

CRUISO Chief Mello, Daryl S. February

JERRY BUBKA Contact For THURLOW OPS TRAINING

ES-201

Examination Preparation Checklist

Form ES-201-1 *Contract*

Facility: NMP #1 Date of Examination: 9/30/02 - 10/8/02
 Examinations 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 & b) <i>6/3</i>	<i>JL</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e) <i>6/3</i> <i>LOU PISANO</i>	<i>JL</i>
-120	3. Facility contact briefed on security & other requirements (C.2.c) <i>6/4</i> <i>LOW THURLOW & JERRY BUBKA</i>	<i>JL</i>
-120	4. Corporate notification letter sent (C.2.d) <i>issued 6/4/02</i>	<i>JL</i>
[-90]	[5. Reference material due (C.1.e; C.3.c)]	
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d) <i>7/19</i>	<i>revised 7/19 JL</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e) <i>Exam week 7/23</i>	<i>8/13 JL</i>
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d) <i>8/12</i> <i>TJ & Bub 8/16</i>	<i>8/21 written JL</i> <i>8/22-8/28 ops</i>
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202) <i>8/30</i>	<i>8/28 reviewed JL</i> <i>9/11 revised</i>
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202) <i>9/3</i> <i>Exam Valid Week 9/16</i>	<i>JL</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f) <i>9/16</i>	<i>JL</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g) <i>9/3</i>	<i>JL</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h) <i>9/23</i>	<i>JL</i>
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204) <i>9/23</i>	<i>JL</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k) <i>9/23</i>	<i>JL</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i) <i>9/23</i>	<i>JL</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.

Facility:		Date of Examination:		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	GB	RT	JH
	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.	GB	RT	JH
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	GB	RT	JH
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	GB	RT	JH
2. S I M	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	GB	RT	JH
	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; ensure 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 over successive days.	GB	RT	JH
	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.	GB	RT	JH
3. W / T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	GB	RT	JH
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 40% of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	GB	RT	JH
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	GB	RT	JH
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	GB	RT	JH
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	GB	RT	JH
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	GB	RT	JH
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	GB	RT	JH
	d. Check for duplication and overlap among exam sections.	GB	RT	JH
	e. Check the entire exam for balance of coverage.	GB	RT	JH
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	GB	RT	JH
a. Author	Gerald Bohler / <u>Gerald Bohler</u>	Printed Name / Signature		Date
b. Facility Reviewer (*)	<u>Ronald P. Thrown</u>			7/15/02
c. NRC Chief Examiner (#)	<u>John A. Cunniff</u>			7/16/02
d. NRC Supervisor	<u>R.J. Carter</u>			8/13/02
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.				

Summary of Personnel on Unit 1 Security Agreement

There were a total of 44 people signed on the Security Agreement at the completion of the exam. The following should be noted:

- 30 of the 44 had some type of exam knowledge.
- 23 people had what is considered as "detailed" exam knowledge.
- 14 people are considered to have no knowledge, but were signed on as a conservative measure, as they could potentially have obtained exam knowledge due to their support function (ie, Simulator Support or making exam copies). These people were not considered to be a "security liability or risk".
- 7 of those 14 were signed on during the exam administration week. These included management observers for Simulator scenarios and security personnel to sequester applicants during exam administration. These 7 had no prior exam knowledge.

The following should also be noted that of the 23 people having detailed exam knowledge:

- WD started with 3 people on the development team. This number increased to 6, as additional personnel were needed to re-work test items.
- Facility initially was to use 3 in-house instructors to review the test items. This increased to 9 as all portions of the exam required extensive re-work.

ES-201 Examination Security Agreement Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of April 19, 2002 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 the 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.

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 April 19, 2002. 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
1. <u>Charles T. Gullone</u>	<u>Exam Director</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
2. <u>Gerald Miller</u>	<u>Exam Director</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
3. <u>Kevin Wilson</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
4. <u>Franklin Sullivan</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
5. <u>Albert Nadeau</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
6. <u>Ernesto Hernandez</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
7. <u>Paula Pizarro</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
8. <u>Joe Stewart</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
9. <u>Steve Peters</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
10. <u>John Presud</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
11. <u>David M. Winkler</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
12. <u>John Wark</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
13. <u>David Alcorn</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
14. <u>John G. Hart</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>
15. <u>John B. Finkler</u>	<u>Exam Support</u>	<u>[Signature]</u>	<u>4/19/02</u>	<u>[Signature]</u>	<u>4/19/02</u>

NOTES:
Unit 1 Initial Exam

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FAX NO.

