

# Examination Preparation Checklist

Form ES-201-1 (R8, S1)

<b>Facility:</b>	Excelon PB / Lim LSRO	
<b>Developed By:</b>	Excelon PB / Lim LSRO	
<b>Exam Date:</b>	03-Jun-02	
<b>Target Date*</b>	<b>Task Description / Reference</b>	<b>Chief Examiner's Initials</b>
05-Dec-01	1. Examination administration date confirmed (C.1.a; C.2.a & b)	B 1/24/02
03-Feb-02	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	B 1/24/02
03-Feb-02	3. Facility contact briefed on security & other requirements (C.2.c)	B 1/24/02
03-Feb-02	4. Corporate notification letter sent (C.2.d)	B 1/24/02
05-Mar-02	[5. Reference material due (C.1.e; C.3.c)]	N/A
20-Mar-02	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	B 3/18/02
25-Mar-02	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	B 3/20/02
19-Apr-02	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	B 4/16/02
04-May-02	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	B 5/8/02
20-May-02	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	B 5/21/02
20-May-02	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	B 5/13/02
20-May-02	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	B 5/16/02
27-May-02	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	B 5/24/02
27-May-02	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	B 5/24/02
27-May-02	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	B 5/30/02 B 5/30/02
27-May-02	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	B 5/28/02
*	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: <u>LIMERICK, PEACH BOTTOM</u>		Date of Examination: <u>6/3/02</u>		
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-701.	AS	MMS	B
	b. Assess whether the outline includes appropriate fuel handling K/As as listed in ES-701 D.1 and whether all K/A categories are appropriately sampled.	AS	MMS	B
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	AS	MMS	B
	d. Assess whether the outline includes fuel handling reactor theory and thermodynamic topics.	AS	MMS	B
2. I P O	a. Using criteria specified in ES-701, verify that the proposed scenario sets cover the required number of instrument or component failures and major transients.	AS	MMS	B
	b. Assess whether there are enough scenario sets to test the projected number of applicants without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated exactly from the applicants' audit test(s)*, and scenarios will not be repeated over successive days.	AS	MMS	B
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified in ES-701.	AS	MMS	B
3. W / T	a. Verify that: (1) the outline(s) contain(s) the required number of 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.	AS	MMS	B
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-701, (2) one task includes actual movement of dummy elements, assemblies, or modules when feasible (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.	AS	MMS	B
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	AS	MMS	B
	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.	AS	MMS	B
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.	AS	MMS	B
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	AS	MMS	B
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	AS	MMS	B
	d. Check for duplication and overlap among exam sections.	AS	MMS	B
	e. Check the entire exam for balance of coverage.	AS	MMS	B
	f. Assess whether the exam fits the appropriate job responsibilities (LSRO).	AS	MMS	B
a. Author <u>JEFFREY M. STEVENS</u> <i>[Signature]</i> <u>3/11/02</u>		Printed Name / Signature Date		
b. Facility Reviewer (*) <u>BRANDON K. SHULTZ</u> <i>[Signature]</i> <u>3-17-02</u>		Printed Name / Signature Date		
c. NRC Chief Examiner (#)* <u>Ally Blaney/DeL [Signature]</u> <u>3/19/02</u>		Printed Name / Signature Date		
d. NRC Supervisor <u>R.J. Cate</u> <i>[Signature]</i> <u>3/20/02</u>		Printed Name / Signature Date		
* with comments				
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

March 20, 2002

MEMORANDUM TO: Exam File  
Exelon  
LSRO - Peach Bottom / Limerick Station

FROM: Alan Blamey *Alan Blamey* 3/20/02  
Senior Operations Engineer

SUBJECT: COMMENTS ON PEACH BOTTOM / LIMERICK STATION  
LIMITED SENIOR REACTOR OPERATOR EXAM OUTLINE.

The purpose of this memorandum is to document comments on the Peach Bottom / Limerick Station exam outline received on Monday, March 18, 2002. The exam outline was reviewed by A. Blamey, Senior Operations Engineer. The comments were provided to J. Stevens, Examination Developer, Exelon on March 20, 2002. The comments are as follows.

Modified ES-201-2, Examination Outline Quality Checklist

Section 1. Written

*B* 5/13/02 b.  
Sat.

The Exelon modified form ES-201-2, does not verify that the outline has been randomly and systematically selected. This is required to prevent inadvertent biasing of the exam.

This issue was discussed with J. Stevens and the following method was used to obtain a random outline, with slight bias toward the Fuel Handling Equipment.

Exelon has performed a job task analysis (JTA) for the LSRO position. This K/A base is used to randomly select K/As in the following manor. (This forms the basis for deselecting K/A in the BWR catalog - NUREG 1123).

1. The Exelon developed JTA - K/As are characterized into the four subject area listed in ES-701 section D.1.
2. System and procedures are randomly selected within these categories.
3. Once the system or procedure (EOP or Abnormal) is selected the final K/A is randomly selected within the system or procedure.

*B* 5/14/02 c.  
Sat.

The modified form ES-201-2, does not verify that the deselected topics were acceptable. This was performed by a JTA that was

performed for the LSRO position. Exelon JTA was NOT reviewed as part of this exam outline review.

