

Facility: TMEDate of Examination: 4/23-5/2 2007Examinations Developed by: Facility / NRC (circle one)

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	<i>[initials]</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>[initials]</i>
-120	3. Facility contact briefed on security and other requirements (C.2.c)	<i>[initials]</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>[initials]</i>
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	<i>[initials]</i>
-75	6. 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)	<i>[initials]</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<i>[initials]</i>
-45	8. 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)	<i>[initials]</i>
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<i>[initials]</i>
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<i>[initials]</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>[initials]</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<i>[initials]</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>[initials]</i>
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	<i>[initials]</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<i>[initials]</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>[initials]</i>

* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

[] Applies only to examinations prepared by the NRC.

1. Pre-Examination

TMI-2007

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. Lloyd	Exam Developer	James K Lloyd	8/21/06			
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TMI 2007

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	JOSEPH ARSENAULT	Developer	<i>Joseph Arsenault</i>	4/1/06			
2.	Jacqueline Schelkly	Admin	<i>Jacqueline Schelkly</i>	4/1/06			
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I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 4/22/07 + 4/23/07 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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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	ROBERT L. PARNELL	TRAINING CONSULTANT	<i>R. Parnell</i>	11/2/06			
2.	GREGORY A. HOCK	FACILITY AUTHORITY	<i>G. A. Hock</i>	12/11/06			
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. John T. Smith	Simulation Coordinator	<i>John T. Smith</i>	12/21/06			
2. Kevin T. Cima	IT-SAM / PROGRAMING	<i>Kevin T. Cima</i>	12/22/06			
3. Michael Buckner	OTPS / Exam reviewer	<i>Michael Buckner</i>	01/18/07			
4. THOMAS HARR	FACILITY REPRESENTATIVE	<i>Thomas Harr</i>	01/24/07			
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. ROBERT L. PARNELL	TRAINING CONSULTANT	<i>R. Parnell</i>	11/2/06			
2. GREGORY R. HOCK	FACILITY AUTHORITY	<i>Gregory R. Hock</i>	12/11/06			
3. Ed Carrero	SRO / OPS	<i>Ed Carrero</i>	3/4/07			
4. Kevin Coughlin	SRO / OPS	<i>K. Coughlin</i>	3/4/07			
5. W. Berwick	CRO / OPS	<i>W. Berwick</i>	3/4/07			
6. J.E. McKinney Jr	CRO / OPS	<i>J.E. McKinney Jr</i>	3/4/07			
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I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 4/3/07 & 4/5/07 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. JOHN T. CLARK	Simulation Coordinator	[Signature]	12/20/06			
2. KEVIN T. CLARK	IT-SAM / PROGRAMING	[Signature]	12/22/06			
3. Michael Buckner	OTPS / Exam reviewer	[Signature]	1/18/07			
4. THOMAS HARRIS	FACILITY REPRESENTATIVE	[Signature]	1/24/07			
5. T. Scott Murrell	RO / Control Room Operator	[Signature]	2/12/07			
6. CARL F. McKinnery Jr	R/O / Control Room Operator	[Signature]	2-13-07			
7. MARK WILLIAMSBECHT	SRO / Control Room Supv	[Signature]	2/13/07			
8. JOHN HONE	RO / CRO	[Signature]	2/13/07			
9. TIMOTHY A. ROTH	SRO / STA	[Signature]	2/19/07			
10. Joey Shoffner	RO / CRO	[Signature]	2-19-07			
11. J.A. Flowers	RO / CRO	[Signature]	2-19-07			
12. Frank R. Wark Jr	RO / CRO	[Signature]	2-19-07			
13. DONALD ALLISON	SRO / STA Control Room Supv	[Signature]	2/20/07			
14. J.J. KENNEDY	RO / CRO	[Signature]	2/21/07			
15. B. L. West	Site VP	[Signature]	2/27/07			

NOTES:

