

2014 LASALLE COUNTY STATION

INITIAL LICENSE EXAMINATION

ADMINISTRATIVE FILES

Facility: LaSalle County Station, Units 1 and 2 Date of Examination: Weeks of 10/20 and 10/27/2014

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

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	meb
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	meb
-120	3. Facility contact briefed on security and other requirements (C.2.c)	meb
-120	4. Corporate notification letter sent (C.2.d)	meb
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	NA
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	meb
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	meb
{-45}	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	meb
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	meb
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	meb
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	meb
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	meb
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	meb
-7	14. Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 5; ES-202, C.2.e; ES-204)	meb
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	meb
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	meb

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

[Applies only] {Does not apply} to examinations prepared by the NRC.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of ¹⁰⁻²⁰⁻²⁰¹⁴~~10-31-2014~~ as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Douglas Wright	Exam Author		4-21-2014			
2. ERIK R VOLLING	EXAM AUTHOR		4-21-14			
3. George Thullen	Exam Developer		4/21/14		11/12/14	
4. Joe Rush	Coordinate OTPs		4/21/14			
5. MARK ZICKFOOSE	SM / FACILITY REP		5/12/14			
6. Adam Vink	LOET EXAM AUTHOR		6/4/14			
7. Robert Ryles	SRO / Validation		7-31-14			
8. Steven Winter	NSO / Validation		7-21-14			
9. Brian Quinn	NSO / Simulator Validation		7-21-14			
10. JASON R. ADAMS	SRO / VALIDATION		7-24-14			
11. MICHAEL D. ROE	NSO / VALIDATION		7-24-14			
12. LARRY A. BUKANTIS	SRO / Validation		7/24/14			
13. Jason Sereno	NSO / VALIDATION		8-11-14			
14. Tom Parks	SRO / Validation		8-11-14			
15. R. BLACK	SRO / VALIDATION		8/11/14			

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Scott Deprest	OTPS/Reviewer	Scott Deprest	1/28/14	Scott Deprest	11/3/2014	
2. Alan McCaughlin	SRO / VALIDATOR	Alan McCaughlin	9/4/14			
3. Jimmy Goodale	bo / validator	Jimmy Goodale	9/4/14			
4. Jim Spitzer	CAS / Validator	Jim Spitzer	9/4/14			
5. MKNicoll	NSO / Validator	MKNicoll	9/4/14	MKNicoll	10-30-14	
6. Tony S. Adams	NSO / Validation	Tony S. Adams	9-29-14			
7. John Blaskie	NSO / Validation	John Blaskie	9-29-14			
8. LISA MORENO	SIM COORDINATOR	LISA MORENO	9-29-14			
9. Kyle Kammelt	Sim Maintenance	Kyle Kammelt	10-1-14			
10. Rob Scott	RO / validator	Rob Scott	10-10-14			
11. Wendy Wolfe	OSS-clerical copy	Wendy Wolfe	10-14-14			
12. Lisa Frantini	OSS-clerical copy	Lisa Frantini	10-14-14			
13. Abby Berry	OSS-clerical copy	Abby Berry	10-14-14	Abby Berry	10-30-14	
14. Todd Gorman	SUSI operator	Todd Gorman	10/20/14			
15. Jeff DeLuca	OPS TRAINING INSTRUCTOR	Jeff DeLuca	11/2/14			

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1.	Scott Deprest	OTPS/REVIEWER	Scott Deprest	7/28/14	see Attached	11/4/14	Sheet 5
2.	Alan McLaughlin	SRO / VALIDATOR	Alan McLaughlin	8/4/14	Alan McLaughlin	10-31-14	
3.	Gregory Campbell	RO / Validator	Gregory Campbell	9/4/14	Gregory Campbell	10/31/14	
4.	Jim Spier	CRS / Validator	Jim Spier	9/4/14	Jim Spier	11/4/14	
5.	MK Nicoll	NSO / Validator	MK Nicoll	9/4/14	MK Nicoll	10-30-14	
6.	Tony S. Adams	NSO / Validation	Tony S. Adams	9-29-14	Tony S. Adams	11-4-14	
7.	John Blaskie	NSC / Validation	John Blaskie	9-29-14	John Blaskie	10-31-14	
8.	LISA MORENO	SIM COORDINATOR	Lisa Moreno	9-29-14	Lisa Moreno	11/4/14	
9.	Kyle Kenneth	Sim Maintenance	Kyle Kenneth	10-1-14	Kyle Kenneth	11-4-14	
10.	Rob Scott	RO / validator	Rob Scott	10-10-14	Rob Scott		
11.	Wendy Wolfe	OSS-clerical copy	Wendy Wolfe	10-14-14	Wendy Wolfe	11-4-14	
12.	Lisa Frantini	OSS-clerical copy	Lisa Frantini	10-14-14	Lisa Frantini	11-5-14	
13.	Abby Berry	OSS-clerical copy	Abby Berry	10-14-14	Abby Berry	10-30-14	
14.	Ted Grant	SUSI operator	Ted Grant	10/20/14	Ted Grant	10/30/14	
15.	Larry DeLucente	OPS TRAINING INSTRUCTOR	Larry DeLucente	6/26/14	Larry DeLucente	10-27-14	

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1.	Scott Darnest	OTPS/REVIEWER	Scott Darnest	7/29/14	See Attached	Sheet 3-11/4/14	
2.	Alan McLaughlin	SRO / VALIDATOR	Alan McLaughlin	9/4/14	Alan McLaughlin	10-31-14	
3.	Garry Goodale	RO / Validator	Garry Goodale	9/4/14	Garry Goodale	10/31/14	
4.	Jim Spicer	CRS / Validator	Jim Spicer	9/4/14	Jim Spicer	11/4/14	
5.	MK Nicoll	NSO / Validator	MK Nicoll	9/4/14	MK Nicoll	10-30-14	
6.	Tony S. Adams	NSO / Validation	Tony S. Adams	9-29-14	Tony S. Adams	11-4-14	
7.	John Blaskie	NSO / Validation	John Blaskie	9-29-14	John Blaskie	10-31-14	
8.	LISA MORENO	SIM COORDINATOR	LISA MORENO	9-29-14	LISA MORENO	11/4/14	
9.	Kyle Kenneths	Sim Maintenance	Kyle Kenneths	10-1-14	Kyle Kenneths	11-4-14	
10.	Ross Gault	RO / validator	Ross Gault	10-10-14	Ross Gault	11-11-14	
11.	Wendy Wolfe	OSS-clerical copy	Wendy Wolfe	10-14-14	Wendy Wolfe	11-4-14	
12.	Lisa Frantini	OSS-clerical copy	Lisa Frantini	10-14-14	Lisa Frantini	11-5-14	
13.	Abby Berry	OSS-clerical copy	Abby Berry	10-14-14	Abby Berry	10-30-14	
14.	Todd Gault	SUSI operator	Todd Gault	10/20/14	Todd Gault	10/30/14	
15.	Larry McLure	OPS TRAINING INSTRUCTOR	Larry McLure	6/24/14	Larry McLure	10-2-14	

