Area	Exam 99 Exam	01 Exam	Rev 9 Req	Recommendation #1	Recommendation #2	Recommendation #3	Recommendation #4	Avoid
Written Questions	65 7 GFE 24 LGS 5 Common 22 PBAPS 7 Admin	50 8 GFE 14 LGS 8 Common 14 PBAPS 6 Admin	40 50 - 60% Lvl 2 30 bank 4 new 6 modified 10 Admin (including GFE)	Per Nureg 40	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg 40 LGS 40 PBAPS
Admin JPM	20 Questions 10 PBAPS Question 10 LGS Question	4 JPM / 2 Question 1 LGS JPM 2 Common JPM 2 PBAPS Question 1 PBAPS JPM	3 JPMs <= 1 from Previous 2 Exams >= 1 New JPM	3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs + 1 PBAPS (Differences) or 3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs 3 PB JPMs
System JPM	10 JPM 5 PBAPS JPMs 5 LGS JPMs	10 JPM 5 PBAPS JPMs 5 LGS JPMs	4 JPMs 2 FHE 2 Non FHE 2 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM	2 LGS 2 PBAPS	2 LGS 2 PBAPS	4 LGS 2 PBAPS (Differences) 4	4 LGS 4 PBAPS	4 LGS 4 PBAPS
~~Scenarios~~	2 PBAPS Scenarios 2 LGS Scenarios	2 PBAPS Scenarios 2 LGS Scenarios	3 Emergency/Abnormal Plan JPM 1 Refuel Accident 1 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM 2 Tech Spec <= 7 from Bank	1 LGS 1 PBAPS 1Common	3 LGS 3 PBAPS	3 LGS 1 PBAPS (Differences)	3 LGS 3 PBAPS	3 LGS 3 PBAPS
				4 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 3 E/A JPMs (1 New)	5 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 6 E/A JPMs (2 New)	5 New Questions 4 Admin JPMs (1 New) 6 System JPMs (3 New) 4 E/A JPMs (2 New)	5 New Questions 3 Admin JPMs (1 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)	8 New Questions 6 Admin JPMs (2 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)

Cannot Duplicate Audit Tasks

9:30 call

15 JPMs

+ 1 Alt

Area	Exam 99 Exam	01 Exam	Rev 9 Req	Recommendation #1	Recommendation #2	Recommendation #3	Recommendation #4	Avoid
Written Questions	65 7 GFE 24 LGS 5 Common 22 PBAPS 7 Admin	50 8 GFE 14 LGS 8 Common 14 PBAPS 6 Admin	40 50 - 60% Lvl 2 30 bank 4 new 6 modified 10 Admin (including GFE)	Per Nureg 40	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg 40 LGS 40 PBAPS
Admin JPM	20 Questions 10 PBAPS Question 10 LGS Question	4 JPM / 2 Question 1 LGS JPM 2 Common JPM 2 PBAPS Question 1 PBAPS JPM	3 JPMs <= 1 from Previous 2 Exams >= 1 New JPM	3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs + 1 PBAPS (Differences) or 3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs 3 PB JPMs
System JPM	10 JPM 5 PBAPS JPMs 5 LGS JPMs	10 JPM 5 PBAPS JPMs 5 LGS JPMs	4 JPMs 2 FHE 2 Non FHE 2 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM	2 LGS 2 PBAPS	2 LGS 2 PBAPS	4 LGS 2 PBAPS (Differences)	4 LGS 4 PBAPS	4 LGS 4 PBAPS
Scenarios	2 PBAPS Scenarios 2 LGS Scenarios	2 PBAPS Scenarios 2 LGS Scenarios	3 Emergency/Abnormal Plan JPM 1 Refuel Accident 1 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM 2 Tech Spec <= 7 from Bank	1 LGS 1 PBAPS 1Common	3 LGS 3 PBAPS	3 LGS 1 PBAPS (Differences)	3 LGS 3 PBAPS	3 LGS 3 PBAPS
				4 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 3 E/A JPMs (1 New)	5 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 6 E/A JPMs (2 New)	5 New Questions 4 Admin JPMs (1 New) 6 System JPMs (3 New) 4 E/A JPMs (2 New)	5 New Questions 3 Admin JPMs (1 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)	8 New Questions 6 Admin JPMs (2 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)

