

Watts Bar 2009-301

Q#/ Q#	1. LOK (C/A)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
<p>Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 distracters contain cues (i.e., clues, specific determiners, phrasing, length, etc). The answer choices are a collection of unrelated true/false statements. One or more distracters is not credible. One or more distracters 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: <ul style="list-style-type: none"> 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 <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable). Based on the reviewer's judgment, is the question as written (U)nacceptable (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). <p style="text-align: center;">RO/SRO Combined Question</p> <p>Generic: NP = Not plausible NDV = No discriminatory value CAF = Check at facility WOOTF = Which one of the following DV = discriminatory value</p> <p>FACILITY RESPONSE COMMENTS: <i>Please type all facility responses in blue. Do this for each question</i> Put all periods and question marks inside the quotes where applicable Highlighting the references (and providing references to validate distracters) would have significantly reduced Chief Examiner evaluation time. I had to resort to digging into the supplied electronic reference to verify. The reference material did not do a good job in justifying distracters. Some Q had KA justification statement and some didn't. Many questions have an inadequate explanation as to why the distracters are plausible EX (Q 55 - KA 103K1.01). Ask the question to yourself, what would lure the applicant to select this choice?</p>																

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5	M	2					X						Y	N	E	D is a NP distracter because there is no indication of voiding in the tubes (for reflux boiling) and there won't be with T = 195 even at ambient pressure. Therefore, replace distracter D. RFA 04/01/09 Distractor D replaced with "Normal charging into RCS and removal of water via manual Pressurizer PORV control" which is an alternate cooling method but not the preferred method. Modified stem and all 4 choices Approved 04/29/09 RFA
6	C	2											Y	N	S	000026AK3.04 No comment RFA 04/01/09 Approved 04/29/09 RFA
7	C	2				X							Y	N	U	000027AK1.03 Distracters A,B, and C make absolutely no sense even for someone with limited thermodynamic knowledge. Distracters A, B, and C are NP and D is correct but for the wrong reason. Rewrite C to look just like D except change cooler water to hotter water. For A and B, write two distracters that involve the Pzr heaters. This Q is U because of 3 NP distracters. RFA 04/01/09 Rewrote 'C' to look like 'D' except for 'hotter', rewrote distracters 'A' and 'B' to address thermodynamic principles and to include pressurizer heaters. Modified stem and all distractors Underlined "occurs in the Pressurizer (PZR)" in the WOOTF statement to focus on the change in the pressurizer versus the change in the RCS. Approved 05/14/09 RFA
8	C	2					X						Y	N	E	000029EA1.12 P-4 functions description was not provided in the references. Please explain why "reactor trip functions will occur normally" is a good part 2 distracter for A and B. RFA 04/01/09 Modified to remove reactor trip functions occur normally aspect. Approved 04/29/09 RFA
9	C	2					X						Y	N	E	000038EK1.03 In the answer (A), remove "the upper head region becomes inactive and." This part gives the answer away. Since the whole RCS is inactive because the RCPs are off, the correct answer does NOT need to be telegraphed. RFA 04/02/09 Modified the 'A' distractor to read "The fluid temperature in the upper head region significantly lags the temperature in the RCS loops." Could not remove the entire phrase because the wording left would not ID which region was lagging. Approved 04/29/09 RFA

