

Tier /Group	Randomly Selected K/A	Reason For Rejection
1/1	000009 EA2.31	Replace with 000009 EA2.24. Replaced since TS idle loop operation is not allowed and is not tied to Small break LOCA analysis at this plant.
1/1	000040 2.2.12	Replace with 000040 2.1.7. Replaced since it is difficult to tie knowledge of surveillance procedures to a Steam Line Rupture.
1/1	000056 AA1.16	Replace with 000056 AA1.07. Unable to write a question of sufficient difficulty & psychometric attributes addressing LOOP and switchgear fans.
1/2	000059 2.4.34	Replace with 2.4.31. Unable to write a question of sufficient difficulty & psychometric attributes addressing Accidental Liquid Release tasks performed by the RO outside of the control room.
1/2	000076 2.2.25	Replace with 2.1.30. Replaced since the TS bases associated with High Activity is SRO level knowledge.
1/2	00WE15 EK3.3	Replace with 00WE15 EK3.2. Replaced since the Containment Flooding procedure contains no manipulation of controls.
2/1	006000 2.4.34	Replace with 006000 2.1.27. Unable to write a question of sufficient difficulty & psychometric attributes addressing ECCS tasks performed by the RO outside of the control room. Even during control room evacuations the RO primarily monitors and directs actions associated with non-ECCS systems. Note: Replaced the Generic portion (2.4.34) with a randomly selected KA from the Generic section that required a System tie. (2.1.7)
2/1	010000 K2.04	Replace with 010000 K2.01. Replaced with knowledge of the pressurizer heater power supplies since there are no PZR safety valve position indicators.
2/1	012000 K4.07	Replace with 012000 K4.05. Replaced since a first out indication panel/system does not exist at this plant.
2/1	026000 K3.01	Replace with 026000 K3.02. Replaced since CSS failure would not impact Containment Cooling System (CCS also not a backup with Ice Condenser).
2/2	071000 A4.03	Replace with 071000 A4.10. Replaced with a different ability since there is no means to monitor Waste Gas Compressor valves or seal water in the control room.
3	2.1.27	Replace with 2.1.36. Moved 2.1.27 to tie with ECCS since the KA requires a purpose/function of a system. Also new KA added Core Alteration to RO exam.
2/1*	004000 2.4.21	Replace with 004000 2.2.22. Replaced since CVCS does not directly input to the parameters and logic associated with assessment of safety functions.
	Revision 0	* = SRO Only

