN	IARI	0	S	CEN	IARIO	Э	S	CEN	IARI	Э	S	CEN	IARIO	Э
	5				5				5				5			
Interpret/Diagnose Events and Conditions	3				2				3				3			
Comply With and Use Procedures (1)	1				3				1				1			
Operate Control Boards (2)	4				6				4							
Communicate and Interact	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Demonstrate Supervisory Ability (3)									1				1			
Comply With and Use Tech. Specs. (3)									2				2			
Notes: (1)Includes Technical Specificati (2)Optional for an SRO-U. (3)Only applicable to SROs.	on co	mpliaı	nce fo	or an F	₹0.											

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.

							Initi	ial_	
	Item Description					а	b'	*	C#
1.	Questions and answers are technically accurate and applicable	e to the facility.				Od	NI	/A.	1/2
2.	a. NRC K/As are referenced for all questions.					CUR	9		7
•	b. Facility learning objectives are referenced as available.					Carre			/{E
3.	SRO questions are appropriate in accordance with Section D.	2.d of ES-401		,		all			Æ
4.	The sampling process was random and systematic (If more the from the last 2 NRC licensing exams, consult the NRR OL pro		RO quest	ions w	ere repeated	Olk			/ // E
5.	Question duplication from the license screening/audit exam withe item that applies) and appears appropriate:  the audit exam was systematically and randomly developed.  the audit exam was completed before the license exam was before examinations were developed independently, or  the licensee certifies that there is no duplication, or  other (explain)	i, or	s indicate	ed belo	w (check	CH(		7	/fl
	Bank use meets limits (no more than 75 percent								
6.	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.	8ank 22 / 3	Modi 21 /	fied 3	New 32 / 19	ON			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/				C/A	ell			1/2
	SRO question distributibution.	37 /	11	38	/ 14	041			1
8.	References/handouts provided do not give away answers or	aid in the elimina	ation of c	listract	ors.	CUI	H		199
9.	Question content conforms with specific K/A statements in t examination outline and is appropriate for the tier to which the deviations are justified.					All		1	(eft
10.	Question psychometric quality and format meet the guideline	s in ES Appendi	жВ.			CRK	IJ	, /	EK
11.	The exam contains the required number of one-point, multiple and agrees with the value on the cover sheet.			is corre	ect	CUI.	N,	105	J.
	Printed Nar	ne / Signature		B		Da	ate	/	<del>, , , , , , , , , , , , , , , , , , , </del>
a. Autho	or <u>Crais Kontz</u>		X		_	4/3	<u>'/</u>	08	_
b. Facilit	ty Reviewer (*) WIA - WRC	DEVE	COR	ED	_				-
c. NRC	Chief Examiner (#) Four J. Elis	Marst	/fa	14	T	4/3	10	18	
d. NRC	Regional Supervisor	DUSNA		w.G		04/0	3/0	8	-

#### **Written Examination Review Worksheet**

Form ES-401-9

	1.	2.		3. Psyc	hometr	ic Flaws	3		4. Job Cor	ntent Flav	vs	5.	Other	6.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only	6. U/E/S

#### 7. Explanation

#### Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- 1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- 2. Enter the level of difficulty (LOD) of each question using a 1 5 (easy difficult) rating scale (questions in the 2 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified:
  - The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
  - The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
- The answer choices are a collection of unrelated true/false statements.
- The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
- One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- 4. Check the appropriate box if a job content error is identified:
  - The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
  - The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
  - The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
  - The question requires reverse logic or application compared to the job requirements.
- 5. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are *designated SRO-only* (K/A and license level mismatches are unacceptable).
- 6. Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- 7. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometrio	: Flaws		4.	Job Cont	tent Flav	v s	5. C	Other	6
	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
1	Н	3	<b>V</b>											E
008.A	K2.01		Frank	reviewed	d -									
			Restru	ctured s	tem and	distracto	ors							
			Done				472 31 415				· · · · · · · · · · · · · · · · · · ·			
2	Н	4												S
011.E	K3.12			new que	estion.									
			2/21											
				reviewed	d -									
		***	Done					Q40.500 vz					.3751	•
3	Н	4												s
007.E	K2.02		Frank	reviewed	d -									
			Meets	KA, no	other co	mments				,				
4	Н	2	,											S
022. <i>A</i>	AA2.03		2/21											
									oonent no			h has fa	iled.	
			Chang	ged distra	acter B t	o include	e the actu	ual comp	onent wh	nich faile	ed.			
5	F	2												S
026.4	AA1.07		Frank	has rev	iewed sa	at			-					
6	F	2	<b>✓</b>											S
027.	AA1.01		Frank	reviewe	d									
			Focus	ed stem	and dis	tractors								
,			Final											