TMI 2007

ES-201

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	JOSEPH ARSENAULT	Deputy	<i>Joseph Arsenault</i>	4/1/06			
2.	Jacqueline Schelkly	Admin	<i>Jacqueline Schelkly</i>	4/1/06			
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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	James K. Lloyd	Exam Developer	James K. Lloyd	8/21/06			
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. ROBERT Z. PARNELL	TRAINING CONSULTANT	<i>[Signature]</i>	11/2/06	BOB PARNELL PER TELE-CONF	5/2/07	①
2. GREGORY A. HOEK	FACILITY AUTHOR	<i>[Signature]</i>	12/11/06	<i>[Signature]</i>	5/2/07	
3. Ed Carrera	SRO / OPS	<i>[Signature]</i>	3/4/07	<i>[Signature]</i>	5-2-07	
4. Kevin Coughlin	SRO / OPS	<i>[Signature]</i>	3/4/07	<i>[Signature]</i>	5-2-07	
5. W. Beruck	CRO/OPS	<i>[Signature]</i>	3/4/07	<i>[Signature]</i>	5-3-07	
6. J.E. McKinney Jr	CRO / OPS	<i>[Signature]</i>	3/4/07	<i>[Signature]</i>	5/3/07	
7. B. Bowers	CRO / OPS	<i>[Signature]</i>	4/2/07	<i>[Signature]</i>	5-3-07	
8. Brandon Buckley	Ops Instructor	<i>[Signature]</i>	4/19/07	<i>[Signature]</i>	5/2/07	
9. Gregory K. Helms	OPS Instructor	<i>[Signature]</i>	4/20/07	<i>[Signature]</i>	5/2/07	
10. Timothy Gilbert	INST. TECH / MAINT.	<i>[Signature]</i>	4/23/07	<i>[Signature]</i>	5/3/07	
11. Tim Alvey	SRO / OPS	<i>[Signature]</i>	4/23/07	<i>[Signature]</i>	4/27/07	
12. Susan Salade	Ops Instructor	<i>[Signature]</i>	4/24/07	<i>[Signature]</i>	4/27/07	
13. Joseph F. Sabulsky	CRO / OPS	<i>[Signature]</i>	4/24/07	<i>[Signature]</i>	4-26-07	
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NOTES: ① PHONE CALL 19:05 5/2/2007, FAX ATTACHED 5/4/07

P. 01

856-539-4008

James Lloyd

Jan 18 07 12:59p

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 4/24/07 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 commentator is acceptable if the individual does not select the testing 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
Robert J. Daniels	TRAINING COORDINATOR	<i>Robert J. Daniels</i>	4/24/07	<i>Robert J. Daniels</i>	5/4/07	
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. John Toner	Simulation Coordinator	<i>John Toner</i>	12/20/06	<i>John Toner</i>	5/7/07
2. Kevin T. Clark	IT-SAM / PROGRAMING	<i>Kevin T. Clark</i>	12/22/06	<i>Kevin T. Clark</i>	5/7/07
3. Michael Buckner	OTPS / Exam reviewer	<i>Michael Buckner</i>	01/18/07	<i>Michael Buckner</i>	5/2/07
4. THOMAS HARR	FACILITY REPRESENTATIVE	<i>Thomas Harr</i>	01/24/07	<i>Thomas Harr</i>	5-3-07
5. T. Scott Muscovic	RC / Control Room Operator	<i>T. Scott Muscovic</i>	2/12/07	<i>T. Scott Muscovic</i>	5-2-07
6. CARL F. McKINNEY JR	R/O / Control Room Operator	<i>Carl F. McKinney Jr.</i>	2-13-07	<i>Carl F. McKinney Jr.</i>	5-4-07
7. MARK WILLIAMS	SRO / Control Room Supervisor	<i>Mark Williams</i>	2/13/07	<i>Mark Williams</i>	5/3/07
8. JOHN HORE	RO / CRO	<i>John Hore</i>	2/13/07	<i>John Hore</i>	5/3/07
9. TIMOTHY A. ROTH	SRO / STA	<i>Timothy A. Roth</i>	2/19/07	<i>Timothy A. Roth</i>	5/4/07 (2)
10. Joey Sholther	RO / CRO	<i>Joey Sholther</i>	2-19-07	<i>Joey Sholther</i>	5-2-07
11. J.A. Flowers	RO / CRO	<i>J.A. Flowers</i>	2-19-07	<i>J.A. Flowers</i>	5-3-07
12. Frank R. Wark Jr	RO / CRO	<i>Frank R. Wark Jr.</i>	2-19-07	<i>Frank R. Wark Jr.</i>	5-2-07
13. Doree Allison	SRO / Control Room Supervisor	<i>Doree Allison</i>	2/20/07	<i>Doree Allison</i>	5/2/07
14. B.J. Kelleck	RO / CRO	<i>B.J. Kelleck</i>	2/20/07	<i>B.J. Kelleck</i>	5/3/07
15. B. G. West	S.T. VP	<i>B. G. West</i>	2/27/07	<i>B. G. West</i>	5/2/07

NOTES:

(2) PER TELEPHONE 5/4/07 17:45 *Joey Sholther* R. G. West

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

TIME - 2007

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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 4/22/07. 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	Exam Developer	James K. Lloyd	8/21/06	James K. Lloyd	5/4/07	
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
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14.							
15.							

