

2015 PALISADES NUCLEAR PLANT
INITIAL LICENSE RETAKE EXAMINATION
ADMINISTRATIVE FILES

Facility: <u>Palisades Nuclear Plant</u>		Date of Examination: <u>January 21, 2015</u>
Developed by: Written - Facility : NRC <input checked="" type="checkbox"/> // Operating - Facility : NRC <input type="checkbox"/>		
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-401-4/2, 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)	NA
<p>* 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.</p>		

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 01/19/2015 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. Stephen Botimer	NRC Exam Project Lead		10/30/14		01/21/2015
2. Patrick Murphy	NRC Exam Developer		10/30/14		
3. VIRGINIA L. MOCELLI	SRO - REVIEWER		11/11/14		1/21/15
4. BESS PRAGER	FACILITY REVIEWER		11/11/14		1/21/15
5. Don Karnes	LOR Exam Developer		11/14/14		1/21/15
6. Michael Lee	SRO - VALIDATOR		11/14/14		1/21/15
7. Greg D. Smith	SRO Validator		12/11/14		1/26/15
8. SCOTT T. HOWES	SRO VALIDATOR		12/16/14		1-22-15
9. Dan Geerlings	SRO Validator		12-17-14		1-21-15
10.					
11.					
12.					
13.					
14.					
15.					

NOTES:

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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 1/19/15. 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.

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2. Patrick Murphy	NRC Exam Developer	<i>[Signature]</i>	10/30/14	<i>[Signature]</i>	12/21/14
3. VIKTORIA L. MOCELLI	SLO - REVIEWER	<i>[Signature]</i>	11/11/14		
4. Bess Savage	FACILITY REVISOR	<i>[Signature]</i>	11/11/14		
5. Don Karnes	LAR Exam Developer	<i>[Signature]</i>	11/11/14		
6. Michael Lee	SRO-VALIDATOR	<i>[Signature]</i>	11/11/14		
7. Greg D. Smith	SRO Validator	<i>[Signature]</i>	12/11/14		
8. Scott Timmons	SRO VALIDATOR	<i>[Signature]</i>	12/16/14		
9. Dan Geerlings	SRO Validator	<i>[Signature]</i>	12-17-14		
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NOTES:

Tier / Group	Randomly Selected K/A	Reason for Rejection
1/1SRO	(008)A2.04	After a significant effort, unable to develop an operationally valid discriminatory exam question at the SRO Only level based on high temperature computer alarms related to vapor space LOCA. Computer alarm setpoints are substantially higher than installed annunciators and temperature indicators. Additionally, acoustic monitors with audible alarms and red alarm tile, are typically first out indication of vapor space LOCA and the computer alarms do not actuate until some time after Safety Injection has initiated and are therefore not used as a diagnostic tool for this event. The computer alarm for high temperature is primarily used to detect relief valve weepage that would not be significant enough to be classified as vapor space LOCA. Resampled same system and obtained (008)AA2.01
1/1SRO	(011)A2.09	Unable to develop a question for this K/A due to unavailability of Natural Circulation cooling flow in the PCS coincident with a large break LOCA. Resampled same system and obtained (011)EA2.01
1/2SRO	(059)G2.4.34	There are no RO tasks performed outside the Control Room that are associated with the Liquid Radwaste System under Normal or Emergency plant conditions. Resampled same system and obtained (059) AA2.05
1/2SRO	(074)G2.4.49	Unable to develop an operationally valid discriminatory exam question at the SRO level due to lack of unique SRO Only Immediate Actions. ROs are required to memorize all Immediate Actions. Resampled same system and obtained (074) G2.4.46
1/2SRO	(033)G2.2.38	Due to oversampling of Generic K/As and inability to develop an SRO level question for loss of Intermediate Range NI that fits with the criteria of 10CFR55 Section 43.1, randomly resampled the same system in the A2 category and obtained (033)A2.10
2/1SRO	(103)G2.4.35	Unable to develop an operationally valid discriminatory exam question at the SRO level due to no unique local auxiliary operator tasks directed by the SROs during emergencies for this or any other system. Resampled same system and obtained (103) A2.03

PAL 25Q Initial SRO Written Retake Exam

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			
1.	H	2										Y	Y	N	E	<p>NRC: Revise the last stem sentence to reflect the procedure transition would be directed by the CRS.</p> <p>Lic: Reworded stem to say: Following the verbal verification of Immediate Actions of EOP-1.0, "Standard Post Trip Actions," (1) which follow up EOP would the CRS choose and (2) what mitigating strategy would be used? Deleted "Go to" from each distractor part 1.</p>
■	H	3										Y	Y	M	S	Reference Provided.