Cannot Duplicate Audit Tasks

Area	Exam 99 Exam	01 Exam	Rev 9 Req	Recommendation #1	Recommendation #2	Recommendation #3	Recommendation #4	Avoid
Written Questions	65 7 GFE 24 LGS 5 Common 22 PBAPS 7 Admin	50 8 GFE 14 LGS 8 Common 14 PBAPS 6 Admin	40 50 - 60% Lvl 2 30 bank 4 new 6 modified 10 Admin (including GFE)	Per Nureg 40	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg "+" 10 50	Per Nureg 40 LGS 40 PBAPS
Admin JPM	20 Questions 10 PBAPS Question 10 LGS Question	4 JPM / 2 Question 1 LGS JPM 2 Common JPM 2 PBAPS Question 1 PBAPS JPM	3 JPMs <= 1 from Previous 2 Exams >= 1 New JPM	3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs + 1 PBAPS (Differences) or 3 Common PB/LGS JPMs	3 Common PB/LGS JPMs	3 LGS JPMs 3 PB JPMs
System JPM	10 JPM 5 PBAPS JPMs 5 LGS JPMs	10 JPM 5 PBAPS JPMs 5 LGS JPMs	4 JPMs 2 FHE 2 Non FHE 2 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM	2 LGS 2 PBAPS	2 LGS 2 PBAPS	4 LGS 2 PBAPS (Differences)	4 LGS 4 PBAPS	4 LGS 4 PBAPS
Scenarios	2 PBAPS Scenarios 2 LGS Scenarios	2 PBAPS Scenarios 2 LGS Scenarios	3 Emergency/Abnormal Plan JPM 1 Refuel Accident 1 Alternate Path <= 1 from Previous 2 Exams >= 1 New JPM 2 Tech Spec <= 7 from Bank	1 LGS 1 PBAPS 1Common	3 LGS 3 PBAPS	3 LGS 1 PBAPS (Differences)	3 LGS 3 PBAPS	3 LGS 3 PBAPS
				4 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 3 E/A JPMs (1 New)	5 New Questions 3 Admin JPMs (1 New) 4 System JPMs (1 New) 6 E/A JPMs (2 New)	5 New Questions 4 Admin JPMs (1 New) 6 System JPMs (3 New) 4 E/A JPMs (2 New)	5 New Questions 3 Admin JPMs (1 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)	8 New Questions 6 Admin JPMs (2 New) 8 System JPMs (2 New) 6 E/A JPMs (2 New)

Cannot Duplicate Audit Tasks

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Limerick Generating Station
Limerick Learning Center
3146 Sanatoga Road
Pottstown, PA 19464

NUREG-1021

April 1, 2005

Mr. S. Collins, Administrator
U.S. NRC Region I
475 Allendale Road
King of Prussia, PA 19406

Limerick Generating Station, Units 1 and 2
Peach Bottom Atomic Power Station, Units 2 and 3
Facility Operating License Nos. NPF-39 and NPF-85
Facility Operating License Nos. DPR-44 and DPR-56
NRC Docket Nos. 50-352 and 50-353
NRC Docket Nos. 50-277 and 50-278

Subject: Submittal of LSRO Licensed Operator Examination Outline

In accordance with NUREG-1021, Revision 9, "Operator Licensing Examination Standards for Power Reactors", Exelon is submitting the LSRO Licensed Operator examination outline for Limerick Generating and Peach Bottom Atomic Power Stations. This submittal supports the initial (LSRO) license examination scheduled to commence the week of June 13, 2005.

In accordance with NUREG-1021, Revision 9, Section ES-201, please ensure that these materials are withheld from public disclosure until after the examinations are complete.

Should you have any questions concerning this letter or the examination outlines, please contact Corey Goff at (610) 718-4084.

