

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	Backward	Q=K/A	SR O Only			
S1	H	3 N											Y	Y	S	
1/2	F	1 N		X									Y		U	<b>LOD=1</b> The stem tells the operator that there is ten minute limit and that is the correct answer. <i>Changed question to have operator answer what effect the reduced power has on dose and what actions the operator should take.</i>
2/3	H	3 N	X			X							Y		E	<b>STEM</b> Focus better on time for EDG to start and load and all equipment function as design. <i>Stem Revised</i> <b>(b)</b> activation of the timer will not trip the bus. <i>Change to actuation of...</i>
3/4	H	2 B	X			X							Y		E	<b>STEM</b> should clarify one large load or several for one large DC load will not trip charger. <i>Focused stem in accordance with procedure guidance</i> <b>(b)</b> - remove one hour. <i>Removed time limits in all distractors</i> <i>Question changed.</i>
4/5	H	2 B					X						Y		E	<b>(b)</b> could also be correct. <i>No - 27% power no cram arrays</i> <b>(d)</b> which state that BPV operate as designed and the distractor states must be operated manually. <i>Remove TBV from stem or (d)</i>
5/6	F	2 B											Y		S	
6/7	H	2 N				X							N		U	<b>(b)</b> is implausible because county fire control coordinator <b>LOK=F</b> This is a fundamental level of knowledge - when can control be returned to the control room. <b>K/A</b> The question just asks when can control be returned to the control room. <i>Question rewritten - (b) is plausible - LOK = H - K/A Matches</i>
7/8	F	2 N											Y		S	
8/9	H	3 N				X							N	*U / DO NOT COUNT	K/A - Q does not ask about administrative control? <b>(b)</b> - is an implausible distractor <i>Randomly deselected / re-selected K/A - New Question is SAT</i> NRC provided guidance not to reject K/A during development.	

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<b>Instructions</b>																
[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]																
1.	Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.															
2.	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).															
3.	Check the appropriate box if a psychometric flaw is identified: <ul style="list-style-type: none"> <li>• The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).</li> <li>• The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).</li> <li>• The answer choices are a collection of unrelated true/false statements.</li> <li>• One or more <del>than one</del> distractors is not credible.</li> <li>• One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).</li> </ul>															
4.	Check the appropriate box if a job content error is identified: <ul style="list-style-type: none"> <li>• 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).</li> <li>• 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).</li> <li>• The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).</li> <li>• The question requires reverse logic or application compared to the job requirements.</li> </ul>															
5.	Check questions that are sampled for conformance with the approved K/A and those that are <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable).															
6.	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?															
7.	At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).															

\* U / DO NOT COUNT

There were several items that were UNSAT but we did not count them as UNSAT toward the total number of UNSAT for the 20% report count. The reason is as follows:

1. In some cases the license call and asked to change K/A because they could not match. The NRC told Entergy to keep the same K/A. This resulted in an UNSAT and K/A swap after the exam was reviewed.
2. ES 501 section E.3.a, states in part "Note: NRC-validated questions, JPMs, ~~prescribed questions~~, and scenario events that required replacement or substantial modification will not be counted unless the reason for the current unacceptable flaw was caused by the facility licensee since the time the test item was previously approved by the NRC. (For example, the question's reference changed but the question was not revised accordingly.)"

In all cases these questions were corrected before the exam was given.