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometrio	Flaws		4.	Job Con	tent Flav	v s	5. C	other	6
	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
7	Н	4	<b>✓</b>											S
029.E	K3.10			reviewed										
				ed quest	ion and	added D	Α		,					
			Final											
8	Н	3								. 🗆				S
038.E	K1.01		Frank	has rev	iewed S	ΑT	÷							
9	Н	4												S
040.A	A1.24		Frank	Reviewe	ed									
			Minor	editorial	remarks	comple	ted.							
10	Н	4												s
054.A	K1.02		Frank	reviewe	d.									
			Editor	ial remaı	ks comp	oleted.								
			2/21											
			Frank could	thought not find	this mig a repeat	ht be an questior	overlap ( า.	question	. Search	ned throu	igh the 1	00 ques	tions her	e and
11	F	2	<b>✓</b>											E
055.E	EA2.05		Frank	reviewe	d.									
			2/21											
			Chang NOT i	ged ques reached	stion wor	ding "Sta of their o	ation Bat lesign dis	teries ar scharge	e NOT fu rating".	ılly deple	eted" to "	Station E	Batteries	have

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD	2	3. Psyc	hometric	: Flaw s		4.	Job Cont	tent Flav	v s	5. C	Other	6
Gii.	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
12	F	2												Е
056.A	A1.04			reviewed										
				anized s										
				ed distra	ctors									
			Final											
13	Н	3												s
057.A	A2.19		Frank	reviewed	d.									
			2/21											
	-		Made "CC FI	minor ed low to th	litorial co e HX rer	orrections nains the	s based o	on Frank or "is los	k's input. et".	Change	ed 2nd pa	art of ead	ch distrac	eter to
14	F	2	<b>✓</b>											E
062.A	AG2.1.32	2	Frank	reviewe	d. OK			٠						
			2/21											
			Minor	editorial	changes	s, i.e. Cla	arified wo	ording in	stem of o	question				
15	F	2												E
065.A	AK3.03		Frank	reviewe	d									
			Chang	ged struc	ture of c	uestion	and distr	actors						
16	F	3				<b>✓</b>								E
WE0	4.EG2.4	l.31	Modifi	reviewe ed to cha criteria fo		t two dis .2	tractors f	rom Rad	d Monitor	alarms	to sump	alarms 1	that are n	ot
			OK											
			2/21											
					actors A the ques		natch the	annunc	ciator disp	olay and	not the r	ad moni	itor numb	ers.

# Written Examination Review Worksheet

<u> </u>	1	2	3.	Psych	ometric	Flaw s		4.	. Job Cont	ent Flav	vs	5. C	ther	6
Q#	LOK (F/H)	LOD (1-5)	Stem C	ues	T/F	Cred.	Partial	Job-	Minutia	#/	Back-	Q=	SRO	U/E/S
	` ′	, ,	Focus			Dist.		Link		units	w ard	K/A	Only	
			e <sup>c</sup>											
17	Н	3				<b>✓</b>								E
WE12	2.EK2.2		Frank rev	viewed										,
			Changed	distrac	tors									
			Final											
							171							
18	Н	4					<b>Y</b>							E
WE0	5.EK3.2		Frank rev	viewed.										
			Changed open valv		g such	that FR	V bypass	s valve i	s given to	be clos	ed and a	sk what	it takes t	o .
			2/21											
			Minor edi	itorial c	orrectio	ns.								
44					NAMES ASSESSMENT		hand a shared							
19	н	3				<b>✓</b>								E
001.A	K2.06		Frank rev	viewed										
			Add plau	sibility t	to spee	d of dist	ractors -	72 and	8 too big	of gap				
			Changed	distrac	ctors ar	d stem								
			Final											
	·													
20	F	2												E
003.4	AG2.4.1		Frank rev Made cha response required.	anges s was to	so that	questior rod conf	n is now r trol in ma	modified Inual. V	from INF Vith 2 rods	O bank s now b	question eing affe	ı. Origin oted, a F	al questi Ix trip is	on
			2/21											
			Added D	elta Flu	ıx alarn	n to sten	n to mak	e distrac	cter C mo	re plaus	ible.			
21	Н	3	<b>~</b>											S
005.4	AA2.01		Frank rev	viewed										
			Clarified	stem										
			Final											
											3417			