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10													N	U	000054G2.2.22 This KA is supposed to reference a Loss of Feed CAF: re-write Q if necessary or explain. This Q is U until this discrepancy is resolved. RFA 04/02/09 NEW question written. Modified stem by redefining bullets and changed SG setpoints, Approved 04/29/09 RFA	
11	C	3											Y	N	S	000056AK1.04 No comment RFA 04/02/09 Approved 04/30/09 RFA
12	C	2											Y	N	S	000057AA2.19 No comment RFA 04/02/09 Modified one distractor 04/30/09 approved RFA
13	C	2				X							Y	N	E*	000058AA1.02 The fact that a loss of a vital inverter will ALWAYS result in some sort of TS entry renders A and B NP. However, this is an easy fix. For A and B second part add TS X and Y . For C and D state TS Y only . This Q is E* because the Q is technically a U but can be fixed with a minor change RFA 04/03/09 Modified question to address 2 T/S conditions as described above. Added only in distractors C and D. Modified stem wording and question structure to accommodate the changes. 04/30/09 approved RFA
14	C	2					X						Y	N	E	000062AA2.01 The Q is NOT psychometrically balanced. In C and D. In C and D change " A supply header has ruptured " to " A rupture has occurred " As it stands, distractor B is NP RFA 04/03/09 Made the change identified above in C and D. Modified one distractor 04/30/09 approved RFA
15	C	2	X										Y	N	E	000065AK3.03 CAF: Do you need to state in the stem "With No Operator Action"? If the board operator places the MFP in manual, will this have the same affect as if he left it in auto? RFA 04/03/09 Added phrase "(Assume no actions taken by the Main Control Room Operator during the event)."

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	C	2	X				X						Y	N	E	Remove "in back D, Group2) from 3 rd bullet. Otherwise, distracter A is NP. RFA 04/03/09 Removed "in back D, Group2) from the 3 rd bullet. Modified distractors A and B to prevent having to know which group M-12 was in. Restructured stem of question. Restored question to the original format with minor modification. 04/30/09 approved RFA
21	C	2											?	N	E*	The KA # is incomplete CAF: Resolve KA RFA 04/06/09 Added "000028" to complete the KA# - 000028 AK1.01. 04/30/09 approved RFA
22	C	3											Y	N	S	000033AA2.01 No comment RFA 04/06/09 04/30/09 approved RFA
23	C	2	X				X						Y	N	E	000059AK2.02 The distracter analysis does not support any of the choices. B states the reason is correct when in fact it is NOT. D states that the radiation monitor is correct when in fact it is not. CAF verify plausibility of distracters. RFA 04/06/09 Reworded distractors to address plausibility issue. 5/6/09 approved RFA
24	M	2				X							Y	N	U	000076AK3.05 B and C are NP since there is no reason to isolate LD. Replace these two distracters. This Q is U because of two NP distracters RFA 04/06/09 Added phrase "in conjunction with normal letdown" to B is indicate letdown not isolated. Replaced the C distractor with "The cation bed is placed in service at 120 gpm flow in order to reduce the amount of fission products in the reactor coolant system". Modified wording on correct answer D. Modified 2 distractors 04/30/09 approved RFA
25	C	2					X						Y	N	E	E08EA1.3 With PTS in play, distracter C (increasing RCS pressure) is NP. Replace C. RFA 04/06/09 Replaced distractor C. Modified stem - Must validate subcooling numbers Changed subcooling value to 80 deg. F. 5/6/09 approved RFA

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26	C	2				X							Y	N	U	E14EK2.1 C is also a correct answer because the SI signal cannot be reset until Containment pressure is less than the SI setpoint (15 psig) This Q is U because of two correct answers. Replace C. RFA 04/06/09 Modified the question to eliminate multiple correct answer issue by addressing the Auto SI block function when SI is reset. Reworded stem. 5/6/09 approved RFA
27	M	2				X							Y	N	U	E15EK1.2 The second part of A and B is not plausible. It's a LOCA as stated in stem. It's obviously RCS water from somewhere. This Q is U because of two NP distracters. RFA 04/06/09 Replaced distractors A and B, second column. Made stem modification. Added discussion in the distractor analysis to explain plausibility, added reference. Added clarification to two choices to include a more accurate description per the applicable reference; i.e., TSC aspect. Approved 05/14/09 RFA
28	M	2											Y	N	S	003K2.02 No comment RFA 04/06/09 Adjusted distractors B and D 04/30/09 approved RFA
29	C	2	X			X							Y	N	E*	004A2.05 C and D: The phrase "after 3-5 minutes) is a key phrase. Applicants will be able to eliminate A and B immediately. Move this phrase "after 3-5 minutes" to the stem. This Q is E* because the Q is technically a U but can be fixed with a minor change RFA 04/06/09 Moved the phrase "after 3-5 minutes" to the stem. Also moved the word "close" from all 4 choices to the stem. Phrase now reads "after 3-5 minutes close." Modified stem, 04/30/09 approved RFA
30	C	2					X						Y	N	E	004K5.08 The CR calculation is good. There was no proof regarding the amount of primary water to be added. CAF: Prove the first part of the calculation. RFA 04/06/09 Added discussion of water added in the distractor analysis.