P. 04

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Sept 29, 2002 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.

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 Sept 29, 2002 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. <u>John Rizzo Jr</u>	<u>TRC SPCL. III / U-1 EXAM</u>	<u>[Signature]</u>	<u>7/2/02</u>	<u>[Signature]</u>	<u>10/15/02</u>	<u>AS</u>
2. <u>GARY LHAMON</u>	<u>Unit I equal exam developer</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>[Signature]</u>	<u>10/30/02</u>	<u>AS (2)</u>
3. <u>Ron Thuraw</u>	<u>CSO</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
4. <u>JONATHAN SPARKS</u>	<u>INSTRUCTOR</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
5. <u>Wilford Ryder</u>	<u>INSTRUCTOR</u>	<u>[Signature]</u>	<u>7/30/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
6. <u>KEN MCCALL</u>	<u>UI LOR EXAM DEVELOPER</u>	<u>[Signature]</u>	<u>7/16/02</u>	<u>[Signature]</u>	<u>10/27/02</u>	<u>AS</u>
7. <u>Thomas FASCHETTO</u>	<u>NAOE / EXAM RENEWER</u>	<u>[Signature]</u>	<u>8/6/02</u>	<u>[Signature]</u>	<u>10/14/02</u>	<u>AS</u>
8. <u>Richard Morgan</u>	<u>NAOE / EXAM RENEWER</u>	<u>[Signature]</u>	<u>8/12/02</u>	<u>[Signature]</u>	<u>10/14/02</u>	<u>AS</u>
9. <u>P.J. Maguire</u>	<u>EXAM DEVELOPMENT</u>	<u>[Signature]</u>	<u>7/12/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
10. <u>Karen Murphy</u>	<u>EXAM DEVELOPMENT</u>	<u>[Signature]</u>	<u>8/2/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
11. <u>Cynthia Dewolf</u>	<u>Word Processing</u>	<u>[Signature]</u>	<u>8/12/02</u>	<u>[Signature]</u>	<u>10/9/02</u>	<u>AS</u>
12. <u>Brian J Murtha</u>	<u>SSS / Exam Review</u>	<u>[Signature]</u>	<u>8/12/02</u>	<u>[Signature]</u>	<u>10/15/02</u>	<u>AS</u>
13. <u>Sharon L. Schubert</u>	<u>Desk top Support</u>	<u>[Signature]</u>	<u>8/13/02</u>	<u>[Signature]</u>	<u>10/15/02</u>	<u>AS (3)</u>
14. <u>Mark Fackler</u>	<u>File management</u>	<u>[Signature]</u>	<u>8/13/02</u>	<u>[Signature]</u>	<u>10/15/02</u>	<u>AS (3)</u>
15. <u>Kurt Bessel Jr</u>	<u>CSO Exam Validation</u>	<u>[Signature]</u>	<u>8-11-02</u>	<u>[Signature]</u>	<u>10/15/02</u>	<u>AS</u>

NOTES: U-1 EXAM

(2) Gary Lhamon developed UI equal exam, exams were developed in common exam development area. AS 7/16/02. Lhamon did not obtain specific exam knowledge. 24 of 24 Page 2

(3) Names listed in line 13 & 14 had no exam knowledge. Information Management personnel had entered the exam room to load software on a P.C. These two individuals were put on the Security Agreement in error. AS 10/15/02

96%

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Examination Security Agreement