DC COOK 2012 PROPOSED INITIAL EXAM REVIEW

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							Y		N	E S	Distractor C is not plausible because everyone should know that boron concentration decreases over core life. I suggest that you change distractor C to read "more negative (worth more) due to increased neutron leakage". <b>Resolution: Distractor C was changed to "more negative (worth more) due to increased neutron leakage". This question is satisfactory.</b>
2*	H	2				x							Y		B	E S	Distractor C is not plausible. With an increase in RCS pressure anybody with a causal knowledge of pumping systems would pick distractor C. Distractor C should be changed to "Charging pump discharge header pressure remains the same and total seal injection flow lowers" <b>Resolution: Distractor C was changed to "Charging pump discharge header pressure remains the same and total seal injection flow lowers". This question is satisfactory.</b>
3*	H	2											Y		N	S	How many minutes do you have to trip RCP's if loss all seal cooling. If it is not 5 minutes the distractors need to be changed to whatever the time limit is. Its 2 minutes for the bearing oil coolers. Why aren't you using 2 minutes in the distractors??? <b>Resolution: Changed time frame from 5 minutes to 2 minutes since bearing oil cooler time limit is 2 minutes. This question is satisfactory.</b>
4	H	2											Y		N	U S	No correct answer. Will the suction of the CV pumps be lost when VCT level reaches 0%??? There should still be enough static head in the piping to provide suction pressure. It won't be lost at 0% VCT level. Therefore no correct answer??? Need to delete last sentence from distractors A and C. <b>Resolution: Removed last sentence from all distractors. The question now contains only one correct answer and is satisfactory.</b>
5	F	2											Y		B	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
6	F	2				x							Y		B	E S	I don't like distractor B and C. Can we make them correlate to the actual fuel clad melting point. Distractor C could read "Clad temperature at 2200F correlates to a fuel centerline temperature 300F below the fuel melting point." Not sure what the clad melt temp is. <b>Resolution: Distractors B &amp; C were changed to 500F below the fuel cladding melting point. This question is satisfactory.</b>
7	F H	4 3											Y		N	U S	LOD=1 Straight forward power supply question. Need to replace question. Question is "What is power supply for the North SI pump." <b>Resolution: Question was replaced with a new question requiring more knowledge than just what is the power supply to north SI pump. This question is satisfactory.</b>
8*	H	2	x										Y		B	E S	Does the stem contain enough information to answer the question??? May just need to change the level in the distractor A to a level in normal band??? Add "reduce level" to distractor C. <b>Resolution: Added "...30 seconds later." to the stem and changed distractor A from 15% to 75%. This question is satisfactory.</b>
9*	F	2											Y		B	S	
10*	F H	4 3											Y		B	U S	LOD=1 Straight forward power supply question. Need to replace question. Question is "What is power supply for the Pzr Htrs." Possible enhancement would be "how are the Pzr Htrs powered during a LOOP with the 2CD DG unavailable?" <b>Resolution: Question was replaced with a new question requiring more knowledge that just what is the power supply to the Pzr Htr's. This question is satisfactory.</b>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
11	F	2				x							Y		B	E S	<p>Would prefer to change distractors slightly to enhance distractors. When was 62 psig changed to 800psig??? If it was this cycle or last we can keep it. I would prefer 600psig in distractors A &amp; C. I would also change distractor A from OR to AND as well as distractor C from AND to OR. I would also change the 1/3 in distractors A &amp; B to 2/3.</p> <p><b>Resolution: Distractors A, B, &amp; C pressures and logic were changed to enhance question. This question is satisfactory.</b></p>
12	F H	4 3											Y		B	U S	<p>LOD=1 Need to replace the question</p> <p><b>Resolution: Replaced question with a bank question from 2008 NRC Exam. This question is satisfactory.</b></p>
13	H	2											Y		B	S	<p>Why are distractors A &amp; B plausible??? Is SG-12 and NR-43 powered by CRID III on U-1??? Why not ask what effect does this failure have on both the units??? Asking about only U-1 is slightly leading. This is a better way to ask what is the power supply to...</p> <p><b>Resolution: Distractors A &amp; B are plausible based on SG-12 and NR-43 power supplies. This question is satisfactory.</b></p>
14	F	3				x							Y		B	E S	<p>A better distractor for A would be "stop all RCPs to minimize heat input into cnmt." Or the second part of distractor C could be added to distractor A. "stop all RCPs. A cnmt pressure relief is performed to minimize the risk of SI actuation since cnmt cooling has been lost." Why is distractor D plausible??? When would you perform a cnmt pressure relief to allow cnmt purge??? A better distractor would be "stop three RCPs. A cnmt pressure relief is performed since ice condenser cooling has been lost.</p> <p><b>Resolution: Distractors A &amp; D were changed to enhance their plausibility. A was changed to "stop all RCPs to minimize heat input into cnmt..." and D was changed to "Operate cnmt purge as required to maintain the ice condenser doors closed." This question is satisfactory.</b></p>
15*	F	2											Y		N	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
16*	H	3											Y		B	S	
17*	F	3											Y		B	S	
18	H	2											Y		B	E S	LOD=1 This is a Whats the power supply for Hydrogen Recombiner question. Might be acceptable if there are actions that must be performed to cross-tie power or realign power to these buses because it shows they know the bus that powers the equipment and what alignment is needed to energize the correct bus. The question shouldn't contain (Train A) and (Train B) in the distractors. <b>Resolution: Question is more complicated than initially thought and is not a LOD=1 question. H2 Recombiner power supplies are opposite of respective safety buses. That is, recombiner 1 is fed from B-train power and recombiner 2 is fed from A-train power. (Train A) and (Train B) were removed. This question is satisfactory.</b>
19	H	3											Y		M	S	
20	F	3											Y		B	S	
21	F	3				x							Y		B	E S	Change distractor A to include start of exhaust fans. Is distractor D plausible with "HV-ACRDA-2, 2A Open." Does this outside air intake damper open on a high rad signal??? <b>Resolution: Changed distractor A to add start exhaust fans and changed distractor D to "...HV-ACRDA-2, 2A - Part. Open". This question is satisfactory.</b>
22*	H	3											Y		B	E S	Change distractor A to 450 psig and distractor C to 2.5 psig. <b>Resolution: Distractor A changed to 450 psig and distractor C cnmt pressure was changed to 2.5 psig. This question is satisfactory.</b>
23*	H	3											Y		B	S	
24*	H	3											Y		M	S	
25	H	3											Y		B	S	