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9/10	H	1 B											Y		U	<b>LOD=1</b> the applicant must just look at the handout provided and BTU/Hr. Should give him RHR-FPC as well. <i>Question changed to increase LOD, LOD=3</i>
10/11	x F x	3 N											N		U	<b>K/A</b> 1. is refueling accident - if criticality accident is in FSAR then it is ok as an ACCIDENT. 2. Does not address reason. <i>Is part of accident analysis, Question revised to address the reason.</i>
11/12	H	1 B											Y		U	<b>LOD=1</b> This the applicants to review only one leg of the EOPs. <i>Changed to review 2 legs of EOPs, LOD = 3</i>
12/13	F	2 B											Y		S	
S14	H	2 N				X							Y	N	U	<b>(a), (b)</b> are implausible because they will not shutdown the reactor. <b>SRO</b> This is not an SRO only question, it does not meet criteria 5. <i>Question revised to evaluate condition and take appropriate actions.</i>
S15	H	2 N											Y	Y	S	<i>Revised to account for exam overlap with audit exam., initial question SAT.</i>
13/16	H	3 N											Y		S	
14/17	H	2 N											Y		S	
15/18	H	1 B											Y		U	<b>LOD= 1</b> EP-1 is given to the applicants and the answer is worded the same as the procedure. <i>Question revised.</i>
16/19	x F x	2 B											Y		S	<b>LOK=F</b> Should be Fundamental because the question only requires the knowledge of the level at which SRV Tailpipe is uncovered. <i>Changed LOK to F.</i>
17/20	H	2 N											Y		S	
18/21	F	2 N											Y		S	
19/22	F	2 N											Y		S	
20/23	x F x	3 N											Y		S	<b>LOK=F</b> <i>changed to LOK = F</i>
21/24	F	2 B											Y		S	
22/25	H	3 N											Y		S	
23/26	H	2 B				X							Y		E	<b>(b)</b> - is not a plausible distractor <i>Distractor was Changed</i>
S27	H	2 B											Y	Y	E	<b>STEM</b> should also state that bundle integrity maintained? <i>Stem Revised.</i>

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24/28	H	2 B											N		U	<b>K/A</b> states to protect against high radiation, there is no discussion on high temperature. <i>Question modified to address high radiation / Temperature.</i> <i>Increased to LOK = H.</i>
25/29	H	3 N											Y		S	

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S30	H	4 N											N	Y	U	<b>K/A</b> Does not address high reactor pressure. <i>Revised question to address high pressure.</i>
26/31	F	2 N											Y		S	
27/32	H	1 N											Y		U	<b>LOD=1</b> This has a low discrimination ability because all that an applicant has to do is to look at the EOP and pick the numbers that will allow him to spray the DW. <i>Question has been revised to add Torus and DW conditions. LOD=4</i>
28/33	H	2 B											Y		S	
S34	H	2 N											Y	Y	S	(d) Could this also be correct? <i>Based on review (d) was <u>not</u> correct, however, changed (d) anyway.</i>
S35	H	1 N	X				X						Y	Y	U	<b>STEM</b> Add focus to stem. (a), (d) - not plausible. <i>Stem focused and changed (a), (d) to RWR pumps and torus cooling Question Revised.</i>
29/36	H	3 B											Y		E	<b>K/A</b> The question contained correct information but did not reference actual annunciators. <i>Added the annunciators for conditions described in stem.</i>
30/37	H	2 N											N		U	<b>K/A</b> The question does not address the Recirculation Loop Temperatures. <i>Question revised to identify starting a Recirc Pump - reestablish Loop Temperatures.</i>
S38	H	2 N											Y	Y	S	
31/39	H	3 N					X						Y		E	(d) Starting additional Crescent Coolers is not a credible distractor. <i>Revise (d) to be more credible - Revised.</i>
S40	H	2 N											Y	Y	S	
S41	H	1 B											Y	Y	*U / DO NOT COUNT	<b>LOD=1</b> all parameters are 0, ie pump has tripped, very little diagnostics. <i>Added alternate indication of drive water pressure (accumulator low pressure alarms). LOD=2 Do not count for 20% toward report - pulled from INPO bank.</i>
S42	H	2 B											S	Y	S	
S43	F	3 B	X										Y	Y	E	<b>STEM</b> - Stem needs better focus. <i>Revise stem to provide better focus. - Stem Revised.</i>

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32/44	F	2 N				X							Y		U	(a) - what component does the 10600 bus feed in reference to HPCI? (d) - Loss of secondary containment how does it effect HPCI? <i>10600 changed to 10500; changed secondary containment to SGBT.</i>
33/45	F	2 N											Y		S	
34/46	H	3 N											Y		S	
35/47	F	1 N	X										Y	Y	U	<b>CUE</b> Bullet 2 says reactor is shutdown under all conditions, not needed if ARI. <b>Psychometric</b> - question does not provide sufficient counter balance. The applicant only needs to know GREEN to get correct answer. <i>Question has been revised and now need to understand procedure - LOD = 2.</i>
36/48	H	2 N											Y		S	
37/49	F	2 N											Y		S	

