

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	F	2	X	X		X	X						X	N	U	One could argue that C is a true statement, as the stem does not specify a procedure or basis to focus the answer. Distractors B and D are not credible because there is no mention of level or pressure in the stem, cuing that these are not the answer. Finally, if this reason comes from the tech spec bases, how is this an RO-level knowledge question? Add "per procedure 2.4RR Reactor Recirculation Abnormal" in stem.
2	F	3				X	X							B	U	Distractor A is not set up like the others (which discuss whether HPCI must remain off or can be restarted). Reword distractor A to be more consistent: add "but can be restarted if minimum battery charge is restored" or similar. Need to edit C to be more consistent with procedure (I don't see where the "from time injection flow reduced" is located – either revise C or provide that part of the reference). Also, from the procedure: If RCIC is unable to perform function, compensatory actions must be taken. Could argue that D is also correct because RCIC is not maintaining RPV level as described in 5.3SBO. Distractor C could be construed as correct because "no later than 15" could easily be thought of as "approximately 10," and its second half is

## 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 B 5 (easy B difficult) rating scale (questions in the 2 B 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 AU@ ratings (e.g., how the Appendix B psychometric attributes are not being met).

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																correct. Add "per procedure XXX" in stem.
3	H(?)	4							X					N	U	Minutia. Don't see the higher cognitive level in this Q. Should probably be an "F."
4	H	3	X			X								M	E	I don't think B is credible. C and D both reference procedures and A and B do not. Add "per procedure XXX" or "per plant procedures" in stem.
5	H	2				X								B	E	Need to revise stem to make it clear the pressure spike was right after MSIV closure and is not indicative of pressure at the 10 minute mark of the question. Otherwise, none of the answers are correct based on TS lift settings. Distractor B does not appear credible. With 221 days of operation, what else could remove decay heat if no SRV was cycling with MSIV's shut? Why is there a difference between the number of valves cycling for Questions 5 and 6?
6	H	2				X								M(?)	U	B and C not credible. Why would the one NOT controlled stop cycling? Essentially same as the original Q. I don't see any significant modification here.
7	F	3	X				X							N	U	Multiple correct answers per explanation. B is also correct because overfill can happen (even though it's a secondary reason, it is still correct). D is also correct because it is means of precluding stratification even if there are other ways to do so. What provides for CRD motor cooling? Add "pump" before "motor" in distractor A. Add "per procedure XXX" in stem.
8	H	2	X			X								M	U	Radwaste not inside drywell, why would someone think closing this would isolate the leak? Add "per procedure XXX" in stem. Distractors C and D align an operable system with a faulted one (do not appear credible).
9	H	2												M	S	
10	F	2												N	S	
11	H	4	X											B	E	Add "per procedure XXX" in stem.
12	H	3				X								B	E	Distractor D not credible. Why would flow increase if backpressure increases without turbine speed change?
13	F	3	X			X								B	E	Distractor B is not credible with the reference provided. I don't think the reference is necessary. Add "per procedure XXX" in stem.
14	H	1	X											M	U	It's a direct lookup with the references as listed. Provide graph 9 but not the EOP3A sections. Add "per procedure XXX" in stem.

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15	H	3	X										X	B	U	K/A mismatch – answer is not on low level AND temperature. Change question to make NPSH more limiting. Also need more information to show calculation for determining overpressure. I did not understand it based on the information provided. NRC 2003. In stem “directed to BOP” should be “directed the BOP.” Add “per procedure XXX” in stem.
16	F	2	X											B	E	Give actual water level in stem, then add “per procedure XXX, what group isolation(s)...” Put a water level in stem that changes the correct answer and make this a modified bank question.
17	H	3	X			X	X							N	E	Distractor A is a subset of Answer B, making it not credible. Need to add “per procedure XXX, when MAY a normal depressurization commence.”
18	H	2				X								N	U	Only answer that isolates offgas is the correct answer – makes correct answer obviously the only plausible distractor.
19	F	3				X	X							N	U	Distractor B is not credible. Distractor D doesn’t make sense as written. How can FW pumps keep operating if DC lube oil pumps only provide lubrication during coast down?
20	H	3	X	X		X								N	U	Stem of Q cues applicant that the problem is with the voltage regulator, rendering distractors A and B implausible (Why would you ask about voltage regulator operation unless the problem is with the voltage regulator?). D is not credible. If the voltage regulator is the one causing the problems, why would anyone want to switch it ON?  Also, stem should not ask “what is causing the above indications,” but “which of the following <i>should</i> be causing the above indications.” Also, what is the relevance of 70% reactor power in stem?
21	H	3	X			X	X							N	U	The first half of this Q asks for a simple location which is better tested on a scenario or JPM; not really appropriate for a written. Also, the second part appears to have no correct answer. The procedure (2.3 B-1) directs a scram if vacuum cannot be maintained greater than or EQUAL to 23”. The stem indicates that condenser vacuum is equal to 23”, at which time a scram would not be required (rapid power reduction more appropriate?). Also, what is the relevance of “full power in winter months” in the stem?
22	F	2				X								N	E	Distractor A is not credible.
23	H	2				X								B	E	Distractor B not credible. How can you have shorter scram times without CRD pumps?
24	F	3	X			X								N	U	Distractor B basically says No ED, while Answer D says anticipate ED. Because these two are opposing, it indicates that one of the two is correct, rendering A and C