#### ES-401, Rev. 9 **Written Examination Review Worksheet** Form ES-401-9 2 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6 Q# LOK LOD (F/H) (1-5)Stem Cues T/F Cred. Partial Minutia #/ Back-Q= SRO U/E/S Jobw ard Link units K/A Only Focus Dist. F 22 3 S 061.AA2.05 Frank reviewed. OK 2/21 Made minor changes to qualify that there are currently no fuel handling activities in progress. 23 F 2 **V** П Ε 068.AK3.09 Frank reviewed changed distractors corrected DA 24 F 2 s 076.AK3.05 2/22 Frank reviewed OK 25 Н 3 s WE13.EK1.2 Frank reviewed Clarified distractors Final F 2 26 Ε WE16.EA2.2 2/22 Frank reviewed - modifications made OK

27

Н

WE02.EG2.4.31

4

Frank revewed SAT

П

П

П

S

<b>ES-4</b> (	01, I	Rev.	g
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# Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometric	: Flaw s		4.	Job Cont	ent Flav	/ S	5. O	other	6
	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
<b>28</b> 003.K	F (6.14	2	Frank	reviewed										S
			Done											
<b>29</b> 004.A	F .2.13	3		reviewed		<b>✓</b> distracto	ors							S
			Final	÷										
<b>30</b> 005.k	H (2.03	2	Remov	reviewed		question								S
			Final				S-10-11-11						Personal	
<b>31</b>	F 43.05	2	Frank	reviewed	[·	<b>✓</b>								E
			Chang	o of RWS	otor over	heating								
			Done -	need pı	rocedure	referen	ce for inf	ormatior	n found in	lesson	plan			
<b>32</b> 004.h	F (6.13	2	<b>✓</b> Frank Added	reviewed	L t									S
			Chang	ged ques		to overl	ap							

ES-4	10	1,	Re	v.	9
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# **Written Examination Review Worksheet**

Q#	1 LOK	2 LOD		3. Psycl	nometrio	Flaws		4.	. Job Cont	tent Flav	vs	5. C	ther	6
<del>Qii</del>	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
33	Н	3	П.	П						П				s
008.K	(1.02		Frank	reviewed					_		-			
			Final											
34	Н	3												S
010.k	(6.03		Frank	reviewed										
			Final											
35	F	2												S
012.0	32.1.27		Frank	reviewed	1									
			Rewrit	te										
			Wrote	new que	stion									
36	Н	3												S
013.k	(2.01		Frank	reviewed	l -									
			Focus	ed Stem										
			Final											
37	Н	2												S
003.	<b>&lt;</b> 3.01		Frank	reviewed	i -									
			Added you ca	d below E an not be	CP to to critical	he stem. if still pu	Check tilling CB	with plar C this Ic	nt on review in the g	ew. May group.	not need	d this ad	ditional ii	nfo if
38	F	2	<b>✓</b>			<b>Y</b>								E
076. <b>i</b>	<b>K</b> 1.12		Frank	reviewed	t									
			chang chang	jed distra jed stem	ctors									
			Final	٠										

ES-401, Rev. 9 **Written Examination Review Worksheet** Form ES-401-9 2 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6 Q# LOK LOD (F/H) (1-5)Stem Cues T/F Partial Job-Minutia #/ Back-SRO U/E/S Cred. Q= Link Dist. w ard Only Focus units K/A Н 3 39 S 078.K2.01 Frank reviewed -Minor editorial changes to stem and distractors Final 40 Н 3 s 103.G2.1.12 Rewrote question Frank reviewed SAT F 2 41 **V** s 073.K1.01 Frank reviewed Changed distractors Final 42 Н 2 S 007.K4.01 Frank reviewed Minor editorial changes to stem and distractors Final

**V** 

S

43 .

