

Facility: NMPJ

Date of Examination:

Developed by: Written - Facility  NRC  // Operating - Facility  NRC

9/24-28/2009

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

\* Target dates are generally based on facility-prepared examinations and 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] {Does not apply} to examinations prepared by the NRC.

Facility:	Nine Mile Point Unit 2	Date of Examination:	8/24/09		
Item	Task Description	Initials			c#
		a	cb*		
WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	EWS	WBS		TF
	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.	EWS	WBS		TF
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	EWS	WBS		TF
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	EWS	WBS		TF
SIMULATED	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.	EWS	WBS		TF
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and scenarios will not be repeated on subsequent days.	EWS	WBS		TF
	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.	EWS	WBS		TF
W/T	a. Verify that systems walk-through outline meets the criteria specified on Form ES-301-2:				
	(1) the outline(s) contain(s) the required number of control room and in-plant tasks, distributed among the safety functions as specified on the form	EWS	WBS		
	(2) task repetition from the last two NRC examinations is within the limits specified on the form,	EWS	WBS		
	(3) no tasks are duplicated from the applicants' audit test(s)	EWS	WBS		
	(4) the number of new or modified tasks meets or exceeds the minimums specified on the form	EWS	WBS		
	(5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	EWS	WBS		TF
	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	EWS	WBS		
	(2) at least one task is new or significantly modified	EWS	WBS		
	(3) no more than one task is repeated from the last two NRC licensing examinations	EWS	WBS		TF
	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.	EWS	WBS		TF
GENERAL	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	EWS	WBS		TF
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	EWS	WBS		TF
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	EWS	WBS		TF
	d. Check for duplication and overlap among exam sections.	EWS	WBS		TF
	e. Check the entire exam for balance of coverage.	EWS	WBS		TF
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	EWS	WBS		TF
		Printed Name / Signature			Date
a. Author	Edwin W. Bowler			6/17/09	
b. Facility Reviewer (*)	Glenn S. Bridges			6/17/09	
c. NRC Chief Examiner (#)	Todd Fish			6/27/09	
d. NRC Supervisor	Sam Hansel			6/29/09	
NOTE: # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.					
* Not applicable for NRC-prepared examination outlines					

Attachment 1, Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/24/09 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. 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. In addition, I understand by signing that any violation of this agreement will result in disciplinary action up to an including discharge. This may also result in civil penalties imposed by the USNRC.

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 8/24/09. 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
Patrick Landers	Grine- Ops TRNG	<i>P.T. Landers</i>	7-6-09	<i>Patrick Landers</i>	8/11/09	
DURAND ADAMS	NMP- OPSTRNG	<i>Durand Adams</i>	7-7-09	<i>Durand Adams</i>	9/7/09	
JASON SAWYER	U2-OPS	<i>Jason Sawyer</i>	7-7-09	<i>Jason Sawyer</i>	9/24/09	
MIKE STORMS	NMP OPS TRNG	<i>Mike Storms</i>	7/9/09	<i>Mike Storms</i>	9/24/09	
PAUL ISHAM	U2-ops	<i>Paul Isham</i>	7/13/09	<i>Paul Isham</i>	9/7/09	
THOMAS MOGREN	OPS INST.	<i>Thomas Mogren</i>	7/19/09	<i>Thomas Mogren</i>	9/11/09	
BRIAN AULLIKER	GS OPS SUPPORT	<i>Brian Aulliker</i>	7/16/09	<i>Brian Aulliker</i>	9/31/09	
Phil Amway	Shift Manager	<i>Phil Amway</i>	7/16/09	<i>Phil Amway</i>	9/4/09	
Mark Green	SRO	<i>Mark Green</i>	7/27/09	<i>Mark Green</i>	9/4/09	
James F. Emery	RO	<i>James F. Emery</i>	7-27-09	<i>James F. Emery</i>	9/1-9	
EM DAVIS	RO	<i>Em Davis</i>	7-30-09	<i>Em Davis</i>	9-2-09	
JAMES HARRISON	U2-OPS/CRS	<i>James Harrison</i>	8-12-09	<i>James Harrison</i>	9-1-9	
JAMES BULL	U2 CRO	<i>James Bull</i>	8/12/09	<i>James Bull</i>	9/8/09	

NOTES: This note indicates that the individual was personally briefed as to their responsibilities in complying with this security agreement.