Section 2. Integrated Plant Operation (IPO)

b. Must verify that:

B 5/13/02  
Set. (1) that no scenarios will be duplicated from the applicants audit exam. This will be completed when the audit exam outline is completed. Exelon is aware of this condition and will plans to prevent exam overlap.

B 5/13/02  
Set. (2) The scenarios will not be repeated on successive days. The schedule can not be finalized at this time, it will be finalized during the preparation week. (Use of the refueling bridge)

Section 3. Walk Through - Job Performance Measures (JPM)

B 5/13/02  
Set. a. (3) No scenarios are duplicated from the applicants audit exam.  
Since the audit exam has not been developed this must be verified prior to administering the exam. Exelon is aware that the walk through (JPMs) exams can not be a duplicated from the audit exam.

Section 4. General

B 5/13/02  
Set. a. Ensure the K/A importance ratings are at least 2.5.  
The facility walk-through exam dose not have K/A importance assigned to the tasks. This includes section A and B. (ES-301-2, Section D.1.c)

B 5/13/02  
Set. b. Check for duplication and overlap among exam sections.  
The outline appears acceptable; however, the NRC can not make a final determination until the exam is drafted and the individual questions can be reviewed.

B 5/13/02  
Set. c. Check the entire exam for balance of coverage.  
The outline appears balanced ; however, can not make a final determination until the exam is drafted and the individual questions can be reviewed.

Comment:

Peach Bottom Section A, JPM A.3, "Drywell Access Restriction During Fuel Handling," (page 9 of 15) is very similar to the first component failure in the Limerick scenario No. 1 (page 12 of 15). This scenario requires inspection of the drywell upper seal plate and because of access to this area fuel moves must be stopped.

NRC Action: In the past we have issued a dual license for Limerick and Peach Bottom LSROs. We plan to continue this process in Region I; however, Exelon has requested to change the LSRO exam. In the past each applicant was given a common written exam and a full operating test at each site. Exelon has requested to change this test methodology as listed below.

1. A 50 question written examination that covers both Peach Bottom and Limerick. **No Change.**
2. In the past a total of 10 administrative JPMs were performed. Five administrative JPM at Limerick and five administrative JPMs at Peach Bottom.

**REQUESTED CHANGE** Exelon requested a change to have a total of five administrative JPMs combined for Limerick and Peach Bottom.

**BASIS:** The administrative procedures are very similar between the sites. In addition, there is one administrative JPM that specifically looks at differences between the sites.

3. A total of 10 JPMs will be performed. Five JPM at Limerick and five JPMs at Peach Bottom. **No Change.**
4. A total of 4 IPOs will be tested. There will be 2 at Limerick and 2 at Peach Bottom. **No Change. No Change.**

April 17, 2002

MEMORANDUM TO: Exam File  
Exelon  
LSRO - Peach Bottom / Limerick Station

FROM: Alan Blamey   
Senior Operations Engineer

SUBJECT: CHANGE TO PEACH BOTTOM (PBAPS) / LIMERICK (LGS)  
STATION LIMITED SENIOR REACTOR OPERATOR EXAM  
OUTLINE IN REFERENCE TO ROI 02-04.

The purpose of this memorandum is to document the change to the PBAPS / LGS exam outline in reference to the incorporation of ROI 02-04. The exam outline was reviewed in reference to ROI 02-04 and found to meet the condition specified in the ROI. The outline changes are listed below.

ROI 02-04 changes - Category A

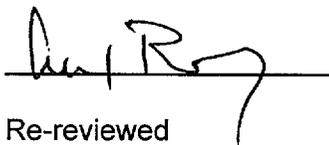
- JPM A.1-2 Was changed to specifically examine differences between PBAPS and LGS.
- JPM A.3 Was changed from a JPM to 2 questions to make the task more PBAPS specific.

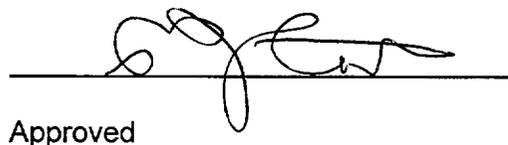
Written Exam (Unrelated Changes)

Question 3-12 Fuel handling equipment question changed from a PBAPS to a LGS question.

Question 3-16 Equipment control question changed from a LGS to a common question.

In both cases the K/A remained the same only the effected unit changed. The distribution of the exam is still evenly distributed among PBAPS (28%), LGS (28%) and Common (44%). Based on these changes the original ES-201-2, "LSRO Examination Outline Quality Checklist," was re-reviewed and found to be still valid. A revised ES-201-2 form will not be issued.

 4/17/02  
Re-reviewed

  
Approved

## Operator Licensing Report on Interaction (ROI)

Interaction No.:

02-04

Subject:	Revision to LSRO Administrative JPM Exam Methodology		
Type of Action:	Waiver:	Policy Interpretation: <b>X</b>	Request for HQ Action:
From:	R. Conte, Chief Operational Safety Branch R1/DRS/OSB	Date:	3/27/02
To:	D. Trimble, Chief, IOHS	Proposed Due Date:	*03/28/02
Info.:	* If this is reviewed and approved by 3/28/02 Exelon will develop 5 Administrative JPMs and not 10. (The exam outline supports both 5 or 10 administrative JPMs)		

Background / Issue:

Region I requests that the LSRO exam composition be modified by reducing the total number of 10 administrative JPMs (5 at Limerick and 5 at Peach Bottom) to a total of 5 administrative JPMs.