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
26	H	2				x							Y		B	E S	Change distractors A & B to 20%. These sources make more sense before the 15% level when ESW is required. Use preferred sources first then less desirable sources. Need to check OHP-4022 -055-003 and make sure 20% isn't a correct answer. <b>Resolution: Changed distractors A &amp; B to 20% to enhance question. This question is satisfactory.</b>
27	F	2				x							Y		B	E S	Distractor D is not plausible because all breakers can be tripped locally.. <b>Resolution: Distractor D was changed to "A load shed signal will cause breaker 1A7 to trip open." This question is satisfactory.</b>
28	H	3											Y		B	S	
29	F	2											Y		B	S	
30	H	3											Y		B	E S	Distractor C needs to be changed to "during the GDT tank transfer;" <b>Resolution: Distractor C was changed to "during the GDT tank transfer;". This question is satisfactory.</b>
31*	H	3											Y		M	E S	Change distractor D to ... Verify VCR-107 auto closes Manually close VCR-207 Verify HV-CPR-1 auto tripped <b>Resolution: Changed distractor D to read...</b> "Verify VCR-107 and automatically closed." "Manually close VCR-207." "Verify HV-CPR-1 has automatically tripped." <b>This question is satisfactory.</b>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
32*	H	3											Y		B	S	Are distractors C & D correct responses to other rad monitors??? <b>Resolution: Distractors C &amp; D are responses to other rad monitors (ERS-2409) and are thus plausible. This question is satisfactory.</b>
33*	H	2											Y		B	E S	Would distractor D be better using 5000 as the limit since this is an actual dose limit??? <b>Resolution: Distractor D was changed to correspond to a dose limit of 5000mR. This question is satisfactory.</b>
34	H	2											Y		B	S	
35	F	2											Y		M	S	
36	H	2											Y		B	U S	Why are distractors A & B plausible??? A says to align U-1 BA makeup to feed U-2 through cross-tie but BA pumps wouldn't be able to inject through cross-tie due to charging pump discharge pressure. Same with distractor B and why would you use U-2 BA makeup to feed U-2 through the cross-tie??? Why isn't CC flow to the RCP thermal barrier Hx checked prior to isolating seal injection flow in 2-OHP-4025-LS-6??? <b>Resolution: Changed distractor A to use the U-1 CCP to x-tie to U-2. Distractor B was changed eliminate any reference to use of the x-tie. This question is satisfactory.</b>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
37	H	3											Y		B	U S	<p>Provided the reference material this is a direct lookup. Without the reference material it is an SRO question. Doesn't match K/A, it has EOP enter conditions but no immediate action steps associated with FR-Z.1.</p> <p><b>Resolution: Removed attachment that was previously provided. The question is no longer a direct look up. This question is satisfactory.</b></p>
38	F	2				x							Y		B	E S	<p>Distractor D is implausible (-1.55psig). Why would pressure be this low as a result of a <b>loss</b> in CHW flow???</p> <p><b>Resolution: Distractor D was changed from -1.55psig to -0.05psig and upper cnmt temp was changed from 97F to 115F to enhance the distractor. This question is satisfactory.</b></p>
39	H	3											Y		N	S	
40*	H	2				x							Y		N	E S	<p>Change distractor C the read "Restore seal cooling asap to minimize the potential for seal degradation. Do not start the RCP until seal leakoff temperatures as less than 200F." This will make the distractor more plausible.</p> <p><b>Resolution: Distractor C was changed to read "Restore seal cooling asap to minimize the potential for seal degradation. Do not start the RCP until seal leakoff temperatures as less than 200F." This question is satisfactory.</b></p>
41*	F	2				x							Y		N	U S	<p>Distractors C &amp; D are not plausible. How will any injection flow remove a hard bubble???. And how will injection flow affect SG tubes during a LBLOCA???</p> <p><b>Resolution: Distractor C was changed to "To equalize thermal stresses on the loop injection penetrations." And Distractor D was changed to "To minimize hydrogen generation." This question is satisfactory.</b></p>