Form ES-201-3

1. Pre-Examination

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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 Sept 29, 2002. 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. Mark Elliott	WD Project Manager	<i>Mark Elliott</i>	8/14/02	<i>Mark Elliott</i>	10/23/02
2. Lynn Helthaus	RO	<i>Lynn Helthaus</i>	8/17/02	<i>Lynn Helthaus</i>	10/23/02
3. Robert A. Sams	SSS	<i>Robert A. Sams</i>	8/17/02	<i>Robert A. Sams</i>	10/23/02
4. Gerald T. Hollingsworth	Simulator	<i>Gerald T. Hollingsworth</i>	8/17/02	<i>Gerald T. Hollingsworth</i>	10/23/02
5. JEFFREY L. CURRAN	WD assistant	<i>Jeffrey L. Curran</i>	8/18/02	<i>Jeffrey L. Curran</i>	10/23/02
6. Kaylene E. Rossler	WP	<i>Kaylene Rossler</i>	8/21/02	<i>Kaylene Rossler</i>	10/23/02
7. Shawn Deary	RO	<i>Shawn Deary</i>	9.5.02	<i>Shawn L. Deary</i>	10.24.02
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9.					
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12.					
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NOTES: Unit 1 INITIAL EXAM

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Sept 30, 2002 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.

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 Sept 30, 2002 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. Robert I. Brown	INSTRUCTOR		9/30/02		10/9/02	
2. David J. Russell	Supv Instry Ops TRM		9/30/02		10/9/02	
3. Roy David Miller	G-50 UNIT OPS OPS		9/30/02		10/13/02	
4. DAVID KVVHL	INSTRUCTOR		10-1-02		10/9/02	
5. Mike Hayer	Training Mgr / Trn		10/2/02		10/9/02	
6. Edward H. Bats	Instructor		10/2/02		10/16/02	
7. Robert Rudy	Instructor		10/2/02		10/23/02	
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NOTES: Unit 1. This page identifies personnel put on security agreement during the examination. It includes those necessary to administer the examination. Those listed on this page had no previous knowledge (U during development).
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Examination Security Agreement

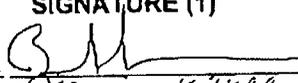
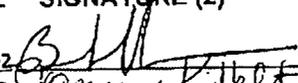
Form ES-201-3 (R8, S1)

1. Pre-Examination

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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 9/30/02. 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. <u>Bruce Hennigan</u>	<u>WD ASSOCIATES / MANAGER Exam Sec.</u>		<u>3/18/02</u>		<u>10/31/02 U1</u>
2. <u>Jeanine Kittell</u>	<u>WD ASSOCIATES / Office Manager</u>	<u>Jeanine Kittell</u>	<u>3/18/02</u>	<u>Jeanine Kittell</u>	<u>10/30/02 U1</u>
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NOTES: NMP unit 1