Attachment 1, Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug 24th 2009 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.** 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. In addition, I understand by signing that any violation of this agreement will result in disciplinary action up to an including discharge. This may also result in civil penalties imposed by the USNRC.

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 Aug 24 2009 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
Kenneth P. Cheach	Reactor Operator	<i>Kenneth P. Cheach</i>	6-2-09	<i>Bombay Per Telecon</i>	9/4/09	
JAMES B. KEID	OPS TRNG	<i>James B. Keid</i>	4/5/09	<i>Bombay Per Telecon</i>	9/1/09	
Steve Nicolai	U2 CRS	<i>Steve Nicolai</i>	6-15-09	<i>Bombay Per Telecon</i>	9/4/09	
David H King	U2 RO	<i>David H King</i>	6-15-09	<i>Bombay Per Telecon</i>	9/7/09	
Christopher F. Andrews	U2 RO	<i>Christopher F. Andrews</i>	6-15-09	<i>Bombay Per Telecon</i>	9/7/09	
Benjamin C. Hoye	U2 SRO	<i>Benjamin C. Hoye</i>	6-16-09	<i>Bombay Per Telecon</i>	9/1/09	
Bill Seaf	U2 RO	<i>Bill Seaf</i>	6/16/09	<i>Bombay Per Telecon</i>	9/4/09	
Rosemary Brown	CRPT	<i>Rosemary Brown</i>	6/16/09	<i>Bombay Per Telecon</i>	9/4/09	
Noel W Barnett	Ops Training	<i>Noel W Barnett</i>	6/19/09	<i>Bombay Per Telecon</i>	9/4/09	
Felsty Duv	U2 SRO	<i>Felsty Duv</i>	6/19/09	<i>Bombay Per Telecon</i>	9/4/09	
David Lomber	U2 SRO	<i>David Lomber</i>	7/1/09	<i>Bombay Per Telecon</i>	9/4/09	
JAY LAWRENCE	U2 RO	<i>Jay Lawrence</i>	7/2/09	<i>Bombay Per Telecon</i>	9/4/09	
John Topf-Maker	U2 SRO	<i>John Topf-Maker</i>	7/3/09	<i>Bombay Per Telecon</i>	9/4/09	
David C Hancock	U2 SRO	<i>David C Hancock</i>	7/3/09	<i>Bombay Per Telecon</i>	9/4/09	

NOTES: This note indicates that the individual was personally briefed as to their responsibilities in complying with this security agreement.

Attachment 1, Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug 24 <sup>th</sup>, 2009 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.** 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. In addition, I understand by signing that any violation of this agreement will result in disciplinary action up to an including discharge. This may also result in civil penalties imposed by the USNRC.