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1. Douglas Wright	Exam Author		4-21-2014		10-30-14
2. ERIK RYOLLING	EXAM AUTHOR		4-21-14		10-30-14
3. George Thullen	Exam Developer		4/21/14		11/10/14
4. Joe Ruxh	CONV/ISS OTPS		4/21/14		11/10/14
5. MARK ZICKERFOOSE	SM / FACILITY REP		5/12/14		12/24/14
6. Adam Vink	LOST EXAM AUTHOR		6/4/14		10/24/14
7. Robert Ryles	SRO / Validation		7-31-14		
8. Steven Winter	NSO / Validation		7-31-14		10/30/14
9. Brian Cusack	NSO / Simulation Validation		7-21-14		
10. JASON R. ADAMS	SRO / VALIDATION		7-24-14		10-30-14
11. MICHAEL D. ROE	NSO / VALIDATION		7-24-14		10-30-14
12. LARRY A. BAKENTIS	SRO / VALIDATION		7/24/14		
13. JASON SERENO	NSO / VALIDATION		8-11-14		
14. Terry Marx	SRO / Validation		8-11-14		12-30-14
15. R. BUTCH	SRO / VALIDATION		8/11/14		

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1. Douglas Wright	Exam Author		4-21-2014		10-30-14	
2. ERIK R VOLLING	EXAM AUTHQR		4-21-14		10-30-14	
3. George Thullen	Exam Developer		4/21/14	See Attached Sheet		
4. Joe Ruth	Computer OTPS		4/28/14			
5. MARK ZICKFOOSE	SM / FACILITY REP		5/12/14		10/30/14	
6. Adam Vink	LOST EXAM AUTHQR		6/4/14		10/30/14	
7. Robert Rayls	SRO / VALIDATION		7-31-14		10-31-14	
8. Steven Winter	NSO / Validation		7-21-14		10/30/14	
9. Brian Quinn	NSO / Simulator Validation		7-21-14		11-6-14	
10. JASON R. ADAMS	SRO / VALIDATION		7-24-14		10-30-14	
11. MICHAEL D. ROE	NSO / VALIDATION		7-24-14		10-30-14	
12. LARRY A. BAKENTIS	SRO / VALIDATION		7/24/14		10-31-14	
13. JASON SERENO	NSO / VALIDATION		8-11-14		10-31-14	
14. Terry Marks	SRO / Validation		8-11-14		10-30-14	
15. R. BLACK	SRO / VALIDATION		8/11/14		11/4/14	

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1. DAVID Mullins	NSD		8-11-14		10/30/14	
2. Jerry Hylka	NSD		8/11/14		10/31/14	
3. Daniel O. Corayon	ERS		8-22-14		10/31/14	
4. C.J. Smith	CIS		8/22/14		11/3/14	
5. Kevin R. Murphy	CRS		8/25/14		10/30/14	
6. Benjamin T. Rogers	NSD		8/25/14		10/30/14	
7. Norma Z. Plume	CRS / SRO		8-25-14		10-30-14	
8. Deborah McGreen	CRS		8/27/14		11-6-14	*
9. Jeff Nugent	CRS / SRO		8-27-14		11-3-14	*
10. John Van Fleet	SRO		8-27-14		10-31-14	
11. John J. Martin	SRO		8/28/14		10/30/14	
12. GREG Lucas	NSD		9-2-14		10-31-14	
13. Tom Wirtz	NSD		9/2/14		10/30/14	
14. John Keenan	OPS Director		9/13/14		10/30/14	
15. Mike Entwistle	Sim Driver		9/24/14		10/30/14	

NOTES:






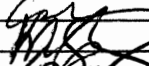
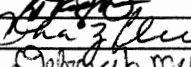
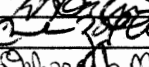
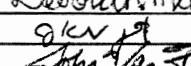
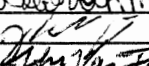
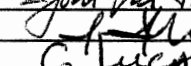
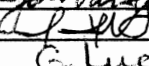
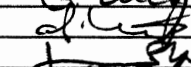
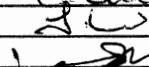
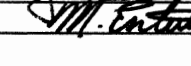
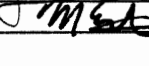










To Mail
Security
Agreement

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3. Daniel O. Conway	ERS		8-22-14		10-31-14	PA
4. C.J. Smith	ERS		8/22/14		11/3/14	
5. Kevin R. Murphy	CRS		8/25/14		10/30/14	
6. Benjamin T. Rogers	NSD		8/25/14		10/30/14	
7. Norma Z. Plume	CRS / SRO		8/25/14		10-30-14	
8. Deborah McGreen	CRS		8/27/14		11/11/14	
9. Jeff Nugent	CRS / SRO		8-27-14		11-6-14	
10. John Van Fleet	SRO		8-27-14		11-3-14	
11. JOHN J. MARTIN	SRO		8/28/14		11/11/14	
12. GREG Lucas	NSD		9-2-14		10-31-14	
13. Tom Wirtz	NSD		9/2/14		10/30/14	
14. John Keenan	OPS Director		9/13/14		10/21/14	
15. Mike Entwistle	Sim Driver		9/24/14		10/30/14	



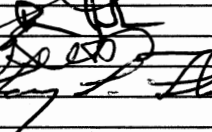
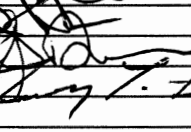
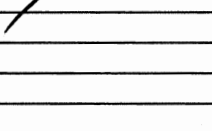
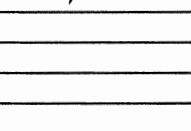
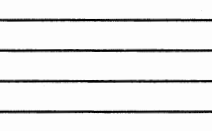
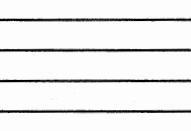
NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of _____ as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of _____. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1.	DANA WATSON	OPS INSTR / SEQUESTER		10/20/14		10/30/14
2.	Rich Immke	Ops Services Mgr / Surrogate		10/20/14		10-30-14
3.	Tom Dean	OTM / Reviewer		10/20/14		10/30/14
4.	Jerry Lehman	ops Instr. / sequester		10/20/14		10-30-14
5.						
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NOTES:

The BWR Outline Generator program was utilized for initial selection.
Used the very next available K/A to generate the replacement K/A unless otherwise indicated.
Poker chips were used for all other cases.

