## Examination Preparation Checklist

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	A
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	
-120	3. Facility contact briefed on security and other requirements (C.2.c)	A
-120	4. Corporate notification letter sent (C.2.d)	A
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	A Aro
-75	<ol> <li>Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)</li> </ol>	R
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	r
-45	<ol> <li>Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6), and reference materials due (C.1.e, f, g and h; C.3.d)</li> </ol>	N
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.I; C.2.g; ES-202)	r
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.I; C.2.i; ES-202)	~
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	N
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	1
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	$\checkmark$
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	~
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	~
-7	<ol> <li>Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)</li> </ol>	2

## **Examination Outline Quality Checklist**

## Form ES-201-2

Facility:	Three Mile Island Date of Examination:	04/2	3/07			
ltem	Task Description		Initial: b*	s c#		
1.	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	a BANO	8	C#		
W 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.	31814	ъ	V		
T T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.					
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	ann	Ъ	Y		
2. S	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.	9. E.	]	N		
I M 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.	Se Gra	5	r		
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.	SAMA	z	V		
3. W / T	<ul> <li>a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2:</li> <li>(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</li> <li>(2) task repetition from the last two NRC examinations is within the limits specified on the form</li> <li>(3) no tasks are duplicated from the applicants' audit test(s)</li> <li>(4) the number of new or modified tasks meets or exceeds the minimums specified on the form</li> <li>(5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.</li> </ul>	344	や	Y		
	<ul> <li>b. Verify that the administrative outline meets the criteria specified on Form ES-301-1:</li> <li>(1) the tasks are distributed among the topics as specified on the form</li> <li>(2) at least one task is new or significantly modified</li> <li>(3) no more than one task is repeated from the last two NRC licensing examinations</li> </ul>	a.41	3	Y		
	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.	approx	7	Y		
4.	<ul> <li>Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.</li> </ul>	the Martin	2	N		
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	AUN	3	Ń		
N	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	NAC	Ъ	N		
E R	d. Check for duplication and overlap among exam sections.	201	3	$\frown$		
A	e. Check the entire exam for balance of coverage.	95874	3	[		
L	f. Assess whether the exam fits the appropriate job level (RO or SRO).	24	3	<u>//</u>		
c. NRC	Printed Name/Signature Gregory R. Hoek $\frac{\mathcal{P}_{Meth}}{\mathcal{P}_{Meth}}$ lity Reviewer (*) Thomas Haaf $\frac{\mathcal{P}_{Meth}}{\mathcal{P}_{Meth}}$ C Chief Examiner (#) $\frac{\mathcal{P}_{Meth}}{\mathcal{P}_{Meth}}$ S Supervisor $\frac{\mathcal{P}_{Meth}}{\mathcal{P}_{Meth}}$			te 07 107 107 107		
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence rec	uired.				

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Form ES-201-3

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

ES-201

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \_\_\_\_\_\_\_\_ as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the Individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

### 2. Post-Examination

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

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. James K. Lluyd	Gram Develoyer	Janus Uklond	8/21/06		
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ES-201	Examination Security Agreement	Form ES-201-3
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1. · Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the weeks(s) of <u>4/23/07</u> 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.

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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 weeks(s) of  $\frac{4}{2}\sqrt{67} + \frac{4}{2}\sqrt{67}$  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.

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	ROSERTZ PARNEUR	TRAINING CONSULTANT	Hamelton	11/2/06			
2.	GREGORY R. HOEK	FACTLETY AUTHOR	Strang A. Real	12/11/06			
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE	
1. John TEma	Sim letter ( conductor	Jehn Janen	decla			
	IT-SAM / PROGRAMINC	- Marin I Clark	12/22/06			_
3. Michael Buckner	OTPS/Exam reviewer	Michael Such-	01/18/07			
4. THOMAS HAAR	FACILITY REPRESENTATIVE -		01/24/07			_
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## ES-201

**Examination Security Agreement** 

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

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the weeks(s) of  $\frac{4}{2}\sqrt{67 + 4}\sqrt{67 + 4}\sqrt{67$ 