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 Aug 24, 2009 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. Glenn Bridges	Sr Ops Inst.	<i>Glenn Bridges</i>	2/27/09	<i>Glenn Bridges</i>	2/1/09	
2. Thomas R. Hoyer Jr	Exam Proctor / Sim Support	<i>Thomas R. Hoyer Jr</i>	2/27/09	<i>Thomas R. Hoyer Jr</i>	2/4/09	
3. Gerald Roby	Ops Instructor / Sim Support	<i>Gerald Roby</i>	3/2/09	<i>Gerald Roby</i>	2/4/09	
4. STEVEN DEANIS	EXAM OPERATOR	<i>Steven Deanis</i>	2/2/09	<i>Steven Deanis</i>	2/4/09	
5. Enrique Benavento	Sim Support	<i>Enrique Benavento</i>	2/16/09	<i>Enrique Benavento</i>	2/4/09	
6. Albert Nevech	Sim Support	<i>Albert Nevech</i>	3/24/09	<i>Albert Nevech</i>	2/4/09	
7. ALISSA WINSKI	Sim Support	<i>Alissa Winski</i>	2/27/09	<i>Alissa Winski</i>	2/4/09	
8. KENNEDY	ETS / sim ops.	<i>Kennedy</i>	2/27/09	<i>Kennedy</i>	2/4/09	
10. GARBUS III	CRD / FIN	<i>Gabus III</i>	4/27/09	<i>Gabus III</i>	2/4/09	
11. Dan Helme	CRD / WFC	<i>Dan Helme</i>	4/27/09	<i>Dan Helme</i>	2/4/09	
12. Claire Malone	Admin / Sim Support	<i>Claire Malone</i>	5/14/09	<i>Claire Malone</i>	2/4/09	
13. Joe Mancuso	ops	<i>Joe Mancuso</i>	5/26/09	<i>Joe Mancuso</i>	2/4/09	
14. Pat Brennan	operator unit II	<i>Pat Brennan</i>	6/16/09	<i>Pat Brennan</i>	2/4/09	
15. J J McAREW	OPS U-2	<i>J J McArew</i>	6-2-9	<i>J J McArew</i>	2/4/09	

NOTES: This note indicates that the individual was personally briefed as to their responsibilities in complying with this security agreement.

Attachment 1, Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8-24-09 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.** 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. In addition, I understand by signing that any violation of this agreement will result in disciplinary action up to an including discharge. This may also result in civil penalties imposed by the USNRC.

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 8-24-09. 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. JONIA MANN	Shift Manager	[Signature]	8/24/09	[Signature]	9/1/09	
2. CHARLES J WARE	INSTRUCTOR	[Signature]	8/24/09	[Signature]	9/1/09	
3. ERIC TOWNSEND	INSTRUCTOR	[Signature]	8-24-09	[Signature]	9-1-09	
4. GARY FOX	SUPV, ILT	[Signature]	8/25/09	[Signature]	9/2/09	
5. PAT FOTI	SSOS	[Signature]	8/25/09	[Signature]	9/2/09	
6. H. STUBB	Geo	[Signature]	8/25/09	[Signature]	9/2/09	
7. D. HOFF	Instructor	[Signature]	8/25/09	[Signature]	9/2/09	
8.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES: This note indicates that the individual was personally briefed as to their responsibilities in complying with this security agreement.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 9/24/09 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. Edwin Bowles	Exam Developer	<i>[Signature]</i>	3/3/09	<i>[Signature]</i>	9/4/09
2. Dan Zieselle	Shift Manager	<i>[Signature]</i>	8/13/09	<i>[Signature]</i>	9/4/09
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

NOTES:

Facility: NMP2 Date of Examination: 8/2009 Operating Test Number: 2009 NRC

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).	SWB	AB	TF
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SWB	AB	TF
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	SWB	AB	TF
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SWB	AB	TF
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SWB	AB	TF

2. WALK-THROUGH CRITERIA	a	b*	c#
a. Each JPM includes the following, as applicable: * initial conditions * initiating cues * references and tools, including associated procedures * reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee * operationally important specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable	SWB	AB	TF
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.	SWB	AB	TF

3. SIMULATOR CRITERIA	a	b*	c#
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	SWB	AB	TF

	Printed Name / Signature	Date
a. Author	Edwin W. Bowles / <i>Edwin W. Bowles</i>	7/31/09
b. Facility Reviewer (*)	Glenn S. Bridges / <i>Glenn S. Bridges</i>	8-14-09
c. NRC Chief Examiner (#)	Tom Fish / <i>Tom Fish</i>	8-18-09
d. NRC Supervisor	Sam Hansell / <i>Sam Hansell</i>	8/18/09

NOTE: \* The facility signature is not applicable for NRC-developed tests.  
 # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.



