

The first set of data is for the draft exam review and the second set of data with all Sat questions is the final product as given.

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Ans Letter	CFR	8
Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	A/B/C/D	55.41 55.43	Explanation
																		General Comments 1. LOD is 1, 2, 3, 4, 5 (no in between in NUREG) 2. Be careful with Graphics (FAQ discourages use) 8 questions on this exam with them and a few were not required 3. Be careful with Tier 1 and Tier 2 questions. Most of the time you can separate the two out in the stem of the question by how you ask the question (see below for details)
1	H	3												N	S	B	7	
2	F	3												N	S	B	7	
3	F	2												N	E	A	10	Distracter wording for part 1) should be 1) are all or 1) are NOT all. This may cue a leter question for PZR level instruments. Licensee going to write new or get bank question
4	F	2												N	S	D	2	
5	H	3												N	S	D	10	
6	F	3												N	S	C	5	
7	F	3												N	S	C	8	
8	H	3												B	S	B	7	2016 NRC
9	H	3												B	S	D	7	
10	H	3												B	S	B	11	2016 NRC
11	F	2												B	E	A	5	would be better to expand A into other distracters to include how much decay heat (4% power) and when (30 minutes from trip). This is the fundamental design flow and setup for AFW. These may not be exactly your numbers but you get the point. Licensee going to fix distracter D.

12	H	2												B	U	B	5	2012 NRC. C and D are not credible. When would a pipe receive steam/water and its temp go down? Also, this question is not the spirit of the KA. It is wanting to know how sensors and detectors are affected by a vapor space event (ie the ref leg heats up, flashes, affects the indicated level). Other KAs address this topic quite well. Licensee will fix this.
13	F	2												N	E	A	7	Distractors B2 and D2 are not credible. There is no info in the stem on loss of power. Also, this question does not meet the spirit of the KA. What sump level instrument do you monitor during a SBLOCA? It isn't the two you have in this question because they fail. You could just ask which sump level do you monitor ? A. LR-XX B. LR-YY C. LR-60 D LR-61. Licensee will make suggested fixes.
14	F	2												N	E	A	5	this is an fundamental question not higher order. Change worksheet. Also, you can put the LOD number in the space where you have the X for Mem/Fund and it saves time and space.
15	F	2												B	S	C	7	2012 NRC

16	H	2												N	E	C	5	stem could be trimmed down tothe following indications below (get rid of seal 2 and same on all RCPs). Second, the name on the tag and valve in the display picture do not match the name of HCV-142 in the stem. Only one can be correct. To simplify this question, use A. clockwise to increase seal injection flow B. clockwise to lower seal DP C. counterclockwise to lower seal DP D. counterclockwise to increase seal injection flow. D is now correct. Simple 1 X 4 and straight-forward. Licensee will make suggested fixes.
17	F	2												B	E	A	2	NRC 2009. If OE for DC is vortexing then ask vortexing question not cavitation. Also, is there a cav. pump on any scenarios? Licensee will make it a vortexing question to match OE.
18	H	2												N	U	C	7	KA mismatch. Where is the malfunction for the PZR PCS? Also, this is really a power supply question as written for part 1. For part 2 it is testing the interlock at 17%. Licensee will make repairs so that it is a malfunction not ps question.
19	F	2												N	E	C	6	What makes the 100 foot level credible? Affects A1 and B1. Licensee will add credibility to explanation for 100 ft level.