## 2. Post-Examination

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

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.1	ROBERT L. PARNELLE	TRAINING CONSULTANT	Harnellos	11/2/06			
2.	GREGORY R. HOCK	FACTLETY AUTHOR	Stand A. Herel	12/11/06	· · · · · · · · · · · · · · · · · · ·		
3.	Ed Carrena	SRO / OPS	Phi Canos	3/4/07			
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## 1. <u>Pre-Examination</u>

Lacknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of  $\frac{4}{2}\sqrt{3}\sqrt{3}}{4}$  as of the date of my signature. Lagree 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. <u>Post-Examination</u>

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

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE (2) DATE NOTE
1. John Trank	Similare Correnter	Khen Janen	rdzelez.
2. KEUN TCIMNIC	IT-SAM / PROGRAMINC	11Com I Clark	12/22/06
3. Michael Buckner	OTPS/Examineviewer	Milael Such-	01/18/0.7
4. THOMAS LLAAF	FACILITY REPRESENTATIVE -	and a	<u>AI/24/07</u>
5. 1. Scott Miscourt	RO / Control Room Operator	My at Myraine Co	2/12/07
6. CARLE MCK ineysr	R/O / Control Room OPECATOR	Cal FM Karryey	C-13-07
7. MARX WILLEWBECHN	STU/CONTICE ROOM SUN	Mala Willer	2/13/07
8. JOHN HONE	RO / CRD		2/13/07
9. TIMOTHY A. ROTH	SRO/STA	ti stor	2/19/07
10. Jory Shoffwer	RUCRO	fin trother	2-14-07
11. J.A. Flowers	- RO'/CRO	Allower	2-1907
12. FRANK R. WAFLE JR	ROLCRO	Stare Washel	2-19.07
13. Don't Allison	SRO SPA Contol Room Sp)	FMELLE	2/20/07
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I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the weeks(s) of <u>4/23/07</u> 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  $\frac{4/2307}{2}$ . 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.

		TITLE / RESPONSIBILITY	SIGNATORE (1)	DATE	SIGNATURE (2)	DATE	NOTE
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#### 1. **Pre-Examination**

TME-2007 acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 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. James K. Lluyd	Gram Developer	Janus allond	8/21/06		
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**Examination Security Agreement** 

#### 1. **Pre-Examination**

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the weeks(s) of  $\frac{4/2}{2}\sqrt{07} + \frac{4}{3}\sqrt{07}$ as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC (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.

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1.	ROBERTZ. PARNELLA	TRAINING CONSULTANT	Harnelton	11/2/06	BOB PARNELL PER TE	12-con 5/2/07	$\bigcirc$
2.	GREGORY R. HOEK	FACILITY AUTHOR	Sugar A. Thank	12/11/06	Harry R. Pack	5/2/07	
3.	Ed Carrena,	SRO/OPS	82 Can 5	3/4/07	12 Cano	5-2-07	
4.	Kerin Coughlin	SNO/OPS	K. gel.	3/4/07	K. Sil	5-2-07	
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6.	J.E. Mc Kinney JK	CRG/ORS	Semitra Ch	3/4/07	ANA	5/3/07	
7.	B. Bowers	CRO/OPS	B, Bowent	42-07	BIBODUS	5.13.07	
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9.	Grepsyk. Homes	OPS Instructor	- A	24 autor	Lapola -	5/2/07	
	Timothy Gilbert	INST. TECH / MAINT.	Junothy R. Killer	42307	Jungthy R. Gillet	5/3/7	
1	1. Jon Alver	shu / chs	1 Million	4/23/5	31 May	4/27/57	
12	2. Susan Sallada	Ops' Instuctor	Dullad	4/24/0	Bull	4/21/07	
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Examination Security A