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42*	H	2				x							Y		B	E S	Change distractor C & D. C should be changed to trip Rx because CC is lost to all ESF loads. And D should be changed to trip the Rx because all seal cooling is lost.  <b>Resolution: Distractor C was changed to “Component Cooling flow is lost to all the ESF loads.” And distractor D was changed to “all RCP seal injection is lost.”</b>
43	H	2											Y		N	S	
44	H	2											Y		B	S	
45	H	3											Y		B	S	
46	H	2											Y		B	S	
47	H	2											Y		M	E S	Does the cnmt purge system isolate automatically on high rad signal??? If it does then there may not be a correct answer. If a cnmt high rad isolates cnmt there is no guarantee it won't occur before the procedure step is performed.  <b>Resolution: Added a bullet to the stem that says “Two minutes later, all radiation monitors show a stable trend with no additional alarms actuated.” This enhancement ensures that only one correct answer exists. This question is satisfactory.</b>
48	H	2											Y		N	E S	Distractor A needs to be changed to 514 PSIG.  <b>Resolution: Distractor A was changed to 514psig because it is the most likely error that an applicant would make. This question is satisfactory.</b>
49*	H	3		x		x							Y		B	U S	Distractors B, C, & D are not plausible. The stem states cnmt pressure is high but none of these distractors would result in high cnmt pressure. Question doesn't discriminate.  <b>Resolution: Replaced question. This question is satisfactory.</b>

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
50*	H	3											Y		B	S	When are the ESW unit cross-tie valves closed??? If this is the normal alignment than state that the system is normally aligned in the stem don't cue them.  <b>Resolution: The ESW system can be aligned several different ways, so the stem must state a configuration or the applicants would have to ask which configuration the system is in or make an assumption about its configuration. This question is satisfactory.</b>
51*	H	2											Y		B	S	
52	H	3											Y		N	S	What is the normal power supply??? The DC input??? Supporting documentation doesn't state that DC input Bkr must be manually closed before auto re-transfer occurs. Please show me how inverter is feed electrically.  <b>Resolution: DC is the normal power supply and station provided necessary info when asked about inverter feeds. This question is satisfactory.</b>
53	F	3											Y		B	S	
54	F	3											Y		B	S	No completely correct answer. Outside air dampers also close and inlet dampers open. Should change distractors to incorporate the changes in damper position also.  <b>Resolution: Bolded "pressurization fan alignment". The question has only one correct answer because question is only asking about pressurization fans and not what happens on a Hi Rad signal. This question is satisfactory.</b>
55	F	2											Y		B	E	It seems like the way the question is asked only one distractor (A) is plausible. Why would anybody pick anything other than A??? Its the only logical choice. Need to explain why B, C, & D distractors are plausible.  <b>Resolution: Changed stem to specify U-1 and first action. Eliminated U-2 actions in stem. This question is satisfactory.</b>

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56	H	3											Y		B	S	Based on distractors B & D Pzr is on loop #3??? If it isn't, need to change distractors so you are steaming loops without the Pzr. <b>Resolution: Changed distractor B from "1 &amp; 2" to "1 &amp; 4" so that the loops without the Pzr were being steamed. This question is satisfactory.</b>
57	F	2											Y		B	S	
58*	H	3											Y		N	S	No correct answer. Does DC Cook's agreement with your grid operator (MISO) allow you to operate with negative MVARs??? Question is Sat if it has a correct answer. <b>Resolution: Operations personnel informed me that DC Cook plant is allowed to operate with negative MVARs. This question is satisfactory.</b>
59*	H	3											Y		B	S	
60*	H	3											Y		B	S	
61	H	2											Y		B	E S	Change question so that RCS Temp is 425F which equates to approx 330 psig thus making the correct answer aligning BIT flow from other unit. <b>Resolution: Based on explanation of FR-C.2 entry criteria and system operation the question was changed to increase RCS temp in stem and add a FR-C.2 reference for distractor B. This question is satisfactory.</b>
62	H	2											Y		B	S	
63	F	3											Y		N	E S	Distractor C needs to be changed its not plausible. Cooling down doesn't ensure adequate shutdown margin and will not discriminate. <b>Resolution: Changed distractor C to "allow a faster depressurization, limiting delta P across the SG tubes." Which is a more plausible distractor. This question is satisfactory.</b>
64	F	3											Y		B	S	