064A.4.06

3

Reviewed by frank

Modified distractors

Final

ES-401, Rev. 9 **Written Examination Review Worksheet** Form ES-401-9 2 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6 LOD LOK Q# (F/H) (1-5)Stem Cues T/F Cred. Partial Job-Minutia #/ Back-Q= SRO U/E/S w ard Link K/A Focus Dist. units Only 44 Н 3 **V** Ε 008.A1.04 Frank reviewed Rewrote question Frank reviewed - editorial changes Final 45 Н 4 **V** Ε 059.A4.03 Frank reviewed Changed stem Final 46 Н 3 s 022.K1.01 Frank reviewed Final F 47 2 Ε 026.A4.01 Frank reviewed Changed stem format Final 48 F 2 s

Frank reviewed - question replaced

Frank reviewed

Final

039.K5.01

**Written Examination Review Worksheet** ES-401, Rev. 9 Form ES-401-9 2 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6 LOK LOD Q# U/E/S (F/H) (1-5) SRO Stem Cues T/F Partial Minutia #/ Back-Q= Cred. Job-Dist. Link w ard K/A Only Focus units F 49 2 S 059.A4.08 Frank reviewed Corrected distractor Frank reviewed added symmetry to distractors Final F 50 2 Ε 061K4.01 Frank reviewed - rewrote question Changed to 2x2 format 51 Н 3 Ε 062.A3.05 Frank reviewed Changed distractors to 2x2 Rearranged the distractors Final

52	Н	2									S
063.A	2.01										
							 		-	T-000000000000000000000000000000000000	
53	F	3									S
064.K	3.03		Frank	reviewe	d						
			Final								
54	Н	4									s
004.K	5.15		Frank	reviewe	d - looks	s OK					

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometric	: Flaws		4.	Job Cont	tent Flav	/ S	5. C	ther	6
·	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
55	F	3				<b>~</b>								E
103.K	3.02		Frank	reviewed	d									
			Rewro	te quest	ion									
			Chang	ed distra	actors									
			Final											
56	Н	3											Ļ	s
079.K	(4.01													
57	F	2												E
086.A	4.05		Frank	reviewed	t									
			Chang	jed distra	actors fo	rmat								
			Added	type of	operatio	n								
58	Н	3												E
002.K	(6.02		Frank	reviewe	d									
			Chang	jed Distr	actor for	mat								
			Final											
59	F	3												S
029.A	A3.01		Frank	reviewe	d									
			Chang	ged ques	tion									
			Final											

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometric	Flaws		4.	Job Cont	tent Flav	v s	5. C	ther	6
Q#	(F/H)	(1-5)	Stem	Cues	T/F	Cred.	Partial	Job-	Minutia	#/	Back-	Q=	SRO	U/E/S
			Focus			Dist.		Link		units	w ard	K/A	Only	
60	F	4												S
035.K	1.01		Frank	reviewed	t									
			Added Added		to TDAF	Р								4
			Final	٠										
61	Н	3												E
045.A	1.05		Frank	reviewed	t									
			Chang	jed distra	actors ar	d stem								
			Final											
					***************************************									
62	F	3												S
071.K	(4.04			reviewed npled KA		no auto	actions ir	ı LW Sy	stem					
			Chang	ed form	at of ster	m								
			Final											
63	F	2												s
015. <b>k</b>	(5.10		Verify adjust	with the ments m	licensee ade alw	that cho ays in th	oices C 8 e increas	D coule e or dec	d not be o	consider rection?	ed correc	ct. Also,	are the	
64	H,	3												S
001.0	32.1.27		Chang	ged ques	stion due	to overl	ap\							
			Final											