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															04/30/09 approved RFA
31	C	2	X									Y	N	E	<p>005K3.06</p> <p>Delete (Evaluate each condition separately). There is only one correct answer. The words "less than adequate" are somewhat "purple." Change to "nonfunctional, inoperable, unavailable, etc."</p> <p>RFA 04/06/09</p> <p>Deleted (Evaluate each condition separately) and changed wording from "less than adequate" to "unable to be aligned" and restructured question sentence.</p> <p>Modified stem</p> <p>04/30/09 approved RFA</p>
32	M	2					X					Y	N	E	<p>006A4.05</p> <p>Change B to read "NOT occur because an SI signal is still present to the RHR sump valves" because B, as written, does not call out the manual actions and is therefore, NP because will be immediately eliminated.</p> <p>See reference 3-OT-SYS063A, P 20 of 67</p> <p>RFA 04/06/09</p> <p>Changed B to read "NOT occur because an SI signal is still present to the RHR sump valves" as identified above.</p> <p>04/30/09 approved RFA</p>
33	M	2	X			X						Y*	N	E*	<p>007K4.01</p> <p>A and C are also correct answers because the stem does not have a qualifier. Add the word "maximum" to the stem and make this Q a fill in the blank.</p> <p>This Q is E* because the Q is technically a U (multiple correct answers) but can be fixed with a minor change to the stem.</p> <p>RFA 04/06/09</p> <p>Added qualifier and made fill in the blank.</p> <p>*Question replaced to better match the K/A.</p> <p>05/19/09 approved RFA</p>
34	M	2					X					Y	N	E	<p>007K5.02</p> <p>Neither the reference material nor the distracter analysis demonstrate why A, B, and C are wrong or plausible.</p> <p>CAF</p> <p>RFA 04/06/09</p> <p>Rewrote question.</p> <p>Modified Stem, correct answer, and one distractor.</p> <p>Re-modified stem wording and first part of each choice</p> <p>05/19/09 approved RFA</p>