Tier / Group	Randomly Selected K/A	Reason for Rejection
SRO T1 G1 Q76	295001 2.1.31 Became 295001 2.4.08	The random generation program selected SG 2.1.31, which does not have a 10 CFR 55.43.b link as to become an SRO Only question. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.08.
SRO T1 G1 Q80	295025 2.4.2 Became 295025 2.2.42	The random generation program selected SG 2.4.2, which does not have a 10 CFR 55.43.b link as to become an SRO Only question. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.2.42.
	295025 2.2.42 Became 295025 2.4.11	KA 2.2.42 is ability to recognize system entry conditions for Tech Specs, which would be RO Knowledge. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.11
SRO T1 G2 Q85	500000 2.1.27 Became 500000 2.2.36	The random generation program selected SG 2.1.27, which does not have a 10 CFR 55.43.b link to become an SRO Only question. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.2.36.
	500000 2.2.36 Became 500000 2.4.30	This System Generic statement is not compatible with the Emergency evolution. 2.2.36 asks the effect of maintenance activities on LCOs. Such a question would be about normal operations and not about an emergency High Containment H2 concentration, and would therefore not match the full K/A. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.49, but there are no "immediate operator actions" related to this event. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.30.
	500000 2.4.30 Became 295036 2.4.30	Attempts to develop a question on 500000 (High CTMT H2) conflicted with previously developed SRO Question 98 about controlling rad releases. From the field of Tier 1 Group 2 evolutions that were not used on the RO exam, randomly selected 295036 and retained SG K/A 2.4.30.
RO T2 G2 Q55	202002 2.4.41 Became 202002 2.4.47	2.4.41 is knowledge of EAL thresholds and classifications which is SRO only knowledge. From the field of unused system Generic KAs, randomly selected 2.4.47.
RO T2 G1 Q53	400000 K4.01 Became 400000 K6.05	KA is knowledge of CCW design features for standby pump auto start, but LaSalle CCW pumps do not have such a feature. K 4.01 is the only K4 Topic. Randomly selected K6 and then K6.05.
RO T1 G1 Q02	295003 K2.05 Became 295003 K2.06	KA relates loss of AC power to the Isolation Condenser, which is not applicable to LaSalle station. Randomly selected an alternate K2 topic.

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO T1 G1 Q06	295016 2.4.49 Became 295016 2.4.34	KA is ability to perform immediate action steps for control room abandonment. The abnormal procedure for control room abandonment does not have immediate operator action steps. From the field of unused system Generic KAs, randomly selected 2.4.34.
SRO T1 G1 Q78	295018 A2.05 Became 295018 A2.01	Could not develop an appropriately discriminating question at the SRO level about determining or interpreting CCW Pressure. Randomly selected an alternate A.2 topic
SRO T2G1 Q87	209001 A2.09 Became 209001 A2.05	Original KA relates LPCS to Low Suppression Pool Level. LaSalle does not have Vortex Limit curves, just a single Vortex limit of -18ft. at which time the US shall "evaluate continued use". Neither part of the low SP level procedure provides enough to develop a viable SRO-only question. Randomly selected an alternate A2 topic, A2.01, Pump trips. However, any question on that topic would be too easy because the answer is always to restart the LPCS pump or use another ECCS Pump. Randomly selected an alternate A2 topic, A2.05.
SRO T2G1 Q88	215004 2.2.25 Became 205000 2.2.25	215004 (SRMs) was selected twice in Tier 2 Group 1 on the RO Exam, so topic is being oversampled. From the field of Tier 2 Group 1 systems that were used only once on the RO exam, randomly selected 205000 and retained SG K/A 2.2.25.
SRO T2 G2 Q91	201002 2.2.39 Became 201002 2.4.6	KA 2.2.39 is knowledge of <1 Hour Tech Spec action statements which would be RO Knowledge. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.06
	201002 2.4.6 Became 201002 2.2.40	Overlap with Question 39 on the ILT Class 09-1 NRC exam. KA relates RCMS to EOP mitigation strategies. The only applicable EOP is LGA-010 (ATWS) which refers to LGA-NB-01 for rod insertion strategies. LGA-NB-01 "Methods" for rod insertion is the subject of the previously used question. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.4.41, but there are no "EAL thresholds and classifications" associated with this system. From the field of unused SG KA statements with a 10 CFR 55.43.b link, randomly selected 2.2.40.
	201002 2.2.40 Became 216000 2.2.40	Determined that the only operationally valid SRO questions on RCMS are related to Tech Specs but such a question would conflict with scenario events. From the field of T2G2 systems that will not be used on the RO exam, randomly selected 216000 and retained SG topic 2.2.40.
SRO T3 Q95	2.1.44 Became 2.1.42	Could not develop a SRO-Only question about "Knowledge of RO Duties" in the MCR during refueling. From the field of unused 2.1 Generic KAs with a 10 CFR 55.43.b link, randomly selected 2.1.42.
SRO T3 Q97	2.2.44 Became 2.2.35	2.2.44 is a complicated KA statement. Could not develop a psychometrically sound question that would match the full KA statement, be SRO-Only, and not be an extension of Tier 2. From the field of unused 2.2 Generic KAs with a 10 CFR 55.43.b link, randomly selected 2.2.35.

Tier / Group	Randomly Selected K/A	Reason for Rejection
SRO T1G2 Q84	295015 A2.01 Became 295012 A2.01	The ATWS topic is being oversampled. Question 81 in Tier 1 Group 1 previously used the 295037 Emergency level ATWS Topic. From the field of Tier 1 Group 2 evolutions that were not used on the RO exam, randomly selected 295012 and K/A Topic A2.01.
SRO T2G2 Q92	201006 A2.06 Became 215001 A2.07	201006 (RWM) is also selected on the RO exam in Tier 2 Group 2 as Question 54. From the field of T2G2 systems that will not be used on the RO exam, randomly selected 245000, but a question on that system would conflict with the previously developed SRO Question 77 on 295005 (Turbine Trip). From the field of T2G2 systems that will not be used on the RO exam, randomly selected 239003, but LaSalle no longer has a functioning MSIV LCS system. From the field of T2G2 systems that will not be used on the RO exam, randomly selected 215001 (TIP), and topic A2.07.
	215001 A2.07 Became 271000 A2.08	Could not develop an operationally valid question at the SRO-Only level on the TIP system. From the field of T2G2 systems that will not be used on the RO exam, randomly selected 241000, but questions on Turbine Pressure regulation would conflict with two scenario events. From the field of T2G2 systems that will not be used on the RO exam, randomly selected 271000 and topic A2.08
RO T1G2 Q21	295002 K3.04 Became 295035 K3.02	295002 (Loss of Main Condenser Vacuum) was also selected and previously developed for the SRO Exam as Question 83. From the field of T1G2 systems that will not be used on the SRO exam, randomly selected 295035 and topic K3.02.
RO T2G1 Q39	217000 K2.02 Became 263000 K2.01	A question on this topic would be a duplication of Q4 on Comp 2. Other potential power supply questions would conflict with 09-1 NRC Exam Q48 and/or Comp 1 Q50. 217000 was also selected on the SRO exam, for a total of 3 questions on RCIC. From the field of T2G1 systems that were not also on the SRO exam and that did not have a previously selected Knowledge statement assigned, randomly selected 263000 and Topic K2.01.
RO T1G1 Q01	295001 K3.02 Became 295001 K3.04	K/A asks the reason for reactor power response during a loss of forced circulation. A question matching that K/A would be too easy/fundamental and conflict with any scenario with a downpower transient. Additionally, a search of historical NRC exams could not find even one question that was written to this K/A. Randomly selected an alternate K3 topic.
RO T1G1 Q20	700000 K3.01 Became 700000 K3.02	K/A was used on the 11-1 NRC Exam and will be used as Q45 on the 13-1 Cert Exam. There is only one reason for "Reactor and turbine trip criteria" during a grid disturbance, so any potential question would be a duplication. The only other K3 topic is K3.02.

