Instructions

(Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts:

1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
2. Enter the level of difficulty (LOD) of each question a 1(easy) to 5 (difficult); (questions with a difficulty between 2 and 4 are acceptable)
3. Check the appropriate box if a psychometric flaw is identified:
   - "Stem Focus": The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
   - "Cues": The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc.).
   - "T/F": The answer choices are a collection of unrelated true/false statements.
   - "Cred. Dist": The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
   - "Partial": One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
4. Check the appropriate box if a job content error is identified:
   - Job Link": 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).
   - "Minutia": 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).
   - "# / Units": The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
   - "Backward": The question requires reverse logic or application compared to the job requirements.
5. Check questions that are sampled for conformance with the approved K/A and those K/As that are *designated SRO-only* (K/A and license level mismatches are unacceptable)
6. Enter question's source: (B)ank, (M)odified, or (N)ew. Verify that (M)odified questions meet the criteria of ES-401 Section D.2.f.
7. 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?
8. At a minimum, explain any "U" Status ratings (e.g., how the Appendix B psychometric attributes are not being met).

General Comments:

1) To the extent possible, change the order of distractors on bank questions.
2) When the K/A lists more than one reference to 55.41 or 55.43, choose the ONE that is most correct for the question that is written.
3) There is an abnormally large number of bank questions from specific exams. NUREG 1021, ES-401, states "If the bank contains more than one question that fits a specific K/A statement, randomly select from among the available questions unless there is an appropriate basis for selecting a specific question." It thus seems unlikely that 10 bank questions would come from the 2014 exam. This makes the exam predictable.

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
1	F	2												N	~~E~~ S	Should the interlock in the stem be named "RCP oil pressure permissive interlock" to match the verbiage in SOP-108B? (The Chief Examiner does not believe that a subset situation exists, since the stem states "In accordance with SOP-108B …) Licensee changed as requested. Question now SAT
2	H	2												N	S	
3	F	3												B	S	2015 Retake Bank Question modified to train B CCW only to eliminate reference to 1-HV-4572 and prevent cueing answer to Question 42. (Question remains BANK because the stem did not change a pertinent condition.)
4	F	2												N	S	

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
5	H	2												M	~~E~~ S	~~2013 Bank~~ Modified Bank Is it possible to modify the initial conditions and make this a modified bank question and still be operationally valid? For example, it appears to me if the temp was 250°, that would change the answer to 15 psig. Operational validity remains at 250° and 15 psig. Question changed as requested. Answer is now D. Plausibilities and reference updated. Question now SAT.
6	H	2												B	S	2011 Bank Are the part 1 distractors RO level of knowledge? These seem beyond immediate operator action steps. This is fundamental licensee knowledge. The system operation and alignment, as well as any alignment changes due to leakage and their effects are required by RO and SRO alike.
7	H	2												N	S	This question is too similar to event 1, scenario 1. Disagree - Event 1 describes a Press Xmtr failing high->porv open->lowering pressure -> porv closed -> operator response to restore to NOP. The question is referring to system response with regard to a rising pressure condition. In Question 7 there is no failure of a pressure transmitter it is just asking about manual operation. These are not similar.
8	H	3												B	~~E~~ S	2014 Bank The second part of the distractors seems unnecessary since the first part of the distractors are all different. Licensee agreed. Changed as requested. Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
9	H	3				X								B	~~E~~ S	2014 Bank Distractor A easily eliminated as it is LOD 1 that accumulators will not inject. A savvy test taker will be able to narrow choices to distractor C or D, since one states prevent fuel damage, the other states expect fuel damage. It is NOT LOD 1 to know that Accumulators will not inject. This is a piece of system level knowledge that is required by CPNPP learning objectives. The RCS pressure provided in the question will discriminate between an applicant that has and has not mastered the required knowledge associated with the TS parameters of SI Accumulators. Updated all distractors to include reference to fuel damage. Changed distractor 'C' to a loss of TDAFWP as it is the only source of feed to the SGs (still incorrect but plausible). Updated stem to include abbreviations to minimize reader fatigue. This question was acceptable on the 2014 NRC Exam and CPNPP would like to leave the question in its original form unless provided changes are acceptable. Change the "will maintain" to "maintains" and "will lead" to "leads." Changed as requested Question now SAT.
10	F	4												N	~~E~~ S	Change containment to temp to 108°F, which changes the correct answer to A Changed containment to temp to 108°F Question now SAT
11	F	2												N	S	
12	H	2												B	~~E~~ S	2016 Bank (Last 2 exams) Remove "due to Moderator Temperature Coefficient" from the stem. Licensee agreed. Changes as requested. Question now SAT
13	H	3												N	S	