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).

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
3.	H	2											Y	Y	N	E	<p>Reference Provided.</p> <p>NRC: 1) First stem bullet: delete the term "large break loss of coolant accident." Add sufficient component malfunctions/parameters for applicant to determine he has LBLOCA. 2) Second stem bullet: delete "(LOOP)". 3) Last stem sentence, (2): include "...the CRS will...." 4) Errata: KA number is EA2.01 not AA2.06.</p> <p>Lic: Incorporated comments 1 and 2, determined enough information exists in stem to determine LBLOCA exists (RVLMS lights). Reworded stem to say "Based on this information, (1) what is the status of Safety Functions and (2), what procedural action would the CRS take to mitigate the event?" Corrected KA number.</p>
4.	H	4											Y	Y	B	S	<p>2008 PAL Exam</p>
■	H	2						x					Y	Y	B	E	<p>NRC: Correct answer a.(2) is a subset of distractor b.(2) As such, an astute test taker could observe that even if b.(2) were a correct answer, a.(2) would also be a correct answer and by selecting a. he would be correct. Thus the test taker could eliminate b. whether it was correct or not. Recommend adding additional verbage to a.(2) that still makes it correct, but eliminates a.(2) being a subset of b.(2).</p> <p>Lic: Added additional verbage to a.(2) that still makes it correct, ("as soon as possible") but eliminates it from being subset of b.(2).</p>
■	H	3											Y	Y	N	E	<p>NRC: 1) Revise the last sentence of stem to indicate "...actions to be directed by the CRS...."</p> <p>2) Revise answer c. to "Direct closure of...." and include the appropriate time element (ie, immediately?) to meet the time element specified by KA. If "immediately" is used in all 4 choices, remove it and put in the last stem sentence.</p> <p>Lic: Revised stem to state, "What action should the CRS direct or take and why should it be done?". Revised distractor 'c' as requested above.</p>
7.	H	3											Y	Y	N	S	<p>NRC: Clarification: are TSs 3.3.7, 3.3.8 and 3.3.9 to be provided as stated in the LO? Question does not identify any of them as a handout for the exam.</p> <p>Lic: NO, Tech Specs will not be provided for this question.</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only				
8.	H	4											Y	Y	B	S	NOTE: PAL has no IR NIs, only combined SR/WR NI channels (NI-1/3 and NI-2/4); SR NI-1 and -2 range 0.1 to 1E+5 cps and WR NI-3 and -4 range <1E-7% RTP to >100% RTP.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
9.	H	3		x	x								Y	X	M N	U	<p>1 of 2 x2</p> <p>NRC: 1) Not SRO Only. Both (1) and (2) of b. and d. are RO knowledge (auto actions and knowledge of ARPs). Need to revise or replace. 2) Revise last stem sentence part (2) to reflect actions directed by CRS or like.</p> <p>Lic: Revised part 2 of distractors 'b' and 'd' to address SOP-37 versus ARP-8 and revised question stem to read, "Which of the following (1) actions will occur automatically as result of RIA-1049, Liquid Radwaste Monitor exceeding its high alarm setpoint and (2) which procedure will the CRS use to direct actions due to the above conditions?"</p> <p>NRC: Still Not SRO Only. Why is this question not RO?</p> <p>1) Choices part 1) is RO system knowledge. Part 2) of b. and d. still RO knowledge (procedure entry conditions). Add entry into SOP-37 Attachment 1 with action or mitigation strategy (ie, reason it is entered) would make question SRO.</p> <p>2) Last sentence of stem, revise part (2) need to be able to state "which procedure is the CRS required to direct (ie, or transition to) for this event?" Reference is not correct term because it implies any procedure that suggests actions is correct, does not "require" those actions to be taken.</p> <p>3) How does SOP-37, Att 1 apply to correct answer b.? How can the original ARP-8 reference be replaced by SOP-37?</p> <p>Lic: Revised question to address loss of safety actions from RIA and changed reference to ODCM with guidance for the SRO directing actions of the crew.</p> <p>NRC: 1) Does this question require a Handout (none referenced) or is this information memorized by SROs?</p> <p>2) Choices part 2) Where does F and A come from, ie, what do they represent?</p> <p>3) Choices a.(2) and c.(2) "Fission Product Barriers" not plausible for liquid rad release given in stem.</p> <p>Lic: 1) No handouts provided. 2) F and A are from the EAL wallcharts. 3) Revised question stem into two different situations. Part (1) requires knowledge of ODCM actions to allow batch releases with different Radiation Monitors unavailable and Part (2) now requires the candidate to understand what safety actions are provided by RIA-1049 and absent of any Annunciator actuation in the</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
																	<p>(9 continued)</p> <p>question stem, realize the need to transition to the ARP for guidance on isolation of the batch.</p> <p>NRC: 1) Stem: (1) delete "...with Radiation Monitor RIA-1040 unavailable..."; add "and" between (1) and (2); delete "If RIA-1040 was in service and failed to perform its automatic safety actions during a batch release,;" caps "W" in which.</p> <p>Lic: Incorporation of comments as requested will invalidate the question and not meet the K/A statement. Part 1 of the stem asks the student to determine if a radwaste batch could be released if the Radwaste Discharge Monitor was UNAVAILABLE for any given reason. The student would have to determine that it IS acceptable and then determine the appropriate compensatory measures from the ODCM for the correct Rad Monitor (RIA-1049). Part 2 of the stem assumes that the Radwaste Discharge monitor RIA-1049 is available AND in service when a High Radiation signal is received AND fails to perform its automatic safety functions. The student would have to apply the knowledge that a High Radiation annunciator would actuate, the batch isolation valves failed to close, and that the appropriate procedure to transition to for mitigation is ARP-8.</p>
10.	H	4											Y	Y	B	E	<p>2012 PAL Exam</p> <p>1 of 2 x2</p> <p>NRC: 1) Abbreviate the term "Core Exit Thermocouple" with "CET" in a. and b.</p> <p>2) Revise the last stem sentence part (2) to reflect the procedure would be directed by the CRS or like.</p> <p>Lic: Incorporated comment #1 above and revised stem part 2 to say, "(2) the procedure, if any, that the CRS would implement to mitigate the bubble formation?"</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