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO T2G1 Q49	262002 K3.14 Became 262002 K3.08	Loss of UPS has no effect on reactor power at LaSalle, so a psychometrically sound question could not be developed. Randomly selected an alternate K3 topic.
RO T1G1 Q04	295005 A1.03 Became 295005 A1.01	KA relates a turbine trip to RCMS. Each exam scenario includes a response to a reactor scram. A scram caused by a turbine trip is not appreciably different than any other scram when it comes to monitoring RCMS/rod positions. Randomly selected an alternate A1 Topic.
RO T2G1 Q41	218000 A3.08 Became 218000 A3.07	KA asks candidates to monitor Reactor Pressure during auto operation of ADS. A previously developed SRO question (Q81) also asks candidates to interpret Reactor Pressure during a Blowdown per LGA-006. To avoid conflict, randomly selected an alternate A3 topic.
RO T1G1 Q12	295025 K3.02 Became 295025 K3.06	The fact that Recirc Pumps trip on a high reactor pressure transient gives away the correct answer to a previously developed RO question (Q4). Randomly selected an alternate K3 Topic, K3.09, but that KA was used on the 09-1 NRC Exam (Q47). Randomly selected an alternate K3 Topic, K3.06.
RO T2G1 Q44	239002 A4.05 Became 239002 A4.04	Ability to monitor RPV pressure when operating an SRV conflicts with previously developed SRO Question (Q81) and any exam scenario that includes a Blowdown. Randomly selected an alternate A4 Topic.
RO T2G1 Q34	212000 A1.06 Became 212000 A1.08	Could not develop a psychometrically sound question on this topic because reactor power either stays the same or goes to shutdown level when operating RPS; it never goes up. Randomly selected an alternate A1 Topic, A1.01. However, this topic was used on the ILT 13-1 Cert exam, (Q13). Randomly selected an alternate A1 Topic.
RO T1G2 Q25	295022 A1.03 Became 295022 A1.01	At LaSalle, loss of CRD to Recirc Pump seals has a long-term effect with no immediate impact (A1.03). The same is true for loss of CRD to RWCU pump seals (A1.04). A question on Topic A1.02 (RPS) would be very similar to Q60 on the 09-1 NRC Exam and on Comp 3. Selected the only other A1 topic.
RO T2G2 Q58	234000 A3.01 Became 234000 A3.02	KA is the ability to monitor automatic operation of the crane/refueling bridge but this equipment has no automatic operation capability. Selected the only other A3 topic.
RO T2G1 Q52	300000 K3.03 Became 300000 K3.02	Knowledge of the effect of a loss of air will have on cross-tied units cannot be used to make a psychometrically sound question because LaSalle has one common system for both units. Whatever happens on one unit happens to the other. A question on the effect of a loss of air on containment valves (K3.01) would duplicate the T1G1 question for 295019 K2.09. Selected the only remaining K3 Topic.
RO T1G1 Q9	295021 K1.03 Became 295021 K1.04	KA asks the operational implications of Adequate Core Cooling during a Loss of Shutdown Cooling event. The Adequate Core Cooling topic is also used in SRO Q100 and RO Q16. To avoid duplication, randomly selected an alternate K1 topic.

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO T2G2 Q56	204000 A1.01 Became 204000 A1.06	Cannot make a psychometrically sound question about monitoring RPV level changes when operating RWCU controls. If RPV level control is in manual, RPV level goes down when draining more and up when draining less. If RPV level control is in Auto, there is no change when adjusting the drain rate. Randomly selected an alternate A1 topic, A 1.04, but monitoring system flow response to adjustments is also too predictable. Randomly selected an alternate A1 topic.
RO T2G1 Q32	209002 A4.02 Became 209002 A4.14	The HPCS MOV Suction valve no longer has the capability to automatically shift to the CY tank. It opens and closes with the MCR switch only, so could not develop a psychometrically sound question on this topic. Randomly selected an alternate A4 topic, A 4.
RO T1G2 Q22	295009 K1.05 Became 295009 K1.02	Topic of Natural Circulation would conflict with previously developed question on loss of shutdown Cooling 295021, Q09. Randomly selected an alternate K1 topic.
RO T2G1 Q28	203000 K6.11 Became 203000 K6.12	Could not develop a psychometrically sound question on the effect of a malfunction of ADS would have on LPCI injection because the correct answer is intuitive. (If RPV pressure is not lowered, LPCI cannot inject.) Randomly selected an alternate K6 topic.
RO T2G1 Q45	259002 A3.07 Became 259002 A3.03	Only the Low Flow FRV has the lockup feature. The indication, a knob on the switch handle rotated 90°, is too simple to be the basis for a question. Randomly selected an alternate A3 topic.
RO T1G1 Q16	295031A2.04 Became 295031A2.03	A question on Adequate Core Cooling would conflict with the previously developed SRO Q100. Randomly selected an alternate A2 topic.
RO T2G1 Q35	215003 A1.02 Became 215003 A1.06	Could not develop a psychometrically sound question on reactor power response rod position changes while operating IRM controls because the correct answer is intuitive and therefore too easy; rod withdrawal makes IRM power rise and rod insertion makes IRM power lower. Randomly selected an alternate A1 topic.
RO T2G1 Q37	215004 A2.05 Became 264000 A2.05	Could not develop a psychometrically sound question on erratic SRM detectors because associated procedures are too vague about the operator response. A question to this K/A could be about a completely failed detector, but that would duplicate Q36, which is about loss of 24 VDC power to an SRM. The previous 2 NRC exams also used A2 topics for SRMs. To avoid duplication, from the field of systems that were not also used on the SRO exam, randomly selected an alternate T2G1 system, Diesel Generators, and A2 topic.
RO T2G2 Q64	290003 K1.05 Became 290003 K1.01	There is no interrelationship between CCW and Control Room HVAC at LaSalle. (The air conditioning units are air cooled.) Randomly selected an alternate K1 topic.