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
14	H	3				X								M	~~U~~ S	~~2015 Bank (Last 2 exams)~~ Modified Bank Are the part 1 distractors for C and D plausible? If the misconception is that the valve fails closed, wouldn't the flow to the S/Gs remain the same? I am guessing that the valve is already closed prior to the failure? (This is also a stretch on the K/A match. What controler and/or positioner failed?) Licensee agreed. Question part 1 modified to ask a nonmutually exclusive topic. Part 2 is now the original part 1 with MDAFWP 1-01 feeding all SGs. Part 2 choices are now "lowered" and "remains the same" per comment above. K/A is matched since this positioner's failed state on a loss of Instrument air is the valve being open. The candidate is being examined on the change in system parameters based on this failure, not just a simple fail state.This raises the level of cognition required. Question is now Modified Bank. Question now SAT
15	H	2												N	~~E~~ S	Don't see need for 4th bullet in stem. Distactors C and D: change WILL to SHOULD 4th bullet in stem required as ABN-602 step 4 will NOT be performed if bus NOT needed immediately. Updated procedure reference to show flowpath. Changed WILL to SHOULD. Updated plausibilities with "should" vs "will" Question now SAT
16	H	3												B	S	2010 Bank
17	F	3												N	S	

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
18	F	3					X							B	~~U~~ S	2012 Bank The question asks which combination of monitors will cause the valve to go closed. There is not really any combination, a high alarm on 5570A OR 5570B OR 5701 will close the valve. Therefore, distractors A, B and C are all correct. Licensee agreed. Changed stem to read "Which of the following choices of radiation monitors BOTH input to X-HCV-014, Waste Gas Discharge Control Valve and automatically close the valve?" This forces the applicant to choose the answer which has BOTH rad monitors listed. Question now SAT
19	H	2												M	~~E~~ S	Modified 2012 Bank Since the part 2 distractors for B and D state a specific pump, the part 2 distractors for A and C should state a specific EDG. Why did you take specific pressures and flows out of the distractors? Licensee agreed. Changed A & B part 2 to "place DG 1-01 in PULL OUT". Specific values for header pressure and flow were removed from original bank question because the original question did not have different values for pressure, or different values for flow between distractors. Question was simplified by just asking pressure or flow. Question now SAT
20	F	2												B	S	2014 Bank Is it operationally valid that work would be in progress inside the generators and fuel inspection equipment repair would be ongoing during fuel movement? Yes it is operationally valid CPNPP does Eddy Current testing and SG sludge lancing during fuel movement. Old Outage Schedule provided in attached references. Also, CPNPP can install a lift gate on the Wet Cask Pit to lower level and repair equipment on the hooks during core offload.
21	F	3				X								B	~~E~~ S	2015 Retake Bank Change containment pressure to 44 psi and increasing to make it closer to the design limit. Otherwise, it is an LOD1 question. Change "will" to "should" in all of the distractors. Changed containment pressure to 44 psi and rising, and changed "wills" to "shoulds" Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
22	F	3				X								N	~~U~~ S	2013 Bank Distractors A and C are not plausible. The question is asking how overall cooling changes, not the design margin. If all trains of cooling are operating and then one fails, of course overall cooling is reduced. Disagree - For example, if FCV-618 or FCV-619 were to close and were unable to be re-opened then all flow would divert through the RHR Heat Exchanger and overall cooling to the core would increase. This would be a failure of one train that results in cooling increasing. In this case the applicant must analyze the RHR system for the failure of FCV-607 and determine how this affects core cooling (decreases in this case). this makes distractors A & C plausible. This question is also testing if the applicant nderstands what the design analysis assumptions are for ECCS. Often applicants confuse the design analysis of the system with system capabilities. In this question distractors A & C are playing off that common misconception by using the word "because." Write a new question with a resampled K/A Wrote new question with K/A 006 K6.05 Question now SAT
23	F	3	X											M	~~U~~ S	Modified 2015 Retake Bank Don't see how C and D could be credible as they refer to a component that doesn't exist. None of the information provided in the stem conditions is needed to answer the question. The distractor provided in this question does not exist in this system, however, it does exist in other systems with a typical heat exchanger. This is a common method of testing applicants on typical misconceptions. Plausible distractors from other systems are commonly used as distractors. This is the same distractor that was used on the original bank question with better wording. This is a method of heat removal for most fluid type systems and a reasonable distractor. Change Heat exchanger to "sparges into the water space." Add "MINIMUM" to the rupture disk design statement Made changes as requested Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