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65	F	2											Y		B	E S	Distractor D needs to be changed. RHR is used for normal RCS cooldowns and operators with suction pressures normally 300 psig therefore not plausible. Change D to "The added inventory will reduce post accident boron concentrations leading to shutdown margin concerns." <b>Resolution: Distractor D changed to "added inventory will reduce post accident boron concentrations leading to shutdown margin concerns." This question is satisfactory.</b>
66	F	2											Y		B	S	
67*	H	2											Y		B	E S	Why is an attachment provided? Does it make question a direct lookup??? <b>Resolution: Attachment will NOT be provided. Distractor B was changed to "4" qualified operators. This question is satisfactory.</b>
68*	F	3											Y		B	E S	Add suspend core alterations to distractor D. <b>Resolution: Added "suspend core alterations" to stem which incorporated it into distractor D. This question is satisfactory.</b>
69*	H	3											Y		B	S	
70	F	4 2											Y		B	U S	Change distractor B from "...equipment hatch NOT sealed." To something else, this makes question low LOD. Change to "...that six bolts were found hand tight." <b>Resolution: Changed distractor B to "While in Mode 3, the outer airlock door interlock is discovered to be non-functional." This question is satisfactory.</b>
71	F	2											Y		B	S	
72	F	2											Y		B	S	

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73	F	2				x							Y		B	E S	Change distractor B by removing statement that natural circ is more effective when considering 2 phase flow. Distractor B is not plausible. <b>Resolution: Changed distractor B from “when considering” to “than” so that the distractor reads more fluently. This question is satisfactory.</b>
74	F	2											Y		N	S	
75	H	3											Y		B	S	
1(76)*	H	3				x							Y	Y	N	E S	Add a RCS temperature to stem 608F and rising. Add “...and rising.” To RCS pressure statement in stem. This will make distractors B & C more plausible. <b>Resolution: Added the second open bullet to stem “RCS temp is 608F and rising” and added “and stable” to the third open bullet. These changes enhanced the question. This question is satisfactory.</b>
2(77)*	H	3											Y	Y	B	S	Change the attachments that are provided. I think that sections 3.0, 3.4, 3.5, 3.7, & 3.8 should be provided otherwise we are cueing them the correct answer. <b>Resolution: Only Tech Spec sections 3.0, 3.5.2, and 3.8.1 will be provided. This will not provide any unnecessary cueing. This question is satisfactory.</b>
3(78)*	H	3											Y	Y	N	S	

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4(79)	H	2											Y	Y	B	S	<p>Does the stem of this question provide information that an applicant could use to answer Q#45??? This stem describes how the Pzr pressure control system works and Q#45 asks how it works.</p> <p><b>Resolution: This question does NOT provide any info that could be used on question #45. Changed stem from “lowers demand” to “returns demand to normal” to provide better clarification of settings. This question is satisfactory.</b></p>
5(80)	H	3											Y	Y	B	E S	<p>Delete (failed high) provides an unnecessary cue. Change distractor A to delete “...will indicate correctly.” and change it to “...and P-13 and P-7 will be in the correct state.”</p> <p><b>Resolution: Deleted (failed high) from stem and changed distractor A to “...P-13 and P-7 will be in the correct state.”</b></p>
6(81)	H	2											Y	Y	N	E S	<p>Change distractor B to “OPERABLE. Immediately Restore 1 channel or be in Mode 3 within 6 hours and Mode 4 within 12 hours.”</p> <p><b>Resolution: Changed distractor B to “OPERABLE. Immediately Restore one train of Quadrant 1 CETs or be in Mode 3 within 6 hours and Mode 4 within 12 hours.” This question is satisfactory.</b></p>
7(82)	H	3											Y	Y	B	E S	<p>Add “...within 30 minutes.” to distractor C</p> <p><b>Resolution: Added “...within 30 minutes.” to distractor C. This question is satisfactory.</b></p>
8(83)	H	2											Y	Y	B	E S	<p>Distractor D is not plausible with water spilling from 10” line going to U-1 Main Turbine Lube Oil Coolers. Is there a way to ask this without providing a reference. Almost a direct lookup except for knowing setpoint of P-8. Can we ask this in a bigger picture kind of way where we don't need to provide the procedure???</p> <p><b>Resolution: Changed stem to state that “The South NESW is in standby.” Changed distractor D from U-2 actions to Flooding actions. This question is satisfactory.</b></p>