11.	H	3 2		x		x							Y x	Y x	M N	E U	<p>1 of 2 x2</p> <p>NRC: Revise the last stem sentence, part (2) to reflect the procedure would be directed by the CRS.</p> <p>Lic: Revised the stem of the question to read, "Which one of the following statements correctly describes (1) the proper procedure the CRS would choose to address the problem, and (2) for the stated conditions, when would the reactor be directed to be tripped?"</p> <p>NRC: Doesn't meet KA: 1) Question addresses PC leakage and PZR pressure control malfunction, NOT KA for CVCS malfunction/operation, use procedures to correct, control or mitigate the consequences (low PZR pressure) of the CVCS malfunction or operation .</p> <p>Not SRO Only. 2) Part 1) is RO procedure entry knowledge. Part 2) ROs required to know trip criteria (?) SRO only question would require procedure transition to specific part of procedure (ie, Attachment or Supplement...), with statement of mitigation strategy or reason/basis for specified action. 3) Rewrite or replace: c.(2) is subset of d.(2) and essentially same distractor, ie, if c.(2) correct (or incorrect), then d.(2) also correct (incorrect). 4) Are Unidentified and identified leak rate limits specified Tech Specs?</p> <p>Lic: Revised question to address the effects of lowering Pressurizer Pressure on the Charging flow in the CVCS System and the procedure that would be used by the CRS to direct the recovery from the transient. The candidate would have to be able to diagnose the failure and recognize which procedure transition would be necessary with the understanding of the relationship between Pzr Press and Pzr Level in this situation. Requires more analysis that simple system knowledge.</p> <p>NRC: 1) Stem use of "Pressurizer Pressure Controller" and "Pressurizer Pressure Transmitter failing" cues AOP-28 is correct procedure to use.</p> <p>Lic: Revised question such that the SRO will have to analyze the effects of the open Pzr Spray valves on both Pzr pressure and how lowering pressure will cause Pzr level to rise and therefore Charging flow to lower in CVCS. SRO must also realize that manual operation of Charging and Letdown will, in fact, stop the Pzr level transient, he must transition to AOP-28 for guidance on stopping the Pzr pressure transient by getting the Pzr Spray valves closed prior to an automatic Reactor Trip.</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
																<p>(11. continued)</p> <p>NRC: 1) Add additional bullet to stem: "CVCS and pressurizer pressure controllers in automatic". 2) Add the procedure reference to each of the choices actions, ie, a.(2) and c.(2)AOP 28.....; b.(2) and d.(2)AOP 22...</p> <p>Lic: Revised question such that the SRO will have to analyze the effects of the open Pzr Spray valves on both Pzr pressure and how lowering pressure will cause Pzr level to rise and therefore Charging flow to lower in CVCS. SRO must also realize that manual operation of Charging and Letdown will, in fact, stop the Pzr level transient, he must transition to AOP-28 for guidance on stopping the Pzr pressure transient by getting the Pzr Spray valves closed prior to an automatic Reactor Trip.</p> <p>NRC: 1) Add additional bullet to stem: "CVCS and pressurizer pressure controllers in automatic". 2) Add the procedure reference to each of the choices actions, ie, a.(2) and c.(2)AOP 28.....; b.(2) and d.(2)AOP 22...</p> <p>Lic: Added another bullet to the stem of the question that states: In-Service PLCS and PPCS controllers are in 'Cascade' and 'Automatic' respectively. Also added "per AOP-22, "Pressurizer Level Control Malfunctions" and AOP-28, "Pressurizer Pressure Control Malfunctions" to the appropriate distractor statements. We do not use the System designator CVCS when directing operation of the Pressurizer Level Control System which actually controls the CVCS components of Charging and Letdown.</p>	
12.	H	2											Y	¥ x	B	E	<p>NRC: Revise the last stem sentence, part (2) to reflect the "procedure action" would be directed by the CRS.</p> <p>Lic: Revised the question stem to read, "Which of the following (1) describes the current status of the PZR heaters and (2) the action, if any, the CRS would direct to energize the available PZR heaters in accordance with EOP-4.0?"</p>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
13.	H	3 2				x							Y	Y	M N	S U	<p>NRC: Not SRO Only. 1) Choices part 1) is RO procedure entry knowledge. Part 2) is RO system/procedure action knowledge</p> <p>2) The use of SOP to address a leak is not plausible.</p> <p>3) If action requires in-depth understanding, or is a mitigation strategy (ie, go to attachment or supplement or transition to another procedure then more likely SRO only.</p> <p>Lic: Revised question to address a CCW leak inside Containment with indications that appear to be a LOCA. The candidate must be able to deduce from stable CCW Surge level and stable Pzr Level that the leakage into the Containment Sump is from CCW which must be determined by transitioning to Attachment 1 of AOP-36 for diagnosis.</p> <p>NRC: LOD=2. Lic: LOD=2.</p>
14.	H	3											Y	Y	N	E	<p>NRC: 1) Revise the last stem sentence to reflect that the actions to refill S/Gs will be directed by the CRS.</p> <p>2) "Wordsmith" the following:</p> <p>a.to raise <u>the respective</u> S/G level.</p> <p>b.to raise <u>the 'A'</u> S/G level, and <u>feed</u> 'B' S/G at.....</p> <p>c.to raise <u>the 'A'</u> S/G level, and do not.....</p> <p>d.....to raise <u>the 'B'</u> S/G level, and <u>feed the 'A'</u> S/G.....</p> <p>Lic: Revised the question stem to read, "Based on the above conditions, how would the CRS direct the S/Gs be filled?". Incorporated comment #2 as requested.</p>
15.	H	3											Y	Y	B	E	<p>1 of 2 x2</p> <p>NRC: Revise the last stem sentence to reflect that the procedural actions will be directed by the CRS.</p> <p>Lic: Revised the question stem to read, "Which one of the following describes (1) the <u>minimum</u> action(s) the CRS would direct based on the indications associated with CV-1007 and (2) which procedure would the CRS reference for that action(s)?"</p>
16.	H	3											Y	Y	B	S	Reference Provided.
17.	H	3											Y	Y	B	S	Reference Provided.