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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  $\frac{4}{163}67^{3}(1)^{3}$  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  $\frac{4}{2}$  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 TRING	Similater ( conditioner	John Signer	declar John Form \$/2/07
2. KEUIN TCIMAL	IT-SAM /PROGRAMINC	Marin I Clark	12/22/06 Kain I Cento 5/17/07
3. Michael Buckner	OTPS/Exam reviewer	Michael Buch	01/18/07 Michael Buch 5/2/07
4. THOMAS HAAR	FACILITY REPRESENTATIVE	and a	01/24/07 5-3-67
5. 1. Scott Miscourt	NO / Control Room Operator	Mar Myraine Co	2/12/07 My falt Minder S-207
6. CARLE MCK, ineysr	R/O (CONTROL 1200m OPECATOR	Cal FM Kangy V.	2-13-07 Calif no 5-4-07
7. MARK WILLEWBECHN	STU/CONTAC ROOM SUN	Malga aller	2/13/07 Mula. Wall \$13/07
8. JOHN HOKE	RO / CRO	- Al-	2/13/07 5/3/07
9. TIMOTHY A. ROTH	SRO/STA	the prode	2/19/07 A PER ATELECOU 5/4/07 (2)
10. Jory Shother	ROLCRO	- Ling hother	2-14-07 to hollon 5-2-07
11. J.A. Flowers	ROICRO	- Callenver	2-1907 ( Jamphon 5-3-07
12. FRANK R. WAPle JR	ROTERO	Stark Wash ?	2-19.07 Ada Lucoh 9 5.2.07
13. Dont Allison	SPO 12PA Contol Roon Spu	FMELLE	2/24/07 DEFLACE 51:2107
14. BJ. KEREK	ROCRO	- ElK-ll	24:107 NBIKRON. 513/117
15. Bb west	SHU VP	143 mA	2/0/2 FOR FOR FULLY
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(Z) PGR TELEPHONE 5/4/07 17:45 stragen A. Place

### ES-201

### **Examination Security Agreement**

Form ES-201-3

TME-2007

### 1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of  $\frac{1/22}{0}$  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, ) did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 4/22/02 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. James K. Lloyd	Gram Developer	Janua Uklom	8/21/06	Jamus allalam 5/4/07
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6.				
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15. NOTER				
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besimongmon need even yem vitrupes notismimese tisit shortsopgus on shortsohni ying herimese forth DRM and no insurgence of the section against me or the tacility licensee. I will immediately report to facility management or the NRC to notalisation of the facility licenses's procedures and understand that violation of the conditions of this agreement may result in cancellation of training content or provide direct or indirect leedback. Furthermore, I am aware of the physical security measures and requirements (as been authoricated by the MDC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the 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 I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations acheduled for the weeks(s) of 24/23/02

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NUREG-1021, Revision 9

Form ES-201-3

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Jacqueline Schelkly Arsenault

(623) 535-1307 860-739-9475

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# **Operating Test Quality Checklist**

Facili	ty: TMI Date of Examination: 4/19/2007 Operatin	g Test	Numb	er:
	1. General Criteria		Initia	is I
a.	The operating test conforms with the previously approved outline; changes are consistent with	a A MA	b*	
	sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	gipa	3	4/
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	200	3	r
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	2 AM	3	N
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	arr	Э	r
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	2000	7	V
	2. Walk-Through Criteria		1	
а. b.	<ul> <li>Each JPM includes the following, as applicable:</li> <li>initial conditions -</li> <li>initiating cues -</li> <li>references and tools, including associated procedures -</li> <li>reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee -</li> <li>operationally important specific performance criteria that include: <ul> <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>	32 <i>4</i> 4	7	V
	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.	Sold M	3	N
2	3. Simulator Criteria	-	-	
	ssociated simulator operating tests (scenario sets) have been reviewed in accordance with ES-301-4 and a copy is attached.	FAR.	5	¥
b. F c. N	Printed Name / Signature Author $\frac{GREGORY R. HOEK / Branch R. Hoel}{IHOHAS P. HOAC}$ RC Chief Examiner (#) $\frac{J \cdot D'A. v \cdot v}{MARVIN SYKES / THOULD}$		8/20 8.8.0 1.6/	
NOTE	<ul> <li>The facility signature is not applicable for NRC-developed tests.</li> <li># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</li> </ul>			