Sincerely,

Carl E. Rich
Facility Representative/Operations Training Manager-LGS

cc: J. Caruso, Chief Examiner NRC Region I w/Enclosures
S. Hansell USNRC Senior Resident Inspector, LGS w/o Enclosures
NRC Document Control Desk w/o Enclosures

Enclosures: ES-701-1, LSRO BWR Written Exam outline
ES-701-3, LSRO Generic Knowledge and Abilities Outline (Tier 3)
ES-701-4, LSRO Operating Test Outline
ES-701-5, LSRO Examination Outline Quality Checklist

Tier / Group	Randomly Selected K/A	Reason for Rejection
Tier 1	295019 AK2.14	LGS and Common and PBAPS Outline - Partial or Total Loss of Instrument Air / Plant Air Systems. After reviewing the task list, lesson plan materials taught to the LSROs and discussion with LSRO incumbents, this K/A was rejected. This topic falls outside the scope of LSRO activities and required job knowledge. This K/A was replaced with randomly selected K/A 295034 EK2.01 which has been verified to be contained within the LSRO job scope
Tier 2	223001 G2.1.12	LGS and Common Outline – Loss of Primary Containment. After reviewing the task list, lesson plan materials taught to the LSROs and discussion with LSRO incumbents, this K/A was rejected. This topic falls outside the scope of LSRO activities and required job knowledge. This K/A was replaced with selected K/A 290001 G2.1.12 which has been verified to be pertinent to the LSRO job scope
Tier 2	215005 K2.01	LGS and Common ans PBAPS Outline - APRM / LPRM Power Supply to LPRM Channels. This K/A is beyond the scope of the LSRO (basis for rejection is the same method as described above). K/A was replaced by randomly selected K/A 2040000 A3.04 which is more applicable to LSRO
Tier 3	292003 K1.09	LGS and Common Outline – Randomly selected K/A to Define doubling time and calculate it it using the power equation is beyond the scope of the LSRO (basis for rejection is the same method as described above). This K/A was replaced with randomly selected K/A 292004 K1.14 which is applicable to LSRO's
Tier 2	233000 K6.10	PBAPS Outline - Fuel Pool Cooling / Cleanup / Reactor Cavity Seal Failure. Physical design of the PBAPS refuel seals prevents failure without considering implausible failure mechanisms. Although this K/A can be adequately tested at LGS, it cannot be adequately tested a PBAPS. This K/A was rejected and was replaced with randomly selected K/A 215003 K5.03 which has been verified to be contained within the LSRO job scope

Changes to the sample plant submitted April 1st

Revision 1 of the sample plan includes the following changes

K/A Rejections per ES-401-4

PBAPS System JPM Change

- Temporarily defeat RHR SDC automatic reactor pressure – high isolation GP-29, was deleted based on the following criteria
  - Not contained on LSRO Task List
  - Actual task performed by a facility Equipment Operator
  - Outside the job scope of LSRO
  - LSRO incumbent recommendation
- Was replaced with Refueling Interlock Functional Test with the Inability to move control rods – Testing Rod Withdraw Interlocks
- Changed title and JPM from Fully Automatic to Semi-Automatic
  - Semi-Automatic Mode is more representative of the task that LSRO perform/direct

Facility:	LGS					Date of Exam: JUNE 13 2005					
Tier	K/A Category Points										
	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	Total
1. Emergency & Abnormal Plant Evolutions	2	2	2				1	2			1	10
2. Plant Systems	2	2	2	2	2	2	2	2	1	2	1	20
3. Generic Knowledge and Abilities Categories	1			2		3		4		GFE		10
	2			2		2		2		2		

Note: 1. Ensure that at least one topic from every K/A category is sampled within each tier.
2. The point total for each tier in the proposed outline must match that specified in the table. The final point total for each tier may deviate by ± 1 from that specified in the table based on NRC revisions. The final exam must total 40 points.
3. Select topics from many systems and evolutions; avoid selecting more than two K/A topics from a given system (except fuel handling equipment) or evolution (except fuel handling accident).
4. The shaded areas are not applicable to the category/tier.
5. • The generic (G) K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.
6. If the applicants have not previously taken the GFE, Tier 3 shall include basic reactor theory, component, and thermodynamic topics that apply to fuel handling operations.
7. Systems/evolutions within each tier are identified on the associated outline. Enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IR) for the SRO license level, and the point totals (#) for each system and category. Enter the tier totals for each category in the table above.
8. For Tier 3, select topics from Setion 2 of the K/A catalog, and enter the K/A numbers, descriptions, importance ratings, and point totals (#) on Form ES-701-3.
9. Refer to ES-401, Attachment 2, for guidance regarding the elimination of inappropriate K/A statements. The facility licensee's JTA for fuel handlers should be used as the basis for eliminating or adding testable topics.