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																implausible. Also, add "per procedure XXX" in stem.
25	F	2	X	X		X								M	E	Capitalize ONE, ONLY, and BOTH in answer choices. Reword C and D (delete ; and replace with AND). Where's original bank question? Also, add "per procedure XXX" in stem.
26	H	4	X			X								N	E	Revise second bullet "...due to bundle...". Distractor B not credible. Why would radiation rates go down following an accident?
27	F	3	X			X								N	U	Subset issue with A and C, B and D. Modify stem to add MINIMUM hydrogen concentration. Also change A and C to "...exceeding ODAM limits is NOT allowed..." for clarity. Need to modify stem to ask for the MINIMUM hydrogen concentration that requires action.
28	H	3	X											N	E	In stem, change "does" to "should." Verify correct answer as it indicates the pump will provide flow at its shutoff head(?)
29	H	3	X			X								N	U	Add "per procedure XXX" in stem. There is nothing in the stem that would suggest any temperature indication is inaccurate. The student must assume normal indications unless otherwise indicated in the stem. This renders distractors C and D implausible. Why would the student think there's an indication issue?
30	F	2	X											N	E	Add technical specification required action to stem question.
31	F	2												N	S	
32	H	3												N	E	Delete "RFPT control goes to MDEM." This requires the operator to diagnose the condition and improves distractor credibility and cognitive level of question.
33	F	2		X										M	E	Distractor D contains cuing. It is the only non-MCC answer option. NRC Exam 2014.
34	H	2			X?	?								M	?	Not sure about credibility of distractors A and D. How are 4 breakers causing ½ scram or 2 breakers causing full scram credible? Are distractors A and D stand alone false statements? If so, they could be eliminated without reading the stem at all.
35	H	3												M	S	
36	H	4												B	S	
37	F	3		X		X								B	E	APRM B is an option in all but one answer choice. Distractor B is the only one to not contain APRM B, which is cuing. IRM H is not used as a possible answer choice.
38	H	3	X			X								N	E	Distractor D is not credible. Why would someone choose to make up to the ECST's

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																when action is based on torus level? Revise first part of answers for clarity.
39	H	3		X		X								M	U	Only correct answer credible. Three answers refer to indications while one refers to an actual parameter, which cues the correct answer.
40	H	3	X				X							N	U	Someone could argue about when reactor pressure is < Gr.1 setpoint with switch still in run. Need to clarify in stem that reactor pressure falls after the switch is out of RUN, or A could also be argued to be correct (as if reactor pressure goes down, so does steamline pressure).
41	F	3				X						X?		N	?	Q doesn't appear to test knowledge of surveillance procedures, rather system knowledge regarding SRV's. How does question test K/A? Also C is not credible.
42	F	2				X								N	E	B is not credible.
43	H	2										?		N	?	How does question test K/A?
44	F	2												N	S	
45	H	3	X				X?							B	E	NRC 2012. Description says that distractor D is possible, so why is it wrong? Should probably specify "with no operator action" in stem.
46	H	2					X							M	?	Where in technical reference does it specifically list concern (due to fire)? If it's located in the technical reference, need to add this to the procedure stem to ensure only one correct answer. If not specifically listed somewhere, then the question is Unsat due to two correct answers.
47	F	3	X											N	E	Modify stem to clarify the question is looking for the FIRST item that would trip the diesel. In stem, delete "(no oil flow)" as it provides unnecessary cueing. Also, change "what condition automatically trips" to "what condition should automatically trip."
48	H	3	X											N	E	Add statement that the system is in its normal cooling water lineup since REC is a backup source to B and C pumps. At what pressure do the cross-tie valves fail? In stem, change "what condition automatically trips" to "what condition should automatically trip" and change "what automatically occurs" to "what should automatically occur."
49	F	3	X			X								N	U	B and D not credible. If non-critical loads automatically isolate, why would you need to isolate one? Also, who wouldn't try to start another REC pump when one trips? Also, in stem (1) "how does the system respond" should be "how should the system respond."
50	H	3	X			X	?							N	?	Need more information to determine question suitability. How was the percentage given in the explanation calculated (or did the value come from a specific reference)? Based on the tank volume and % value, I determined the approximate gal per %