20	F	1												N	U	A	6	Cueing. You have bullet info for blocking SI circuits complete in the stem and answer is prevent unblocking SI. Easy fix is to remove the "maintaining RCS pressure less than 1865 psig" from the stem and put the actual KA words "cycling HPI/PORV" in the stem and answer A would be to control pressure < 1865 psig. Also minimize subcooling is not credible for C. Could put something like stabilize RCS temperature? Licensee will make repairs to eliminate cueing.
21	F	3												B	E	D	5	2016 NRC Cut/paste error on answer D in lower section. Text is incorrect.
22	H	3												M	S	C	7	
23	H	3												M	E	A	7	Are the labels on the picture the actual labels on the panels? Distracter B is not credible w/o other stem conditions to give it credibility. Worksheet correct answer discussion needs work (drops to zero amps....). Licensee is working on this one.
24	F	2												N	U	B	10	meeting the KA for operate/monitor ASW service water TEMPS? Licensee will come up with panels and instruments used to monitor this since is sea water temp basically.
25	H	3												B	E	C	7	2016 NRC Change C distracter to remains the same for fail as is valve credibility. Licensee will make the suggested change to C.
26	H	3												N	S	C	5	

27	H	2												B	S	B	10	NRC 2011 REFERENCE NEEDED
28	F	2												N	S	D	10	
29	H	2												N	S	A	5	
30	H	3												N	E	A	7	NUREG states to avoid adding other equipment into the topic/question when possible. If you just ask the PS for the BAMU pumps you will have it. You could do a Unit 1 and Unit 2 table with BA1-1 and BA 1-2 being A. F and G or B. G and H and BA 2-1 and BA-2-2 being C. F and H or D. G and F and whatever combos you use make sure only one is correct. With the question you have and only two pumps it doesn't seem credible to have both BAMU pumps (see B and C distracters) with a loss of one safety bus. Licensee is making suggested changes.
31	H	2												N	E	A	10	Licensee will make mods to the stem.
32	H	3												N	E	C	5	Need according "to" the entry conditions (missing to) in the stem. You have written this as a Tier 1 but you might be able to write it as a Tier 2 by having a surveillance going on and ECCS header ruptures (ie what do you see and how do you mitigate this condition?). Licensee says it is not reasonable to make that change for this KA so they will add verbiage that this KA must be written to include LOCA for ECCS header evaluation. No KA change, accept as is.

33	H	2												B	E	D	7	2016 NRC If D is correct you have to mark it correct in the worksheet. All four choices are INCORRECT as marked in the worksheet. Licensee will fix this issue.
34	F	3												N	E	C	7	A1 and B1 are not credible. I would suggest this: A. prevent flashing in CCW piping during LBLOCA only B. prevent flashing in CFCU during LBLOCA only C. prevent water hammer in CCW piping during LBLOCA coincident with LOSP D. prevent water hammer in CFCU during LBLOCA coincident with LOSP. Answer is C. Licensee will make repairs by removing A1 and B1 and using more credible setup as suggested.
35	H	1												B	U	A	7	2014 NRC LOD=1. It is a PORV, it relieves pressure. You could ask what is the SP (415psig and one or both open, or 435 and one or both open). Could ask what is logic for press instruments. Licensee will make repairs as suggested.
36	H	3												B	S	A	7	2016 NRC
37	H	3												B	E	C	7	2016 NRC The PZR level channels are used in a previous question-overlap-use a different RPS circuit to base this question. Licensee looking at new question for Q3. Will check overlap then.
38	H	3												N	S	A	7	
39	H	3												M	S	C	7	

40	F	2												N	E	B	7	1 is not credible. To better serve the KA on the isolation, use RM-12 and RM-44 as your RM choices and close different sets of valves (purge exh and purge supply). That creates a balanced 2 X 2. Licensee will make suggested repairs.
41	F	2												N	E	B	10	written as Tier 1 question. Easy to fix. Could ask how is RHR (ECCS) connected to CSS? A. upstream of 9001A/B B. downstream of 9001A/B C. suction of CSS pumps D. downstream of 9003A/B answer B. Licensee has easy fix for this one.
42	H	3												B	S	C	7	NRC 2018
43	H	2												B	S	B	5	NRC 2018
44	H	2												N	U	B	7	C and D not credible (could use dp or inst failure). Also, if we have this type of failure on scenarios then we shouldn't use graphics on this topic. Licensee will make the trend down to be different than scenarios as use dp for C1 and D1.
45	H	2												N	E	D	10	Distracter credibility. For distracter B is it no flow because MFW or AFW level control valves willA is not credible either. How could a safety system not work (AFW) for the SG when the non-safety (MFW) does? Is this a failure on the op test? Licensee will make repairs by using the AFW flow control valves and median select mode in the question.