ES-701	LSRO BWR Written Examination Outline Emergency and Abnormal Plant Evolutions – Tier 1							Form ES-701-1
	K 1	K 2	K 3	A 1	A 2	G	K/A Topics(s)	IR	#
295003 Partial or Complete Loss of AC		X					AK2.02, Emergency generators	4.2	1
295004 Partial of Total Loss of DC									
295014 Inadvertent Reactivity Addition					X		AA2.03, Cause of reactivity addition	4.3	1
295018 Partial or Total Loss of CCW	X						AK1.01, Effects on component/system operation	3.6	1
295021 Loss of Shutdown Cooling	X						AK1.03, Adequate core cooling	3.9	1
295023 Refueling Accidents				X			AA1.03, Fuel handling equipment	3.6	1
295033 High Secondary Containment Area Radiation Levels						X	G2.3.10, Ability to perform procedures to reduce excessive lev of rad and guard against personnel exp	3.3	1
295034 Secondary Containment Ventilation High Radiation									
295006 SCRAM									
295008 High Reactor Water Level					X		AA2.01, Reactor water level	3.9	1
295009 / 295031 Reactor Low Water Level			X				EK3.02, Core coverage	4.7	1
295017 / 295038 High Offsite Release Rate			X				AK3.01, System isolations Trend identified ← NOT applicable at Limerick will be replaced by license	3.9	1
295019 Partial or Total Loss of Inst. Air		X					AK2.14, Plant air systems	3.2	1
295020 Inadvertent Cont. Isolation									
295030 Low Suppression Pool Wtr Lvl									
295035 Secondary Containment High Differential Pressure									
600000 Plant Fire On Site									
K/A Category Totals:	2	2	2	1	2	1	Tier Point Total:		10

ES-701	LSRO BWR Examination Outline Plant Systems – Tier 2	Form ES-701-1

	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	K/A Topics(s)	IR	#
205000 Shutdown Cooling							X					A1.08, Heat exchanger temperatures	2.9	1
215004 Source Range Monitor		X										K2.01, SRM channels/detectors	2.8	1
233000 Fuel Pool Cooling/Cleanup						X						K6.10, Reactor cavity seal failure	3.3	1
234000 Fuel Handling Equipment			X									K3.03, Fuel handling problems	3.8	1
262001 AC Electrical Dist.														
263000 DC Electrical Dist.														
290002 Reactor Vessel Internals				X								K4.05, Natural circulation	3.5	1
201002 RMCS										X		A4.03, Rod drift test switch	2.8	1
201003 Control Rod and Drive Mechanism						X						K6.01, Control rod drive hydraulic system	3.3	1
203000 RHR/LPCI: Injection Mode					X							K5.02, Core cooling methods	3.7	1
204000 RWCU														
211000 SLC				X								K4.07, RWCU isolation	3.9	1
212000 RPS									X			A3.04, System status lights and alarms	3.8	1
214000 RPIS	X											K1.05, Full core display	3.3	1
215001 Traversing In-Core Probe														
215003 IRM					X							K5.03, Changing detector position	3.1	1
215005 APRM / LPRM		X										K2.01, LPRM channels	2.8	1
223001 Primary CTMT and Aux.											X	G2.1.12, Ability to apply TS for a system	4.0	1
223002 PCIS/Nuclear Steam Supply Shutoff			X									K3.16, Shutdown cooling system/RHR	3.3	1
261000 SGTS										X		A4.02, Suction valves	3.1	1
264000 EDGs	X											K1.01, AC electrical systems	4.1	1
272000 Radiation Monitoring							X					A1.01, Lights, alarms, and indications associated with normal operations	3.2	1
286000 Fire Protection														
288000 Plant Ventilation														
290001 Secondary CTMT								X				A2.03, High area radiation	3.6	1
300000 Instrument Air														
400000 Component Cooling Water								X				A2.02, High/low surge tank level	3.0	1
K/A Category Totals:	2	2	2	2	2	2	2	2	1	2	1	Tier Point Total:		20