## Simulator Scenario Quality Checklist

Facility:	TMI Date of Exam: 4/19/2007 Scenario Numbers:	1/2/3/4 Operation	ating Te	est No	.:
	QUALITATIVE ATTRIBUTES		 	nitials	
			a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumentation n service, but it does not cue the operators into expected events.	nay be out of	<b>GAA</b>	Ъ	r
2.	The scenarios consist mostly of related events.		Supp	Ъ	1
3.	Each event description consists of		2014		
	<ul> <li>the point in the scenario when it is to be initiated</li> </ul>			F	
	<ul> <li>the malfunction(s) that are entered to initiate the event</li> </ul>			σ	1
	<ul> <li>the symptoms/cues that will be visible to the crew</li> </ul>				
	<ul> <li>the expected operator actions (by shift position)</li> </ul>				
	the event termination point (if applicable)				
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the a credible preceding incident such as a seismic event.	e scenario without	ЭЩ/Й	J	N
5.	The events are valid with regard to physics and thermodynamics.		20/D	Ъ	N
6.	Sequencing and timing of events is reasonable, and allows the examination team tevaluation results commensurate with the scenario objectives.	to obtain complete	92 <b>14</b> 4	3	r
7.	If time compression techniques are used, the scenario summary clearly so indicate have sufficient time to carry out expected activities without undue time constraints.		SAMP	J	N
8.	The simulator modeling is not altered.		NAN	7	N
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simu deficiencies or deviations from the referenced plant have been evaluated to ensure fidelity is maintained while running the planned scenarios.		REPA	J	M
10.	Every operator will be evaluated using at least one new or significantly modified so scenarios have been altered in accordance with Section D.5 of ES-301.	cenario. All other	ЯМ	2	1
11.	All individual operator competencies can be evaluated, as verified using Form ES- form along with the simulator scenarios).	301-6 (submit the	24A	2	N
12.	Each applicant will be significantly involved in the minimum number of transients a specified on Form ES-301-5 (submit the form with the simulator scenarios).	ind events	9.	2	r
13.	The level of difficulty is appropriate to support licensing decisions for each crew po	osition.	XVIIC	F	N
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes	-	-	-
1.	Total malfunctions (5-8)	6/8/6/6	SOM	3	N
2.	Malfunctions after EOP entry (1-2)	2/5/3/1	LIPA	3	Ń
3.	Abnormal events (2-4)	3/3/3/2	.JA	F	N
4.	Major transients (1-2)	1/1/1/1	AND	F	N
5.	EOPs entered/requiring substantive actions (1-2)	2/2/3/2	2000	₹	N
6.	EOP contingencies requiring substantive actions (0-2)	1/0/0/0	934M	3	N
7.	Critical tasks (2-3)	2/4/2/3	30AL	8	1

## Transient and Event Checklist

Form ES-301-5

 $(1, \dots, n) = (1, n) + (1, \dots, n)$ 

Facility:	TN	11					Date	of Exa	am:	Apr	il 200	7	Op	erating	Test No.:	NR	C
A	E								S	cena	rios						
P L I C A N T	V E N T Y P		1 CREW DSITIO			2 CREW DSITIC			3 CREW DSITIC			4 CREW DSITIO		T O T A L		M N N U	
ł	E	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	M(*) I	U
SROI5	RX		5											1	1	1	0
	NOR				1									1	1	1	1
	I/C		4,8		6,7 8,9 10, 11									8	4	4	2
	MAJ		6		4									2	2	2	1
	TS				1,3							1		2	0	2	2
RO1	RX					1								1	1	1	0
	NOR			5										1	1	1	1
	I/C			3,7		6,7 8,9 10								7	4	4	2
	MAJ			6		4	ł							2	2	2	1
	TS			1	1	1	1								0	2	2
	RX														1	1	0
	NOR	5					1							1	1	1	1
SROU	I/C	3,4, 7,8					6,9 11							4	4	4	2
	MAJ	6					4							1	2	2	1
	TS	1,2			1		[							2	0	2	2
Instructio	Circle tl type; T\$	S are n e-of-pl	ot app ant (B(	licable DP)" p	for R0 osition	0 appli s; Inst	icants ant SF	. RO: ROs n	s mus nust d	t serv o one	vice in e scen	both ario, i	the "a includi	t-the-con	umbers fo itrols (ATC ist two ins	C)" and	
2.		out mu	st be s	ignifica	ant per	Section	on C.2	2.a of	Appe	ndix E	). (*)	Reac	tivity a	nd norm	ions (refe al evolutic		
3.		le actio	ons tha	t provi	de ins	ight to	the a	oplica	nťs c	ompe	tence				only those inimum re		
4.	SRO In	stant a	ind Up	grade	candic	lates "	ΤΟΤΑ	Ls" re	flect	he A	TC an	d SR(	) posi	tions onl	у.		