# ES-401, Rev. 9 Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometric	Flaws		4.	Job Cont	tent Flav	V S	5. C	Other	6
Qп	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
65	Н	3												S
011.A	2.10		-rank Added	reviewed DA										
			Chang	jed stem										
			Final											
66	Н	2												S
G2.1.	1		Replac	ced ques	tion due	to overl	ар							
			Chang	jed Ques	tion and	l distract	ors							
			Final											
67	F	3												E
G2.1.	14			reviewed										
				jea aistra I referend		ie to rete	erence ch	iange						
				ged distra		nd quest	ion							
				ged Distra		·							•	
			Final											
68	Н	3												S
G2.1.	.7		Frank	reviewed	d									
				d Annunc	iator de	signatior	าร							
			Final											
69	F	2												E
G2.2			Frank	reviewe	d - This	 question	was mo	 dified to	change o	correct a	nswer pe	er his ing	out.	_
						•			<b>J</b>			·		

ES-401, Rev. 9 Form ES-401-9 **Written Examination Review Worksheet** 3. Psychometric Flaws 2 4. Job Content Flaws 5. Other 6 Q# LOK LOD T/F Partial Minutia Q= SRO U/E/S (F/H) (1-5)Stem Cues Cred. Job-#/ Back-Dist. Link w ard units K/A Focus Only F 70 3 **V** Ε G2.2.13 Frank reviewed Changed question Focused Stem Final 71 Н 3 s Frank reviewed - OK G2.2.28 F 72 4 s G2.3.4 73 Н 4 S G2.3.2 Frank reviewed Modified stem Changed distractors - new answer Final F 74 2 S G2.4.49 Frank reviewed Changed distractors Final F 75 3 **V** S G2.4.11 Frank reviewed Changed distractor construction

Replaced question due to overlap

Written Examination Review Worksheet

Q#	1 LOK	2 LOD		3. Psyc	hometric	Flaws		4.	Job Cont	ent Flav	v s	5. C	Other	6
	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
76	H	3												E
007 E	G2.4.4		Frank	reviewed	d and up	dated ed	litorial co	mments	i.					
			FINAL											
													*****	
77	Н	3												S
A800	A2.26		Frank	reviewed	d - stems	s change	ed and re	viewed l	oy Frank		٠			
			Can A	dd proce	edure se	lection if	necessa	ry to ma	ıke SRO	only.				
			FINAL											
78	Н	3	<b>✓</b>			<b>✓</b>								Е
038E	G2.4.6								ECA-3-1		be requir	ed per E	E-3 step <sup>-</sup>	18.
			Chang distrac		to reve	rse trend	of Subc	ooling a	nd clarify	procedu	ıre positi	on and a	added to	
			FINAL	-										
							ment"	<b>₩</b>			-mp(W) Vi - Vi			
79	Н	2												S
054A	A2.04		Answe	NO is fol	A&CS				e level an e required					m. If
			Rewro	ote ques	tion									
			Frank	Reviewe	ed									
			FINAL	-										
80	Н	3										<b>✓</b>		s
055E	G2.4.30	)	Frank	- Q Hov	v does it	meet the	e KA??							
			Rewro	ote ques	tion									
			Frank	reviewe	d - chan	ged dist	ractors a	nd scop	e of stem					
			FINA	-										

# Written Examination Review Worksheet

1 2 Q# LOK LOD			3. Psychometric Flaws					4. Job Content Flaws				5. Other		6
Qii	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
81 WE05	H 5EG2.4.	3 6	Alread Rewro	te quest	ion	n on FR	н.1							S
	3EA2.1		Frank FINAL		ed - edito	orial char	nges							,
<b>83</b> WE08	H 8EG2.4.	2	Quest		ut proce	dure flow			and requ			✓		Е
<b>84</b> 061A	H .G2.2.25	3	consis	stent in c reviewe	onstruct	ion.			in distractime to di		_	d distrac	tors to be	E
<b>85</b> 069A	F .A2.02	3	Frank	Review	ed - edite	Orial cha	nges.							S
86 013G	F 32.1.23	2	FINAL											S