NRC Region I issues dual facility licenses for Peach Bottom and Limerick (Exelon) Limited Senior Reactor Operators (LSRO). This is allowed by ES-701 since the facilities are both BWR designs manufactured by the same vendor. ROI 91-49, "Approval of LSRO License That is Valid for Both Peach Bottom and Limerick," approved the test methodology to perform this dual facility license. The methodology is as follows:

- a. One written exam that will cover both facilities.
- b. Two operating exams - one at each facility composed of the following.
  1. 10 Administrative JPMs (5 at Limerick and 5 at Peach Bottom)
  2. 10 JPMs (5 at Limerick and 5 at Peach Bottom)
  3. 4 Integrated plant operation scenarios (2 at Limerick and 2 at Peach Bottom)

With respect to b.1 above, Exelon has requested that the LSRO exam composition be modified by reducing the total number of 10 administrative JPMs (5 at Limerick and 5 at Peach Bottom) to 5 administrative JPMs. The basis for this request is that both facilities use a common / similar set of administrative procedures. The exam will continue to test differences between the facilities in the administrative JPMs, as well as the rest of the exam.

Recommended Action / Resolution: In light of the common administrative procedures Region I recommends reducing the LSRO Administrative Topics (Category A) to 5 administrative question, specifically including differences between the facilities. This meets the requirements of ES-701 and will continue to allow for discrimination of operator performance during all portion of the LSRO exam. See Attached 1 - ES-701 Analysis

Final Action / Resolution: The recommended resolution is approved subject to the following clarifications / conditions: (1) Category A will consist of 5 JPMs or **two** questions per topic for which a JPM is not performed; (2) at least two of the five topics will be tested at each facility; and (3) at least two of the five topics will focus on differences between the facilities.

File Subject(s):	10CFR55:                      NUREG-1021: ES-701                      Specify Other: ROI 91-49
Distribution:	OLBCs, ROI logbook                      Post on Web: Yes or No?

**Signatures / Concurrences**

Originator:	R. Conte, Chief, Operational Safety Branch R1/DRS/OSB	Date:	03/27/02
OGC:	N/A                      (if needed)	Date:	
IOHS CH:	D. C. Trimble, Chief, IOHS/IEHB /RA/	Date:	3/29/02
IOLB CH:	T. Quay, Chief, IEHB /RA/                      (If needed)	Date:	4/1/02
Distribution Completed by IOLB Secretary (Initials):		Date:	

**Revision to LSRO Administrative JPM Exam Methodology  
Attachment 1 - Analysis of Change**

Results of Analysis:

Reducing the LSRO Administrative Topics (Category A) to 5 administrative JPMs, specifically including differences between the facilities, meets the requirements of ES-701 and will still allow for continued discrimination of operator performance during all portion of the LSRO exam.

**Analysis of Change - ES-701, "Administration of Initial Examinations for Senior Operations Limited for Fuel Handling."**

**C.2 RESPONSIBILITIES - NRC Regional Office**

The NRC regional office is responsible for the same activities specified in the unrestricted ES with the following exceptions and modifications:

2. With the concurrence of the NRR operator licensing program office, the regional office may issue LSRO licenses that are valid for units at more than one site provided the units are manufactured by the same vendor and are of similar design. The applicant must pass an examination that addresses the differences in the design, procedures, technical data, and administrative controls of the separate facilities for which the license is being sought.

**E.1 OPERATING TEST INSTRUCTIONS**

The LSRO operating test shall generally be prepared, administered, and documented in accordance with ES-301, ES-302, and ES-303. However, the sampling requirements will be less than those required for an SRO applicant.

**ES-301, "Preparing Initial Operating Tests,"** Require a total of five category A JPMs (administrative).

A.1	"Conduct of Operations"	2 Questions
A.2	"Equipment Control"	1 Question
A.3	"Radiation Control"	1 Question
A.4	"Emergency Plan"	1 Question

Therefore, ES-701 requires a 5 question administrative topic (category A) section and reducing the LSRO section to 5 administrative question, addressing differences between the facilities meets the requirements of ES-701.

91-49

R. Gallo

NRC FORM 503 OLB MC 160 ATTACHMENT 1 (6-88)		U.S. NUCLEAR REGULATORY COMMISSION		1. SUBJECT APPROVAL OF LSRO LICENSE THAT IS VALID FOR BOTH PEACH BOTTOM ATOMIC POWER STATION AND LIMERICK GENERATING STATION.	
2. ORIGINATOR H. WILLIAMS/R. CONTE/L. BETTENHAUSEN		3. DATE NOV. 6, 1991		4. TYPE OF ACTION <input type="checkbox"/> WAIVER <input type="checkbox"/> POLICY INTERPRETATION <input checked="" type="checkbox"/> REQUEST FOR HQ ACTION	
5. RECIPIENT R. GALLO, CHIEF, OLB		6. DATE 11/7/91		7. OTHER PARTIES T. PEEBLES, RII, J. PELLET, RIV, G. WRIGHT, RIII, L. MILLER, RV	
8. PROPOSED DUE DATE					
9. BACKGROUND  <p style="text-align: center;">SEE ATTACHED</p>					
10. SPECIFIC PROPOSED ACTION REQUIRED  <p style="text-align: center;">SEE ATTACHED</p>					
11. RECOMMENDED RESOLUTION  <p style="text-align: center;">SEE ATTACHED</p>					
12. FINAL RESOLUTION  Concur with region's recommendation. The region must ensure that significant differences between the facilities are tested on the written exam, as appropriate.					
13. FOLLOW-UP ACTION REQUIRED (Check appropriate box)		14. FILE SUBJECT		15. DISTRIBUTION (Specify)	
<input type="checkbox"/> OGC CONCURRENCE		10 CFR 55.		WDean log book	
<input type="checkbox"/> OGC ACTION		ES-701		RGallo Regional BCs/SCs	
<input type="checkbox"/> OTHER (Specify)		OTHER (Specify)		RLO OLB Routing	
16. SIGNATURE - REGIONAL BRANCH CHIEF <i>Richard J. Conte For L.N. Bettenhausen</i>		17. DATE 11/14/91		18. DISTRIBUTION COMPLETED OLB SECRETARY (Initials) RHC 91-49	
20. SIGNATURE - OLB BRANCH CHIEF <i>R. Gallo</i>		21. DATE 11/26/91		19. DATE 11/27/91	