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO T1G2 Q26	295029 A2.02 Became 295029 A2.01	Could not develop a psychometrically sound question interpreting RPV pressure in relation to High SP Level because the Graph for SRV Tailpipe Limit is too easy to use. Also, LGA graphs were used in conjunction with questions on SP Low Level (Q15) SP Temp (Q13). Randomly selected an alternate A2 Topic
RO T3 Q75	2.4.05 Became 2.4.27	Could not develop a psychometrically sound question about "the organization of operating procedures network" because such knowledge is fundamental and a question on this topic would be too easy. (A search of industry questions found only 1 question on this K/A and it was very easy.) From the field of unused Generic 2.4 K/As, randomly selected an alternate K/A.

Post Outline Submittal

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO T2G1 Q28	203000 K6.12 Became 203000 K6.10	(Previously re-selected prior to outline submittal) Discovered that K6.12 was used on the Cert Exam and could not develop another High Cog question to this KA. Randomly selected an alternate K6 topic.
SRO T1G2 Q83	295002 2.4.46 Became 295010 2.4.46	Could not develop a question at the SRO-Only level to the Loss of Condenser Vacuum Abnormal evolution because there is so little distinction between RO and SRO responses and because there are no Tech Spec or EOP implications for this abnormal situation. From the field of T1G2 evolutions that were not used on the RO portion of the exam, randomly selected 295010 and retained SG Topic 2.4.46.
SRO T2G1 Q90	218000 2.4.35 Became 218000 2.2.37	Could not develop a question at the SRO-Only level to this K/A. Knowledge of local operator task and resultant operational effects requires a two part question, both parts of which are RO knowledge level. From the field of unused Generic KAs with a 10 CFR 55.43.b link, randomly selected 2.2.39, but that K/A is about <1 Hour Tech Specs, which is RO knowledge. From the same field, randomly selected 2.2.37.
RO T3 Q68	2.1.13 Became 2.1.30	Questions developed to this K/A "Knowledge of facility requirements for controlling vital/controlled access" required only NGET knowledge level and/or were low level of difficulty. (Importance Rating is only 2.5) From the field of unused Generic 2.1 topics, randomly selected an alternate K/A.

Facility: <u>L9 Ss/le Station</u> Date of Exam: <u>10/30/14</u> Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>			
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	EM	G	MSB
2. Answer key changes and question deletions justified and documented	NA	G	NA
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	EM	G	MSB
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail	EM	G	MSB
5. All other failing examinations checked to ensure that grades are justified	NA	G	NA
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	EM	G	MSB
Printed Name/Signature		Date	
a. Grader	<u>[Signature]</u>	<u>10/30/14</u>	
b. Facility Reviewer(*)	<u>[Signature]</u>	<u>10/30/14</u>	
c. NRC Chief Examiner (*)	<u>Michael E. Bielby Sr / Michael E. Bielby Sr</u>	<u>11/19/14</u>	
d. NRC Supervisor (*)	<u>Alvonnari Peterson / Alvonnari Peterson</u>	<u>4/20/14</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			

Facility: <u>La Salle Station</u>		Date of Exam: <u>10/30/14</u>		Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>EW</u>	<u>G</u>	<u>MSB</u>		
2. Answer key changes and question deletions justified and documented	<u>EW</u>	<u>G</u>	<u>MSB</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>EW</u>	<u>G</u>	<u>MSB</u>		
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail	<u>EW</u>	<u>G</u>	<u>MSB</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>NA</u>	<u>G</u>	<u>NA</u>		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>EW</u>	<u>G</u>	<u>MSB</u>		
Printed Name/Signature		Date			
a. Grader	<u>[Signature]</u>	<u>10/30/14</u>			
b. Facility Reviewer(*)	<u>[Signature]</u>	<u>10/30/14</u>			
c. NRC Chief Examiner (*)	<u>Michael E. Bielby / Michael E. Bielby</u>	<u>11/18/14</u>			
d. NRC Supervisor (*)	<u>Hironori Peterson / Hironori Peterson</u>	<u>11/20/14</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