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				
9(84)	H	2											Y	Y	B	E S	Change pressurizer pressure in the stem to 1875 psig and stable. <b>Resolution: Changed Pzr pressure in stem from "2150 and lowering" to "1920 and stable". This question is satisfactory.</b>
10(85)*	H	3											Y	Y	M	S	
11(86)*	H	3											Y	Y	M	S	
12(87)*	H	3											Y	Y	B	S	Why is a reference provided??? Can this question be asked so no reference is required??? Looks like a direct lookup once you get to the fold-out page. If entire procedure is provided...see question below.  Explain why this question doesn't provide information that helps on Q#76 <b>Resolution: The first 4 pages of FR-H.1 are not given so this question does not provide info that will help on Q#76. It has been determined that this question is not a direct lookup. Question is satisfactory as written. This question is satisfactory.</b>
13(88)	F	2											Y	Y	B	S	
14(89)	H	2											Y	Y	N	E S	Do you also have to restore within 14 days??? Is D a completely correct answer??? What is TRM 8.7.8??? Are we going to provide just these figures or are we going to provide them all??? Should provide TRM 8.7.5 and any other fire protection TRMs. <b>Resolution: Changed distractor D changed to make it a more complete answer. This question is satisfactory.</b>
15(90)	H	3											Y	Y	B	S	Can we change FR-C.2 to whichever procedure contains the steps for SI re-initiation. <b>Resolution: Based on core cooling status tree FR-C.2 is a plausible procedure. This question is satisfactory.</b>
16(91)	H	2											Y	Y	B	S	

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				
17(92)	H	2											Y	Y	B	S	Are there any other cooldown limits in the EOPs??? I am concerned that with only a normal cooldown rate and an EOP rate why would anybody pick a normal cooldown rate while in FR-C.2??? <b>Resolution: Changed cooldown rate in distractors A &amp; B to 200F/Hr. This question is satisfactory.</b>
18(93)	F	2											Y	Y	B	S	
19(94)*	F	2											Y	Y	B	S	
20(95)*	H	3											Y	Y	B	E S	Need to change the way this question is being asked. <b>Changed question stem and distractor C to eliminate confusion and make question more straightforward. This question is satisfactory.</b>
21(96)*	H	3											Y	Y	B	S	Why are you providing the reference material??? I don't think it is necessary to answer the question if the applicant knows how to use the TS. All SROs should know the requirements for a missed surv. <b>Resolution: Reference material is necessary to answer question and will be provided. The question is more complicated than initially thought. This question is satisfactory.</b>
22(97)	H	3				X							Y	Y	B	E S	Change distractor B "...Plant Manager notification..." To "...Plant Manager authorization was obtained..." simply notifying the Plant Manager doesn't seem plausible. <b>Resolution: Changed distractor B from "notification" to "approval". This question is satisfactory.</b>
23(98)	F	2				X							Y	Y	N	E S	Distractor A is not plausible and needs to be changed. <b>Resolution: Distractor A was changed to "Initiate Cnmt Ventilation and Phase A Isolation." This question is satisfactory.</b>



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				
24(99)	F	2											Y	Y	B	S	Does this question provide information that could be used to answer Q#42??? <b>This question does NOT provide any info that could be used on question #42. This question is satisfactory.</b>
25(100)	H	2											Y	Y	B	S	

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.
  - 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 “U” ratings (e.g., how the Appendix B psychometric attributes are not being met).