## REPORT ON INTERACTION

### Item 9 Background

Draft ES-701 (dated 8/1/91) Paragraph B.2.d states, "At the discretion of the Chief, Operator Licensing Branch, an individual may be issued an LSRO license that is valid for units at more than one site that are from a single vendor of similar design."

PECo is currently training personnel for a dual LSRO license exam for Peach Bottom and Limerick.

NRC is scheduled to give the exam during the week of January 13, 1992.

### Item 10 Proposed Action

Region I plans to give a written exam which will cover both sites and conform to the guidance in ES-701. An operating exam will be given at each site to each candidate.

This approach was discussed and agreed with in principal at meetings earlier this year between Region I and OLB.

### Item 11 Recommended Resolution

Recommend concurrence with proposed action and approval of issuance, as appropriate, of a single LSRO license for both sites.

2002 LSRQ  
LGS  
PBAPS

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/3/02 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 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 6/3/02. 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)	DATENOTE
1. JEFFREY M. STEVENS	INSTRUCTOR / WRITER	<i>Jeffrey M. Stevens</i>	2/20/02	<i>Jeffrey M. Stevens</i>	6/7/02
2. DAVID A. MALINOWSKI	INSTRUCTOR / REVIEWER	<i>David A. Malinowski</i>	2/22/02	<i>David A. Malinowski</i>	6/12/02
3. CARL E. RICH JR.	OTM	<i>Carl E. Rich Jr.</i>	5-2-02	<i>Carl E. Rich Jr.</i>	6-12-02
4. PHILIP E. NIELSEN	EXAM DEVELOPMENT COORDINATOR	<i>Philip E. Nielsen</i>	4 MAR 02	<i>Philip E. Nielsen</i>	7 JUN 02
5. ANDREW W. YAUJEN	INSTRUCTOR / TECH SUPPORT	<i>Andrew W. Yaujen</i>	3/25/02	<i>Andrew W. Yaujen</i>	6/10/02
6. DANIEL J. WEIKNER	INSTRUCTOR / ASSY QA	<i>Daniel J. Weikner</i>	4/10/02	<i>Daniel J. Weikner</i>	6/10/02
7. COREY B. GOFF	INSTRUCTOR / ACCESS TO EXAM ROOM FOR REQUAL	<i>Corey B. Goff</i>	4/19/02	<i>Corey B. Goff</i>	6/11/02
8. CHRISTOPHER E. MICHAELS	INSTRUCTOR / PBAPS LSRQ ASSESSMENT	<i>Christopher E. Michaels</i>	5/2/02	<i>Christopher E. Michaels</i>	6/11/02
9. MARJORIE RYNO	CLERK	<i>Marjorie Ryno</i>	5/7/02	<i>Marjorie Ryno</i>	6/10/02
10. CRAIG A. FRITZ	INSTRUCTOR / LSRQ FOR JPMs	<i>Craig A. Fritz</i>	5/31/02	<i>Craig A. Fritz</i>	6/10/02
11.					
12.					
13.					
14.					
15.					

NOTES:

① SIGNED ON SEPARATE SHEET

2002 LSR of  
LES  
PBAPS

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/3/02 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 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 6/3/02. 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)	DATENOTE
1. JEFFREY M. STEVENS	INSTRUCTOR / WRITER	<i>Jeffrey M. Stevens</i>	2/20/02	<i>Jeffrey M. Stevens</i>	6/7/02
2. DAVID A. MALINOWSKI	INSTRUCTOR / REVIEWER	<i>David A. Malinowski</i>	2/22/02	<i>David A. Malinowski</i>	6/10/02
3. Carl E. Rich Jr	OTM	<i>Carl E. Rich Jr</i>	2-25-02	<i>Carl E. Rich Jr</i>	6-12-02
4. PHILIP E. NIELSEN	EXAM DEVELOPMENT COORDINATOR	<i>Philip E. Nielsen</i>	4/14/02	<i>Philip E. Nielsen</i>	7 JUN 02
5. ANDREW W. YANUSZ	INSTRUCTOR / TECH SUPPORT	<i>Andrew W. Yanusz</i>	3/25/02	<i>Andrew W. Yanusz</i>	6/10/02
6. DANIEL J. WEIKSNER	INSTRUCTOR / ASST QA	<i>Daniel J. Weiksner</i>	4/10/02	<i>Daniel J. Weiksner</i>	6/10/02
7. COREY B. GOFF	INSTRUCTOR / ACCESS TO EXAM KEY FOR REVIEW	<i>Corey B. Goff</i>	4/19/02	<i>Corey B. Goff</i>	6/11/02
8. Christopher G. Michaels	Instructor / PBAPS LSRD ASSESSMENT	<i>Christopher G. Michaels</i>	5/4/02	<i>Christopher G. Michaels</i>	6/17/2002 *
9. MARJORIE RYNO	CLERK	<i>Marjorie Ryno</i>	5/7/02	<i>Marjorie Ryno</i>	6/10/02
10. Craig A. Fritz	Instructor / LSRD for JPM	<i>Craig A. Fritz</i>	5/31/02	<i>Craig A. Fritz</i>	6/10/02
11.					
12.					
13.					
14.					
15.					