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35	M	2				X							Y	N	U	Distractors B and D are NP. Common knowledge dictates that a trip is not immediately required for a isolating LD as a result of a HX leak. It's common operator knowledge that if a CCS pump malfunctions, it won't lead to a RT. Replace B and C. This Q is U because of two NP distractors. RFA 04/06/09 Replaced the two implausible distractors. 04/30/09 approved RFA
36	M	2				X							Y	N	U	010K6.04 The distracter analysis is not adequate in explaining why A and B are plausible. The reference material does not lend any support in justifying the plausibility of these two distracters either. CAF: Justify A and B. This Q is U until justified. Just because it was on a previous exam does not mean it is plausible. RFA 04/06/09 Replaced the question. Minor rewording. 5/6/09 approved RFA
37	C	3											Y	N	S	012A2.01 No comment RFA 04/06/09 Reworded distractor D. 5/6/09 approved RFA
38	M	2											Y	N	S	012G2.4.35 No comment RFA 04/06/09 Question was not a complete technical description of procedural guidance as originally written; i.e., BOTH actions must be completed for a reset of the SI. There was no correct answer for the second part of the question due to the wording used. Revised the question to make the original answer accurate. Modified 2 distractors to provide plausibility for the new wording in the second part of the question. The new distractors identify the required action that follows the correct action and the question wording asks for which would be performed first. Approved 05/14/09 RFA
39	C	2											Y	N	S	013K2.01 No comment RFA 04/06/09 5/6/09 approved RFA
40	M	2	X										Y	N	E	022A3.01 The reference material provided is inadequate. It doesn't explain the logic. Distracter B states only 7 minutes has elapsed since actuation but doesn't state which actuation. Are talking SI or phase B? Which logic requires 9 minutes elapsed time SI or Phase B? If it is Phase B then change the WOOLF statement to 0354 to put it closer to the setpoint.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
																RFA 04/06/09 Added wording to the distractor analysis. Changed the WOOTF statement to 0354 Eliminate fan response aspect. Expanded to reason for damper response. Modified all distractors. 5/6/09 approved RFA
41	M	2				X							Y	N	U	025K1.02 Even if C or D were correct, A would be also. Therefore, C and D are NP. Change A and B by adding an "only" at the end. Change C to match D since D is more plausible, then add A to C and add B to D. This Q is U because distractors C and D are NP because of A and B. RFA 04/06/09 Added "only" to A and B. Changed C to match D and added A to C and add B to D as identified above. Underlined "directly" in stem. 5/6/09 approved RFA
42	C	2											Y	N	S	025K4.02 No comment RFA 04/06/09 5/6/09 approved RFA
43	M	2	X										Y	N	E	026K4.09 Need an "IAW a procedure ____" in the stem to bullet proof the correct answer. RFA 04/06/09 Added "in accordance with ES-1.3" at the start of the question sentence in the stem. Rewrote to emphasize knowledge item of interlock feature. 5/7/09 approved RFA
44	C	2					X						Y	N	E	039A3.02 Add the word "only" to D and add D to A. This will add plausibility to A. Currently A is NP relative to D by itself. RFA 04/06/09 Added "only" to D- now reads "...in 5 seconds, only." and added D to A. Now reads "...700 psig or a rapid steam line pressure drop of 100 psig in 5 seconds." Reverted to original form of question. Changed a distractor value to 675 psig. 5/6/09 approved RFA
45	C	2											Y	N	S	059A2.03 No comment RFA 04/06/09 5/6/09 approved RFA
46	C	2											Y	N	S	061K5.03 No comment

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51	M	1											Y	N	U	B is such an obvious answer that this Q has very low DV. The DV needs to be increased to at least a 2. This Q is U because of low DV RFA 04/07/09 Replaced the question. Minor correction to distractor analysis for the correct answer: C. 5/6/09 approved RFA
52	C	2					X						Y	N	E	076A1.02 Given all these annunciators, D is NP. Replace D RFA 04/07/09 Replaced the question. Modified to change the pump that trips (A-A) which changes the correct answer to D. 5/6/09 approved RFA
53	M	2					X						Y	N	E	078A4.01 In distracter C, why is 75 a good number? I do not see the plausibility. CAF: re-evaluate C. RFA 04/07/09 Provided a statement for why 75 psig is plausible for distractor C. Restructured the stem and changed 80 to 75 in second part of distractor A. 5/6/09 approved RFA
54	C	2					X						Y	N	E	078K1.01 If D was correct, C would be also. In C add "only" before 6. RFA 04/07/09 Added only to C, now reads "but only 6 dump valves will..." Modified stem, and rewrote all four choices. Added controller nomenclature for clarity due to validation comment. 5/19/09 approved RFA
55	C	2				X							Y	N	U	103K1.01 Why is D plausible if loss of cooling water to 1A-a fan would not trip the fan or anything else. Why not say "the lower containment cooler 1D-B will have a reduced cooling capacity of approximately 10.5% due to isolation of ERCW" Since air return "fans" start on a phase B isolation, why not say for B, "the lower compartment cooler 1 D-B starts on a phase B isolation signal only" and in C state "the lower compartment cooler 1 D-B starts on a phase B isolation signal and the TCVs for the running cooler open more" In distracter add the word "only" This Q is U due to multiple NP distracters RFA 04/07/09 Modified to incorporate the distractor changes as identified above. Made 'cooler' plural in