# Written Examination Review Worksheet

Q#	1 LOK	2 LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6
Qπ	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- w ard	Q= K/A	SRO Only	U/E/S
<b>87</b> 039A	F 2.03	4	FINAL											S
<b>88</b> 062A	H 2.03	3							Removed			n distrac		E
			FINAL		second	i time - to	ocused s	tem clea	aned up d	iistractoi	rs.			
<b>89</b> 073G	F G2.1.10	2	FINAL											S
90	F	2						T. C.						E
078G	G2.1.20	)	Frank C/D or FINAL	r mainter	d - look t nance in	o add re HSD	ason. Re	ewrote q	uestion to	include	e status o	of flow ar	nd strate	gy for
<b>91</b> 034A	F 2.01	3												S
92	F	2	<b>✓</b>											s
002G	i2.4.20		Revie FINAL	-	Frank - fo	ocused s	tem char	nged wo	rding in d	listracto	rs	***		
<b>93</b> 086A	H 2.04	3		reviewe			- Rewriti and dist		tion.			<b>V</b>		U

ES-401, Rev. 9		Written Examination Review Worksneet							Form E5-401-9					
Q#	1 LOK	2 LOD		3. Psyc	hometrio	Flaws		4.	Job Con	tent Flav	v s	5. O	ther	6
	(F/H)	(1-5)	Stem	Cues	T/F	Cred.	Partial	Job-	Minutia	#/	Back-	Q=	SRO	U/E/S
			Focus			Dist.		Link		units	w ard	K/A	Only	
94	н	4											<b>✓</b>	U
G2.1.	11		Frank	reviewed	d - RO C	nly								
			Rewro	te quest	ion									
			Frank	reviewed	t									
			FINAL											
				0.0000	***************************************									
95	Н	4												S
G2.1.	20						uage and ocused t		re of dist	ractors				
			FINAL	<del>-</del>										
			Repla	ce quest	ion - ove	erlap with	n Q 99							
			Frank	Reviewe	ed									
			Final											
									100°11.					***
96	F	3												S
G2.2	.6													
97	Н	3				<b>✓</b>								Е
G2.2	.22		Frank Correc	reviewe cted ster	d - Char n to rem	nge time ove wind	requirem	ent in di sing.	stractors	to not ir	nclude 1	hr requir	ement.	
			Frank	reviewe	d a seco	nd time	- focused	d stem a	nd forma	tted dist	ractors.			
			FINAL	-										
98	F	3												S
G2.3	.8		FINAL	_										
99	Н	3			[·]						П			S
G2.4				L					J					J
JL.7	• •													

ES-401, Rev. 9 **Written Examination Review Worksheet** Form ES-401-9 2 3. Psychometric Flaws 4. Job Content Flaws 5. Other 6 Q# LOK LOD (F/H) (1-5)T/F Partial Job-Minutia Back-Q= SRO U/E/S Stem Cues #/ Cred. Link w ard Focus Dist. units K/A Only E+0 3 Е G2.4.28 Frank reviewed. Changed wording in stem to be more specific. Frank reviewed again - highlighted FIRST - may need to change from caps to bold/underline when outputted. **FINAL** 

Facilit	ty: Surry	Date of Exam: 4/9/08	Exam Level	: RO ar	nd SRO			
				Initials				
	lte.	em Description	a	b	С			
1.		copied before grading	ter	N/A	4/2			
2.	Answer key changes documented	and question deletions justified and	<b>e</b> k	N/A	4/2			
3.	• •	ecked for addition errors ck > 25% of examinations)	th	N/A	1/2			
4.	•	line cases (80 $\pm 2\%$ overall and 70 or 8 on the SRO-only) reviewed in detail	80,	N/A	JE			
5.	All other failing exami are justified	s HL	N/A	4/2				
6.	deficiencies and wo	ed questions checked for training rding problems; evaluate validity of y half or more of the applicants	Dr.	N/A	1/2			
		Printed Name/Signature			ate			
a. Gr	rader	P.Capehart / C.Kontz Haghart /	<u>4</u> .	4/14	801.			
b. Fa	acility Reviewer(*)	_N/A			·····			
c. NF	RC Chief Examiner (*)	Frank Ehrhardt + yelf M		4/	18/48			
d. NF	RC Supervisor (*)	Malcolm Widmann		04/2	50/08			
(*)	(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.							