46	H	2												B	E	B	7	<p>2019 NRC</p> <p>I had to use a mag glass to read the labels. Are you giving them a bigger picture of this? It isn't needed anyway and NRC FAQ discourages frequent use of graphics on the written exam. Why not just ask which if the following switchyard breakers can be operated from the control room? A. B. C. D. and pick only one that can be and three that can't be operated but maybe they can be monitored. Licensee agreed to fix to something more straightforward with breakers than can/can't be operated from CR that are switchyard breakers.</p>
47	F	2												B	S	B	8	<p>2019 NRC</p>
48	H	2												B	U	B	10	<p>2018 NRC</p> <p>This question appears to be reverse logic. The KA is predict impact ON DC Electrical from the ground and you really ask what bus are the three loads in the stem located (either D or E). To ask it in the forward direction, you should ask something like (keep stem same up to asking the question) "What is the impact on the DC electrical system?" And your choices should be</p> <p>A) Dispatch operator to check that C/P breaker 72-1233..... tripped B) Dispatch operator to check that C/P breaker xx-yyyyy (the E CP BKR) tripped C) Trip the reactor then trip the three loads in the stem</p> <p>D) Continue in AR while tripping the 4kv bus feeder breaker You also need power in the stem of the question. Also your writeup is inconsistent with what loads are on D and E. Look at A and C...Loads are on (D or E)...Licensee will make suggested repairs.</p>

49	H	3												B	E	A	7	Licensee doesn't really have a blackout sequencer and this question is a LOCA interrupted with a LOSEP not an SBO event (so it doesn't really fit the KA). Also, the question could just ask for what is the sequence of loads for a blackout on the EDG when power is returned to the safety bus by the EDG? Licensee would like to write a new question with a different KA. Agreed.
50	F	2												B	S	B	8	2012 NRC
51	H	3												B	S	D	11	2018 NRC
52	F	2												B	S	A	7	2016 NRC
53	H	2												N	E	D	10	This is a Tier 1 question as written, not Tier 2. Could ask where certain valves can be operated (what panels) and any special switches (such as local/remote, etc) or two handed ops required? Licensee will make suggested changes.
54	H	2												B	S	B	5	2018 NRC
55	F	3												N	E	B	11	This is Tier 2 as written. Easy fix is just ask what does the alarm sound like and who activates the alarm when needed (containment evac procedure could be put in stem but don't put an event in the stem). Licensee agrees and will make the suggested change.

56	H	3												N	E	A	7	This is a Tier 2 question but KA is impossible to write with valid alarms and not be just a system question. You don't need the graphics though. Graphics are discouraged IAW FAQ on NRC website except where necessary. You could have in the stem that Containment pressure is 19 psig on all four channels. How would you verify that these are correct? Need to document in the discussion that hard to write as Tier 2 but graphic not needed in either case.
57	H	2												B	S	C	2	
58	F	2												N	E	C	7	minor edits to remove slight cueing. Need to remove "in the" from the stem and put "in the" for A2 and C2 and for B2 and D2 put "at the". One is a panel and one is a room.
59	H	2												B	U	D	5	KA mismatch. No reference leg leak in the question.
60	H	3												B	S	A	10	REFERENCE NEEDED
61	H	2												N	U	B	11	KA mismatch-no detector type used in question. Licensee will fix
62	H	3												N	S	D	5	
63	F	2												B	S	D	12	2012 NRC
64	H	2												B	S	A	5	2012 NRC
65	H	3												N	S	A	5	
66	F	2												B	S	A	10	2016 NRC
67	F	2												N	U	C	10	Non-credible distracters A, and B. Licensee will replace A and B and adjust stem accordingly.
68	F	2												B	S	D	12	
69	F	2												B	S	C	2	2016 NRC