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																level. Based on the pump gpm and 20 minute time frame, I calculated 23% level change, not 26%. How was 26% calculated? Either provide calculation or specific reference. Because 26% is the HSBW, then this could be the difference between a SAT and UNSAT question. In stem, change "what is the approximate" to "what should be the approximate." In distractors A and C, can we come up with a better term than "NOT downscale?"
51	H	4	X			X				X				N	U	How is it credible to have a rod block and/or scram while still on scale? Also, per lesson plan, Range 7 should be the (0-40) scale, not the (0-125).
52	F	2				X								N	E	Distractor B is not credible.
53	H	3	X											N	E	In stem, change "is the effect" to "should be the effect."
54	F	3	X											N	E	In stem, change "is the flow" to "should be the flow."
55	H	3				X								N	S	Q is probably OK but poorly structured. When you have cascading distractors, the correct answer is invariably somewhere in between the two extremes (distractors A and D), which is the case here.
56	F	1		X										N	U	LOD = 1 due to the stem providing the answer. The stem asks about recirculation and the correct answer is the only answer that refers to recirculation.
57	F	2												N	S	
58	F	4												M	S	
59	H	3				X								N	E	Distractor A refers to torus spray when the question is asking about drywell temperature and is not credible. Why would anyone pick A over B?
60	F	2				X								N	U	If there was no time delay, the question wouldn't be asking about it. This renders distractors A and C implausible.
61	H	2		X		X								N	U	Question 63 states in its stem that reactor pressure is 980 psig with the plant at 65% power. This question states in its stem that reactor pressure is 940 psig at 25% power. This cues the applicant that reactor pressure is greater than 980 psig at 100% power. This renders distractors A and C (reactor pressure 958 psig at 100% power) implausible.
62	H	3				X								N	U	Distractors A and C not credible. An isolation valve going closed means isolation. So why would an operator think that isolating a feedwater heater would cause temperature to go up?
63	F	3												N	S	Note that the stem of this question answers half of question 61, rendering that question UNSAT.

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64	H	3										X?		N	?	Need more information to understand system operation. When does the 15 minute time delay occur and when does it not? The explanation section is not clear. How does this question match the K/A?
65	F	2	X			X								N	U	In stem, change "does" to "should." None of the answers make any sense except the correct answer. In distractor A, why would dampers ever auto open on a fire? Distractor C appears to be a normal ventilation lineup with no fire. In distractor D, why would supply fans continue to run with dampers isolated? Three implausible distractors.
66	F	2				X								N	U	Distractor A and B not plausible. Why would you remain at the valve unless you needed to be there to close it? Also, C and D aren't grammatically correct (should be close the valve in event of an accident when instructed or similar wording).
67	F	3												B	S	
68	F	3	X	X		X								N	U	How is Distractor D credible? Also, the three distractors are temperature readings while the answer is a pressure indication, cuing the correct answer. Switch "indication" and "location" in stem.
69	F	3												N	S	
70	F	3												N	S	
71	F	2	X											N	?	Need technical reference to fully evaluate question. Reword beginning of stem to read: "Which of the following is the LOWEST accumulated dose ABOVE which...". Also capitalize REQUIRED. Add procedure reference to stem.
72	F	2		X		X								B	U	Distractor A is the only one without a monitor scan in it – cuing. Also, a whole body frisk is the same thing as a whole body scan, making B and C basically the same, leaving D as the only plausible answer.
73	F	2												N	?	Make question more discriminatory by making the dose rate at 1600 mrem/hr and asking if RPM (designee) approval is required. Is an SWP also considered an RWP? Because if so, then there's multiple correct answers.
74	F	3	X											N	E	Add "per procedure XXX" in stem.
75	F	2	X											N	E	Add "per procedure XXX" in stem.
76	H	3	X			X							X	N	U	There is nothing in the stem to indicate that there is anything that may be time critical (i.e. non-complicated automatic scram). Distractors B and D would therefore be implausible.