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61	M	1											Y	N	U	All SFP have vacuum breaks. This Q, as written, has no DV. Replace the Q This Q is U due to low DV. RFA 04/08/09 Modified the question. Modified C and D level value for plausibility. 5/7/09 approved RFA
62	M	2											Y	N	S	034A1.02 No comment RFA 04/08/09 Note: K/A match is not exact (but acceptable) because the cavity seal is not part of the fuel handling system, however, the second part of the K/A is met because stem conditions do affect refueling canal water level. 5/7/09 approved RFA
63	C	2	X										Y	N	E	045G2.2.37 Underline "complete" in the stem to bullet proof the choices. RFA 04/08/09 Underlined "complete" in the stem. Based on validation changed operable to available 5/19/09 approved RFA
64	M	2											Y	N	S	068A3.02 No comment RFA 04/08/09 Minor editorial changes. 5/7/09 approved RFA
65	M	2	X										Y	N	E*	072A2.01 Since the area monitors instrument malfunction annunciator is lit, the second parts of distracters A and C are NP as written. Delete "evacuate nonessential personnel from the affected area" on both. This Q is E* because the Q is technically a U but can be fixed with a minor change. RFA 04/08/09 Deleted "evacuate nonessential personnel from the affected area" on distracters A and C. Modified stem to clarify procedure referenced. 5/7/09 approved RFA
66	C	2				X							Y	N	U	G2.1.4 Since a Unit Supervisor is always required for all modes, B is NP. Since there is never a situation where 2 NLOs are required, distracter D is NP. This Q is U because of two NP distracters. RFA 04/08/09 Rewrote all three of the distracters to eliminate the NP distracters.

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																Modified structure of all choices for readability. 5/7/09 approved RFA
67	M	2					X						Y	N	E	G2.1.42 Since 5 are allowed to be outside of approved storage, Distracter A (1) is not a good number. The distracter analysis was not convincing. Suggest consider using 6. RFA 04/08/09 Changed the number from 1 to 6. Then arranged choices in numerical order with D becoming 6 and A,B, C becoming 3,4,& 5 respectively. C becomes correct answer. Minor editorial to stem. 5/7/09 approved RFA
68	M	2				X							Y	N	U	G2.2.20 What is the difference between A and B? They are subtle and in a different order. CAF: re-evaluate A and B. I believe this Q currently has two correct answers. This Q is U until resolved due to two possible correct answers. RFA 04/08/09 Added "... identified by the troubleshooting" to the end of B distracter to identified that the work order was not written prior to the troubleshooting activity. Restructured all choices for readability. 5/7/09 approved RFA
69	M	2	X										Y	N	E*	G2.2.21 If A was correct, B, C, and D would also be correct. Re-write A distracter and put the word "only" after B and D. Cap the word "and" in C. This Q is E* because the Q is technically a U but can be fixed with a minor change. RFA 04/08/09 Added "only" to A and B, Capped the word "and" in C, and replaced the A distracter. approved subject to validation comments due to no direct procedure requirement. 5/7/09 RFA
70	M	2											Y	N	S	G2.3.12 No comment RFA 04/08/09 Modified distracter format. 5/7/09 approved RFA
71	C	2											Y	N	S	G2.3.14 No comment RFA 04/08/09 5/7/09 approved RFA
72	M	2											Y	N	S*	G2.3.15 This Q is weak. Distracter A is minimally plausible especially when you plug the words back into the stem.

