

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content			5. Other		6	7	Ans Letter	CFR	8
Q#	(F/H)	(1-5)	stem focus	cue ing	T/F	cre d dist	part	jo b lin k	# / un its	ba ck- w ar d	K/A	SRO-only	B/M/N	U/E/S	A/B/C/D	55.41x55.43 y	Explanation
1	H	2											N	S	A	41.7	
2	H	3		X		X							N	U	B	41.5	C and D not plausible. Stem cues that gas is not explosive (nitrogen blanket). Also distractor A - why would anyone believe that raising RCS pressure would get rid of nitrogen? Remove "nitrogen" (alternate shutdown supply)
3	F	2											N	S	A	41.10	Discuss why >LOD=1 consider changing or add obj that's RO knowledge. Added pages from lesson showing required RO (objective) knowledge for question.
4	F	2.3				X							N	E	B	41.7	Distractor D - why would anyone think that one would have to close a containment suction valve in order to open a containment isolation valve? Change to 9001A and 4 distinct answers
5	H	2.7				X							N	E	C	41.7	Being only 5 psig away from opening PORVs seems a little far-fetched (A and B). Discuss a better false setpoint. Change initial pressure (350 psig), and remove pressure in question. Now rising at 5 psig/min.
6	H	2.3											N	S	D	41.7	
7	H	2.3											B	S	D	41.7	ON LAST TWO NRC EXAMS. Beaver Valley Event
8	F	2											B	S	D	41.8	
9	H	3.7	X			X							N	E	D	41.7	Put ONLY in caps in stem. How is A plausible? It's the only one in just one distractor and why would anyone think it would open when its associated channel failed low? Cap ONLY (only) ensure explanation shows why 474 could still open.
10	F	3											B	S	C	41.2	On previous NRC exam.
11	H	3											N	S	A	41.2	
12	H	3.3											B	E	B	41.7	On previous NRC exam. Change the break to inside containment, change correct answer, and make modified bank. Go back to original. Comment deleted.
13	H	2											B	S	D	41.7	
14	H	2											N	S	B	41.7	
15	H	3.7											B	S	C	41.7	On previous NRC exam. Testing same concept as question 28 (replace one or the other). Changed KA (too Close to other) to 026 A4.01 (4.5). Updated ES-401 form (rev 2) and replaced question (now a new question)
16	H	2.3											M	S	B	41.5	Need to see original bank question that was modified (didn't see it in the question 16 reference). Include question. Updated references to include bank question.
17	F	2											N	S	B	41.7	
18	H	2.3											N	S	C	41.4	Discuss why >LOD=1 Based on calculation. Greater than 2
19	H	2.3											B	S	C	41.7	On previous NRC exam. This question is essentially just asking "which SG's supply the TDAFW pump?" Why is this >LOD=1? Remove bullets up to steam pressures, change to 500 psig for 2 and 3. Question ok
20	H	2.7											N	S	C	41.7	
21	H	2.7											B	S	C	41.7	On previous NRC exam.
22	H	2.7											N	S	B	41.10	Explanations for C and D specify that the reactor must be tripped before RCPs, which is what 3) is doing? Discuss. Revised C and D explanation. Added 12 kV to 1) and 2) for clarity
23	H	2.3											N	S	C	41.7	Please justify why this is >LOD=1. ok
24	F	2		X		X							B	S	C	41.8	On previous NRC exam. Please explain how A and B are plausible when the question cues that there is a redundant air receiver? Comment deleted.

25	H	2.7		X		X								B	E	A	41.11	On previous NRC exam. Two out of four distractors have "lower," cueing that "lower" is probably in the correct answer. Prefer to have two "rises" or "remains the same" - maybe rise due to the Xenon transient? Discuss. Modified per comment.
26	F	2												M	S	D	41.4	On previous NRC exam.
27	H	2.7												B	S	B	41.7	On previous NRC exam. Consider changing pressures in stem to change correct answer to make this a modified bank question. Deleted comment.