70	F	2											N	S	C	10	
71	F	2											B	E	A	10	Non credible distracter D and C is borderline. It would be better to have a 2 X 2 with when it is done and how or where is it documented? Licensee will update with when and where in a new 2 X 2.
72	H	2											B	S	C	12	2016 NRC
73	F	2											N	E	B	12	2 is not credible for the RO. We also already have something like this on the exam in another question. Licensee will develop new question with overlap in mind.
74	F	2											B	E	D		Is it PAM1 or PAMS1? Need to be consistent in stem and discussion. Put in CFR reference. Licensee will fix and make answer D Gamma Metrics to avoid overlap.
75	F	22											N	S	B	10	

76	H	2												B	E	B	5	2012 NRC This technically meets the KA for basis but it is really a fundamental design question not an SRO question on TS bases. Every RO has to know that two CCW pumps are required for the vital loop and adding the ASW pumps to the question is not desired per the NUREG unless you can't come up with anything else. This question will need to be modified and focus on CCW only. Licensee will use TS and basis info (pull bank question from 141 exam that they already have).
77	H	2												N	S	D	5	
78	H	3												B	S	C	5	2019 NRC
79	H	2												B	E	C	5	2016 NRC The structure of each choice should be procedure selection first, then aux info after that to balance the choices. Answer C needs a comma after Salt Water in procedure title to match D.
80	H	2												N	E	A	2	Need to add voltage/grid disturbance to stem to lock in KA (doesn't affect question however).
81	H	2												B	S	B	5	2018 NRC

82	H	3												B	U	C	5	2012 NRC Unsat for two non-credible distracters. For distracter B the plant trips is in the stem so it is not credible to have in the distracter that RTR is not needed (wording also is confusing because it implies it was entered but does not need to be completed but that isn't clear in the choices or stem that it was entered). Distracter D is not credible because this would mean that nothing is done to fight the tube rupture. Two other items, RM-15 in the stem might help with another question so we need to look at that. Also, there is another question on use of AOP/EOPs (Q99) so we need to change that question since this KA is specific for this topic to prevent overlap. Licensee will make suggested repairs and compare overlap with Q99 to ensure none exists.
83	H	2												N	E	D	1	Too easy as written. Here is a suggested writeup: A. Make declaration at 1115 based on time of receipt of initial fire alarm B. Make the declaration at 1117 based on time of confirmation of fire C. Make the declaration at 1107 based on start of EAL review at 1105 D. Make the declaration at 1107 based on the report at 1107. Licensee would like to write a new question on this topic.
84	H	2												B	S	D	2	2016 NRC
85	H	3												N	S	A	5	
86	H	3												N	S	C	5	

87	H	3												B	U	B	3	Cueing from stem to answer. LCO 3.5.2 ECCS-Operating in stem and ECCS and LCO 3.5.2 in answer B. Licensee will remove 3.5.2 from the stem and adjust to remove cueing.
88	H	3												B	E	D	3	2014 NRC Need to structure all choices the same Distracter A. should start with "direct", Answer D should start with "direct," For distracter C remove the word "possibly". For answer D, start with "direct the operator to place a second CCW HX in service to comply with LCO 3.7.9 (or the actual procedure used to do this would be better here) to prevent exceeding CCW....." Licensee will make suggested changes.
89	F	2												N	U	B	2	RO knowledge to know that in LBLOCA, AFW doesn't help you. Throw that out and you have the answer. Again, what is the bases for AFW (capacities, decay heat, flow, how many SG's must it cool, what water level it is supposed to maintain. Licensee will incorporate TS into the question to fix these items.
90	H	2												N	E	C	2	Easily challengeable as written. Using the word "may" in NRC questions is highly discouraged in NUREG for this reason. Use values not lines available. Split the toggles between operable and inoperable. This is what the SRO has to know. Not operable or may remain operable. Licensee will make suggested repairs with values.