NOTES:

\* fax copy, signed off  
and returned to J. Stevens

*Chris Michaels 4/17/2002*  
PBAPS OPS Training X 3559

LSRO, HP

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/3/02 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 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 6/3/02. 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)	DATENOTE
1. BRANDON K. SHULTZ	SRO - NUCLEAR SHIFT SUPV.		3-11-02	(1) per Telecom	6/18/02
2. MICHAEL J BAKER	LSRO (VALIDATION)		4/1/02	(2)	/
3. William F. Bianco	LSRO (VALIDATION)		4/3/02	William F. Bianco	6/11/02
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NOTES: (1) VACATION - NOT AVAIL  
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LSRO, HP

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/3/02 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 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. BRANDON K. SHULTZ	SRD - NUCLEAR SHIFT SUPV.		3-11-02		
2. MICHAEL J BAKER	LSRO (VALIDATION)		4/1/02		6/18/02
3. William F. Bianco	LSRO (VALIDATION)		4/3/02		6/1/02
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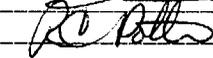
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1. Pre-Examination (LSRO Examination)

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2. Post-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE/NOTE
1.	David B. Hamilton	MGR - RX ENGINEERING / CCMS AUTHORITY		3/21/02		6/11/02
2.	Robert C. Potter	REACTOR ENGINEER / STAFF SUPERVISOR		3/21/02	Robert C. Potter	6/11/02
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LSRO / HP

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	PRINTED NAME Last, First	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1.	DAISE, JEFFREY	LSRO Bridge Team	<i>[Signature]</i>	5/8/02	① ✓	
2.	GRAY, STUART	FHD RPD Bridge Team	<i>[Signature]</i>	5/8/02	② ✓	
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NOTES: ① ② SIGNED ON SEPARATE SHEET

LSRO / HP

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2. Post-Examination

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	PRINTED NAME Last, First	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1.	DAISE, JEFFREY	LSRO Bridge Team	<i>[Signature]</i>	5/8/02	<i>[Signature]</i>	6/12/02
2.	GRAY, STUART	FHD RPO Bridge Team	<i>[Signature]</i>	5/9/02	<i>[Signature]</i>	6/12/02
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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1.	Guarino, Edward	PBAPS Refuel Platform System Manager	<i>Edward R Guarino</i>	5/22/02	PER TELCON (1) <i>[Signature]</i>	6/17/02
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NOTES: (1) ON ASSIGNMENT

1. Pre-Examination (LSRO 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 6/3/02. 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)	DATENOTE
1.	Dennis J. Clay	NMD/RSS Supervisor	<i>Dennis J. Clay</i>	5/14/02	<i>(15)</i>	
2.	Michael P. O'Brien	NMD/RSS RPO	<i>Michael P. O'Brien</i>	5-16-02	<i>(1)</i>	
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NOTES: *(1) SIGNED ON SEPARATE SHEET*

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1.	Dennis J. Clay	NMD/RSS Supervisor	<i>Dennis J. Clay</i>	5/14/02	<i>Dennis J. Clay</i>	ML 6-17-02
2.	Michael P. ...	NMD/RSS RPO	<i>Michael P. ...</i>	5-16-02		
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2.	Michael P. Olsen	NMD/RSS RPO	<i>Michael P. Olsen</i>	5-16-02	<i>Michael P. Olsen</i>	6-12-02
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. Jeffrey W. Holley	Sr. Reactor Engineer	<i>Jeffrey W. Holley</i>	3/23/02	(1) ✓	
2. Michael R. Holme	Reactor Engineer	<i>Michael R. Holme</i>	3/25/02	(1) ✓	
3. Steven R. Hesse	Mgr. R <sub>X</sub> Eng	<i>Steven R. Hesse</i>	3-26-02	(1) ✓	
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3. Steven R. Hesse	Mgr. Rx Eng	<i>Steven R. Hesse</i>	3-26-02		
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2. Michael R. Holmes	Reactor Engineer	<i>Michael R. Holmes</i>	3/25/02		
3. Steven R. Hesse	Mgr. Rx Eng	<i>Steve Hesse</i>	3-26-02	<i>SRH</i>	6-13-02
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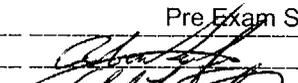
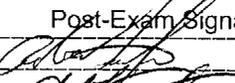
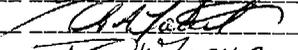
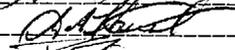
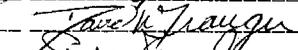
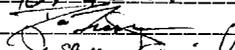
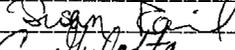
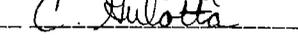
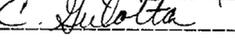
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1. Pre-Examination Security Agreement for Individuals Having Access to Refueling Area Video Monitors During NRC Examination Activities