28	F	3												N	S	D	41.7	Discuss in greater detail plausibility of why one would think the two signals would reset differently. Testing same concept as question 15 (replace one or the other). Added cont pressure (10 psig) and changed question 15
29	F	3.3												B	S	C	41.10	On previous NRC exam.
30	H	2.7												B	S	B	41.2	On previous NRC exam.
31	H	2.7												N	S	A	41.1	Explicitly state in explanation when fuel conditioning is no longer a concern, i.e., To be conditioned at a given power level, the plant must have operated at or above that power level for at least 72 cumulative hours out of the last 7 days (168 hours) modify as stated.
32	H	2												N	S	B	41.10	Discuss how first half of K/A met (predict the impact) change C to LHUT (spell out), KA is ok. Added LHUT, spelled out the names
33	H	2												B	S	C	41.1	On previous NRC exam. Discuss why >LOD=1 OK
34	H	2					X							B	E	C	41.5	On previous NRC exam. 2ND part not discriminatory, previous question already states that increasing steam flow will add positive reactivity = power rise. Also not discriminatory to think constant Tave causes a reactor power change with all else equal. 1st part ok. revisit!! (second half needs work) changed second half to indicated steam demand
35	H	3												N	S	A	41.5	Consider adding "initially" after "Pressurizer level ..." if this keeps it correct. add to before pressurizer level
36	F	2.7												N	S	D	41.5	
37	F	2.3												N	S	A	41.7	
38	F	2.7		X		X								N	S	B	41.7	1. and 2. are the only choices that appear in three out of four distractors. The only choice that has them both is the correct answer. Question can be answered correctly without reading the stem. Deleted comment. Question is SAT
39	H	2.7												B	S	D	41.5	ON LAST TWO NRC EXAMS.
40	F	2	X											N	E	B	41.8	LMCDFRC procedure page 27 states that there is still a small probability of LBLOCA creating an ICC condition. Recommend change part 1) to "... is assumed to have the greater probability to cause an ICC ... ". Is "RVLIS level below the top of the core" exactly equivalent to "RVLIS Full Range < 32%"? If no then make the question verbiage match EMG-F-0.2. revised question wording. underlined "direct" in second half
41	F	2.7												N	S	D	41.5	Discuss why this is not SRO only. Add to explanation that is RO knowledge, expected for the station, ensured RO objective. Enhanced writeup for RO knowledge.
42	H	2.3	X											N	E	B	41.6	Is the controlling VCT level instrument selectable between LT-112/LT-114? Or is that function hard-wired to LT-112? Modify the stem to, "When checking VCT level, which of the following would be expected to cause the observed indications?" revised per comment.
43	H	2.3	X											B	E	C	41.5	On previous NRC exam. In stem, add "under these circumstances, which..." Two distractors have dump steam in them flagging dump steam as probable correct answer. Distractor D not plausible as LOD=1 knowledge that steam dumps can't be used with MSIV's closed. Changed D to bleed and feed. "FEED AND BLEED" update question as requested.
44	H	3												N	E	C	41.7	Capitalize FIRST in stem. Revised as requested.
45	H	3												B	S	D	41.7	
46	H	2.3												N	E	D	41.6	too similar to senario 2, event 6? Ok comment deleted.

47	F	3													N	S	D	41.14	Please walk through with steam tables and explain why wrong distractors plausible. Discusse, however, make explanations about 510F match (numbers are not the same). Updated explanation for pressures to match.
48	F	2.3													M	S	A	41.7	On previous NRC exam. Justify LOD. Now a modified question. Test adverse containment setpoint.