Facility: Nine Mile Point Unit 1		Date of Examination: September 30, 2002		Operating Test Number: RO															
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).	SB	RT	J															
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SB	RT	J															
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	SB	RT	J															
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	SB	RT	J															
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SB	RT	J															
2. WALK-THROUGH (CATEGORY A & B) 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 • 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 	SB	RT	J															
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	SB	RT	J															
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	SB	RT	J															
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	SB	RT	J															
3. SIMULATOR (CATEGORY C) CRITERIA		--	--	--															
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	SB	RT	J															
<table border="0"> <tr> <td></td> <td>Printed Name / Signature</td> <td>Date</td> </tr> <tr> <td>a. Author</td> <td><u>Gerald Bobber / Donald Bobber</u></td> <td><u>9/13/02</u></td> </tr> <tr> <td>b. Facility Reviewer(*)</td> <td><u>Ronald P. Tharrow / Ronald P. Tharrow</u></td> <td><u>9/13/02</u></td> </tr> <tr> <td>c. NRC Chief Examiner (*)</td> <td><u>John G. Curuso / John Curuso</u></td> <td><u>9/20/02</u></td> </tr> <tr> <td>d. NRC Supervisor (*)</td> <td><u>R.J. Conte / R.J. Conte</u></td> <td><u>9/20/02</u></td> </tr> </table>			Printed Name / Signature	Date	a. Author	<u>Gerald Bobber / Donald Bobber</u>	<u>9/13/02</u>	b. Facility Reviewer(*)	<u>Ronald P. Tharrow / Ronald P. Tharrow</u>	<u>9/13/02</u>	c. NRC Chief Examiner (*)	<u>John G. Curuso / John Curuso</u>	<u>9/20/02</u>	d. NRC Supervisor (*)	<u>R.J. Conte / R.J. Conte</u>	<u>9/20/02</u>			
	Printed Name / Signature	Date																	
a. Author	<u>Gerald Bobber / Donald Bobber</u>	<u>9/13/02</u>																	
b. Facility Reviewer(*)	<u>Ronald P. Tharrow / Ronald P. Tharrow</u>	<u>9/13/02</u>																	
c. NRC Chief Examiner (*)	<u>John G. Curuso / John Curuso</u>	<u>9/20/02</u>																	
d. NRC Supervisor (*)	<u>R.J. Conte / R.J. Conte</u>	<u>9/20/02</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: <u>Nine Mile Point Unit 1</u>		Date of Examination: <u>September 30, 2002</u>		Operating Test Number: <u>SRO</u>	
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).	RB	RT	JK	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RB	RT	JK	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	RB	RT	JK	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	RB	RT	JK	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RB	RT	JK	
2. WALK-THROUGH (CATEGORY A & B) 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 • 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 	RB	RT	JK	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	RB	RT	JK	
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	RB	RT	JK	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	RB	RT	JK	
3. SIMULATOR (CATEGORY C) CRITERIA			--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	RB	RT	JK	
		Printed Name / Signature		Date	
a. Author	<u>Gerald Bobba / Gerald Bobba</u>			<u>9/13/02</u>	
b. Facility Reviewer(*)	<u>Ronald P. Thurrow / Ronald P. Thurrow</u>			<u>9/13/02</u>	
c. NRC Chief Examiner (*)	<u>John G. Caruso / John G. Caruso</u>			<u>9/20/02</u>	
d. NRC Supervisor (*)	<u>R. J. Conte / R. J. Conte</u>			<u>9/20/02</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: Nine Mile Point Unit 1 Date of Exam: September 30, 2002 Scenario Numbers: 1/3/4/5 (Alt) Operating Test No.: RO					
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.	RB	RT	JA	
2.	The scenarios consist mostly of related events.	RB	RT	JA	
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) 	RB	RT	JA	
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.	RB	RT	JA	
5.	The events are valid with regard to physics and thermodynamics.	RB	RT	JA	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	RB	RT	JA	
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.	RB	RT	JA	
8.	The simulator modeling is not altered.	RB	RT	JA	
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	RB	RT	JA	
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.4 of ES-301.	RB	RT	JA	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	RB	RT	JA	
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).	RB	RT	JA	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	RB	RT	JA	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes 1 3 4 5 (Alt)	--	--	--
1.	Total malfunctions (5-8)	7/5/6/5	RB	RT	JA
2.	Malfunctions after EOP entry (1-2)	2/1/3/2	RB	RT	JA
3.	Abnormal events (2-4)	2/2/2/1	RB	RT	JA
4.	Major transients (1-2)	1/1/1/1	RB	RT	JA
5.	EOPs entered/requiring substantive actions (1-2)	2/2/2/2	RB	RT	JA
6.	EOP contingencies requiring substantive actions (0-2)	1/1/2/1	RB	RT	JA
7.	Critical tasks (2-3)	3/3/4/3	RB	RT	JA

Facility: Nine Mile Point Unit 1 Date of Exam: September 30, 2002 Scenario Numbers: 1/3/4/5 (Alt) Operating Test No.: SRO		Initials						
QUALITATIVE ATTRIBUTES		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.	RS	RT	JA				
2.	The scenarios consist mostly of related events.	RS	RT	JA				
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) 	RS	RT	JA				
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.	RS	RT	JA				
5.	The events are valid with regard to physics and thermodynamics.	RS	RT	JA				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	RS	RT	JA				
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.	RS	RT	JA				
8.	The simulator modeling is not altered.	RS	RT	JA				
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	RS	RT	JA				
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.4 of ES-301.	RS	RT	JA				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	RS	RT	JA				
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).	RS	RT	JA				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	RS	RT	JA				
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes 1 3 4 5 (Alt)						
1.	Total malfunctions (5-8)	7	5	6	5	RS	RT	JA
2.	Malfunctions after EOP entry (1-2)	2	1	3	2	RS	RT	JA
3.	Abnormal events (2-4)	2	2	2	1	RS	RT	JA
4.	Major transients (1-2)	1	1	1	1	RS	RT	JA
5.	EOPs entered/requiring substantive actions (1-2)	2	2	2	2	RS	RT	JA
6.	EOP contingencies requiring substantive actions (0-2)	1	1	2	1	RS	RT	JA
7.	Critical tasks (2-3)	3	3	4	3	RS	RT	JA