## **Transient and Event Checklist**

Facility:	TN	/1					Date	of Exar	n:	Apr	il 200	7	Op	erating	Test No.:	NR	C
A P	E V								Se	cenar	ios						
P L C A N T	V E N T Y P		1 CREW DSITIO			2 CREW DSITIC			3 REW SITIO			4 CREV DSITIO		T O T A L		M I N I M U	
	E	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	M(*) I	U
SROI6	RX								3					1	1	1	0
	NOR	L		5	1									1	1	1	1
	I/C			3,7	6,7 8,9 10, 11				2, 4, 6, 7,					10	4	4	2
	MAJ			6	4				5					2	2	2	1
	TS				1,3									2	0	2	2
RO2	RX		5											1	1	1	0
	NOR						1			3				2	1	1	1
	I/C		4,8				6,9 ,11			4, 8				7	4	4	2
	MAJ		6				4			5				3	2	2	1
	TS														0	2	2
	RX					1								1	1	1	0
	NOR	5		ļ				3			 			2	1	1	1
SROI1	I/C	3,4, 7,8				6,7 8,9 ,10		4,6, 7,8						13	4	4	2
	MAJ	6			1	4	1	5			1	1		3	2	2	1
	TS	1,2						1,2						4	0	2	2
Instructio	Circle tl type; T	S are n e-of-pla	ot appl ant (BC	licable DP)" p	for RC	) appli s; Inst	icants ant SF	. ROs ROs mu	must Jst do	servio one :	ce in b scena	oth th rio, in	ne "at-' cludin	the-contr	mbers for ols (ATC) t two inst	)" and	
2.	Reactiv D.5.d) t replace	out mus	st be si	ignifica	ant per	Section	on C.2	a of A	ppend	dix D.	(*) R	eactiv	ity an	d normal	ons (refer l evolutior	to Sect is may	ion be
3.	Whenev verifiab specifie	le actic	ons tha	t provi	de insi	ght to	the ap	oplicant	t's cor	npete	ence c	ould l	be incl toward	uded; on I the min	ily those f imum req	hat req uireme	uire nts
			nd Up	_													

## Transient and Event Checklist

Facility:	TN	11					Date	of Exar	n:	Apr	il 200	7	Op	perating <sup>-</sup>	Fest No.:	NR	C
A P L I C A	E V	Scenarios															
	E N T		1 CREW DSITIO		2 CREW POSITION			3 CREW POSITION			4 CREW POSITION			T O T A		M I N I	
N T	Y P E	S R	A T	B O	S R	A T	B O	S R	A	B O	S R	A	B O	L	R	M U M(*)	U
		0	C	Р	0	С	Р	0	С	P	0	Ċ	P				
SROI7	RX								3					1	1	1	0
	NOR			5	1					-				1	1	1	1
	I/C			3,7	6,7 8,9 10, 11				2, 4, 6, 7,					10	4	4	2
	MAJ			6	4				5			<u> </u>		2	2	2	1
	TS				1,3									2	0	2	2
RO3	RX		5											1	1	1	0
1.00	NOR						1			3				2	1	1	1
	I/C		4,8				6,9 ,11			4, 8				7	4	4	2
	MAJ		6				4			5				3	2	2	1
	TS				1								1		0	2	2
	RX					1								1	1	1	0
	NOR	5						3						2	1	1	1
SROI2	I/C	3,4, 7,8				6,7 8,9 ,10		4,6, 7,8						13	4	4	2
	MAJ	6				4		5						3	2	2	1
	TS	1,2						1,2						4	0	2	2
Instructio	Circle th type; TS	S are n e-of-pla	ot app ant (B0	licable DP)" p	for RC	) appli s; Inst	icants ant SF	. ROs ROs mi	must ust do	servia one :	ce in b scena	ooth tl irio, ir	ne "at- Icludin	event nu the-contr ig at leas	ols (ATC	)" and	
2.	D.5.d) b	ivity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to Section but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be sed with additional instrument or component malfunctions on a 1-for-1 basis.															
3.		le actio	ons tha	t provi	ide insi	ight to	the ap	oplican	ťs co	mpete	ence c			luded; or d the min			
4.	SRO In	stant a	ind Up	grade	candid	lates "	τοτα	Ls" refl	ect th	e AT(	C and	SRO	positi	ons only.			