24	F	2												N	S	
25	F	2												N	~~E~~ S	Stem too wordy; combine sentences together descibing one "condition." Seems closer to LOD=1 than LOD=3. Combined two sentences, changed LOD to 2 Question now SAT
26	F	3												N	S	Changed stem to "voltage lowers to < 105 volts." This change was made because this is the setpoint at which the transfer will occur.
27	F	2												N	S	
28	H	3												M	S	Modified 2012 Bank
29	H	1												N	~~U~~ S	Only LOD=1 knowledge necessary to eliminate distractors B and D (rods going in to increase Tave). The Tave-Tref deviation provided does not tell the applicant if Tave is too high or too low for given power. The applicant must know what a negative Tave-Tref deviation control board indication means and apply that knowledge to answer the question. Also, the plausibility provided in the question clearly states how an applicant could reasonably believe that rods must be driven IN with a negative Tave- Tref deviation. CPNPP believes it is license level knowledge to understand the proper direction of rod motion based on Tave-Tref mismatch. The calculation that must be performed to determine proper rod speed makes this question LOD=3. Replace stating that Tave-Tref is -4°F and replace with a picture of the control board meter, indicating -4°F. Added picture of meter, and removed statement of Tave-Tref value. Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
30	F	3												N	~~E~~ S	This is not a higher cognitive question. Two parts that are each memory or findamental knowledge. I would prefer the part 2 stem be changes to 45% power, and the correct answer be C. I think the question is too easy if you are talking about going above 48%, then asking how many loops must have low flow. Changed question to memory. Moved Part 2 of question to Part 1 and vice versa. Changed to 45% power and made correct answer C. Updated plausibilities. Question now SAT
31	F	2												N	S	
32	H	2												N	~~E~~ S	It is LOD=1 that dumping steam is a means of removing heat One of the concerns of Natural Circulation is the formation of a void in the Reactor Vessel Head and transferring that void to the SG U-tubes. The SG Utubes must remain sufficiently cooled to prevent transferring the bubble. Raising SG Water level to ensure the SG U-tubes are covered will also aid in heat transfer from the RCS to the Secondary and may increase Natural Circulation, however, in this case it is not directed by EOS-1.2A and therefore cannot be correct. It is reasonable to believe that raising SG water level could be a correct choice. It is not LOD 1 to ask if dumping steam is directed by EOS-1.2A to establish Natural Circulation as it is the RNO of Step 22 of the procedure and requires integrated plant knowledge. Change part 2 distractors to "increase feedwater flow" and "operate atmospheric dump valves." Changed distractors to "raising AFW flow" and "opening ARVs." Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
33	F	2				X								M	~~E~~ S	Modified 2005 Retake Bank Phscometrically unsound question since distractor D is the only one that is not Monitor Light Box Panels 45A and 45B, and can thus be easily eliminated. Agree - changed distractor 'D' to "orange", deleted reference to MLBs 45A and 45B, and made question fill in the blank. Updated plausibility for distractor 'D' and added refernces to support. The color orange is plausible as this is the color used for phase B isolation. Question now SAT
34	F	3				X								N	~~U~~ S	Distractors A and C easily eliminated. Even if either were correct, it would first require suspending core alterations, since that is the action for 1 inoperable. Question distractors altered per comment to include "Suspend Core Alterations immediately..." in the stem. Comment is making an assumption that all applicants know that suspending core alterations immediately is always the correct action, CPNPP would argue that testing this piece of knowledge is acceptable at the RO license level. Modified version of question addresses comment and further tests the application of the Tech Spec. Change stem to state Which of the following actions is required per the tech spec. Changed stem to state, "Which of the following actions are required per Technical Specification 3.9.3" Question now SAT
35	H	2												N	S	Question says D is the correct answer, but distractor analysis says B is the correct answer. (I think D is correct.) Change part 1 question to ask what actual level to rise or lower. This requires more comprehension to first recognize what the indicated level will do, and what subsequently what actual level will do. This would change the correct answer to B. Question kept as indicated level because the control system is in manual in the question stem. If control system is in manual actual level will not change. Updated plausibilities to identify correct answer as D.