91	H	3												M	U	D		Reverse Logic- This KA is the effect of Core Damage ON the ITM system, not the converse (ie use ITMs to assess Core damage). Need to see parent to see how modified. I would recommend using the SAMG for two choices because with core damage what is the ability to use the ITM will come into play in the SAMG entry criteria. A disfigured core will impact at least a portion of the ITM system. Licensee is working on this one with SAMG entry as possibility.
92	F	2												B	E	B	7	2016 NRC I believe that "Z-Z tape indicates full down" is correct, not "Z-Z tape indicates the full down"
93	H	2												B	S	A	4	2018 NRC
94	H	3												N	S	B	2	REFERENCE NEEDED
95	F	2												B	E	B	7	2016 NRC Item 1 is not credible for the SRO. Also in item 2 using the exact words from the procedure are discouraged in questions per NUREG because it demonstrates rote memorization versus applied learning. Licensee will make suggested repairs.
96	F	3												N	E	A	10	C and D are not a good fit for this question. You could use a pink tag or you could use Open-Neutral or Open-mid position for a distracter (I am just asking here to help). Licensee will look at changes to this one.

97	F	2												N	E	D	10	Part 1 of all four choices in not credible (from the stem), especially for the SRO exam. Makes the question too easy also. For part 2 you only need to say "T/S activities with high risk" to remove extra focus and not cue to higher authority for approval. Licensee will adjust stem wording and distracter wording to correct these issues as discussed.
98	F	2												B	S	A	3	2018 NRC
99	F	3												N	E	C	5	This question as written is already covered in another question (Q82) and this KA does not ask about AOPs so we need to center this question on something different to prevent overlap with Q82. Licensee looking at this wrt overlap.
100	H	3												N	S	C	5	

Results Table

%

RO LOK -H	42	56 Avg RO LOD	2.61
RO LOK-F	33	AVG SRO LOD	2.44
SRO LOK - H	18	Overall LOD	2.57
SRO LOK - F	7		
		%	%
RO Bank	35	46.67	SRO Bank 12 48
RO Mod	3	4	SRO Mod 1 4
RO New	37	49.33	SRO New 12 48
		%	%
Total Bank	47	47	
Total Mod	4	4	
Total New	49	49	
		%	%
RO Sat	37	49.33	SRO Sat 10 40
RO Unsat	10	13.33	SRO Unsat 4 16

Flaws

Stem focus	0
Cues	0
T/F	0
Cred Dist	0
Partial	0
job link	0
units	0
minutia	0
backward	0
KA	0
SRO-only	0
LOD = 1	2

10 CFR Distribution

41(b)1	0	43(b)1	1
41(b)2	4	43(b)2	5
41(b)3	0	43(b)3	3
41(b)4	0	43(b)4	1
41(b)5	15	43(b)5	10
41(b)6	2	43(b)6	0
41(b)7	26	43(b)7	2
41(b)8	3		
41(b)9	0		
41(b)10	16		
41(b)11	4		
41(b)12	4		
41(b)13	0		
41(b)14	0		

Answer Dist (in %)

RO Edit	28	37.33	SRO Edit	11	44	RO-A	21	SRO-A	5
		%			%	RO-B	20	SRO-B	7
Total Sat	47	47	Total Unsat	14	14	RO-C	20	SRO-C	7
Total Edit	39	39				RO-D	14	SRO-D	6

Question Overlap with the Previous Two NRC Exams

QA form ES-401-6 item 4 requires 4 or less questions on RO exam from previous two NRC exams, SRO portion two or less questions from previous two NRC exams*

* if this is exceeded, the region shall call NRR to explain why/reasons.

RO overlap from previous two NRC exams (2019-01 AND 2020-02 EXAMS)

Q46 2019

Q47 2019

SRO overlap from the previous two NRC exams

Q78 2019

Note: the previous two exams considered for overlap are the 2020-02 and 2019-01 NRC Exams

Questions Requiring References to Answer

6-10 questions rule of thumb on SRO portion of exam are allowed to be open reference, while the RO exam is generally none

RO Questions that require hand-outs

Q27 EOP ECA-1.1 APPENDIX G (1 page)

Q60 OP AP-7 Attachment 2 (1 page)

SRO Questions that require hand-outs

Q94 ECG 7.4 (4 pages)

The first set of data is for the draft exam review and the second set of data with all Sat questions is the final product as given.

