

FACILITY COMMENTS TO THE PROPOSED NRC-AUTHORIZED

WRITTEN EXAMINATION AND OPERATING TESTS

FOR THE LASALLE INITIAL EXAMINATION - APRIL 2002

ES-401

Written Examination
Review Worksheet

Form ES-401-9

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
1R	H														E	Modified Reword-licensee preference.
2R	F														S	Modified
3R	F														E	New Replace "loading" with "dunking."
4R	F														E	New Reword-licensee preference.
5R	H														E	New Also include "Div 2" annunciator.

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.
 - More than one distractor is not credible.
 - 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).
- Based on the reviewer's judgment, is the question as written (U)nacceptable (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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38B	H						X							U	New As written distractors "a." and " b." are true. NRC: Agreed.
39B	F													E	*New Reformat stem to clarify question. NRC: Agreed.
40B	H													E	*New Incorrect KA given. NRC: Corrected.
41B	H													E	New Reformat stem to clarify question. NRC: Agreed.
42B	H													E	New Replace "C" with "O" in stem. NRC: Agreed.
43B	H													E	New Reformat stem to clarify question, replace 3 distractors with more significant systems. NRC: Agreed.
44B	H													E	New Capitalize "not" and "and." NRC: Agreed.
45B	H													S	*New
46B	F													S	*New
47B	H													S	*New
48B	F													E	New Reformat stem to clarify question. NRC: Agreed.
49B	H													E	New Reformat stem and distractors to clarify both. NRC: Agreed.
50B	H													U	Bank Does not apply to new digital FW control system, replace question. NRC: Agreed, replaced with appropriate question on digital FW.
51B	H													S	New
52B	H													S	New
53B	H													E	*New Reformat stem to clarify question. NRC: Agreed.
54B	F													E	*New Rewrite 3 distractors. NRC: Agreed.
55B	F													E	*New Reformat stem to clarify question, no procedure for removing shorting links. NRC: Agreed, rewrite.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
74B	H				X							X		U	*New T/F question, does not meet KA, replace. NRC: Agreed, replaced question.
75B	F											X		U	*New KA should be A207 not K403. NRC: Agreed, changed.
76B	F													S	New
77B	F													S	New
78B	F													S	New
79B	F													S	New
80B	F											X		U	New KA should be 2.2.2 not 2.2.1. NRC: Agreed, changed.
81B	H													S	New
82B	F													U	*New ROs aren't responsible for Degraded Equipment Log entries, "b." also true. NRC: ROs are responsible for DEL entries per reference, will change "b." to Plan of the Day per discussions with Operations.
83B	H													U	*Modified Not memorized knowledge for operators, replace question. NRC: Replaced question.
84B	H											X		U	New Doesn't meet KA, rewrite. NRC: Replaced question.
85B	H													E	*New Reformat and reword stem to clarify question. NRC: Agreed.
86B	F													S	*New
87B	H													U	New LGAs have no Immediate Actions, once entered, all legs performed concurrently which makes all distractors correct. NRC: Rewrote question.
88B	F											X		U	*New Beyond KA, not memory knowledge. NRC: Replaced question.
89B	F													E	New Reformat and reword stem to clarify question. NRC: Agreed.
90B	F													S	Bank

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
91B	H													U	*New Operators not required to memorize EOP steps, ROs not required to use flow charts. NRC: Rewrote question.
92B	H													E	*New Reformat stem to clarify question. NRC: Agreed.
93B	F													U	*New Operators not required to memorize LCO action statements. NRC: Reformatted and reworded stem to clarify question.
94B	H													U	*New ROs not required to know greater than 1 hr TS. NRC: Rewrote question as entry condition, deleted LCO action statement.
95B	F													E	*New Reformat and reword stem to clarify question. NRC: Agreed.
96B	F													S	New
97B	H				X									U	*New T/F statements, 190 vs 200 degrees F trivial, reformatted and rewrite stem to clarify question. NRC: Agreed.
98B	F											X		U	New Does not meet KA. Replace. NRC: Agreed.
99B	H													S	New
100B	H													E	New Reformat and reword stem and distractors to clarify both. NRC: Agreed.
101S	F													S	*New
102S	F											X		U	*New Does not meet KA, no correct answers, reformat stem to clarify question. NRC: Rewrote question.
103S	F											KA		U	New Does not meet KA, not required memory. NRC: Rewrote question.
104S	H													S	New
105S	F													U	Modified Not Immediate Actions, good practice, not required by procedure. NRC: Replaced question.
106S	H													E	*Modified Reformat and reword stem to clarify question. NRC: Agreed.
107S	F													S	*Modified

LaSalle Station Operating Exam Comments

Administrative JPMs:

JPM A.1.a:

Two administrative questions were administered (Use of Overtime and Maintenance of License Requirements). Upon review of answers provided, the examiners noted licensee reference procedure (LS-AA-119, Overtime Controls) had two right answers. We replaced the overtime question with a review of Standby Liquid Control Tank parameters for entry into Technical Specifications. This replacement question was administered on the morning of April 18, 2002. After the morning class was escorted away for in-plant JPMs, the licensee identified that the remaining questions were left unattended for 5 minutes. To avoid an apparent exam compromise, the SBLC question was replaced with a Station Vent Stack Effluent Flow surveillance for the afternoon class. The Station Vent Stack Effluent Flow surveillance question was administered the afternoon of April 18, 2002.