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38/50	H	3 B				X							Y		E	(b) should be changed to "not full in" <i>(b) changed to "not full in."</i>
39/51	F	2 N											Y		S	
S52	F	2 N											Y	Y	S	<b>LOK=F</b> Why is H, simple question of what other system uses this tap. <i>Changed to LOK=F.</i>
40/53	H	2 N				X							Y		E	(d) could be correct (TSG-8)? <i>Revised (d) to state from control room - must be done locally.</i>
41/54	H	2 B					X						Y		U	(c) could also be correct. <i>Revised Question.</i>
S55	H	2 N											N	Y	*U / DO NOT COUNT	K/A - actions to take when core instabilities are identified. H - because he must diagnose core instabilities and take action. <i>Deselected and re-selected K/A</i> NRC provided guidance not to reject K/A during development.
S56	H	1 N		X			X						Y	Y	U	<b>LOD=1</b> Based on the print the LOD is 1 (a direct lookup) <b>CUE</b> The print gives the answer away / and also may give the answer away to 40/53. SRO have this reference and RO do not. (d) This could also result in a correct answer / PCI LCO <i>Question revised. No reference needed and now LOD = 2.</i>
42/57	F	2 N		X									Y		U	<b>CUE</b> (a) is the only one that is NOT ABSOLUTE. <i>Distractors changed to obtain balance and remove CUE.</i>
43/58	H	3 N											N		*U / DO NOT COUNT	K/A - Q is on secondary containment, not the PCIS / NQS. <i>Deselect and re-selected K/A.</i> NRC provided guidance not to reject K/A during development.
S59	H	3 N											Y	Y	S	
44/60	H	2 B											Y		S	
S61	H	2 N											Y	Y	S	
45/62	H	3 N											Y		S	
46/63	H	3 N											Y		S	
47/64	H	4 N											Y		S	
48/65	H	3 N											Y		S	
49/66	F	2 N											Y		S	

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S67	H	3 N										Y	Y	S	
50/68	F	2 B										Y		U	<b>Nonsymmetric</b> - K/A is a two part K/A and to correctly answer the question the applicant only has to know that "The breakers can be tripped manually" <i>Revised to make question symmetric.</i>
51/69	H	2 N				X						Y		E	<b>(d)</b> - run at reduced load is not plausible. <i>(d) has been revised.</i>

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S70	F	2 N											Y	Y	S	
52/71	H	2 N											Y		S	
S72	x F x	2 B											Y	Y	S	LOK=F - simple question.
53/73	F	2 N											Y		S	
S74	x F x	2 N											N		S	LOK=F - simple question.
54/75	F	2 N											Y		S	
S76	F	2 N											Y	N	U	SRO 55.43.4 is for radiation hazards, the question does not discuss a radiation hazard, just what approvals are needed. <i>Add approval of release and changed to question on dilution flow</i>
55/77	H	3 B											N		S	
56/78	H	2 N											Y		S	
57/79	H	2 B						X					Y		*U / DO NOT COUNT	(a) is also correct / Better stem focus. <i>Provide better focus in stem to make (a) incorrect. - stem revised.</i> Obtained from INPO exam bank.
58/80	H	4 B											Y		S	
59/81	H	3 N						X					Y		E	(a) is the same basis as (c). <i>(a) has been changed to SDV level alarm</i>
60/82	H	2 B											Y		S	
62/84	F	3 B											Y		S	
61/83	F	2 N											Y		S	
63/85	F	3 N											Y		S	
64/86	F	2 B											Y		S	
65/87	H	2 N											Y		S	
66/88	F	3 B											Y		S	
67/89	F	2 B						X					Y		E	(c) Excessive is a cue, but is the criteria in procedure. <i>Question has been changed.</i>