License identified will replace NOT LSRO task

ES-701	LSRO Generic Knowledge and Abilities Outline (Tier 3)		Form ES-701-3
Facility: LGS		Date of Exam: JUN 13 2005	
Category	K/A #	Topic	IR	#
1. Conduct of Operations	2.1.22	Ability to determine mode of operation	3.3	1
	2.1.32	Ability to explain and apply system limits and precautions	3.8	1
	2.1			
	2.1			
	Subtotal			2
2. Equipment Control	2.2.26	Knowledge of refueling administrative requirements	3.7	1
	2.2.29	Knowledge of SRO fuel handling responsibilities	3.8	1
	2.2			
	2.2			
	Subtotal			2
3. Radiation Control	2.3.1	Knowledge of 10CFR20 and related facility radiation control requirements	3.0	1
	2.3.4	Knowledge of radiation exposure limits and contamination control, including permissible levels in excess of those authorized	3.1	1
	2.3			
	2.3			
	Subtotal			2
4. Emergency Procedures / Plan	2.4.29	Knowledge of the emergency plan	4.0	1
	2.4.45	Ability to prioritize and interpret the significance of each annunciator or alarm	3.6	1
	2.4			
	2.4			
	Subtotal			2
5. Generic Fundamentals	K1.08	291006, Relationship between flow rates and temperature	3.0	1
	K1.09	292003, Define doubling time and calculate it using the power equation	2.6	1
	Subtotal			2
Tier 3 Point Total				10

Page 2 of

Applicant Docket Number: 50-352/353
Facility: LGS Date of Examination: JUN 13 2005

Title / Description of Tasks (JPMs)	Type Codes*	Evaluation (S or U)	Comment Page Number
Administrative			
1. Complete FHD turn over checklist	NT		
2. Calculate Stay Time	M		
3. CCTAS revision (2014)	D		
Systems			
1. FHE – movement of dummy bundle in SFP Alt Path due to debris obstruction (NRC2001)	DPAI		
2. FHE – Fuel movement from the FP to fuel prep machine. Alt Path due to grapple engage light goes out (2045)	DAI		
3. Install rod position test box (2029)	DI		
4. Respond to fuel floor *0C222 alarm	NI		
Emergency/Abnormal Plant Evolutions			
1. Response to an unexpected rise in SRM count rate during fuel handling in the reactor core (NRC1999)	MPI		
2. Transfer of fuel in the spent FP, response to a dropped fuel assembly	NIRA		
3. EAL classification, spent FP level	NTIR		

Type Codes & Criteria:

(A)lternative path (2 systems; 1 E/APE)
(C)ontrol room
(D)irect from bank (≤ 7)
(I)n-plant
(N)ew or (M)odified form bank including 1(A) (≥ 1 / section)
(P)revious two exams (≤ 1 / section)
(R)efueling accident (1)
(T)echnical specification (≥ 2)

Facility:	PBAPS					Date of Exam: JUNE 13 2005					
Tier	K/A Category Points										
	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	G*	Total
1. Emergency & Abnormal Plant Evolutions	2	1	1				1	0			0	5
2. Plant Systems	1	1	1	0	0	1	1	0	0	0	0	5
3. Generic Knowledge and Abilities Categories	1			2		3		4		GFE		0
	0			0		0		0		0		

Note:
1. Ensure that at least one topic from every K/A category is sampled within each tier.
2. The point total for each tier in the proposed outline must match that specified in the table. The final point total for each tier may deviate by ± 1 from that specified in the table based on NRC revisions. The final exam must total 40 points.
3. Select topics from many systems and evolutions; avoid selecting more than two K/A topics from a given system (except fuel handling equipment) or evolution (except fuel handling accident).
4. The shaded areas are not applicable to the category/tier.
5. * The generic (G) K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system.
6. If the applicants have not previously taken the GFE, Tier 3 shall include basic reactor theory, component, and thermodynamic topics that apply to fuel handling operations.
7. Systems/evolutions within each tier are identified on the associated outline. Enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IR) for the SRO license level, and the point totals (#) for each system and category. Enter the tier totals for each category in the table above.
8. For Tier 3, select topics from Setion 2 of the K/A catalog, and enter the K/A numbers, descriptions, importance ratings, and point totals (#) on Form ES-701-3.
9. Refer to ES-401, Attachment 2, for guidance regarding the elimination of inappropriate K/A statements. The facility licensee's JTA for fuel handlers should be used as the basis for eliminating or adding testable topics.