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
36	H	3				X								N	~~U~~ S	Distractors A and B are easily eliminated. Inadvertent dilutions are a somewhat common occurrence without reactor trips. Changed Part 1 of distractors A & B to "steam line break." This is a plausible distractor as a steam line break could result in a reactor trip. Updated plausibitites to reflect steam line break as a plausible correct answer. Question now SAT
37	F	2												N	S	Is this minutia? Does this meet the intent of the K/A for the system purpose or function of Circ Water? This does meet the K/A as one of the major functions of Circ Water is to supply cooling to the Ventilation Chillers. We do not believe this is minutia as this is one of the major functions of the system and is taught in License Class. We are asking 1) about CCW and Circ Water functions and 2) Unit differences.
38	F	2												B	S	2013 Bank
39	H	2												N	~~E~~ S	Distractors would be better if they were all in gpm, or in some kind of descriptor (consistency) Updated question to all descriptors vice some flows. Unable to use specific flow values as flows will change based on RCS pressure change. Question now SAT
40	H	3		X										M	~~U~~ ~~E~~ S	~~2013 Bank~~ Modified 2013 Bank Question 30 already tests knowledge on the reactor trip with three loops, thus eliminating distractors A and C Agree - Question 30 overlapped with Question 40. Modified Question 40 Part 2 to ask what will happen to RCS Loop 2 Differential Temperature upon trip of RCP 2-02. Part 1 of stem should be SG 2-02. Changed stem to SG 2-02 Question now SAT
41	H	3												M	S	~~ILOT Bank~~ ILOT Modified Bank (REFERENCE PROVIDED) Is it possible to modify the initial conditions and make this a modified bank question? Question now modified as requested.

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
42	F	3		X										B	~~U~~ S	2014 Bank Question 3 cues the correct answer, since all answer choices in Question 3 have 1-HV-4572 either open or throttled open. Question 3 modified to train B CCW only to eliminate reference to 1-HV-4572 and prevent cueing answer to Question 42. Question now SAT
43	F	2												N	S	