### Simulator Scenario Quality Checklist

Facility: NMP2		Date of Exam: 8/2009		Scenario Numbers: 1 / 2 / 3 / 4		Operating Test No.: NRC		
QUALITATIVE ATTRIBUTES						Initials		
						a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	EWT	MB	TF				
2.	The scenarios consist mostly of related events.	EWT	MB	TF				
3.	Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>	EWT	MB	TF				
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.	EWT	MB	TF				
5.	The events are valid with regard to physics and thermodynamics.	EWT	MB	TF				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	EWT	MB	TF				
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	EWT	MB	TF				
8.	The simulator modeling is not altered.	EWT	MB	TF				
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.	EWT	MB	TF				
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.	EWT	MB	TF				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	EWT	MB	TF				
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).	EWT	MB	TF				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	EWT	MB	TF				
<b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>		<b>Actual Attributes</b>		--	--	--		
		<b>1* / 2 / 3 / 4</b>						
1.	Total malfunctions (5-8)	6 / 5 / 6 / 5	EWT	MB	TF			
2.	Malfunctions after EOP entry (1-2)	2 / 1 / 1 / 1	EWT	MB	TF			
3.	Abnormal events (2-4)	4 / 2 / 4 / 3	EWT	MB	TF			
4.	Major transients (1-2)	1 / 1 / 1 / 1	EWT	MB	TF			
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2 / 2	EWT	MB	TF			
6.	EOP contingencies requiring substantive actions (0-2)	2 / 2 / 0 / 1	EWT	MB	TF			
7.	Critical tasks (2-3)	2 / 2 / 2 / 3	EWT	MB	TF			

\*Scenario #1 is the Low Power Scenario

Facility:		Nine Mile Point Unit 2					Date of Exam:			8/24/2009			Operating Test No.:			NRC		
A P P L I C A N T	E V E N T  T Y P E	Scenarios																
		1 LOW POWER			2			3			4			T O T A L	M I N I M U M (*)			
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N				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					
RO <input type="checkbox"/>	RX							4				3		2	1	1	0	
	NOR							1				1		2	1	1	1	
SRO-I <input checked="" type="checkbox"/> 1	I/C							2,3, 5,6, 8				2,4 5		8	4	4	2	
SRO-U <input type="checkbox"/>	MAJ							7				6		2	2	2	1	
	TS							2,3, 5						3	0	2	2	
RO <input type="checkbox"/>	RX								4			3		2	1	1	0	
	NOR											1		1	1	1	1	
SRO-I <input checked="" type="checkbox"/> 2	I/C								3,6			2,4, 5,7		6	4	4	2	
SRO-U <input type="checkbox"/>	MAJ								7			6		2	2	2	1	
	TS											2,4		2	0	2	2	
RO <input checked="" type="checkbox"/> 1	RX		3											1	1	1	0	
	NOR													1	1	1	1	
SRO-I-1 <input type="checkbox"/>	I/C		4,7								5,6, 8			5	4	4	2	
SRO-U <input type="checkbox"/>	MAJ		6				6				7			3	2	2	1	
	TS													-	0	2	2	
RO <input checked="" type="checkbox"/> 2	RX						1							1	1	1	0	
	NOR			1			2							2	1	1	1	
SRO-I <input type="checkbox"/>	I/C			2,5, 7,8			3,4, 7						4,7	8	4	4	2	
SRO-U <input type="checkbox"/>	MAJ			6			6						6	3	2	2	1	
	TS													-	0	2	2	
RO <input type="checkbox"/>	RX	3					1							2	1	1	0	
	NOR	1					2							2	1	1	1	
SRO-I <input type="checkbox"/>	I/C	3,4, 5,7					3,4, 7							7	4	4	2	
SRO-U <input checked="" type="checkbox"/> 1	MAJ	6					6							2	2	2	1	
	TS	3,4					4,5							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 serve in both the SRO and ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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.