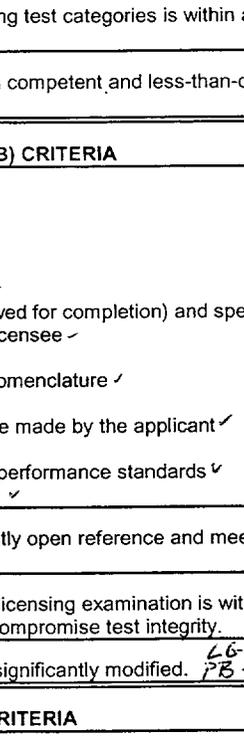
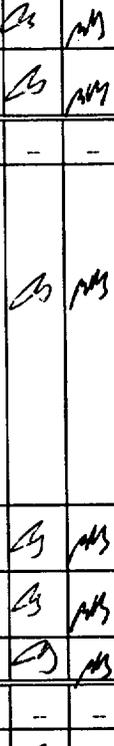
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. Last, First	Station Security	Pre Exam Signature		Post-Exam Signature	
2. <u>HARTFIELD, ROBERT</u>	<u>STATION SECURITY</u>		<u>13MAY02</u>		<u>11 JUN 02</u>
3. <u>Foust, Glenn</u>	<u>STATION SECURITY</u>		<u>13MAY02</u>		<u>11 JUN 02</u>
4. <u>Trainer, David</u>	<u>STATION SECURITY</u>		<u>13MAY02</u>		<u>11 JUN 02</u>
5. <u>RAIMICH, SUSAN</u>	<u>STATION SECURITY</u>		<u>13MAY02</u>		<u>11 JUN 02</u>
6. <u>GULOTTA, CRAIG</u>	<u>STATION SECURITY</u>		<u>13MAY02</u>		<u>11 JUN 02</u>
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NOTES: Individuals on this security agreement have access to video images of the refueling floor as part of their duties. They do not normally provide training to LSRO candidates. During NRC exam validation and performance, individuals having access to refuel floor video displays should activate only those displays required for conditions, and should minimize the time the exam activities are displayed by avoiding following examiners with movable cameras.

Facility: <u>LIMERICK PEACH BOTTOM</u>		Date of Examination: <u>6/3/02</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).	AS	MS	BS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	AS	MS	BS	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	AS	MS	BS	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	AS	MS	BS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	AS	MS	BS	
2. WALK-THROUGH (CATEGORY A & B) CRITERIA		--	--	--	
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>- initial conditions ✓</li> <li>- initiating cues ✓</li> <li>- references and tools, including associated procedures ✓</li> <li>- reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee ✓</li> <li>- specific performance criteria that include:                         <ul style="list-style-type: none"> <li>- detailed expected actions with exact criteria and nomenclature ✓</li> <li>- system response and other examiner cues ✓</li> <li>- statements describing important observations to be made by the applicant ✓</li> <li>- criteria for successful completion of the task ✓</li> <li>- identification of critical steps and their associated performance standards ✓</li> <li>- restrictions on the sequence of steps, if applicable ✓</li> </ul> </li> </ul>	AS	MS	BS	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	AS	MS	BS	
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.	AS	MS	BS	
d.	At least 20 percent of the JPMs on each test are new or significantly modified. <sup>LG-100%</sup> <sub>PB-60%</sub>	AS	MS	BS	
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.	AS	MS	BS	
a. Author	Printed Name / Signature: <u>JEFFREY M. STEVENS</u> 	Date: <u>4/9/02</u>			
b. Facility Reviewer(*)	<u>BRANDON K. SHULTZ</u> 	Date: <u>4-11-02</u>			
c. NRC Chief Examiner (#)	<u>WLB</u> / Alan Blaney	Date: <u>5/13/02</u>			
d. NRC Supervisor	<u>Richard J. Carter</u> 	Date: <u>5/13/02</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.		Note 1, 2			

Note 1 - Comments documented on 4/26/02 memo to file

2 - Final Signature after site validation Alan Blaney / WLB (Chief Examiner) 5/22/02 (Date)

RJ Carter / [Signature] (NRC Supervisor) 5/24/02 (Date)