49	F	2													N	S	A	41.5	
50	H	2.3													N	S	B	41.8	changed bus undervoltage to loss of bus to avoid potential multiple answers
51	H	3				X									B	E	B	41.7	On previous NRC exam. Two distrators have 100% in the second half, flagging 100% as a probable correct answer. Rearrange to make 2X2. change A to 30%
52	F	3.3	X			X									N	E	A	41.7	Only 1) appears in two distactors, making it stand out as correct. 2) is to vague - loss of control of what on a diesel? Made stem more specific and distractors more even. Change second bullet, D explanation enhanced
53	H	2.7													B	S	D	41.8	On previous NRC exam.
54	H	2.3													B	S	D	41.7	ON LAST TWO NRC EXAMS.
55	F	2.7													N	S	C	41.10	Discuss why this is not SRO only. Why would trying to find the source of the LOCA be a wrong thing to do? Add comment about being RO knowledge. Revise second question
56	F	2													M	S	D	41.7	On previous NRC exam.
57	H	3.7													N	S	C	41.1	Provided the referenced document LTAA 5.
58	H	2.3													N	S	D	41.2	
59	H	2.3													N	E	A	41.2	Add "and RX maintained critical" to distractor B to align with other non-trip distractors. Is maintaining the reactor critical really "terminating" the startup? Best to include "The startup will be suspended" to Dist B and D and "The startup will be terminated" before A and C. see change writeup, make B and D read the same
60	H	3.7				X									N	U	A	41.4	Distractors C & D easily eliminated as reactor power could not be determined with the given information if reducing turbine load were correct. Replaced (modified for current op req) with DCPN NRC exam L111 Q58, 11/2012. (direct manual trip...) - add attachment as provided reference.
61	F	3.7	X			X									B	E	D	41.1	On previous NRC exam. Distractor B does not answer the question, i.e. nothing is "done." Revised stem (which of he following ensures...). Discuss why this is not SRO only. Revised B and question.
62	H	2.7				X									N	U	D	41.5	Don't see why anyone would select A or C. Who would want to risk a main steam isolation when cooling down to inject accumulators? Revised A and C w/100F/hr cooldown rate
63	H	3.3													N	S	D	41.7	
64	F	3				X							X	U - B	S	A	41.10	EOP Background document knowledge is typically SRO only. Also "dilution of containment sump" does not appear to be a plausible distractor (B & D). Replaced with DCPN NRC exam question 63 from 11/2012	
65	F	2.7				X									N	E	B	41.5	Need better explanation as to why D is also not correct. Discuss why not SRO only. Move to allowable action during soak for part 2
66	F	2				X									N	U	D	41.10	A & C not plausible. No one would believe the shift manager does not need to be notified if shift staffing requirements cannot be met. Changed U2 SFM to Ops Manager
67	F	2													B	S	C	41.1	On previous NRC exam.
68	H	2.3									X			N - B	E	D - B	41.5 41.10	K/A mismatch. Question is asking for how chemistry is maintained vice asking what chemistry limits are. Answer in response to the K/A is in the stem. Resample? Resampled - G2.1.15. Bank L121 Number 67	

69	F	2				X										N - M	E	A	41.10	in stem add "at a MINIMUM how often..." Distractor B "daily" could be interpreted as the same thing as once per shift (i.e. if I am on watch that week I would do it daily) Also please explain why distractor D is credible. Possible improvement might be Replace B and D with a second part of the question, "At the discretion of the operations manager, valid annunciators which remain in alarm greater than (15/30 days), (at a minimum), may be defeated in accordance with OP1.DC24." Verify this is expected RO knowledge. made into 2 part w/Ops/Maint for defeating alarms and review done assuming watch as weekly
70	F	1.5				X										B	E	B	41.10	On previous NRC exam. Per instructions, only questions with an LOD between 2 and 4 are acceptable. Changed to 2.0. should be E
71	F	2.7														B	S	B	41.5	
72	F	2														B	S	C	41.11	ON LAST TWO NRC EXAMS.
73	F	2														B	S	B	41.12	On previous NRC exam. Change 4750 to 5000? Discuss. Explanation should specify "declared" pregnant worker. Changed d to 5k and "declared" in explanation
74	F	2				X										B	E	D	41.10	On previous NRC exam. If an operator is doing 3 then they are automatically doing 4. Correct answer obvious (LOD=1) change 4 to bullet number 4 from procedure. Should be E, previous exam question
75	F	2	X													B	E	C	41.1	On previous NRC exam. Would be better to use a diamond in the stem and change the correct answer to A. That way the questions can be made a modified bank. Make the example in parentheses a little clearer. Maybe use an actual step. Replaced with DCCP NRC exam 03/2012 DIAMOND question