	1. LOK	2. LOD	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6	7	Ans Letter	CFR	8
Q#	(F/H)	(1-5)	stem focus	cueing	T/F	cred dist	partial	job link	minutia	# / units	back-ward	K/A	SRO-only	B/M/N	U/E/S	A/B/C/D	55.41 55.43	Explanation
																		With rev 3 of RO and SRO questions all questions were Sat
1	H	3												N	S	B	7	
2	F	3												N	S	B	7	
3	F	2												N	S	A	10	
4	F	2												N	S	D	2	
5	H	3												N	S	D	10	
6	F	3												N	S	C	5	
7	F	3												N	S	C	8	
8	H	3												B	S	B	7	2016 NRC
9	H	3												B	S	D	7	
10	H	3												B	S	B	11	2016 NRC
11	F	2												B	S	A	5	2019 NRC
12	H	2												B	S	B	5	2017 Callaway NRC.
13	F	2												N	S	D	7	
14	F	2												N	S	A	5	
15	F	2												B	S	C	7	2012 NRC
16	H	2												N	S	C	5	
17	F	2												B	S	D	2	2009 NRC
18	H	2												N	S	A	7	
19	F	2												N	S	C	6	
20	F	2												N	S	A	10	
21	F	3												B	S	D	5	2016 NRC
22	H	3												M	S	C	7	
23	H	3												M	S	A	7	
24	F	2												N	S	D	10	
25	H	3												B	S	D	7	2016 NRC
26	H	3												N	S	C	5	
27	H	2												B	S	B	10	2011 NRC REFERENCE NEEDED

28	F	2												N	S	D	10	
29	H	2												N	S	A	5	
30	H	3												N	S	A	7	
31	H	2												N	S	A	10	
32	H	3												N	S	C	5	
33	H	2												B	S	D	7	2018 NRC
34	F	3												N	S	C	7	
35	H	3												N	S	A	7	
36	H	3												B	S	A	7	2016 NRC
37	H	3												B	S	C	7	2016 NRC
38	H	3												N	S	A	7	
39	H	3												M	S	C	7	
40	F	2												N	S	B	7	
41	F	2												B	S	D	10	2016 NRC
42	H	3												B	S	C	7	2018 NRC
43	H	2												B	S	B	5	2018 NRC
44	H	3												N	S	C	7	
45	H	2												N	S	A	10	
46	F	2												B	S	A	7	2019 NRC
47	F	2												B	S	B	8	2019 NRC
48	H	2												B	S	C	10	2018 NRC
49	H	3												B	S	D	7	2018 NRC
50	F	2												B	S	B	8	2012 NRC
51	H	3												B	S	D	11	2018 NRC
52	F	2												B	S	A	7	2016 NRC
53	H	2												N	S	C	10	
54	H	2												B	S	B	5	2018 NRC
55	F	3												N	S	B	11	
56	H	3												N	S	B	7	
57	H	2												N	S	C	2	
58	F	2												N	S	C	7	
59	H	3												N	S	D	5	