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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				
■	H	3											Y	Y	N	E	<p>NRC: Reformat question stem to replace the statement "small break LOCA with a concurrent Loss of Off-site Power (LOOP)" with parameters in stem that require more analysis (ie, prediction of impacts). Make choices the procedural actions to be directed by the CRS.</p> <p>Lic: Revised the stem as requested and made choices the procedural actions.</p> <p>NRC: Add ".the CRS will direct.." to last stem sentence (or some facsimile).</p> <p>Lic: Reworded question stem for clarity and added CRS direction as requested.</p>
19.	H F	2											Y	Y	B	S	<p>NRC: LOK=F. The only way to know which requirement is incorrect is based on memory, not higher cognitive skill.</p> <p>Lic: Changed LOK to RECALL</p>
20.	H	2											Y	Y	N	S	
21.	H	2											Y	Y	B	E	<p>2010 PAL Exam</p> <p>NRC: Revise the last stem sentence to reflect the procedure used by the CRS.</p> <p>Lic: Revised question stem to read, "Which one of the following procedures would the CRS or Shift Engineer use to perform a risk assessment for removing EY-30 from service?"</p>
22.	H F	3											Y	Y	B	S	<p>NRC: LOK=F. The only way to know which procedure is used is memory, not higher cognitive skill.</p> <p>Lic: Changed LOK to RECALL</p>
23.	H F	3											Y	Y	B	S	<p>NRC: LOK=F. The only way to know the emergency entry dose limit based on company property damage is from memory, not higher cognitive skill.</p> <p>Lic: Changed LOK to RECALL</p>