Facility: <u>LIMERICK PEACH BOTTOM</u> Date of Exam: <u>6/3/02</u> Scenario Numbers: <u>11 12</u> Operating Test No.:		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.	<u>AS</u>	<u>MS</u>	<u>BS</u>
2.	The scenarios consist mostly of related events.	<u>AS</u>	<u>MS</u>	<u>BS</u>
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><del>the malfunction(s) that are entered to initiate the event</del></li> <li>the symptoms/cues that will be visible to the crew <u>given to the candidate</u></li> <li>the expected operator actions <u>(by shift position)</u></li> <li>the event termination point (if applicable)</li> </ul>	<u>BS</u>	<u>MS</u>	<u>BS</u>
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.	<u>AS</u>	<u>MS</u>	<u>BS</u>
5.	The events are valid with regard to physics and thermodynamics.	<u>AS</u>	<u>MS</u>	<u>BS</u>
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<u>AS</u>	<u>MS</u>	<u>BS</u>
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.	<u>AS</u>	<u>MS</u>	<u>BS</u>
8.	<del>The simulator modeling is not altered.</del>	<u>N/A</u>		<u>N/A</u>
9.	The scenarios have been validated. <del>Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.</del>	<u>AS</u>	<u>MS</u>	<u>BS</u>
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. <u>ALL NEW</u>	<u>AS</u>	<u>MS</u>	<u>BS</u>
11.	<del>All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).</del>	<u>N/A</u>		<u>N/A</u>
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 <del>(submit the form with the simulator scenarios).</del> <u>in ES-701 E.3</u>	<u>AS</u>	<u>MS</u>	<u>BS</u>
13.	The level of difficulty is appropriate to support licensing decisions <del>for each crew position.</del>	<u>AS</u>	<u>MS</u>	<u>BS</u>
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		
1.	Total <del>malfunctions (5-8)</del> <sup>events</sup> <u>(2)</u>	<u>2</u>	<u>2</u>	<u>2</u>
2.	Malfunctions after EOP entry (1-2) <u>Equipment or Instrument Malfunctions (1)</u>	<u>1</u>	<u>1</u>	<u>1</u>
3.	<del>Abnormal events (2-4)</del> <u>Emergency Procedure Events (1)</u>	<u>1</u>	<u>1</u>	<u>1</u>
4.	<del>Major transients (1-2)</del>	<u>1</u>	<u>1</u>	
5.	<del>EOPs entered/requiring substantive actions (1-2)</del>	<u>1</u>	<u>1</u>	
6.	<del>EOP contingencies requiring substantive actions (0-2)</del>	<u>1</u>	<u>1</u>	
7.	<del>Critical tasks (2-3)</del>	<u>1</u>	<u>1</u>	

**NRC Review of PB / LIM LSRO IPO**

Competencies	Applicant #1- 4 LSRO				Applicant #2 RO/SRO-I/SRO-U				Applicant #3 RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	P 1	P 2	L 1	L2	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	2		2	1								
Diagnose Events and Conditions	1, 2	1, 2	1, 2	1, 2								
Understand Plant and System Response		2	2	1, 2								
Comply With and Use Procedures	2	2	2	1								
Operate Control Boards (1)												
Communicate and Interact With the Crew	2	1, 2	1, 2	1								
Demonstrate Supervisory Ability	1, 2	1, 2	1, 2	1, 2								
Comply With and Use Tech. Specs. (2)		1										
<p>Notes:</p> <p>(1) LSRO Operates the equipment during the Cat. B portion of the exam.                      (2) TS are discussed in several other areas (written).</p>												

NRC Reviewer:

 5/22/02

Facility: <b>LIMERICK PEACH BOTTOM</b>		Date of Exam: <b>6/3/02</b>		Exam Level: <b>RO/SRO</b>		
Item Description	Initial					
	a	b*	c*			
1. Questions and answers technically accurate and applicable to facility	B	MM	B			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	B	MM	B			
3. <del>RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401</del>	N/A		N/A			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			B			
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; or <input checked="" type="checkbox"/> the audit exam was completed before the license exam was started; or <input checked="" 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)	B	MM	B			
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	B	MM	B
	16%	0	84%			
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	CIA		B	MM	B
	46%	54% WITH 25 NEW QUEST.				
8. References/handouts provided do not give away answers	B	MM	B			
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	B	MM	B			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	B	MM	B			
11. The exam contains <sup>50</sup> 100 one-point, multiple choice items; the total is correct and agrees with value on cover sheet	B	MM	B			
Printed Name / Signature				Date		
a. Author	JEFFREY M. STEVENS			4/9/02		
b. Facility Reviewer (*)	BRANDON K. SHULTZ			4-11-02		
c. NRC Chief Examiner (#)	[Signature] / Alan Blaney			5/13/02		
d. NRC Regional Supervisor	Richard J. Conter			5/17/02		
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.						

NUREG-1021, Revision 8, Supplement 1 42 of 46

Note 1: Comments documented on memo file dated 4/26/02

Note 2: Final Signature after site validation. Alan Blaney / [Signature] (Chief Ex) 5/22/02  
Date

[Signature] (NRC SUP) 5/24/02  
Date

April 26, 2002

MEMORANDUM TO: Exam File  
Exelon  
LSRO - Peach Bottom / Limerick Station

FROM: Alan Blamey *AB* 4/26/02  
Senior Operations Engineer

SUBJECT: COMMENTS ON PEACH BOTTOM / LIMERICK STATION  
LIMITED SENIOR REACTOR OPERATOR EXAM.

The purpose of this memorandum is to document comments on the Peach Bottom / Limerick Station exam received on Tuesday, April 16, 2002. The exam was reviewed by A. Blamey, Examiner / Inspector and C. Sisco, Examiner / Inspector. The comments were provided to J. Stevens, Examination Developer, Exelon on April 26, 2002. The comments are as follows.

**Section 1. Written**

5/14/02 *B*  
Sat. Comments documented on ES-401-9, "Written Examination Review Worksheet."