2014 LaSalle Initial Licensed Operator Written Examination

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
1	F	2										Y		B	S	2010 River Bend
2	F	3										Y		N	S	
3	H	3										Y		N	S	1/2X2
4	H	3										Y		N	E S	NRC: Is it possible that the FCVs will start to runback before L2 is reached? If so then the second part of 'A' and 'B' will need to be revised. LIC: No Runback. NRC: No change
5	F	2										Y		B	S	
6	H F	2	X									Y		N	E	NRC: 1) LOK is Fundamental; memorization of which SRVs can be operated from the RSP. 2) Question can be answered without the information provided in the first two sentences (i.e., fluff). LIC: Agreed NRC: Change to F and remove first two sentences.
7	H	2				X						Y		N	U S	NRC: There is nothing in the stem to indicate an imminent loss of TBCCW, therefore choices 'C' and 'D' do not appear to be plausible. LIC: A potential loss of TBCCW makes C. and D. plausible.. NRC: No change.
8	H	3										Y		N	S	
9	H	3				X						N Y		N	U S	NRC: The excessive stresses will not be between the head and the vessel flange. Thermal stresses will increase in the bottom head region due to increased cooling in the bottom head resulting from the decreased circulation in that region. Explain how question relates to natural circulation. LIC: With SDC isolation occurring, only cooling by natural circ is available. NRC: The correct answer is to monitor for excessive delta T and does not ask where the excessive thermal stresses will occur; therefore, D. is the only correct answer. Question matches KA per licensee response. No Change Required.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
10	H	2				X						Y		N	E	NRC: Nothing in stem refers to only Unit 2 so can throw out distractor D. Consider revising the second part of distractor 'D' to match that of distractor 'B'. LIC: Agree NRC: Change second part of D. to match B.
11	F	3	X									N Y		N	U E	NRC:1) Insert "suppression" prior to "chamber sprays." Done. 2) Delete the word "ONLY" from the third sentence. Done. 3) Verify the technical accuracy of the correct answer. Not sure the word "impact" in the third sentence is appropriate. Impact implies an adverse consequence rather than simply an inability to perform an action? Verified. 4) K/A relates to ability to determine or interpret suppression pool level as it applies to DRYWELL PRESSURE not Suppression Chamber Pressure. Close Enough. LIC: 1) Done. 2) Done. 3) Verified. 4) DW and SC pressure are dependent on each other. NRC: 4) Question does meet KA.
12	F	2										Y		N	S	
13	H	4										Y		N	S	
14	H	3										Y		N	S	
15	H	3	X									Y		N	U	NRC: LGA usage guidelines allow an attempt to lower pressure first if temperature cannot be maintained below HCTL. Just because temperature and pressure are above the HTCL limit does not require immediate blowdown. LIC: Modified stem condition for MSIVs being closed; therefore, an RPV blowdown will be required.
16	H	3	X									Y		N	E	NRC: Level will BEGIN to rise at some value higher than 300 psig. Question should be "...action, select the highest value below that will result in a rising reactor water level." LIC: Agreed.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
17	H	3							X			Y		N	E	NRC: Recommend moving reactor power information to after RPS fuse removal. Recommend deleting "(Electrical ATWS)" Procedurally the next required action is to bypass the SDV High Level trips. LIC: Agreed.
18	H	3										Y		N	S	
19	F	2										Y		B	S	09-1 Cert Exam
20	F	3										Y		N	S	
21	F	3										Y		N	S	
22	F H	3										Y		B	E	NRC: LOK is HIGHER since the applicant must evaluate the impact (lowering or rising level) of the pump trip as well as determining what the level affect is on the margin to CARRYUNDER/CARRYOVER. The primary concern is memory. LIC: Agreed
23	H	2				X						Y		N	U	NRC: Changed "A" second part. Choice 'A' is a subset of Choice 'C'; performing 'A' will prevent 'C' LIC: Agreed, changed second part of A to match second part of D.
24	H	3										Y		N	S	
25	H	3										Y		B	S	
26	H	3										Y		N	S	
27	H	2										Y		B	S	2001 NRC DAEC
28	H	2										Y		B	S	LaSalle 07-01 NRC ILT Exam
29	H	2										Y		N	S	NRC: LOK is memory: Decay heat diminishes with time and also because of fuel replacement; memorization of preferred alternate SDC method. LIC: Analysis must be used to determine Alt SDC based on analysis of stated initial conditions. LOK is H.
30	F	2										Y		B	S	
31	H	2										Y		B	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
*32	H	2		X		X						Y		N	E	NRC: 1) Recommend removing procedure reference from stem. 2) Recommend replacing the distractor 'A'; wouldn't be asking the question if it is not permitted. LIC: 1) Agreed. NRC: Removed procedure reference from stem, modified A.
33	F	2										Y		B	S	1/2X2
34	F	2										Y		B	S	1/2X2
35	H	2										Y		B	S	
36	H	2										Y		B	S	
37	F	2						X			X	N		N	U E	NRC: The question being asked identifies a condition that is prohibited by procedure and contrary to prudent operating principles. A more appropriate question would be to ask why speed droop is changed prior to parallel operation at to what value. The second part of the question does not address a procedural action taken to correct, control, or mitigate the consequences of an abnormal condition or operation, but describes a normal action taken during routine operation. LIC: Modified stem Initial Conditions (i.e., "Later...") to clarify when abnormal procedure was being implemented to ensure question matches KA.. NRC: Question does match KA.
38	H	2.0												N	S	
39	H	2.0												N	S	
40	H	2.0												N	S	
41	H	2.5												N	S	
42	F	2.0												N	S	
43	H	2.0												N	S	
44	H	2.0												N	S	
45	H	2.0												N	S	
46	F	2.0												N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
47	H	2.0												B	S	LaSalle 2002
48	H	2.0												N	S	
49	F	2.0												B	S	Browns Ferry 2010
50	F	2.0												B	S	
51	F	2.0												B	S	
52	F	2.0												N	S	
53	H	2.0												N	S	
54	H	2.5												N	S	
55	H	3.0												N	S	
56	H	2.0												B	S	QC 2009
57	H	1.0		X										N	U	NRC: LOD=1 The answers are readily available on the drawing. Delete following from drawing: 1) FUEL POOL GATES 2) 1H13-P601 LIC: Agreed.
58	F	2.0												B	S	
59	H	2.0												N	S	
60	F	2.0												N	S	
61	F	2.0												B	S	
62	F	2.0												N	S	
63	F	2.0												M	S	Clinton 2010
64	F	2.0												B	S	
65	F	2.0												N	S	
66	F	2.0	X											N	S	NRC: Fix the stem so it clearly states the lowest conductivity where a scram is required. LIC: Based on Initial Conditions in stem, no change is required.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
67	F	4.0 2.0												B	U S	NRC: LOD = 1 This is fundamental equipment operator knowledge Fundamental operator knowledge is part of training program, doesn't make it LOD=1..
68	F	2.0												B	S	LaSalle 2008
69	H	2.0												B	S	
70	F	2.0												B	S	Clinton 2008
71	F	2.5												M	S	Oyster Creek 2004
72	F	2.0												B	S	
73	H	2.0												B	S	Oyster Creek 2009
74	H	2.5												B	S	Oyster Creek 2009
75	F	2.5	X				X							B	U E	NRC: There may be 2 correct answers: A. mitigate the consequences of Hot Shorts; C. prevent unnecessary primary containment isolations may be a subset. Provide more info to show difference. Verb tenses, i.e., mitigates, prevents (distractors (a.) and (c.). LIC: Concern was not primary containment isolation, it was primary containment un-isolation due to Hot Shorts; therefore not a subset. Corrected verb tense in distractors A and C. Clarified stem wording.("These actions are intended to")
																BANK = 29 (56 allowed) MODIFIED = 2 NEW = 44 (Write at least 8) LCL/HCL = 32/43 (43/57%) (at least 38-45 H) 3/75(4%) UNSAT Questions: 9/75(12%) Enhanced Questions

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
76	H	2.0	X									Y		B	E	09-01 Cert Exam NRC: Ensure the stem initial conditions support the OPEN SRV being a normal expected response and thus prevent distractor B potentially being a correct answer. LIC: Agreed. Modified stem and Initial Conditions to ensure open SRV is expected response: 'Pressure is 1000 psig with 1 SRV open'
77	H	2.0												N	S	
78	H	2.0										Y		N	S	1 out of 2 taken twice
79	H	2.0					X					Y	N	N	U	NRC: 1) Although the selection of a procedure or portion of a procedure to implement, including EOPs is an SRO task, the question simply asks what the expected control bands will be for the conditions presented and what equipment will be used to maintain the bands. Reactor Operators are expected to know this. (RDB) 2) OP-LA-103-102 states that the lower pressure band permits the use of CD/CB but does not require the MDRFP to be secured. The wider level control band is permitted to prevent swell from tripping the MDRFP on high level. Both 'A' and 'C'; are partially true. (DWR) (MDRFP is properly tied to the more restrictive level band.) LIC: Agreed. Modified stem to make SRO Only by requiring SRO to direct the use of proper use of pressure level band.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
80	H	2.0	X			X						N Y	Y	N	U E	<p>NRC: The stem question asks if the US would be required to insert a 'defeat', and 'why' the 'defeat' would be required. [The stem should ask "why OR why not." (DWR)]</p> <p>Ensure that stem eliminates distractor B as a potentially correct answer. The question may need to be reworded to make distractor B plausible.(RDB)</p> <p>LIC: Agreed. Modified Stem.</p> <p>Two viewpoints High Pressure due to ATWS or visa versa.</p> <p>The K/A (2.4.11) is "Knowledge of abnormal condition procedures" as it applies to a "High Reactor Pressure" Emergency Plant Evolution (295025). The question is focused on whether or not the MSIVs can be reopened during ATWS following a MSL break, and not on High Reactor Pressure. (DWR)</p> <p>NRC: Question focuses on how high pressure is mitigated if MSL break occurs. Question matches KA.</p>
81	H	2	X			X						Y	Y	N	E	<p>NRC: Recommend deleting the 2nd part of the question. It is unnecessary to test the K/A.</p> <p>Recommend rewording the first part to ask: "When will the US direct" (1) re-initiation of injection to the RPV; and (2) with what systems?</p> <p>Add usage of "preferred and alternate ATWS systems" to two of the distractors. Changed the 2nd part on B & D.</p> <p>LIC: Change second part of B and D to "...prevent inadvertent criticality."</p>
82	H	2	X									Y	Y	N	E S	<p>NRC: Explain how the release was initiated. The stem states that all the stated conditions occurred PRIOR to venting.</p> <p>LIC: Stem initial conditions support a release in progress, the source is not required to answer the question.</p> <p>NRC: No Change Required.</p>
83	H	3	X									Y	Y	N	E S	<p>NRC: Explain how you get from a High Pressure Alarm from loss of ventilation, to entering LGA-003. Is Containment Pressure expected to rise that quickly with loss HVAC? Yes! No Change Required.</p> <p>LIC: Containment pressure rises rapidly for a Mark II Containment.</p> <p>NRC: No change required.</p>