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
44	F	2				X								B	~~E~~ S	2015 Retake Bank Distractor A not credible as it is the only anwer that has actual pressure lowering. Distractor D not credible as it is not associated with the failed channel. Distractor 'A' is plausible because the pressurizer pressure channel has failed low. It is reasonable to believe that the reason for placing the controller in manual prior to switching to an alternate controlling channel is because if the controller remained in auto during the switch, the circuitry might see a second erroneously low channel and cause a Reactor Trip on low Pressurizer pressure. This distractor is meant to draw in the applicant that believes that the sequence of operations due to a possible circuitry issue is important, rather than the actual proportional/integral controller response of time and distance away from controller setpoint. Distractor 'D' is plausible because the controller, 1/1-PS-455F, uses channel 456 to establish lift setpoint for PORV 456. It is reasonable (plausible but incorrect in this case) to believe that the sequence of operations of selecting an alternate channel could cause the previously used input to place an erroneously high signal in the circuit and cause PORV 456 to open. This is essentially the same reasoning for the correct answer and what causes PORV 455 to possibly open when selecting an alternate channel. Also, with the channel failing low all heaters will energize causing PRZR pressure to rise and with no operator action PCV-456 would eventually lift on high pressure. Change second bullet to "controlling channel failed low" and remove spurious from distractorrs C and D. Changed as requested Question now SAT
45	H	3												B	S	2016 Bank (Last 2 exams) Is this really LOD=4? It seems that the knowledge being tested is knowing that UV trips de-energize to trip, and shunt trips energize to trip. This question was high miss during validation and has been historically a high missed question. Question rated as LOD =4 based on previous results. Question changed to LOD=3 per response.

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
46	H	3												B	~~E~~ S	2010 Bank Distractor D could be argued as a correct answer. The distractor analysis states that the PRT could rupture. The distractor simply says a rise in containment pressure, not a rapid rise in pressure, as the distractor analysis states. Distractor B seems to employ impossible physics. If natural circulation is enhanced, wouldn't ΔT rise? The stem states "A rapid..." to be placed at the beginning of each distractor. This eliminates 'D' as a correct answer. Underlined the word "rapid" in the stem and moved to the beginning of each distractor. Changed distractor B to "A rapid drop in core differential temperature as Natural Cirulation degrades." This is plausible as some voiding may occur during depressurization which may hinder natural circulation, however, any drop in core differential temperature would not be rapid. Rearranged all distractors to shortest to longest. Question now SAT
47	H	3				X								N	~~U~~ S	The use of the word "Minimum" does not remove the subset issue for this question. Replace "Minimum" with "Set point" Change made as requested. Question now SAT.
48	H	4				X								N	E	Distractors B and D not credible. Whether brittle fracture or thermal shock is the concern, maximizing flow would never be the correct response Disagree - the only thing that makes distractors and D part 2 incorrect is the RCS temperature NOT increasing. If RCS temperature were rising these would be correct distractors. See attached reference that clearly states when RCS temperatures is increasing AFW flow must be raised to maximum available rate. Change current plant conditions to RCS temp 562°F and rising, and make D the correect answer. Changed RCS temp to 562°F and rising. Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
49	H	3												B	~~E~~ S	2014 Bank There is no mention in the attached references that the depressurization is for accumulator discharge. Updated attached references with ECA-0.0A bases information to explain that depressurization is for accumulator discharge. Also noticed a psychometric flaw in the correct answer (A). Rearranged 'A' and 'D' to place the word "Minimizes" at the front of the sentence, thereby, matching the "Minimizes" at the beginning of distractor 'D'. Question is now true 2x2 format. Question now SAT
50	H	3				X								B	S	2015 Retake Bank The stem cues that the switch is "1" for 459 and "2" for 460, rendering distractors A and B implausible. Can the second bullet be changed to just sate "The pressurizer level control select switch is selected to 459/460?" Unable to comply as the switch nomenclature of "1/2" only means this is a Unit 2 switch. It does not have anything to do with the channels used for input. A Unit 1 switch would read "1/1". The original nomenclature used on the bank question was incorrect and properly updated for this exam. The original bank question nomenclature stated "2-LK-459" which is the controller and not the PRZR Level control channel select switch.
51	F	3												B	S	2016 Bank (Last 2 exams) Fail to see how this question meets the K/A. Need to have it explained. This question meets the K/A as the stem describes a loss of CCW flow with no SSW flow. The question regarding the restoration process is examining the fundamental knowledge of the system interrelation between SSW and CCW (ie pressure difference) and the importance of WHY the HX should be filled and vented first for recovery of a loss of CCW. This same knowledge would be applicable regarding a leak from between the systems in terms of volume lost (ie CCW surge tank lowering due to leakage into SSW).