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																However, will accept as is. RFA 04/08/09 Reformatted choices and stem. 5/7/09 approved RFA
73	M	2	X									Y	N	E		G2.4.9 In the WOOTF statement, add "...describes (1) the initial expected) RFA 04/08/09 Added initial to the WOOTF statement as described above. Modified stem conditions to clarify not solid water ops. To improve operational validity, the question was changed to solid water operation. Comments were received concerning how the pressure could rise rapidly to 600 psig with the question setup as originally written; i.e., a steam bubble would prevent a rapid pressurization due to changes in inventory. Approved 05/14/09 RFA
74	M	2										Y	N	S		G2.4.19 No comment RFA 04/08/09 Replaced distractor B and reordered it with A. 5/7/09 approved RFA
75	C	2				X						Y	N	U		G2.4.27 Make column (1), distractors A and B Condenser steam dumps or atmospheric steam dumps Make column (1), distractors C and D Atmospheric steam dumps ONLY A and B as they are, are NP. This Q is U because distractors A and B are NP RFA 04/08/09 Added "only" to C and D in column 1, changed Atmospheric Steam dumps to Atmospheric Relief valves to match plant terminology. Added Atmospheric relief valves to A and B in column 1, 5/7/09 approved RFA
SRO ONLY																
76	C	3										Y	Y	S		KA: 000008G2.1.20 No comment RFA 03/24/09 4/29/09 approved RFA

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77	C	3					X						Y	Y	E	KA: 000011EA2.01 CETs are NOT 1200 but 820 and rising slowly IAW the stem. Therefore, distracter C is NP. RFA 03/24/09 Revised question to add clarifying RCP status in stem, replaced distracter relating to SAMGs (CETs at 1200 degrees). Modifications made 04/29/09 approved RFA
78	C	2				X							Y	Y	U	KA: 000025AA2.06 Distracter C and D: are NOT plausible because it is common knowledge that single failure criteria applies. One PORV being OOS should not prevent a safety function. Replace C and D. This Q is U because of 2 NP distracters RFA 03/24/09 Modified question; changed stem, correct answer and all distractors in the first part of the question. Replaced question. Provided reference for LCO 3.4.12 due to validation comments. 05/19/09 approved RFA
79	C	3											Y	Y	S	KA: 000056G2.4.45 No comment RFA 03/24/09 04/29/09 approved RFA
80	C	3	X										Y	Y	E	KA: 00065AA2.03 TS are NOT involved in the answer selection. Where are they solicited in the stem? Only distracters C and D make reference to TS. Therefore, how are they applied per the "KA match and SRO only" statement? Added "in accordance with Technical Specifications" in stem. 4/29/09 approved RFA
81	C	3					X						Y	Y	E	With a LOCA outside Containment, sump recirc would not be in play. Therefore, distracter A is NP (Discuss plausibility of A with Chief Examiner; ECA-1.2 directs implementation of ECA-1.1). RFA 03/24/09 Modified stem and distractors To make the question operationally valid, the subcooling number was changed to 0°F. With RVLIS at 32 % the vessel level is covering only approximately the bottom 3.5 feet of the fuel, thus the system is at saturation and subcooling would not exist. Approved 05/14/09 RFA
82	C	3											Y	Y	S	028AA2.01 No comment RFA 03/24/09

Q#	1. LOK (C/A)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
88	M	2											Y	Y	S	No comment RFA 03/25/09 Modified stem and all distractors 4/29/09 approved RFA
89	C	3											Y	Y	S	062A2.06 No comment RFA 03/25/09 4/29/09 approved RFA
90	C	3	X										Y	Y	E	063G2.2.37 The choices are psychometrically unbalanced. Generate another inoperable statement and replace distracter D. If the applicant doesn't know the answer, he will eliminate D first. RFA 03/25/09 Generated a new distractor to replace distractor d and placed in B, moved the original B distractor to C and the original C distractor to D to balance. Modified stem and all distractors Editorial only to prevent the time line from moving past the first of the next month. All listed dates were revised to be 2 days earlier. This will prevent testing the applicant on how many days are in a given month. Question is otherwise unchanged. Approved 05/14/09 RFA
91	M	2	X				X						Y	Y	E	028G2.4.49 What is the difference between ABI and manually shutting off Train 1A purge and shutting dampers? It would appear the A and C are the same and B and D are the same. CAF RFA 03/25/09 The ABI should have shut down containment purge. The RED light indicates that the ABI failed to trip the purge fan. The purge supply fans share a common suction plenum with the AB supply fans. Re-initiating ABI would be manually initiating the same initial signal, where manually stopping fans and closing dampers would be from different controls. Rewrote distractors, added bullet to stem for clarification of LCO entry time. 5/06/09 approved RFA
92	M	2											Y	Y	S	055G2.1.19 No comment RFA 03/25/09 Modified the WOOTF statement 4/29/09 approved RFA
93	C	3											N Y	Y	U S	079A2.01 Per the KA, the malfunction must occur on the SAS not the IAS. It appears that the malfunction has occurred on the IAS. FAC: Re-evaluate. Q is U pending re-evaluation. RFA 03/25/09 Discuss during prep week to better understand comment.