**Section 2. Integrated Plant Operation (IPO)**

5/14/02 *B*  
Sat. All scenarios do not denote critical tasks.

**Section 3. Walk Through - Job Performance Measures (JPM)**

Category A  
5/14/02 *B*  
Sat. JPM A2, should use detector locations other than the "A" detector to ensure that the applicants know the actual location of the detectors.

5/14/02 *B*  
Sat. Questions A3-1 is a direct look up if allowed to use reference material. Based on ES-301, Attachment 1, this question should be closed reference questions.

Category B Limerick

5/14/02 *B*  
Sat. - will be performed day of JPM. JPM LG-1, "Movement of the Dummy Fuel Bundle in the Spent Fuel Pool," contains procedure S97.1.A, but for the purpose of this JPM the procedure should be completed so the candidate can perform the fuel movement.

5/14/02 *B*  
Sat. JPM LG-2, "LPRM Removal," should have procedure M-C-774-010 completed to the step that the applicant will be required to perform.

5/14/02 ~~B~~ Sat. **JPM LG-3**, "Movement of Fuel From the Fuel Prep. Machine," should have the prerequisites of FH-106 signed off as per the initial condition of the JPM.

5/14/02 ~~B~~ Sat. **JPM LG-5**, "Defeat Unit 1 & 2 Refuel Floor HVAC High Radiation Isolation Signals," should have the first step of the procedure completed, suspending fuel handling activities.

Peach Bottom

5/14/02 ~~B~~ Sat. *To be performed day of JPM* **JPM PB-2**, "Full Automatic Fuel Transfer Within the Spent Fuel Pool," should have a completed copy of procedure FH-35 to allow fuel movement.

5/14/02 ~~B~~ Sat. **JPM PB-3**, "Control Blade Removal Using the Combined Grapple," does not have a core map that is required in JPM step 2.

5/14/02 ~~B~~ Sat. **JPM PB-5**, "Abnormal WRNM Response During Core Alterations," should have procedure FH-6C with the prerequisites completed.

**Section 4 General Comments Punch List Items**

5/22/02 ~~B~~ Complete the following items during the week of May 12, 2002 during the prep. week.

- Verify no overlap on the operating test with the Audit Exam.
- Verify that no significant overlap with the last NRC LSRO Exam.
- Verify that the above changes have been made.
- Complete checklist signatures when verification complete.

May 21, 2002

MEMORANDUM TO: Exam File  
Exelon  
LSRO - Peach Bottom / Limerick Station

FROM: Alan Blamey  5/21/02  
Senior Operations Engineer

SUBJECT: VALIDATION COMMENTS ON PEACH BOTTOM / LIMERICK  
STATION LIMITED SENIOR REACTOR OPERATOR EXAM.

The purpose of this memorandum is to document comments / corrections on the Peach Bottom / Limerick LSRO exam that occurred during the exam validation week (May 13, 2002). The exam was validated by A. Blamey, Examiner / Inspector, J. Caruso, Examiner / Inspector, and J. Stevens, Exelon Exam Developer. The comments were provided to J. Stevens, Examination Developer, during the review. The comments were incorporated and are listed below.

**Section 1. Written**

None

**Section 2. Integrated Plant Operation (IPO)**

Peach Bottom

IPO 1 Event 1, step 1 should be a critical task.

IPO 2 Add the Peach Bottom EALs for the applicant

**Section 3. Walk Through - Job Performance Measures (JPM)**

Category A None

Category B Limerick

**JPM LG-1**, More clearly specified the actions that are expected when the target location is obstructed and added more detail on revising the CCTAS.

**JPM LG-3**, Steps 19a, 19e are not critical tasks they are verify steps.

**JPM LG-4**, Added the alarm window description.

Peach Bottom

**JPM PB-1**, Removed the critical task from step 5. This is a verification step. Remove the aids that were used to perform the in-office review.

**JPM PB-2**, Step 5 & 27 are not critical steps, they are verifications only. Delete step 21c because it is a duplicate verification.

**JPM PB-3**, Include a core map in the JPM for the candidate to identify the proper location.

**JPM PB-4**, Changed the initial location of the Tri-Nuc filter and added a critical step to determine if movement could occur while secondary containment was not operating.

Facility: <u>LIMERICK, PEACH BOTTOM</u> Date of Exam: <u>31 MAY 2002</u> Exam Level: <u>RO/SRO</u>			
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	AS	AM	AS
2. Answer key changes and question deletions justified and documented (NO CHANGES)	N/A AS	N/A AM	AS
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	AS	AM	AS
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	AS	AM	AS
5. All other failing examinations checked to ensure that grades are justified	AS	AM	AS
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	AS	AM	AS
Printed Name / Signature		Date	
a. Grader	<u>JEFFREY M. STEVENS</u> <i>[Signature]</i>	<u>6/12/02</u>	
b. Facility Reviewer(*)	<u>PHILIP C. NIELSEN</u> <i>[Signature]</i>	<u>12 JUN 02</u>	
c. NRC Chief Examiner (*)	<u>Alan Blamey</u> <i>[Signature]</i>	<u>6/13/02</u>	
d. NRC Supervisor (*)	<u>Richard J. Conte</u> <i>[Signature]</i>	<u>6/13/02</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			

LSRO

Note: C. Sisco reviewed exam grading in addition to A. Blamey.