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
52	H	3												N	S	This question borders on SRO-Only level of knowledge since the entry criteria for the correct answer, is through a yellow status tree, which ROs are not required to know from memory. This question is not SRO only as the applicant must use system knowledge to determine the combination of two things: 1) the component that will fail without a backup means of holding the valve in position and 2) the procedure to enter (based on procedure title alone) that will mitigate the previous failure. The titles on each of these procedures provide the applicant with the information necessary to use the system knowledge he/she has from memory and answer the question correctly. The procedure titles were used vice just asking what will happen to PRZR level or SG level to meet the intent of the K/A that is asking how a Loss of Instrument Air will affect parameters used to assess the status of safety functions.
53	H	3												B	S	2013 Bank
54	H	2					X							N	~~U~~ S	No correct answer as written. CA-1.1A directs makeup when level is 10%. The way the procedure is written, you are checking level greater than 10%, not greater than or equal to 10%. Agree - changed distractors A & B Part 1 to 10% Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
55	H	2		X										N	~~U~~ S	Second half distractors should be is (are) and is (are) not. As written, the distractors are written singular, cueing that it is one generator, so A or B is the correct answer. Is it possible that A is also correct. Just because the green band on the pump stops at 575 psi, doesn't mean condensate pressure isn't higher. Changed Part 2 distractors to is(are) and is(are) NOT. This eliminates any possible cueing. The Condensate Pump Shutoff head is 1400 ft which converts to 606 psia. However, per FRH-0.1A, SG pressure must be less than 500 psig to support adequate condensate flow to the SGs. The question specifically states "In accordance with FRH-0.1A" which eliminates the possibility of two correct answers. Added reference with picture of Condensate Pump discharge Header Pressure meter to show green band of pump pressure on control board. Question now SAT
56	H	2												N	~~E~~ S	REFERENCE PROVIDED Change initial conditions so you are below 50% power, and tripping the turbine is the correct answer. Changed generator output to 550 MWe, which makes A the correct answer. Question now SAT
57	H	2												B	S	2012 Bank
58	F	2												B	S	2013 Bank
59	H	3												M	S	Modified 2015 Bank
60	H	3												B	S	2011 Bank
61	H	3												B	S	2015 Retake Bank

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
62	F	2											X	N	~~U~~ S	~~2015 Farley Bank~~ Part 1 distractor is SRO only knowledge. FRH-0.2A entry conditions are a yellow path from the Critical Safety Function HEAT SINK Status Tree. RO level is only Red and Orange Path. Agree - wrote new question. Changed correct answer to 'B'. New question is Memory with LOD = 2. 10CFR Part 55 Content 41.7 Question now SAT
63	F	2												M	S	Modified 2013 Bank
64	H	2												B	S	2013 Bank
65	F	2		X										N	~~U~~ S	How does this meet the K/A of EOP entry conditions? Changed question to test RCP undervoltage condition and power interlocks requiring a manual or automatic reactor trip which will also require entry into EOPs. ABN-101, RCP Trip/Malfunction, Section 2.0, RCP Trip, first step is an "Initial Operator Action" to trip the Reactor if any RCP trips regardless of power level. Question now SAT.
66	F	3												B	S	2014 Bank
67	F	2												N	S	
68	F	2												N	~~E~~ S	Remove "but must be capable of being closed" from distactors C and D. Tends to make the answer moe obvious Removed "but must be capable of being closed" from 'C' and 'D' as requested. Question now SAT
69	F	3												N	S	
70	F	2												B	S	2005 Retake Bank