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## Transient and Event Checklist

Facility:	٨T					Date	of Exar	n:	Apr	il 200	7	O	perating <sup>-</sup>	Test No.:	NF	C	
A P	E V	Scenarios															
P L	E N		1			2			4			T O					
I C A N T	T Y P	Y				CREW		CREW POSITION			CREW POSITION			T A L		N I M U M(*)	
	E	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
	RX														1	1	0
	NOR						 								1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
SROI4	RX		5				ļ					L		1	1	1	0
	NOR				1							L	<u> </u>	1	1	1	1
	I/C		4,8		6,7 8,9 10, 11									8	4	4	2
	MAJ		6		4									2	2	2	1
	TS				1,3									2	0	2	2
	RX					1								1	1	1	0
	NOR	5												1	1	1	1
SROI3	I/C	3,4, 7,8				6,7 8,9 ,10								9	4	4	2
	MAJ	6		-		4		1						2	2	2	1
	TS	1,2												2	0	2	2
Instructio	Circle tl type; TS	S are n e-of-pla	ot appl ant (BC	licable DP)" p	e for RC	D appli s; Inst	icants ant SF	. ROsi ROsmu	must ist do	servic one	ce in b scena	ioth th rio, in	ne "at- cludin	the-contr	mbers for ols (ATC) t two instr	" and	
2.	D.5.d) b	tivity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to Section ) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be ced with additional instrument or component malfunctions on a 1-for-1 basis.															
3.	Whene verifiab specifie	le actio	ns tha	t provi	de insi	ight to	the ap	oplicant	's coi	npete	ence c	ould I ount f	be incl toward	uded; on I the min	ly those t imum req	hat req uireme	uire nts
4.	SRO In	stant a	nd Up	grade	candid	ates "	ΤΟΤΑ	Ls" refl	ect th	e AT(	C and	SRO	positi	ons only.			

**Competencies Checklist** 

Form ES-301-6

Facility: TMI	Date	e of E	xami	natio	n:			200	7	Ope	rating	g Tes	st No	).:	NRC			
							APF	PLICA	ANTS									
		SF	२०			RO	(ATC)	)		BC	OP							
Competencies		SCEN	IARIC	)	્	SCEN	ARIC	>	S	SCEN	IARIC	)						
	1	2	3	4	1	2	3	4	1	2	3	4						
Interpret/Diagnose Events and Conditions	3,5, 6,7, 8	2,3, 4,5, 8,	1,2, 3,5, 7,	1,2, 5,6	1,3 ,4, 6,8	2,3 ,4, 6,7 ,8, 9	2,3, 5,6, 7	1,2 ,3, 5,6	3,7	4,8, 10, 11	4,8	1,4 ,5						
Comply With and Use Procedures (1)	3,5, 6,7	1,3, 4,5, ,8, 10	2,3, 5,	1,2, 4,5	1,3 ,4, 8	1,3 ,6, 7,8 ,9	2,3, 5,6, 7	1,2 ,3, 5,6	3,5, 7	5,8, 10, 11	4,5, 8	1,4 ,5						
Operate Control Boards (2)	N/A	N/A	N/A	N/A	3,4 ,5, 6,7 ,8	1,3 ,5, 6,7 ,8, 9	2,3, 5,6, 7	1,2 ,4, 5,6	3,6, 7	10, 11	4,5, 8	1,4 ,5						
Communicate and Interact	ALL	ALL	ALL	ALL	1,3 ,4, 5,6 ,7, 8	1,2 ,3, 4,5 ,6, 7,8 ,9	1,2, 3,5, 6,7	1,2 ,3, 4,5 ,6	3,5, 6,7	3,5, 10, 11	4,5, 8	1, <b>4</b> ,5						
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)	1,2	1,3	1,2	1,3	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.