	K 1	K 2	K 3	A 1	A 2	G	K/A Topics(s)	IR	#
295003 Partial or Complete Loss of AC									
295004 Partial of Total Loss of DC									
295014 Inadvertent Reactivity Addition									
295018 Partial or Total Loss of CCW	X						AK1.01, Effects on component/system operation	3.6	1
295021 Loss of Shutdown Cooling	X						AK1.03, Adequate core cooling	3.9	1
295023 Refueling Accidents				X			AA1.03, Fuel handling equipment	3.6	1
295033 High Secondary Containment Area Radiation Levels									
295034 Secondary Containment Ventilation High Radiation									
295006 SCRAM									
295008 High Reactor Water Level									
295009 / 295031 Reactor Low Water Level			X				EK3.02, Core coverage	4.7	1
295017 / 295038 High Offsite Release Rate									
295019 Partial or Total Loss of Inst. Air		X					AK2.14, Plant air systems N/A for PB [illegible] will be replaced	3.2	1
295020 Inadvertent Cont. Isolation									
295030 Low Suppression Pool Wtr Lvl									
295035 Secondary Containment High Differential Pressure									
600000 Plant Fire On Site									
K/A Category Totals:	2	1	1	1	0	0	Tier Point Total:		5

ES-701	LSRO BWR Examination Outline Plant Systems – Tier 2												Form ES-701-1	
	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	K/A Topics(s)	IR	#
205000 Shutdown Cooling							X					A1.08, Heat exchanger temperatures	2.9	1
215004 Source Range Monitor														
233000 Fuel Pool Cooling/Cleanup						X						K6.10, Reactor cavity seal failure	3.3	1
234000 Fuel Handling Equipment			X									K3.03, Fuel handling problems	3.8	1
262001 AC Electrical Dist.														
263000 DC Electrical Dist.														
290002 Reactor Vessel Internals														
201002 RMCS														
201003 Control Rod and Drive Mechanism														
203000 RHR/LPCI: Injection Mode														
204000 RWCU														
211000 SLC														
212000 RPS														
214000 RPIS	X											K1.05, Full core display	3.3	1
215001 Traversing In-Core Probe														
215003 IRM														
215005 APRM / LPRM		X										K2.01, LPRM channels will be replaced not LSRO task	2.6	1
223001 Primary CTMT and Aux.														
223002 PCIS/Nuclear Steam Supply Shutoff														
261000 SGTS														
264000 EDGs														
272000 Radiation Monitoring														
286000 Fire Protection														
288000 Plant Ventilation														
290001 Secondary CTMT														
300000 Instrument Air														
400000 Component Cooling Water														
K/A Category Totals:	1	1	1	0	0	1	1	0	0	0	0	Tier Point Total:		5

ES-701 LSRO Generic Knowledge and Abilities Outline (Tier 3) Form ES-701-3				
Facility: PBAPS			Date of Exam: JUN 13 2005	
Category	K/A #	Topic	IR	#
1. Conduct of Operations	2.1			
	2.1			
	2.1			
	2.1			
	Subtotal			0
2. Equipment Control	2.2			
	2.2			
	2.2			
	2.2			
	Subtotal			0
3. Radiation Control	2.3			
	2.3			
	2.3			
	2.3			
	Subtotal			0
4. Emergency Procedures / Plan	2.4			
	2.4			
	2.4			
	2.4			
	Subtotal			0
5. Generic Fundamentals				
	Subtotal			
Tier 3 Point Total				0

Page 2 of

Applicant Docket Number: 50-277/278
Facility: PBAPS Date of Examination: JUN 13 2005

Title / Description of Tasks (JPMs)	Type Codes*	Evaluation (S or U)	Comment Page Number
Administrative			
1.			
2.			
3.			
Systems			
1. FHE – Automatic dummy bundle transfer in the spent FP (NRC 2001)	DPI		
2. FHE – Fuel movement in the spent FP, hoist loaded light extinguished (3019)	DAI		
3. Temporarily defeat RHR SDC automatic reactor pressure – high isolation GP-29	NI		
4. Remove Unit * RF floor ARM from service	NI		
Emergency/Abnormal Plant Evolutions			
1. EAL classification, loss of spent FP water level	NTIR		
2.			
3.			

will be replaced not LSRO task

Type Codes & Criteria:

(A)lternative path (2 systems; 1 E/APE)
(C)ontrol room
(D)irect from bank (≤ 7)
(I)n-plant
(N)ew or (M)odified form bank including 1(A) (≥ 1 / section)
(P)revious two exams (≤ 1 / section)
(R)efueling accident (1)
(T)echnical specification (≥ 2)