76	H	3														B	S	B	43.5	On previous NRC exam.
77	H	3														B	S	C	43.5	On previous NRC exam.
78	H	2.5				X	?									B	E	C	43.5	On previous NRC exam. Distractor D does not appear plausible as it would be difficult to believe one would ever enter E1 from FRS.1, especially with no defined leak rate. Too similar to Scenario 2? Revised distractors A and B to exit and go to step 1 or step 5 of E-0 and D to match C but go to step 5 vice step 1 of E-0
79	F	2.5					?									B	E	B	43.2	On previous NRC exam. Appears to test same event that occurs in scenario 1? Ok as written
80	F	2				X										N	U	B	43.5	LOD 1 knowledge for SRO to understand that one does not leave ECA-0.0 until some kind of power is restored (A & C implausible). Also, as written both B & D are correct. revised stem and distractors and updated references
81	H	3.5				X	X									N	U	C	43.2	Please explain how this is not a direct lookup, and even if it isn't, it appears that the 230Kv line is inoperable for all conditions listed in the reference when below 229Kv? look to raise 230 kv but still be inoperable. Revised question.
82	H	3	X													N	E	D	43.2	Change "be undercompensated" to "read abnormally" in the stem. A loss of compensating voltage causes to Intermediate Range channel N36 to be undercompensated occurs. Changed to just "lost compensating voltage"
83	F	3														N	S	D	43.2	
84	F	2														N	S	A	43.2	
85	H	2				X										N	U	D	43.5	Distractor B - when would an operator ever be required to enter an FR and then terminate it based on judgment? Distractor C- when would an operator have the option to enter an FR and then not be allowed to exit??? Changed question setup and answer to determine the rad monitors used and requiring knowledge that it is a yellow path and rules of usage.
86	H	3				X										N	U	A	43.4	I don't think the station director is even licensed, making distractors B and D implausible. Need to modify to get rid of obviously correct shift manager portion. Need to revisit. Changed Station Director to Emergency Director
87	H	3.5														B	S	D	43.5	On previous NRC exam.
88	F	2.5				X										N	U	A	43.1	It's LOD 1 knowledge that only a single train of ESF equipment is necessary to mitigate an accident, rendering distractors C and D immediately implausible. changed CFCU for B and D.
89	F	3														B	S	C	43.2	ON LAST TWO NRC EXAMS
90	F	3														B	S	C	43.2	On previous NRC exam.

91	H	3												B	S	B	43.2	On previous NRC exam.
92	H	3	X	X										N	E	B	43.5	inactive is a synonym of stagnant. Need to delete inactive from the stem or steamed to replace inactive modified as noted above.
93	H	2.5				X								B	S	C	43.1	On previous NRC exam. Distractors B and D not plausible, as an NRC exam would not be concerned with a state discharge permit. Change to Technical Specifications? Comment deleted. No change. Should be S
94	H	2.5	X			X								N	E	A	43.3	Change second half of stem to ask the MAXIMUM time allowed to notify the NRC is...; then change answers to be either one or two hours. Change to 4 hours (not 2 hours) changed to 1 or 4 hours
95	F	2												B	S	A	43.7	ON LAST TWO NRC EXAMS
96	F	2												N	S	D	43.3	
97	F	2												N	E	A	43.5	Change time to four days to make WWM more plausible. Need to dig deeper into emergent work (definition) changed distractor from WMM to Duty Team Station Director
98	F	2.5												B	S	A	43.4	On previous NRC exam.
99	F	2				X								N	E	C	43.5	Make the magenta path heat sink and the red path in integrity to make the question a little more challenging. Symptom based and replace 4 kV, (ie afw = 400 gpm, nr offscale) changed to symptom based answers, removed loss of all AC and adjusted C and D for clarity.
100	H	2.5												N	S	B	43.1	