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
71	F	3				X						X		N	~~U~~ S	Answer obvious as the Shift Manager is the only licensed individual. Agree - removed Plant Manager from selections and added Shift Ops Manager (SOM). The SOM is plausible because they are the senior licensed person at CPNPP and the direct supervisor of all Shift Managers onsite (per ODA-102). It is reasonable to believe that the SOM would be responsible for conduct of IPTEs. Rewrote entire question. Question now SAT.
72	F	2												M	S	~~2014 Bank~~ Modified Bank Is it possible to change the background radiation to a different value and make it a modified bank question? Question modified as requested. Question is now Modified Bank Question now SAT
73	F	2												B	S	2014 Bank Is it possible to change information in the stem and make it a modified bank question? Spent 20 man hours attempting to modify question and unable to properly modify. Question remains Bank
74	H	2												B	S	2012 Bank
75	H	3						X						B	~~U~~ ~~E~~ S	~~2011 Bank~~ ILOT Bank No discriminating value in this question. Resample with another K/A. Resampled K/A, selected K/A 2.4.14 and randomly selected bank question to replace. Update Outline and 401-4. Change part 2 distractors on A and D to simply say Adverse Containment values must be used. Changed distractors as requested. Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
76	H	2		X									X	N	~~U~~ S	~~2010 Bank~~ This question is too similar to question 61 in the RO section. Also, this question is RO level of knowledge. (ES-401, Attachment 2, page 7, "SRO-only knowledge should not be claimed for ... plant parameters that require direct entry to Red/Orange Functional Restoration Procedures.) Shouldn't distractor D say subcooling LESS than 25° instead of greater? Agree - wrote new question similar to question submitted on free review (incorporated comments from free review) to meet SRO Only knowledge criteria and adress overlap concerns. Question now SAT
77	F	3												N	S	In analysis for distractor D, second part should state "see C" not "see B" Corrected distractor analysis
78	H	2												N	~~E~~ S	At time 0800, remove "due to a LOCA" from the second bullet. At time 0803, please replace "safety injection initiates due to low RCS pressure" and put in a pressure that is less than SI actuation. Removed "due to a LOCA" from second bullet. Replaced "Safety Injection initiates due to low RCS pressure" and replaced with "RCS pressure = 1700 psig lowering" at time 0803 as requested. Question now SAT
79	F	2												N	S	
80	H	3												B	S	2016 Bank (Last 2 Exams)

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
81	H	4												B	~~E~~ S	2014 Bank Distractor A does not appear plausible as three out of the four SG's are 540 psig and only one is 15 psig, but the procedure reference is uncontrolled depressurization of ALL steam generators Distractor A is plausible because EOP-2.0A, step 2 asks if at least one steam generator pressure is stable or increasing. In the stem all steam generator pressures are lowering. The RNO for step 2 is a transition to ECA-2.1A. The only reason ECA-2.1A is not correct is because all SG pressures are not lowering uncontrollably. The applicant must determine from memory what step 2 in EOP-2.0A states and then determine from memory that the choice is incorrect based on what the RNO for step 2 states. Reorder the distractors such that the order would be A-D-B-C (based on current order) which changes correct answer to C. Reordered distractors Question now SAT
82	H	2												N	S	
83	F	3												N	S	
84	H	3												N	S	
85	H	3												B	~~E~~ S	2011 Bank The number of channels is unnecessary and offers little to this question other than making it easier. Delete number of channels from all four distractors. Removed number of channels from each distractor as requested. Question now SAT
86	F	3		X										B	~~U~~ ~~E~~ S	2012 Bank Answer is in the cue. The cue tells you that you are in EOS-0.2A Removed EOS-0.2A from the stem and stated crew is performing NC cooldown per ERG Network. Remove "from ERG network" from the stem. Removed "from ERG network Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
87	H	3											X	N	~~E~~ S	RO level of knowledge. Only system and reactor trip criteria knowledge necessary to answer question. Disagree - this question is testing knowledge of the CONTENT of ABN-101. The applicant must, from MEMORY, determine the correct procedure with which to proceed based on a chart in ABN-101. The applicant must remember amplifying information from the chart in order to determine what the RCP Total #1 Seal Flow is because this information (#2 seal leakoff flow) is not provided in the stem. After calculating RCP Total #1 Seal Flow, the applicant must use this information to select a procedure to execute. Per NUREG-1021, ES-401, Attachment 2, Paragraph II.E, "One area of SRO level knowledge (with respect to selecting a procedure) is knowledge of the CONTENT of the procedure versus knowledge of the procedure's overall mitigative strategy or purpose." CPNPP requires Reactor Operators to know the RCP trip criteria due to temperature parameters or vibration levels. The question meets all requirements of NUREG-1021 for testing SROs at the appropriate level. Change so that total seal leakoff flow is < 8, and temperatures are rising. Changed as requested Question now SAT
88	H	3												N	S	
89	H	1												N	~~U~~ S	~~REFERENCE PROVIDED~~ Direct lookup question with the reference provided. This qustion would be ok without the reference, but could be improved if the second part distractors were a specific power level. Reference removed per request, however, withot the reference provided it is unfair to ask specific power level the plant must be reduced to. Question distractors left as power "does" or "does NOT" have to be lowered. Question now SAT
90	H	2												N	S	
91	F	3												N	S	