Facility: Nine Mile Point Unit 2	Date of Examination: 8/24/09				Operating Test No: NRC							
Competencies	APPLICANTS											
	SRO				ATC				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1*	2	3	4	1*	2	3	4	1*	2	3	4
Interpret/Diagnose Events and Conditions	2 and 4-8	3-7	2-8	2 and 4-8	2 and 4-8	3-7	3-8	2 and 4-8	2 and 4-8	3-7	3-8	2 and 4-8
Comply With and Use Procedures (1)	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Operate Control Boards (2)	NA	NA	NA	NA	3,4,6,7	1-4 and 6-7	3,4,6,7	1-6	2 and 5-8	4,6	1-2 and 5-8	4-7
Communicate and Interact	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	ALL	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	2,5	4,5	3,5	2,4	NA	NA	NA	NA	NA	NA	NA	NA
<p>Notes:</p> <p>(1) Includes Technical Specification compliance for an RO.</p> <p>(2) Optional for an SRO-U.</p> <p>(3) Only applicable to SROs.</p>												

**\* Scenario #1 is a Low Power Scenario**

*Instructions:*

*Circle the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.*

Facility: NMP2		Date of Exam: 8/2009		Exam Level:	RO & SRO		
Item Description				Initial			
				a	b*	c#	
1. Questions and answers technically accurate and applicable to facility.				EWTB	MB	TF	
2. a. NRC K/As referenced for all questions. b. Facility learning objectives referenced as available.				EWTB	MB	TF	
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				EWTB	MB	TF	
4. The sampling process was random and systematic. (If more than 4 RO and 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL Program Office)				EWTB	MB	TF	
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed, or <input type="checkbox"/> the audit exam was completed before the license exam was started, or <input type="checkbox"/> the examinations were developed independently, or <input type="checkbox"/> the licensee certifies that there is no duplication, or <input type="checkbox"/> other (explain)				EWTB	MB	TF	
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	EWTB	MB	TF
		34 / 7	0 / 0	41 / 18			
7. Between 50 and 60 percent of the question on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right		Memory	C/A		EWTB	MB	TF
		34 / 3	41 / 22				
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				EWTB	MB	TF	
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.				EWTB	MB	TF	
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				EWTB	MB	TF	
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet.				EWTB	MB	TF	
Printed Name / Signature					Date		
a.	Author	Edwin W. Bowles / Edwin W. Bowles			7-31-09		
b.	Facility Reviewer (*)	Glenn S. Bridges / Glenn S. Bridges			8-14-09		
c.	NRC Chief Examiner (#)	Todd Fish / Todd Fish			8-18-09		
d.	NRC Regional Supervisor	Sam Hansell / Sam Hansell			8/18/09		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

Facility:		Date of Exam:	Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	AB	gm	TF
2. Answer key changes and question deletions justified and documented <i>None</i>	AB	gm	NA
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	AB	gm	BF TF
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	AB	gm	BF TF
5. All other failing examinations checked to ensure that grades are justified <i>None</i>	AB	gm	NA
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	AB	gm	TF
Printed Name/Signature		Date	
a. Grader	<i>Glenn Bridges</i> / <i>Glenn Bridges</i>	<i>AB</i>	9-1-09
b. Facility Reviewer(*)	<i>John Manly</i> / <i>John Manly</i>		9-1-09
c. NRC Chief Examiner (*)	<i>BRIAN FULLER</i> / <i>Brian Fuller</i>		9/14/09
	<i>TODD FISHER</i> / <i>Todd Fisher</i>		9/14/09
d. NRC Supervisor (*)	<i>Sam Hansell</i> / <i>Sam Hansell</i>		9/15/09
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			

Facility:		Date of Exam:		Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading			AB	gm	TF
2.	Answer key changes and question deletions justified and documented <i>None</i>			AB	gm	NA
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			AB	gm	BF TF
4.	Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail <i>None</i>			AB	gm	NA
5.	All other failing examinations checked to ensure that grades are justified <i>None</i>			AB	gm	NA
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants			AB	gm	TF
Printed Name/Signature				Date		
a. Grader	Glenn S Bridges <i>GS Bridges</i>			9-1-09		
b. Facility Reviewer(*)	John Manly / <i>John Manly</i>			9-1-09		
c. NRC Chief Examiner (*)	BRIAN FULMER / <i>Brian Fulmer</i>			9/14/09		
	TODD FULTON / <i>Todd Fulton</i>			9/14/09		
d. NRC Supervisor (*)	Sam Hansell / <i>SHansell</i>			9/15/09		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.						