Author: Willer R. Heen Ma NRC Reviewer:

NUREG-1021, Revision 9

# Written Examination Quality Checklist

Form ES-401-6

Facility:	TMI Date	of Exam:	4/19/	200	7	Exam L	evel: R	D/SRO	
						r	Initial		
	Item Description					а	b*	¢#	
1.	Questions and answers are technically accurate and appl	ADDA	3	X					
2.	<ul> <li>a. NRC K/As are referenced for all questions.</li> <li>b. Facility learning objectives are referenced as an an</li></ul>		SUBIR	5	r				
3.	SRO questions are appropriate in accordance with Section	on D.2.d of	ES-401			ROA	3	N	
4.	If more than four RO and two SRO questions are repeate exams, the facility licensee's sampling process was rande	d from the om and sy	last two stemation	NRC I	icensing	-2PM	F	ø	
5.	Question duplication from the license screening/audit exa as indicated below (check the item that applies) and appe- the audit exam was systematically and randomly deve the audit exam was completed before the license exam the examinations were developed independently the licensee certifies that there is no duplication other (explain)	Э.ЦУУ	F	N					
6.	Bank use meets limits (no more than 75 percent	Bank	Moc	lified	New		_		
	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.	411	ĺ	1	70123	3990	5	N	
7.	Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level;								
	selected K/As support the higher cognitive levels; enter								
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.	S				プロる	5	N	
9.	Question content conforms with specific K/A statements examination outline and is appropriate for the tier to whic deviations are justified.	d	, by A	3	~				
10.	Question psychometric quality and format meet the guide		LUM	3	$\sim$				
11.	The exam contains the required number of one-point, mu the total is correct and agrees with the value on the cove		DEPA	3	N				
Printed Name / Signature       a. Author     GREGORY R. HOEK / Brunn C. Hock       b. Facility Reviewer (*)     IHOMAS P. HORE       c. NRC Chief Examiner (#)     J. UNMENT       d. NRC Regional Supervisor     MARY IN SYMES/ MANDUM									
Note:	* The facility reviewer's initials/signature are not applical # Independent NRC reviewer initial items in Column "c";	ble for NR chief exar	C-devel niner co	oped ex Incurrer	aminations	J.			

# Written Examination Grading Quality Checklist

Form ES-403-1

Facilit	y:	Date of Exam:	Exam Le	evel: R	D/SRO					
			Initials							
	lte	em Description	а	b	с					
1.	Clean answer sheets	32994	3 V	r						
2.	Answer key changes and documented	APPA	gw	2						
3.	Applicants' scores ch (reviewers spot check	£K€€A	2N	r						
4.	Grading for all border as applicable, ±4% or	Ð.	gers	2						
5.	All other failing exam are justified	N/A	NIA	NIA						
6.	Performance on miss deficiencies and word of questions missed b	ЭРИД	gni	r						
		Printed Name/Signature		D	ate					
a. Gra	ader	GREGORY R. HOEK May R. Phael	/	5/7	107					
b. Fac	cility Reviewer(*)	John C. ward Splee (lel	_	5-8	-07					
c. NR	C Chief Examiner (*)	Molatoni J. D'ANTONDO	$\triangleright$	5-0	17-07					
d. NR	C Supervisor (*)	MARVIN D. SVKES/THANINY	-	5/1	7/07					
(*)	(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									