**\* Designates the questions reviewed to meet requirement of ES-401.E.2.c. (100% of questions were reviewed by Chief Examiner)**

RO Bank            56 / 75 = 74.7%  
RO Modified        5 / 75 = 6.7%  
RO New             14 / 75 = 18.7%

RO Memory         30 / 75 = 40%  
RO C/A             45 / 75 = 60%

Unsat                9 / 100 = 9%  
Enhancement       37 / 100 = 37%  
Satisfactory        54 / 100 = 54%

SRO Bank           18 / 25 = 72%  
SRO Modified       2 / 25 = 8%  
SRO New             5 / 25 = 20%

SRO Memory        5 / 25 = 20%  
SRO C/A             20 / 25 = 80%

**No NRC Comments  
or Resolutions on  
Licensee Outline**

NRC Exam Submittal Comments for DC Cook 2012 Initial Exam

	Examiner Comment	Facility Action/Response
<b>Operating Test</b>		
JPM A1a-RO	1. Why is the data just provided at the start of the JPM??? This JPM is to be done in classroom???	This JPM will be performed in a classroom setting so data needs to be provided.
JPM A1a-SRO	1. The N41 value in step 4.4.1 should also be changed to 100.1. 2. The 100.1 error should be carried through the calculation. Step 4.5 should contain 100.1 not 101.1.	Steps 4.4.1 and 4.5 were changed to 100.1.
JPM A1b	1. No Comments	
JPM A2-RO	1. Page 5, I see 3 pages of Open Items not 2 and I don't see the 3 data sheets. 2. Page 6, why isn't telling the US/SM that they have to enter the LCO for LTOP not a critical step???	1) Page 5 was changed to reference 3 pages of Open Items. 2) Page 8 was changed to indicate that informing the US/SM that the LTOP LCO is not met is a critical step.
JPM A3	1. Will performing this JPM provide answers to written questions regarding Cnmt Vents???	Performing this JPM will not provide answers to the written questions regarding CNMT Vents.
JPM A4-SRO	1. The task briefing pretty much tells the applicants that they will need to fill out the NRC Notification form. It should be worded to determine if notification is required and if it is fill out the form.	Tasking briefing sheet was changed to specify that the applicant is suppose to determine if a notification is required and if it is prepare one.
JPM Sim01	1. No Comments	
JPM Sim02	1. No Comments	This JPM was reviewed and meets the minimum requirements for JPM difficulty.
JPM Sim03	1. No Comments	
JPM Sim04	1. Acceptance criteria on determining recombiner power needs to be tighter. 45.5-46.5 looks like it would be acceptable not 45-48 to wide a band.	Acceptance criteria was changed to 46-47KW
JPM Sim05	1. No Comments	
JPM Sim06	1. Does this JPM assist applicants with one of the	Performing this JPM will not provide answers to the

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	Examiner Comment	Facility Action/Response
	written questions on MCR vents???	written questions regarding MCR Vents.
JPM Sim07	1. Doesn't this JPM assist applicants with one of the written question on IA system response???	Performing this JPM will not provide answers to the written question regarding the IA system.
JPM Sim08	1. No Comments	
JPM INP01	1. No Comments	
JPM INP02	1. No Comments	
JPM INP03	1. No Comments	

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	Examiner Comment	Facility Action/Response
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Scenarios