NOTES:

2002 IML

CS-201

Examination Security Agreement

Form ES-201-3

Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 4/23/02 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 weeks of 4/12/70. 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

11-285-1005

DATE _____

(7) SIGNATURE (7)

DATE _____

ALON

NOTES

Facility: <u>TMI</u>		Date of Examination: <u>4/19/2007</u>		Operating Test Number:	
1. General Criteria			Initials		
			a	b*	c#
a.	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).	<u>GR</u>	<u>J</u>	<u>✓</u>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<u>GR</u>	<u>J</u>	<u>✓</u>	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	<u>GR</u>	<u>J</u>	<u>✓</u>	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	<u>GR</u>	<u>J</u>	<u>✓</u>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<u>GR</u>	<u>J</u>	<u>✓</u>	
2. Walk-Through Criteria			--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> initial conditions ✓ initiating cues ✓ references and tools, including associated procedures ✓ reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee ✓ operationally important specific performance criteria that include: <ul style="list-style-type: none"> detailed expected actions with exact criteria and nomenclature system response and other examiner cues statements describing important observations to be made by the applicant criteria for successful completion of the task identification of critical steps and their associated performance standards restrictions on the sequence of steps, if applicable 	<u>GR</u>	<u>J</u>	<u>✓</u>	
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.	<u>GR</u>	<u>J</u>	<u>✓</u>	
3. Simulator Criteria			--	--	--
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		<u>GR</u>	<u>J</u>	<u>✓</u>	
Printed Name / Signature		Date			
a.	Author <u>GREGORY R. HOEK / <i>Gregory R. Hoek</i></u>	<u>3/8/2007</u>			
b.	Facility Reviewer(*) <u>THOMAS P. HARR / <i>Thomas P. Harr</i></u>	<u>3-8-07</u>			
c.	NRC Chief Examiner (#) <u>J. D'Amico / <i>J. D'Amico</i></u>	<u>3/26/07</u>			
d.	NRC Supervisor <u>MARVIN SYKES / <i>Marvin Sykes</i></u>	<u>4/18/07</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:	TMI	Date of Exam:	4/19/2007	Scenario Numbers:	1/2/3/4	Operating Test No.:			
QUALITATIVE ATTRIBUTES						Initials			
						a	b*		
						c#			
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.					2007	3	1	
2.	The scenarios consist mostly of related events.					2007	3	✓	
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 					2007	3	1	
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.					2007	3	1	
5.	The events are valid with regard to physics and thermodynamics.					2007	3	1	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					2007	3	1	
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints.					2007	3	1	
8.	The simulator modeling is not altered.					2007	3	1	
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.					2007	3	1	
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.					2007	3	1	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					2007	3	1	
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).					2007	3	1	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.					2007	3	1	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)						Actual Attributes			
1.	Total malfunctions (5-8)					6 / 8 / 6 / 6	2007	3	1
2.	Malfunctions after EOP entry (1-2)					2 / 5 / 3 / 1	2007	3	1
3.	Abnormal events (2-4)					3 / 3 / 3 / 2	2007	3	1
4.	Major transients (1-2)					1 / 1 / 1 / 1	2007	3	1
5.	EOPs entered/requiring substantive actions (1-2)					2 / 2 / 3 / 2	2007	3	1
6.	EOP contingencies requiring substantive actions (0-2)					1 / 0 / 0 / 0	2007	3	1
7.	Critical tasks (2-3)					2 / 4 / 2 / 3	2007	3	1

Facility:		TMI		Date of Exam:		April 2007		Operating Test No.:		NRC		Scenarios						
A P P L I C A N T	E V E N T T Y P E	1			2			3			4			T O T A L	M I N I M U M (*)			
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION				R	I	U	
		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					
SRO15	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									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								2	2	2	1	
	TS														0	2	2	
SROU	RX														1	1	0	
	NOR	5					1							1	1	1	1	
	I/C	3,4, 7,8					6,9 11							4	4	4	2	
	MAJ	6					4							1	2	2	1	
	TS	1,2												2	0	2	2	

Instructions:

1. Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
4. SRO Instant and Upgrade candidates "TOTALs" reflect the ATC and SRO positions only.