60	H	3												B	S	A	10	2018 NRC REFERENCE NEEDED
61	H	3												B	S	D	11	2016 NRC
62	H	3												N	S	D	5	
63	F	2												B	S	D	12	2012 NRC
64	H	2												B	S	A	5	2012 NRC
65	H	3												N	S	A	5	
66	F	2												B	S	A	10	2016 NRC
67	F	2												N	S	B	10	
68	F	2												B	S	D	12	
69	F	2												B	S	C	2	2016 NRC
70	F	2												N	S	C	10	
71	F	2												B	S	C	10	2018 NRC
72	H	2												B	S	C	12	2016 NRC
73	F	2												B	S	D	12	2020 NRC
74	F	2												M	S	A	6	2016 NRC
75	F	2												N	S	B	10	
76	H	2												B	S	C	5	2016 NRC
77	H	2												N	S	D	5	
78	H	3												B	S	D	5	2019 NRC
79	H	2												B	S	C	5	2016 NRC
80	H	2												N	S	A	2	
81	H	2												B	S	B	5	2018 NRC
82	H	3												B	S	B	5	2012 NRC
83	H	3												N	S	B	1	
84	H	2												B	S	D	2	2016 NRC
85	H	3												N	S	A	5	
86	H	3												N	S	C	5	
87	H	3												B	S	B	3	2019 NRC
88	H	3												B	S	D	2	2014 NRC
89	F	3												N	S	A	2	
90	H	2												N	S	B	2	
91	H	3												N	S	D	5	
92	F	2												B	S	B	7	2016 NRC .
93	H	2												B	S	A	4	2018 NRC

94	H	3												N	S	B	2	REFERENCE NEEDED
95	F	2												B	S	B	7	2016 NRC
96	F	3												N	S	A	10	
97	F	2												N	S	D	10	
98	F	2												B	S	A	4	2018 NRC
99	F	3												N	S	A	5	
100	H	3												N	S	C	5	

Results Table

%

RO LOK -H	41	54.67	Avg RO LOD	2.43	
RO LOK-F	34		AVG SRO LOD	2.52	
SRO LOK - H	18		Overall LOD	2.45	
SRO LOK - F	7				
		%		%	
RO Bank	34	45.33	SRO Bank	12	48
RO Mod	4	5.333	SRO Mod	0	0
RO New	37	49.33	SRO New	13	52
		%			
Total Bank	46	46			
Total Mod	4	4			
Total New	50	50			
		%		%	
RO Sat	75	100	SRO Sat	25	100
RO Unsat	0	0	SRO Unsat	0	0
RO Edit	0	0	SRO Edit	0	0
		%		%	
Total Sat	100	100	Total Unsat	0	0
Total Edit	0	0			

Flaws

Stem focus	0
Cues	0
T/F	0
Cred Dist	0
Partial	0
job link	0
units	0
minutia	0
backward	0
KA	0
SRO-only	0
LOD = 1	0

10 CFR Distribution

41(b)1	0	43(b)1	1
41(b)2	4	43(b)2	6
41(b)3	0	43(b)3	1
41(b)4	0	43(b)4	2
41(b)5	15	43(b)5	11
41(b)6	2	43(b)6	0
41(b)7	26	43(b)7	2
41(b)8	3		
41(b)9	0		
41(b)10	17		
41(b)11	4		
41(b)12	4		
41(b)13	0		
41(b)14	0		

Answer Dist (in %)

RO-A	20	SRO-A	7
RO-B	15	SRO-B	8
RO-C	21	SRO-C	4
RO-D	19	SRO-D	6

Question Overlap with the Previous Two NRC Exams

QA form ES-401-6 item 4 requires 4 or less questions on RO exam from previous two NRC exams, SRO portion two or less questions from previous two NRC exams*

* if this is exceeded, the region shall call NRR to explain why/reasons.

RO overlap from previous two NRC exams (2019-01 AND 2020-02 EXAMS)

Q11	2019
Q46	2019
Q47	2019
Q73	2020

SRO overlap from the previous two NRC exams

Q78	2019
Q87	2019

Note: the previous two exams considered for overlap are the 2020-02 and 2019-01 NRC Exams

Questions Requiring References to Answer

6-10 questions rule of thumb on SRO portion of exam are allowed to be open reference, while the RO exam is generally none

RO Questions that require hand-outs

Q27 EOP ECA-1.1 APPENDIX G (1 page)

Q60 OP AP-7 Attachment 2 (1 page)

SRO Questions that require hand-outs

Q94 ECG 7.4 (4 pages)