Q#	1. LOK (C/A)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
																Due to the air systems being all one in the same, this question is satisfactory 4/29/09 approved RFA
94	C	2	X									Y	?	E		G2.1.8 Would you not expect an RO to know the answer to this one. This appears to be RO knowledge because they are basic procedural directives. CAF: Please re-verify SRO only RFA 03/25/09 Discuss during prep week. The question condition involves an off normal alignment of the DG and the room ventilation fans. Based on temperature, the DG may be emergency started thus running without normal protection. Modified stem and 2 distractors. Question was determined to be SRO only. 4/29/09 approved RFA
95	M	2					X					Y	Y	E		G2.2.15 A breach permit requirement for a "NO" on 30 days is not plausible. However, a procedural reason for a breach permit may be thus requiring a more in-depth knowledge vs. a simple yes or no. Replace second part of distracters. RFA 03/26/09 Added reason for a breaching permit being required or not required to second part of each distractor. Modified stem and 1 distractor. 4/29/09 approved RFA
96	C	2				X						Y	Y	U		G2.2.42 A mode change with a safety system inoperable in not permitted and this is common knowledge. Distracters A and B are NP. This Q is U because 2 distracters are NP RFA 03/26/09 Modified question to require knowledge of RWST T/s and the use of LCO 3.0.4b which allows mode change with while relying on an LCO. Modified stem. 4/29/09 approved RFA
97	C	3					X					Y	?	E		G2.3.4 Increase the expected dose to a values close to the emergency exposure limit to lend more plausibility to distracters C and D. Can the RP supervisor authorize any kind of exposure? If not, then change RP Sup to SED and re adjust the question. Re-verify that this is NOT RO required knowledge too RFA 03/26/09 Replaced question. Modified stem. 4/29/09 approved RFA
98	M	2				X						Y	Y	E*		G2.3.15 If choice A was correct, C would be correct also.

Q#/ Q#	1. LOK (C/A)	2. LOD (1- 5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
																<p>If choice B was correct, Choice D would be correct also. Therefore, there are 2 NP distracters. This can be corrected with a minor change to the stem. Add in 1. "the minimum fission product barriers ..." RFA 03/26/09 Changed 1 to read "...the minimum fission product barriers that have a loss or...". Revised stem and 2 distractors 04/30/09 approved RFA</p>
99	C	3	X				X					Y	Y	E	<p>G2.4.35 CAP the word "not" in (1). I missed it at first. The distracter analysis in D states that this method of Pzr heater control is plausible because aux control circuits do exist. D is the correct answer. Is this plausibility statement supposed to go with distracter C or A and B? When is "Only manual control" available if any? Unless there is a condition, "<i>only manual control is available</i>" may not be plausible. CAF to re-verify plausibility. RFA 03/26/09 Capitalized the "not", removed plausibility statement from the correct answer, added information to distractor A and B to identify that when AUX is selected only manual control is available on some components. Modified 2 distractors Added backup heater nomenclature. 5/19/09 approved RFA</p>	
100	M	2										Y	Y	S	<p>G2.4.38 No comment RFA 03/26/09 Replaced question due to overlap created when another question was changed. 05/19/09 approved RFA</p>	

Question Status

S (31)	Question is Sat with NO Comments
S* (1)	Week but acceptable
E (36)	Editorial Changes Needed
E* (8)	Technically the Q is U but a word or two will fix (usually a psychometrically flaw)
U (24)	Question is Unsat