Facility:		TMI		Date of Exam:		April 2007		Operating Test No.:		NRC							
A P P L I C A N T	E V E N T T Y P E	Scenarios															
		1			2			3			4			T O T A L	M I N I M U M (*) R I U		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
SRO16	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					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
SRO11	RX					1								1	1	1	0
	NOR	5						3						2	1	1	1
	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

Instructions:

- Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- SRO Instant and Upgrade candidates "TOTALs" reflect the ATC and SRO positions only.

Facility:		TMI		Date of Exam:		April 2007		Operating Test No.:		NRC							
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	R	M I N I M U M (*) I	U
		1			2			3			4						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
SRO17	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					2	2	2	1	
	TS				1,3								2	0	2	2	
RO3	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	
SRO12	RX				1								1	1	1	0	
	NOR	5					3						2	1	1	1	
	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	

Instructions:

1. Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
4. SRO Instant and Upgrade candidates "TOTALs" reflect the ATC and SRO positions only.

Facility:		TMI		Date of Exam:		April 2007		Operating Test No.:		NRC							
A P P L I C A N T	E V E N T T Y P E	Scenarios															
		1			2			3			4			T O T A L	M I N I M U M (*) R I U		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
SRO14	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									2	0	2	2
SRO13	RX				1									1	1	1	0
	NOR	5												1	1	1	1
	I/C	3,4, 7,8			6,7 8,9 ,10									9	4	4	2
	MAJ	6			4									2	2	2	1
	TS	1,2												2	0	2	2

Instructions:

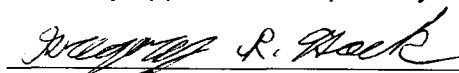
1. Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
4. SRO Instant and Upgrade candidates "TOTALs" reflect the ATC and SRO positions only.

Facility: TMI	Date of Examination: 2007	Operating Test No.: NRC														
Competencies	APPLICANTS															
	SRO				RO (ATC)				BOP							
	SCENARIO				SCENARIO				SCENARIO							
	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	1,4, 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:



NRC Reviewer:



Facility: <u>TMI</u>		Date of Exam: <u>4/19/2007</u>		Exam Level: RO/SRO			
Item Description				Initial			
				a	b*	c#	
1. Questions and answers are technically accurate and applicable to the facility.				<u>SDR</u>	<u>3</u>	<u>2</u>	
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				<u>SDR</u>	<u>3</u>	<u>✓</u>	
4. If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed <input type="checkbox"/> the audit exam was completed before the license exam was started <input checked="" type="checkbox"/> the examinations were developed independently <input type="checkbox"/> the licensee certifies that there is no duplication other (explain)				<u>SDR</u>	<u>3</u>	<u>✓</u>	
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.		Bank	Modified	New	<u>SDR</u>	<u>3</u>	<u>✓</u>
		<u>411</u>	<u>111</u>	<u>70123</u>			
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.		Memory	C/A		<u>SDR</u>	<u>3</u>	<u>✓</u>
		<u>36110</u>	<u>39115</u>				
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
9. Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.				<u>SDR</u>	<u>3</u>	<u>✓</u>	
a. Author		Printed Name / Signature			Date		
b. Facility Reviewer (*)		<u>GREGORY R. HOEK / <i>Gregory R. Hoek</i></u>			<u>3/8/07</u>		
c. NRC Chief Examiner (#)		<u>THOMAS P. HARRIS / <i>Thomas P. Harris</i></u>			<u>3-8-07</u>		
d. NRC Regional Supervisor		<u>MARVIN SYKES / <i>Marvin Sykes</i></u>			<u>4/18/07</u>		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

Facility:		Date of Exam:		Exam Level: RO/SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>		
2. Answer key changes and question deletions justified and documented	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>		
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>		
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>		

Printed Name/Signature		Date
a. Grader	<u>GREGORY R. HOEK <i>[signature]</i></u>	<u>5/7/07</u>
b. Facility Reviewer(*)	<u>John C. Ward <i>[signature]</i></u>	<u>5-8-07</u>
c. NRC Chief Examiner (*)	<u><i>[signature]</i> / J. D'AMONDO</u>	<u>5-17-07</u>
d. NRC Supervisor (*)	<u>MARVIN D. SYKES <i>[signature]</i></u>	<u>5/17/07</u>

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.