

*FERMI* RE-TAKE  
INITIAL LICENSE EXAM

OCTOBER 15, 2001

NRC Review Comments to Facility-  
Developed Written Examination

(See ES-401-9 form)

*FERMI* RE-TAKE  
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ES-401-9

“Written Examination Review Worksheet”

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		
1	F	2										✓		U	{Bank} Per NUREG-1123, this K/A is BWR-2 only. Plus transient described would fall under 259002, Reactor Water Level Control, not 259001 Feedwater, therefore tie to selected K/A very weak. <b>Resolution</b> , facility re-selected K/A 2.01 in group
2	H	3												S	{Bank}
3	H	3												S	{Bank}
4	H	2												E	{New} K/A 2.1.12 requires applying ITS to a system, which the question does not do. <b>Resolution</b> , facility swapped K/A with the one chosen for original question 93. Wrote question to 295009 G2.2.22, this became question 93. Original 295009 K/A 2.1.12 changed to Generic 2.1.12, which became question #4, wrote new question specific to system
5	F	2												E	{Bank} Question does not address the REASONS for increased drywell cooling as required by the K/A. <b>Resolution</b> , changed stem to reflect EOP actions taken and asking reasons for actions.

## 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).



[illegible]

[illegible]



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		
52	H	3												S	{Bank}
53	F	2										✓		U	{Bank} Question does not address the <b>AND</b> portion of the A2 K/A Resolution, modified question to address AND portion of A2 K/A.
54	H	2												S	{Bank}
55	F	3												S	{Bank}
56	F	4												S	{New} Licensee identified as comprehensive, NRC as fundamental. Resolution, facility agreed question is fundamental.
57	H	3										✓		U	{New} Question does not address the <b>AND</b> portion of the A2 K/A. Resolution, modified question to address AND portion of A2 K/A.
58	H	2												S	{New}
59	H	4												S	{New}
60	H	4												S	{Bank} Licensee identified as fundamental, NRC as comprehensive. Resolution, facility agreed question is comprehensive.
61	F	3												S	{New}
62	H	2												S	{New}
63	H	2												S	{New}
64	F	3												S	{New} Licensee identified as comprehensive, NRC as fundamental. Resolution, facility agreed question is fundamental.
65	H	3												S	{NRC} Previous NRC from 2/2000 exam.
66	F	2												S	{Bank}
67	F	3												S	{New}
68	H	4										✓		U	{New} Answer does not address the <b>AND</b> portion of the A2 K/A (only 1 distractor addresses the AND requirement) Resolution, modified question to address AND portion of A2 K/A.



[illegible]

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		
82	H	3												S	{Bank} Licensee identified as fundamental, NRC as comprehensive. <b>Resolution</b> , facility agreed question is comprehensive.
83	F	2												E	{Bank} Distractors "c" & "d" weak, only operate if EECW initiates (one but not two). Suggest change "c" to RBCCW closes. Licensee identified as comprehensive, NRC as fundamental. <b>Resolution</b> , 1) facility added RBCCW closes to distractor "c". 2) facility agreed question is fundamental.
84	H	2												S	{Bank}
85	H	3				✓								U	{New} With the stem containing the NO report that the Surge Tank Level reads 4.5 feet & steady, distractors "b" & "c" low credibility. (One but not two) <b>Resolution</b> , modified stem and one distractor to make more credible.
86	H	3												S	{Bank}
87	F	3										✓		U	{Bank} Question doesn't illicit information on AND portion of A2 K/A. <b>Resolution</b> , modified question to address AND portion of A2 K/A.
88	F	4												S	{New} In distractors "b", "c" & "d" capitalize first letter in each and period at end of sentence. <b>Resolution</b> , fixed capitalization.
89	F	3												S	{Bank}
90	H	4					✓							U	{New} Insufficient material/explanation provided to exclude distractor "d"- Uncontrolled Recirc Flow Change. AOP 20.138.01 is titled "Recirc PUMP TRIP" where as AOP on "Uncontrolled Recirc Flow Change" is numbered 20.138.03. Distractors a & b are immediate actions of distractor d. <b>Resolution</b> , changed distractors "a" and "b" to remove conflict and corrected typo in distractor "d".
91	F	3												S	{New}
92	F	4												S	{New} Stem should state MOP06 instead of MOP07, in distractor "c" capitalize first letter. <b>Resolution</b> , corrected typo.