OPERATING TEST NO. RO R-1, R-2, R-3

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO (R-1, R-2, R-3)	Reactivity	1				5
	Normal	1	2			
	Instrument/Component	4	4,7			3,4
	Major	1	6			6
				BOP		

As RO	Reactivity	1				
	Normal	0				
	Instrument/Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				

SRO-U	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
 - (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 requirement.

Author:

Gerald Bollen / Gerald Bollen 9/13/02

NRC Reviewer:

John Cross / John Cross 9/20/02

OPERATING TEST NO. RO R-4

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO (R-4)	Reactivity	1			5	
	Normal	1				1
	Instrument/Component	4			3,4	2,7
	Major	1				6
					BOP/CSO	BOP
As RO	Reactivity	1				
	Normal	0				
	Instrument/Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				
SRO-U						
SRO-U	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
 - (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 requirement.

Author: Gerald Bobka / Gerald Bobka 9/13/02

NRC Reviewer: John Curran / John Curran 9/24/02

OPERATING TEST NO. SRO I-1, I-3

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument/Component	4				
	Major	1				
As RO	Reactivity	1			5	
	Normal	0				
	Instrument/Component	2				2,7
	Major	1				6
					CSO	BOP
SRO-I (I-1, I-3) As SRO	Reactivity	0				
	Normal	1	2			
	Instrument/Component	2	3,4,5			
	Major	1	6			
				SRO		
SRO-U	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
 - (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 requirement.

Author: Gerald Bobler / Gould Bobler 9/13/02

NRC Reviewer: John Capurso / John Bobler 9/20/02

OPERATING TEST NO. SRO I-2, I-4, I-5

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument/Component	4				
	Major	1				
As RO	Reactivity	1	1			
	Normal	0				
	Instrument/Component	2	3,5		3,4	
	Major	1	6		6	
				CSO		BOP
SRO-I (I-2, I-4, I-5)	Reactivity	0				
	Normal	1				1
As SRO	Instrument/Component	2				2,3,4,8
	Major	1				6
						SRO
SRO-U	Reactivity	0				
	Normal	1				
	Instrument/Component	2				
	Major	1				

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
 - (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 requirement.

Author:

Gerald Bohlen 9/20/2002

NRC Reviewer:

John Bohlen 9/20/2002 data reviewed

Competencies	RO Applicant R-1, R-2, R-3		RO Applicant R-4	
	SCENARIO		SCENARIO	
	1 BOP	4 CSO	3 BOP/CSO	4 BOP
Understand and Interpret Annunciators and Alarms	3	3	3	4
Diagnose Events and Conditions	4	3	7	6
Understand Plant and System Response	8	3	3,4	7
Comply With and Use Procedures (1)	2,4	3,6	3,4	1
Operate Control Boards (2)	4,7,8	6	3	6,7
Communicate and Interact With the Crew	2,4,7,8	3,6	3,4	6,7
Demonstrate Supervisory Ability (3)				
Comply With and Use Tech. Specs. (3)				
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.				

Instructions:

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

Author: Gerald Bobbin / Gerald Bobbin 9/13/02

NRC Reviewer: JB Howard / JB Howard 9/20/02

Competencies	SRO Applicant I-1, I-3			SRO Applicant I-2, I-4, I-5		
	SCENARIO			SCENARIO		
	1 SRO	3 CSO	4 BOP	1 CSO	3 BOP	4 SRO
Understand and Interpret Annunciators and Alarms	3,4	6	4	3	3	3
Diagnose Events and Conditions	4	7	6	5	7	3
Understand Plant and System Response	5	4	7	5	3,4	3,6
Comply With and Use Procedures (1)	8	7	1	3,5	3,4	6,7
Operate Control Boards (2)		5	6,7	1,3,5,8	3	
Communicate and Interact With the Crew	8	6	6,7	8	3,4	6
Demonstrate Supervisory Ability (3)	8					6
Comply With and Use Tech. Specs. (3)	3,4					2,3
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.						