<p><u>Scenario 1</u></p>	<p>a) Please add the TS and TRM actions to the “Applicant’s Actions and Behavior” sections of the scenario’s. page 5</p> <p>b) Is the applicant suppose to <b>enter</b> TRM 8.1.1 or <b>Refer</b> to it. Change “Refers to” to “Enters”. Page 5</p> <p>c) Same comment as b) for TS 3.4.9.b on page 6</p> <p>d) For SG PORV failure differentiate which TS and which TRM are entered. It seems like TS 3.4.7 is <b>referred</b> to while TRM 8.3.8 is <b>entered</b>.</p> <p>e) During major event there isn’t a step for the SRO to ensure the STA’s &amp; SM presence in the control room is established and that status trees are being monitored and an EAL call is going to be made. Why isn’t there a step to ensure this happens??? Need to add a step for the SRO. Page 9</p> <p>f) What is no load Tavg??? Is it 547F??? If it is the entry on the bottom of page 10 needs to be changed because RCS temp should be going to the temp associated with SG PORV lift setpoint which is usually above no load Tavg.</p>	<p>a) TRM action added</p> <p>b) Plant procedures state “refer to TS” so that is why it is listed like this in the scenario. If TS is not applicable it will be stated as such.</p> <p>c) See comment above</p> <p>d) See comment above TS 3.4.7 is N/A</p> <p>e) Added step to announce RX Trip over Executone</p> <p>f) No load Tavg is 547F and sim shows RCS temp trending to 547F.</p>
<p><u>Scenario 2</u></p>	<p>a) Page 4 what does BOP have to manipulate on stator cooling h2o and generator H2 system??? Just say monitor secondary equipment during ramp. There is nothing that the BOP has to manually perform to do these things is there???</p> <p>b) Page 5 only put the LCO and action statements that must be entered no need to put the ones referred to.</p> <p>c) Page 6 TS LCO is giving please add action statement. Restore</p>	<p>a) Changed BOP entry to Monitors main electrical generator temps</p> <p>b) Plant procedures state “refer to TS” so that is why it is listed like this in the scenario. If TS is not applicable it will be stated as such.</p> <p>c) Action statement added</p>

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	Examiner Comment	Facility Action/Response
	<p>within 7 days for this one.</p> <p>d) Page 7 same comments as b &amp; c above provide LCO that needs to be entered and the action statements that must be met.</p> <p>e) Page 8 same comments as 2 &amp; 3 above provide LCO that needs to be entered and the action statements that must be met.</p> <p>f) Page 13 Why isn't adding makeup h2o to the RWST a critical task??? This action has a pretty big PRA contribution.</p> <p>g) How should makeup to the RWST be performed, at &gt; 2000ppm boron or &gt; 2400 ppm??? Does it make a difference???</p>	<p>d) Action statement added</p> <p>e) Action statement added</p> <p>f) At DC Cook this is not a critical task</p> <p>g) This action is performed outside of the MCR so comment is not N/A.</p>
<u>Scenario 3</u>	<p>a) Page 5 only put the LCO and action statements that must be entered no need to put the ones referred to.</p> <p>b) Page 6 only put the LCO and action statements that must be entered no need to put the ones referred to.</p> <p>c) Event 3 – Change MFC 130 to 131 since 131 is the controlling channel.</p> <p>d) Page 7 only put the TLCO and action statements that must be entered no need to put the ones referred to.</p> <p>e) Page 8 is there a set amount of BA that will be added for a main feed water pump trip??? Is this the amount of BA that is supposed to be added??? If this amount is defined put it in the boration step. Normal or Emergency. Is there a REMA which covers this.</p> <p>f) Page 12 Is the crew supposed to wait to E-2 to isolate AFW flow to the faulted SG??? Or are they allowed to isolate it earlier??? If allowed earlier put step where it is expected.</p>	<p>a) Plant procedures state “refer to TS” so that is why it is listed like this in the scenario. If TS is not applicable it will be stated as such.</p> <p>b) See comment above</p> <p>c) Changed to MFC-131</p> <p>d) See comment above</p> <p>e) BA table added to scenario</p> <p>f) DC Cook isolates AFW per E-2 and not before.</p>
<u>Scenario 4</u>	<p>a) Page 4 Event 2 – Change N-42 failure to HIGH failure (from low) – more impact/actions.</p> <p>b) Page 5 only put the LCO and action statements that must be entered no need to put the ones referred to.</p> <p>c) Page 6 same comments as made in 1. above.</p> <p>d) Page 7 same comments as made in 1. above.</p> <p>e) Why not let scenario go to when the crew has the leak</p>	<p>a) Changed to fail HIGH</p> <p>b) Plant procedures state “refer to TS” so that is why it is listed like this in the scenario. If TS is not applicable it will be stated as such.</p> <p>c) See comment above</p> <p>d) See comment above</p>

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	Examiner Comment	Facility Action/Response
	isolated?? I would like to see how the crew responds without charging and letdown. Scenario should continue to second depressurization.	e) Added two more steps to isolate the BIT and Establish Charging flow.