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
92	H	2												N	S	
93	F	2												N	S	
94	F	3												N	~~E~~ S	In stem, change "shift manager will direct" to "shift manager is procedurally required to direct" Changed "Shift Manager will DIRECT" to "Shift Manager is procedurally required to DIRECT" in Part 2 of the question as requested. Question now SAT
95	F	3												M	S	Modified ILOT Bank Need to ensure that 8 NEO's is absolutely correct. It appears one could argue that 7 is the minimum on-shift staffing requirement per the reference. During discussion, the licensee stated that 8 is absolutely the correct answer.)
96	H	3					X							N	~~U~~ S	Both distractors A and C are correct. Surveillance must be performed on the other pump at some time (whenever it is due) but the stem does not specify immediately. (Even that could potentially be correct if the surveillance is due immediately). III should be something that needs to be done specific to the pump exceeding the alert limit. Agree - slightly modified the stem to qualify that the question is asking specifically about the requirements per ODA-308 due to the pump parameter exceeding the Alert Limit. Also added the word IMMEDIATELY to the stem to ensure the applicant knows the question is asking what is required right now. Added a reference to show that the test frequency must be increased immediately. Part III, added a purpose to show that a common cause failure is the reason why the surveillance would be performed on the other train's pump. Changed the Roman numerals to normal numbers. Question now SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
97	F	3												M	~~E~~ S	2014 Bank Distractors do not use consistent terminology. What's the difference between inialling and dating changes, performing a technical review, revising, and editing? Looks like "revise" is the only offical term used in the reference , which could also cue the correct answer. Also, A and B use verbal and written authorizations and C and D don't use either one. Which is it? Need to revise all four distractors. Modified entire question to make 2x2. Updated procedure refernces to better explain the terms "editorial change" and "revision" and the differences between the two. Question is now Modified Bank. Question now SAT
98	F	2						X						M	~~U~~ S	2016 Bank (Last 2 Exams) Question appears fundamentally flawed - We should not be testing SRO's on the difference between "should" and "shall." If the SRO is required by regulations (shall) to observe, then by definition he/she "should" do it as well. Both B and D could be argued correct. Agree - CPNPP recognizes the differences between 'shall' and 'should,' however, the concern is understandable, therefore, the question has been modified to ask if a SRO is required to observe the evolution per the FSAR and station procedures, to remove the testing of 'should' vs 'shall.' Question is now Modified Bank Question now SAT
99	F	3				X								N	~~U~~ S	Both C and D are correct as written, as the shift manager is also an additional SRO. Reword the stem to be clear that you are looking for requirements as a MINIMUM REQUIRED BY PROCEDURE. Agree - changed the stem to state that the Unit 1 US has already approved the deviation and asking if the Unit 2 US is authorized to concur with the deviation. Question SAT

Q	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. Source (B/ M / N)	7. Status (U /E /S)	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only			
100	F	3				X								B	~~U~~ S	2013 Bank Just choosing the least significant duty gets the correct answer. Changed correct answer to "Activating and Directing the CPNPP Emergency Response Organization." This choice seems more significant. This choice significantly increases the LOD of the question. LOD updated to 4. Question now SAT