Added Task Standard and time estimates.

JPM A.1.b:

Changed JPM such that it could be done in classroom to accommodate large class size. Changed rod line and MELLLA to match licensee-provided OD-6 printout. Added Task Standard and Time estimate.

JPM A.2:

Added Task Standard and time completion estimate.

JPM A.3:

Redistributed accumulated dose exposures to more realistic values. Relocated work area on radiation survey map. Changed RWP number to match station standard. Clarified dosimetry requirements. Added task standard.

JPM A.4 (SRO):

Provided wind speed and direction with initiating cue in lieu of finding values in simulator. Change necessary to allow administration of JPM in classroom setting due to large number of candidates. Allowed either "None" or "Occurring" as allowed responses to Section 5, "Release Status." Added time completion estimate and added Task Standard.

JPM A.4 (RO):

Deleted performing emergency notification since notifications performed by security force and not by operations. Replaced with sounding emergency siren from remote shutdown panel

System JPMs:

JPM B.1.a:

Deleted first step of JPM since initiating cue addressed RHRSW process radiation monitor. Shortened JPM by deleting final tasks of JPM since they were done locally. Added Task Standard. Changed time estimate from 15 minutes to 8 minutes..

JPM B.1.b:

Rewrote since licensee replaced analog feedwater system controller with digital feedwater controller. Added Task Standard and estimated time to completion.

JPM B.1.c:

Removed erroneous indication during surveillance test since failure would not cause the main turbine bypass valves to become inoperable and simulator could not create this type of failure. Changed initial unit power from <50% to 85% to match initial simulator setup conditions. Added Task Standard and changed estimated time to completion.

JPM B.1.d:

Change made to move in-sequence rods using a Reactivity Maneuver sheet. Also, had rod move after elevating CRD pressure to 500 psid in lieu of 550 psid. Changed initial unit power from <50% to 85% to match initial simulator setup conditions. Added Task Standard and changed estimated time to completion. Added initial condition that Unit 2 SBGT system is out of service.

JPM B.1.e:

Changed method of starting SBGT to a more 'predictable' method. Added Task Standard and changed estimated time to completion. Added Task Standard and changed estimated time to completion.

JPM B.1.f:

Rewritten to NOT include transfer of 4160 volt electrical buses since if done incorrectly by candidate, could upset other JPMs in progress in simulator. Added Task Standard and changed estimated time to completion.

JPM B.1.g:

Rewrote since original JPM too lengthy (altered path). Changed end states of JPM from restoring RHR to ensuring that valve interlock malfunction was identified and corrected by the operator prior to draining the reactor vessel to the suppression pool and receiving a PCIS Level IV actuation. Added Task Standard and changed estimated time to completion.

In-Plant JPMs:

JPM B.2.a:

Did not include loading RPS bus since switch operated by control room RO.
Changed JPM from starting up 'A' RPS MG set to starting up 'B' RPS MG Set since electrical breakers needed to start 'B' RPS MG set are only 1 floor away and not 2 floors away as are 'A'! Deleted ".. and transfer Power from Alternate Source to Normal Source" from title since transferring power is done from control room.

JPM B.2.b:

Shortened JPM. Added Task Standard and changed estimated time to completion.

JPM B.2.c:

Changed JPM to include performance of "Swap Loops" section of operating procedure.
Added Task Standard and changed estimated time to completion.

Scenarios (1, 2, 3, 4, & spare):

Scenario 1:

Scenario 1 was rewritten due to potential security compromise, the licensee did not adequately clear simulator 'memory' after validating scenario 1. Added Simulator Operator crib sheet as last page.

Scenario 2:

Event #3 was modified to have operator close an open SRV, then have SRV reopen. This would ensure that quick actions by the crew would not preclude a necessary reactivity change (power reduction). Added Simulator Operator crib sheet as last page. Event #8 was added to ensure that scenario set had at least one fault after major event occurred.

Scenario 3:

Changed initial conditions from high power lowering with recirc flow to lower power conditions raising power with control rods (to provide diversity in reactivity maneuvers). Added D-1 (equivalent) sheet.

Scenario 4:

Scenario 4 was rewritten since the original loss of feedwater heating resulted in an unintentional loss of all feedwater and premature reactor scram. Reactivity, normal and instrument/component failure event types were also replaced to ensure a smoother transition through the modified scenario.

Scenario 5: (Did not use)

Original Normal event and component failure event were replaced due to insufficient panel operation.
Two component/instrument failure event types involving feedwater system components were replaced since the licensee had installed a new digital feedwater modification. Events would not run as written.