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77	F	3	X				?						X	M(?)	?	Distractor D and answer C are out of order. Also, there are directions on swapping heat exchangers using 5.2SW, so what would make D incorrect? Although entry criteria are not met, the overall administrative guidance specifically states that the entry criteria are not all inclusive and can't cover every situation, so why couldn't the SRO choose this procedure and the step to swap HX's to combat the transient? Also, this looks like the same question from the 2011 exam (I don't see any substantive modification). Need to review modification guidance in NUREG-1021.
78	H	3				X	X						X	N	U	If the entry condition for IA pressure loss was required at 84 psig, then it would also be required at 75 psig. That means if 84 psig was the required entry condition for IA pressure loss, then there would be multiple correct answers. This eliminates 84 psig as a possibility, and therefore renders distractors A and C implausible.
79	H	?3											X	B	?	Was the EAL sheet allowed as a reference on the 2011 exam? Because this question appears to be a direct lookup with the reference as provided.
80	H	3				X							X	N	U	Written exam questions typically do not ask about procedures that are not applicable. Therefore, distractors B and D are not credible. Why would anyone pick no if the stem specifically asks about a procedure?
81	H	3	X			X							X	N	U	Written exam questions typically do not ask about procedures that are not applicable. Therefore, distractors C and D are not credible. Why would anyone pick no if the stem specifically asks about a procedure? Eliminate "one" from the stem.
82	H	3	X	X									X	N	?	Need to reword stem because pressure could have gone <68psig. We only know for sure that it went at LEAST that low (could have gone lower though). Need the TRM and bases to finish evaluating question. TRM 3.11.2 should not be needed to answer this question (eliminate reference). In stem, capitalize "MINIMUM."
83	H	1	X			X							X	N	U	Eliminate "one" in stem. Direct lookup with tech spec reference 3.4.10 provided and therefore is LOD = 1. Also, this question is fundamentally flawed. The stem has reactor pressure rising at 5 psig per minute. The stem also asks what would happen if "these conditions persist." If reactor pressure continued to rise at 5 psig per minute, it would be 3675 psig by 2034 (safety limit is 1337 psig). Therefore, the reactor would have automatically tripped and would have been in Mode 3 long before any of the distractor answers.
84	H	3											X	N	S	
85	H	4											X	N	S	
86	H	3	X										X	M	E	What is RHR pressure with the pump operating? Need to add this to the explanation to show why the fire protection won't inject under these conditions.



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																In stem in (1) change "is" to "should be." In (2) change "is" to "would be procedurally."
87	H	4											X	N	S	Probably OK – but open reference tech spec questions are normally evaluated on requalification written exams and during initial exam scenarios (or in some cases an admin JPM). These type of questions should be used minimally (or best case not at all) on initial written exams.
88	F	3	X			X	X						X	N	U	Subset issue – Per the question stem, it only asks for required TS actions. One doesn't just enter the most restrictive TS, but also all applicable TS's. This TS also allows separate entry for each condition. So, for an IRM inoperable, would always enter Condition A for that monitor. If required, condition B would also be entered. So if C was true, A would also be true, eliminating C as an answer (same is true for B and D). Also, the explanation section is incorrect. If the IRM was in a different train, then each train would meet the minimum number of operable channels (3) and no TS entry would be required.  This Q essentially asks if IRM A and IRM G are in the same train. The tech spec portion is simply a direct lookup if TS 3.3.1.1 is provided to the applicant. Eliminate providing the tech spec reference.
89	H	1	X			X							X	N	U	No indication in the stem that actions were taken to stabilize the transient at the provided levels. In that case, without operator action, the trip setpoint could be exceeded prior to the TS allowed outage time expiration (no quantifiable rate increase provided). Also, by providing the TS, this becomes a direct look-up with an LOD = 1.
90	H	1	X	X		X	X						X	N	U	Reword (2) in stem to delete first required. No need to determine applicability as stated in explanation because only 3.8.1 provided. Per TS, one doesn't just enter the most restrictive, but all applicable action statements. Therefore, one would enter both Conditions A AND D, making B(2) and C(2) also correct, as it is a required TS action (just not the most limiting). Also, the applicant is told in the stem that the diesel is inoperable. It's not credible to think the applicant would not identify this as it's given in the stem. Finally, with the TS provided as a reference, this would be a direct lookup and thus LOD = 1.
91	H	3	X										X	N	E	Reword stem for clarity. I had to read the explanation section and the procedure to figure out just what the stem was even asking. At the least, replace "performed" with "tested". Eliminate "one" in stem.
92	F	3											? X	N	?	How is this SRO level knowledge? The first part of the question can be answered with system knowledge and the second part is an immediate operator action, which RO's are required to have memorized. Even though the question references the ARP specifically, it's the same as the AOP immediate operator action and thus the RO should also know the immediate scram RX level. Also need to reword answers to