PAL 25Q Initial SRO Written Retake Exam

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				
■	H	2											Y	Y	B	E	2007 PAL Exam NRC: Request modification to stem to clarify that "...in accordance with EOP-4.0... the CRS will direct the use of TBVs.....etc". Lic: Revised question stem to read, "During a Steam Generator Tube Rupture, in accordance with EOP 5.0, why would the CRS direct use of the turbine bypass valve (TBV) instead of the atmospheric dump valves (ADVs) when steaming a ruptured S/G?"
25.	H	3											Y	Y	B	S	2008 PAL Exam
For SRO portion of Exam: New = 10(40%), Modified = 1(4%), Bank = 14(56%), LOK: F=3, H=22; Sat=11(44%), Enh=11(44%), Unsat=3(12%) ■ SRO Only question submitted for NRC pre-review. Total of 5.																	

Facility: <u>Palisades</u>		Date of Exam: <u>January 21, 2015</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	SD	RAW	MEB		
2. Answer key changes and question deletions justified and documented	N/A	N/A	N/A		
3. Applicants' scores checked for addition errors (reviewers spot check >25% of examinations)	SD	RAW	MEB		
4. Grading for all borderline cases (80% ± 2% overall and 70 or 80, as applicable, ± 4% on the SRO-only) reviewed in detail	SD	RAW	MEB		
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	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	SD	RAW	MEB		
		Printed Name / Signature		Date	
a. Author	Steve Botimer / <u><i>Steve Botimer</i></u>		<u>01/22/2015</u>		
b. Facility Reviewer(*)	Robert White / <u><i>Robert White</i></u>		<u>1-22-15</u>		
c. NRC Chief Examiner(*)	Michael Biellon / <u><i>Michael Biellon</i></u> <small>RANDAL BAKER</small>		<u>1/29/15</u> <u>1/29/15</u>		
d. NRC Supervisor(*)	<u><i>HIRONAKI PETERSON</i></u>		<u>2/3/15</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					



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269.764.2000

Walter E. Nelson
Training Manager

PNP 2015-009

January 30, 2015

NUREG-1021

Administrator
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

ATTENTION: Janet Kweiser

Palisades Nuclear Plant
Dockets 50-255 and 72-07
License No. DPR-20

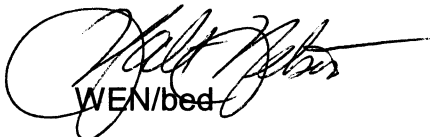
Subject: Final Operator License Re-Examination Package

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. is submitting the final graded Senior Reactor Operator license re-examination package for the Palisades Nuclear Plant, in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1, for Kristopher A. Ruetz, Docket Number 55-33801. There are no post-examination comments.

Please contact Steve Botimer at (269) 764-2975 if you have any questions regarding this submittal.

This letter contains no new commitments and no revisions to existing commitments.



WEN/bed

CC Administrator, Region III, USNRC (w/o enclosures)
Project Manager, Palisades, USNRC (w/o enclosures)
Resident Inspector, Palisades, USNRC (w/o enclosures)
Document Control Desk, USNRC (w/o enclosures)

FEB 3 2015