Instructions:

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

Author: Gerald Bohlen 9/20/2002

NRC Reviewer: John B. Lin 9/20/02 date received

Facility: Nine Mile Point Unit 1		Date of Exam: September 30, 2002		Exam Level: RO			
Item Description				Initial			
				a	b*	c#	
1.	Questions and answers technically accurate and applicable to facility			BS	RT	JH	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			BS	RT	JH	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			BS	RT	JH	
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process					JH	
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 other (explain)			BS	RT	JH	
6.	Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	BS	RT	JH
		10	9	81			
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory		C/A	BS	RT	JH
		45		55			
8.	References/handouts provided do not give away answers			BS	RT	JH	
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			BS	RT	JH	
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			BS	RT	JH	
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			BS	RT	JH	
				Printed Name / Signature		Date	
a. Author	Gerald Bolden / Gerald Bolden					9/13/02	
b. Facility Reviewer(*)	Ronald P. Thomas / Ronald P. Thomas					9/13/02	
c. NRC Chief Examiner(#)	John A. Givens / John A. Givens					9/20/02	
d. NRC Regional Supervisor(*)	R. J. Conte / R. J. Conte					9/20/02	
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

Facility: Nine Mile Point Unit 1		Date of Exam: September 30, 2002		Exam Level: SRO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	RB	RT	9			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	RB	RT	9			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	RB	RT	9			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			9			
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)	RB	RT	9			
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	RB	RT	9
	12	6	82			
7. Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory		C/A	RB	RT	9
	45		55			
8. References/handouts provided do not give away answers	RB	RT	9			
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	RB	RT	9			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	RB	RT	9			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	RB	RT	9			
Printed Name / Signature			Date			
a. Author	Gerald Bobba / Gerald Bobba			9/13/02		
b. Facility Reviewer(*)	Ronald P. Thurman / Ronald P. Thurman			9/13/02		
c. NRC Chief Examiner(#)	John G. Canessa / John G. Canessa			9/29/02		
d. NRC Regional Supervisor(*)	R.J. Conte / R.J. Conte			9/29/02		
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

Facility: <i>Nine Mile Point 1</i>		Date of Exam: <i>10/7/02</i>		Exam Level: <i>RO/SRO</i>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	WR	WR	JL		
2. Answer key changes and question deletions justified and documented	WR	WR	JL		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	WR	WR	JL		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	WR	WR	JL		
5. All other failing examinations checked to ensure that grades are justified	WR	WR	JL		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	WR	WR	JL		
	Printed Name / Signature		Date		
a. Grader	<i>Wilford Ryder / Wilford Ryder</i>		<i>10/18/02</i>		
b. Facility Reviewer(*)	<i>Ron Thurman / Ron Thurman</i>		<i>10/18/02</i>		
c. NRC Chief Examiner (*)	<i>John Casuso / John Casuso</i>		<i>11/7/02</i>		
d. NRC Supervisor (*)	<i>Richard J. Conter / Richard J. Conter</i>		<i>11/18/02</i>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: <u>NINE MILE POINT 1</u> Date of Exam: <u>10/7/02</u> Exam Level: <u>RO/SRO</u>			
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	WR	RT	JL
2. Answer key changes and question deletions justified and documented	WR	RT	JL
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	WR	RT	JL
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	WR	RT	JL
5. All other failing examinations checked to ensure that grades are justified	WR	RT	JL
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	WR	RT	JL
	Printed Name / Signature		Date
a. Grader	<u>Wilford Ryder / Wil Ryder</u>		<u>10/18/02</u>
b. Facility Reviewer(*)	<u>Ron Throuso / Ron Throuso</u>		<u>10/18/02</u>
c. NRC Chief Examiner (*)	<u>John Caruso / John Caruso</u>		<u>11/7/02</u>
d. NRC Supervisor (*)	<u>Richard J. Conte / Rich Conte</u>		<u>11/18/02</u>
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			