	Post-Examination Check Sheet	4/9/08.
Facil	ity: Samy Date of Examination	n:
	Task Description	Date Complete
1.	Facility written exam comments or graded exams received and verified complete	4/14/08
2.	Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	4/7/08
3.	Operating tests graded by NRC examiners	4/4/08
4.	NRC chief examiner review of operating test and written exam grading completed	4/28/08
5.	Responsible supervisor review completed	4/28/08 4/30/08
6.	Management (licensing official) review completed	4-30-00
7.	License and denial letters mailed	5-2-08
8.	Facility notified of results	5-2-08
9.	Examination report issued (refer to NRC MC 0612)	5-2-08
10.	Reference material returned after final resolution of any appeals	NA

#### VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

#### April 11, 2008

Mr. Victor McCree	Serial No.	08-0217
Acting Regional Administrator	SS&L/TJN	R0
United States Nuclear Regulatory Commission	Docket Nos.	50-280
Region II		50-281
Sam Nunn Atlanta Federal Center	License Nos.	DPR-32
61 Forsyth St., SW, Suite 23T85		DPR-37
Atlanta, Georgia 30303-8931		

# VIRGINIA ELECTRIC AND POWER COMPANY SURRY POWER STATION UNITS 1 AND 2 SUBMITTAL OF OPERATING EXAMINATION AND SUPPORTING REFERENCE MATERIALS

NRC letter dated September 12, 2007, Reactor and Senior Reactor Operator Initial Examinations for Surry Power Station, requested transmittal of the Operating Exam and supporting references for the reactor and senior reactor operator initial examinations that were scheduled to be conducted during the weeks of March 17 and March 24, 2008.

The NRC Operating Exam was submitted to Frank Ehrhardt, the NRC Chief Examiner, electronically (via the NRC resident) on March 12, 2008 as previously agreed upon in earlier conversations. In accordance with that agreement, the associated quality assurance documents from NUREG 1021 Revision 9 and the material listed below was sent:

#### Scenarios:

Scenario #1 – ECA-3.3 (Designated Back-up Scenario)

Scenario #2 - FR-H.1

Scenario #3 - FR-Z.1

Scenario #4 - ECA-3.1

Scenario #5 - ECA-1.1

#### Administrative JPMS:

G2.3.2 – Calculate Radiation Exposure (All)

G2.1.7 – QPTR Calculation (All)

G2.1.5 – Evaluate Overtime (SRO only)

G2.2.12 - Review 1-OPT-CS-006 (SRO only)

G2.4.41 – Classify an Event (SRO only)

G2.4.43 – Transmit Report of Emergency to State and Local Governments (RO only)

G2.2.12 – Performance of 1-OSP-SW-002 (RO only)

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#### **Simulator JPMs:**

005A2.03 – Alternate Decay Heat Removal (All)

013A4.01 – Transfer to Cold Leg Recirculation (All)

026A2.08 – Secure Containment Depressurization Equipment (All)

004A4.04 – Perform a Blended Flow Makeup to Unit1 RWST (RO and DSRO)

015A4.03 – SRNI Failure (RO and DSRO)

071A4.26 - Release a WGDT (RO and DSRO)

075A2.02 – Respond to a Low Level Transient (RO and DSRO)

EPE038.EA1.04 – Depressurize RCS to Minimize SGTR Break Flow (RO only)

#### In-Plant JPMs:

061A1.04 – Establish Makeup to the ECST (All)

APE068.AA1.21 – Locally Establish RCS and SG HI-LO Interface Integrity (All)

064A4.01 – Manually Start an EDG at the Local Panel (RO and DSRO)

If there are any questions concerning this material, please contact Mr. Barry A. Garber at (757) 365-2725.

Very truly yours,

Mr. Donald Jernigan Site Vice President

Commitments made by this letter: None

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cc: Mr. M. T. Widmann, Chief
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