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																more closely match procedure step 4.3.2.
93	H	3	X			X							X	N	?	Need technical reference to evaluate question. Also add "and" to first bullet of stem. In stem, (1) should read "What should be the CRS' response."
94	F	2	X			X							X	N	?	Need references to evaluate question. Also, clarify where the 4 shift requirement is coming from. The CFR does not require 4 shifts, it requires a minimum number of hours, spread out however. Provide the procedure reference in the stem. Eliminate "one" in stem.
95	F	3	X				X?						X		?	Need references to evaluate question. Add "per procedure XXX" in stem. Put "REQUIRES" in caps in stem. Is the refueling floor inside the refueling area? If so, distractor B is also a correct answer. Does the refuel floor supervisor have the authority to deny someone under vessel access if he/she deems it unsafe? If so, A is also correct.
96	F	3	X										X	N	U	Per 3.4.4 Step 4.1.3, a "...timely 10 CFR 50.59 <u>should</u> be performed...". Should is not shall, so per procedure, it could go past the 90 days without violating the procedure (not a requirement). The only requirement has to do with if the TASM is expected to last longer than 90 days, then the 50.59 shall be done before the TASM is implemented. Add "per procedure XXX" in stem.
97	F	1	X			X							X	N	U	Even a less than minimally competent operator could recognize that SRO's care about power reductions and not parts availability. B is also not credible, leaving A as the only credible value. This question then does not discriminate between a minimally competent and less than minimally competent operator and is UNSAT. Eliminate "one" from stem.
98	F	2										X	X	B	U	This is supposed to be a Generic Tier 3 question, but this question uses system specific knowledge to answer the question, making it an extension of Tier 2. See NUREG-1021 ES-401 D.2.a. This, therefore, does not match a Tier 3 K/A and is UNSAT.
99	F	2	X										X	M	E	Eliminate "AND" from stem. I don't see the relevance of the "alert" information in the stem.
100	F	2	X			X							?	M	U	Need reference (O-EN-HU-106) to evaluate question. A and C are not credible, as by its name, an EOP would seem to have precedence. Also, the bank is Q43 on the 2011 exam, so how is this question SRO level question when it was considered RO level in the past? Also, eliminate "one" from stem.
<b>RO TOTALS:</b>			B= 13		F= 38		E= 27		Additional Notes: 8 Questions need more information to determine whether SAT or							

	M= 12 N= 50	H= 37	U= 27	UNSAT.
<b>SRO TOTALS:</b>	B= 2 M= 4 N= 19	F= 10 H= 15	E= 3 U= 12	Additional Notes: 7 Questions need more information to determine whether SAT or UNSAT.

**GENERAL COMMENTS:**

- Bank questions are indicated by **B**; Modified are indicated by **M**; New questions are indicated by **N**
- Chief Examiner comments are indicated in *blue*.
- Average difficulty is 2.64\_\_\_ on the RO exam and 2.58 on the SRO exam.
- The 10CFR55.41/43 distribution is: RO / SRO
 

41.1 = 0	43.1 = 0
41.2 = 0	43.2 = 6
41.3 = 0	43.3 = 1
41.4 = 1	43.4 = 1
41.5 = 11	43.5 = 16
41.6 = 2	43.6 = 0
41.7 = 32	43.7 = 1
41.8 = 3	
41.9 = 1	
41.10 = 21	
41.11 = 1	
41.12 = 2	
41.13 = 0	
41.14 = 1	
- The answer distribution is: RO / SRO
 

A = 21 (28%)	/	6 (24%)
B = 18 (24%)	/	6 (24%)
C = 19 (25%)	/	6 (24%)
D = 17 (23%)	/	7 (28%)
- There are 12 questions with attachments provided.