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
84	H	2	X									Y	Y	B	E	NRC: If only the DW Temperature Leg of LGA-003 is going to be provided, then rewrite the stem to "...to control containment temperature?"; otherwise provide all of LGA-003 and LGA-010 (after verifying that they will not provide unintended aid in answering other questions). LIC: Agreed, changed stem to control Containment temps instead of pressure.
85	H	3										Y	Y	N	S	
86	H	3										Y	Y	N	S	
87	H	2										Y	Y	B	S	NRC: Answer Explanation needs to be fixed. LIC: Done.
88	F	3				X	X					Y	Y	N	U E	NRC: Fix the Grammar Choices 'B' and 'D' are not credible. There are no temperature limitations associated with operation of RHR in MODE 5. Choice 'C' is partially true. The additional volume of water with the gates removed will increase the heat capacity of the upper cavity area; however the bases does not take credit for the Spent Fuel pool volume. LIC: Correctly worded B and D to address "decay heat" vs "temperature".
89	H	3		X		X						Y	Y	N	U E	NRC: Choice 'A' is not plausible based on description of the activity and the title of the specified procedure. Distractor A corrected Choice 'C' is not plausible since you wouldn't transfer RCIC to the Remote Shutdown Panel without using LOP-RS-04. Parts 1 & 2 are independent of each other. LIC: A.2 modified to use RCIC local operating procedure. C 1 and C.2 are independent of each other.
90	H	3										Y	Y	N	S	
91	H	3										Y	Y	B	E	NRC: Remove emphasis from the word "SECOND"; delete the "S" from "CHANNELS in the second condition. Choice 'C' is identified as the answer in one place and Choice 'D' in another. According to the "Answer Explanation," 'D' is the correct answer. LIC: Errors corrected.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
92	H	3										Y	Y	N	S	1/2X2
93	H	3										Y	Y	N	S	
94	F	2										Y	Y	B	E	NRC: Recommend replacing the word "on" in choices 'A' and 'B' with the word "from". LIC: Done.
95	F	2	X				X					Y	Y	B	U S	NRC: Choice 'A' is also correct; all personnel except those actively involved in the fuel transfer would be required to immediately evacuate. The question does not specify applicability to fuel handlers only. LIC: "A" would never be correct because "All" personnel would never immediately evacuate. No change.
96	H	3								X		Y	Y	B	E	NRC: The terms "enter" and "exit" are not applicable to LCO 3.0.5. LCO 3.0.5 presents generic guidance and does not require a specific action if the conditions are not met. Additionally this same guidance is provided in LCO 3.6.1.3 with no reference to 3.0.5. LIC: The terms "enter" and "exit" are applicable to LCOs 3.0.3, 3.0.4 and 3.0.5. No Change.
97	H	2		X								Y	Y	B	E	NRC: Remove BOLD formatting from the Reactor Coolant Temperature value. Bold formatting provides an unintentional cue. LIC: Done.
98	H	3										Y	Y	N	S	
99	H	4 2										Y	Y	B	U S	NRC: LOD = 1. This tests basic knowledge that any member of the Emergency Response organization responsible for emergency notifications (including non-licensed personnel) should be able to answer. LIC: Analysis is required to convert EP requirements into real time values to determine correct answer. LOD=2 based on safety significance of topic. NRC: No Change

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only				
100	H	3					X						Y	Y	N	U S	<p>NRC: Graphic provided indicates that RPV Fuel Zone Level is GTE - 210", total spray flow (HPCS + LPCS) is GTE 6250 gpm, and RPV Pressure is LTE 20 psig. Unless HPCS or LPCS flow must be GTE 6250 gpm regardless of total spray flow (This is true!), then it appears that Adequate Core Cooling does exist which would make 'C' the correct answer.</p> <p>LIC: Either HPCS or LPCS flows must be greater than 6250 regardless of total flow to ensure adequate core cooling.. D is only correct answer. No change required.</p>
																	<p>BANK = 9 (19 allowed)</p> <p>MODIFIED = 0</p> <p>NEW = 16 (Write at least 2)</p> <p>LCL/HCL = 3/22 (12/88%)</p> <p>1/25(4%) UNSAT Questions: 10/25 (40%) Enhanced Questions</p>

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- Enter the level of difficulty (LOD) of each question using a 1 – 5 (easy – difficult) rating scale (questions in the 2 – 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified:
 - The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
 - The answer choices are a collection of unrelated true/false statements.
 - The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
 - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- Check the appropriate box if a job content error is identified:
 - The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
 - The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
 - The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
 - The question requires reverse logic or application compared to the job requirements.
- Check questions that are sampled for conformance with the approved K/A and those that are *designated SRO-only* (K/A and license level mismatches are unacceptable).
- Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
- Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

NRC ILE Outline and Operating Test Submittal Comments

2014 LaSalle

	Chief Examiner Comment	Facility Action/Response
	Outline Submittal Comments	
JPM-Admin RO-15	Conduct of Ops, Evaluate License Maintenance Requirements. Ensure at RO vice SRO level.	Lic: Pertains to shift hours, RO vice SRO.
JPM-Admin RO-42	Equipment Control. Print Reading Exercise. What does this JPM consist of? Tagout a component?	Lic: Reading print based on OE.
ES-201-2, signoff 3a	Need copy of licensee's audit exam (outlines for both Operating Test and Written Exam) to complete the signoff.	NRC: Received audit exam and reviewed.
ES-301-2	Only 4 alternate path JPMs, best to have 5.	Lic: Noted.
Scenario 1	What is the decay heat for this low power scenario?	Lic: Middle of life.
	Events 3 and 5 are manual swap of pumps, low LOD.	Lic: Event 3, Manual swap of CRD pumps requires significant number of critical actions to complete swap. Event 5 is more straight forward; however, it still contains sufficient number of critical actions to complete.
	LOCA ramp rate needs to be slow enough to allow crew to diagnose and have opportunity to manually scram the reactor before an auto scram occurs.	Lic: Review during validation.
	Large break LOCA? If so, loss of HPI has no effect! Can't take credit for critical task 3.	Lic: Deleted critical task 3
Scenario 2	Event 2 should be split into two sub events: 2a) C-BOP: Loss of FW Heating, 16A Heater High Level Switch Failure. 2b) R-ATC: Emergency Power Reduction.	Lic: Part of same event. Only ATC getting credit for reactivity event. Left as one event.
	Event 8 should be given credit to ATC applicant, not CREW.	Lic: Part of M, occurs after the M so not counted as a C.
Scenario 3	Event 9 should include "Reactor Scram"	Lic: Scram is written up as part of Event 9.

NRC ILE Outline and Operating Test Submittal Comments

2014 LaSalle

	Chief Examiner Comment	Facility Action/Response
Scenario 4	LOCA ramp rate needs to be slow enough to allow crew to diagnose and have opportunity to manually scram the reactor before an auto scram occurs.	Lic: Noted
	Operating Test Submittal Comments	
	RO/SRO Admin JPMs Comments	
JPM-Admin SRO-50 Radiation Control	JPM Step 6 critical, part of initiating cue that completes the task.	Lic: 1) Agree, Step 6 is critical.
JPM-Admin SRO-48 Emergency Procedures/Plan	1. Errata: a) Initial Conditions, first line, add "r" to "Manager"; b) "Note" after JPM Step 2, add "be" after "MS4 would..." 2. JPM Step Standard, Unusual Event or Alert? 3. Why are JPM Steps 6 and 13 critical? 4. Does SM normally fill out NARS form? 5. Change Initiating Cue to "Respond to event as SM." Applicant should be able to identify SM responsibility to classify the event. 6. Clarify two critical times, classify and notify, classify within 15 m, and notify within 13 m (allow 2 m for transmittal).	Lic: 1) Incorporated errata comments. 2) JPM critical Step 3 standard revised to reflect classification is ALERT vice UNUSUAL EVENT. 3) JPM Steps 6 and 13 are not critical. NOTE: not changed on final submittal. 4) SM fills out NARS. 5) Agreed, will change initiating cue to direct the applicant to make sure necessary notifications are made. NOTE: initiating cue not revised 6) Agree 15 min to classify, 13 min to fill out NARS (allow 2 min to transmit).
JPM-Admin RO-42 Equipment Control	Provide legible schematic. JPM Steps 1 and 2 aren't critical. The HPA document identifies the jumper points and the fuse for the applicant. Either incorporate additional critical steps or replace the JPM.	Lic: 1) Applicants will use the large legible prints from print drawer in simulator (control room). 2) Rewrote JPM and 3 critical steps to have applicant use the prints to identify the contacts being jumpered to accomplish task; identify the fuse that blew; explain why the fuse blew.
JPM-Admin RO-35	Provide legible map. Explain work access and location with respect to doses	Lic: 1) Provided legible RWP and dose map.

NRC ILE Outline and Operating Test Submittal Comments

2014 LaSalle

	Chief Examiner Comment	Facility Action/Response
Radiation Control	and contamination. Where is RP-AA-460, <u>Step 4.7.1</u> , briefing requirements for Locked High Rad Area?	2) Corrected JPM critical Step 2 to reflect "RP-AA-460, Step4.4.3.3".

	RO/SRO CR/IP System JPMs Comments	
JPM-Sim a.-FW-17 S/U 2 nd TDRFP	JPM Step 19 is critical. Taking action to close valves.	Lic: 1) Agree. Step 19 critical.
JPM-Sim b.-TG-02 Respond to Gen L/O	Need to shorten this JPM. During validation time was well exceeding the estimated 30 min.	Lic: 1) Revised Initiating Cue to start at LOP-TG-02, Step E.33 (vice E.24) and complete through E.39, still retained critical steps.
JPM-Sim c.-RI-12 RCIC I/A Initiation	Used on previous NRC exam. FO13 does not close as required. Identifying FO13 did not close would be critical (JPM Step 7, LOR 2.b). As written JPM incorporates steps from two procedures, rearrange JPM so the LOR and LOP steps are separated.	Lic: 1) Agree, LOR 2.b is critical step 2) Rearranged JPM to group the LOP and LOR steps.
	Scenario D-1 Comments	
Scenario – 1	Event 3; BOP does not have anything to do, what prevents him from taking over the CRD pump shift? Suggest bringing in Event 4 about same time?	Response: May have to force the ATC to respond.
	Event ; Move EHC leak to just before LOCA/scram.	Response: Done
	Event 6; Add TS associated with failed APRM.	Response: No TS is entered for this event.
Scenario – 2	Event 8; Select another method to identify the initial SLC pump starting was unsuccessful, ie, inadequate discharge pressure.	Response: Incorporated comment.



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10CFR50.4

RA14-057

November 10, 2014

U. S. Nuclear Regulatory Commission
Attention: NRC Region III Administrator
2443 Warrenville Rd.
Suite 210
Lisle, IL 60532-4352

LaSalle County Station, Units 1 and 2
Facility Operating License Nos. NPF-11 and NPF-18
NRC Docket Nos. 50-373 and 50-374

Subject: NRC Initial License Examination Post-Examination Information

In accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1, Exelon Generation Company, LLC, (EGC) has provided the initial licensed operator post-exam materials for the examination administrated during the weeks of October 20 and October 27, 2014.

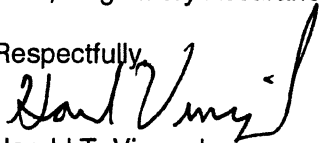
The following exam materials were hand delivered to the Chief Examiner, Michael Bielby, on Thursday, 11/6/2014, as required by ES-501, Initial Post-Examination Activities

- Graded written exams with each applicants answer sheet
- Master exam and answer key
- All questions asked by the applicants and answers provided by exam proctor during exam administration
- Written exam seating chart
- ES-403-1 "Written Examination Grading Quality Checklist"
- ES-201-3 "Examination Security Agreement"

There were no substantive comments or contended questions associated with this exam.

Should you have any questions concerning this letter, please contact Mr. Guy V. Ford, Regulatory Assurance Manager, at (815) 415-2800.

Respectfully,


Harold T. Vinyard
Plant Manager
LaSalle County Station

Rec'd via EOE
NOV 12 2014