

**POST-EXAM QUESTION CHALLENGES BY
STP LOT 25 NRC WRITTEN EXAM 07/29/2021**

STPNOC personnel are not challenging any questions for the LOT 25 NRC Written Exam.

LOT 25 NRC EXAM ANALYSIS – 07/29/2021

Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
2999	1		A					0
3000	2		A				1	1
3001	3		B	1		3		4
3029	4		C	3				3
3002	5		D			2		2
3030	6		C					0
3031	7		B			4		4
3082	8		D					0
3032	9		A		2		1	3
3003	10		C	1			1	2
3033	11		C		3			3
3004	12		C					0
3034	13		B					0
3035	14		C					0
3036	15		A				1	1
3005	16		C	1			2	3
3037	17		D					0
3099	18		B					0
3038	19		C				1	1
3039	20		B			2		2
3040	21		B					0
3116	22		B	1				1
3042	23		B	1				1
3075	24		D	2	2			4
3043	25		A		3			3
3092	26		C	2				2
3044	27		D					0
3045	28		B			3		3
3046	29		D					0
3047	30		C	4			1	5
3048	31		A		6		1	7
3049	32		A				1	1
3050	33		B				1	1
3051	34		D		3	4		7
3006	35		C					0
3007	36		C		3		1	4
3083	37		B	1				1
3096	38		A					0
3052	39		A			5		5
3076	40		D		3			3
3077	41		B	1			1	2
3008	42		C				1	1

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Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
3009	43		A					0
3010	44		C					0
3011	45		A					0
3012	46		B	2				2
3013	47		A			2	1	3
3014	48		D					0
3078	49		A					0
3015	50		C	3				3
3016	51		B					0
3017	52		D	1		1		2
3018	53		D					0
3053	54		B					0
3054	55		A					0
3055	56		C		4		8	12 (75%)
3056	57		D			6		6
3019	58		D	1				1
3079	59		C		1			1
3020	60		A					0
3021	61		C	4				4
3022	62		A					0
3057	63		B	5				5
3080	64		C	1	1			2
3058	65		B					0
3023	66		A		2			2
3059	67		B					0
2883	68		B					0
3061	69		D			4		4
3024	70		B	4			3	7
3062	71		B			1		1
3093	72		C					0
3063	73		B				1	1
3064	74		B				1	1
3065	75		C				1	1
3094		76	A					0
3066		77	D		1			1
3097		78	A					0
3084		79	B	2				2
3025		80	A		2			2
3098		81	A			3		3
3115		82	B	1		1	2	4
3088		83	B	1			2	3
3089		84	D					0
3067		85	C		1			1
3068		86	B					0

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Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
3069		87	A					0
3070		88	D		3			3
3081		89	C					0
3071		90	C	1				1
3026		91	B				2	2
3027		92	C					0
3100		93	B	3				3
3090		94	A		1			1
3095		95	C					0
3072		96	C	2				2
3073		97	D		1	1		2
3074		98	C				1	1
3028		99	A					0
3091		100	A		1		1	2

RO #56 – 4 candidates chose distracter “B.” 8 candidates chose distracter "D." Correct answer is "C.”

This question required the student to know the reason for a ROD CONT URGENT ALARM while recovering a dropped Control Bank C Rod. The procedure in progress would be 0POP04-RS-0001. The question stem stated that crew is “recovering” a dropped rod. With this information, the crew would be in Addendum 1, Recovery of a Dropped Rod. The Note before Step 22 of Addendum 1, warns the student that a ROD CONT URGENT ALARM will occur during the performance of Step 22. Step 22 requires the crew to open all lift coil disconnect switches in the affected bank except for the dropped rod. After that, rod withdrawal is commenced. Since the stem stated that the ROD CONT URGENT ALARM is alarming, the reason for alarming must be correct per plant design. Regardless of where the alarm sounds in the procedure, the question stated the alarm was sounding already. Since the alarm does not normally sound unless lift coil disconnect switches are opened, then the question is correct as written. No changes to the exam are warranted. The Lesson Plan, LOT 201.18 Student Handout Page 33, adequately covers knowledge of the Rod Control Urgent Alarm.

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NOTE: No answers were provided during the post-exam review session.

Question 9

Redacted - With PT-457 failing low, heaters turn on and cause pressurizer pressure to rise. Since the whole system is coupled, pressure in RCS will all go up, the larger volume of the RCS will expand with the slight temperature rise causing an insurge into the pressurizer. This would make "B" correct. "A" - pressure goes up, temperature goes up, water at surface boils/flashs, water volume lowers.

STP Response: This question asked the student to determine the effect on the pressurizer of a LOW failure of Pressurizer Pressure Instrument PT-457. With this low failure, all Pressurizer Backup Heaters will energize and Pressurizer Spray Valves will NOT open on rising pressure. With this failure, pressure pressure will gradually rise as will RCS system pressure. Since the RCS fluid is slightly compressible a small exchange of water from the Pressurizer to the RCS would occur. **No changes to this question are warranted.**

Question 30

Redacted - Per logic diagrams, we physically cannot open the RHR suction valves with pressure >332# - operate per logics.

STP Response: This question asked the student to recall procedural requirements associated with placing an RHR system in service. While it is true that the RHR Suction MOVs cannot be opened from the control room until RCS Wide Range Pressure is <332 psig, the procedural requirement is that RCS pressure must be less than or equal to 350 psig. **No changes to this question are warranted.**

Question 46

Redacted - Consider removing control signal from question. The AFW Reg Valve is a MOV. It either gets a close control signal or an open control signal. Once the close control signal is present it will not allow flow just maintain between 605-650 gpm. Once the close control signal is present it will not go away until flow is <605 gpm, its maximum allowable AFW flow.

STP Response: This question is satisfactory as written. **No changes to this question are warranted.**

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Question 56

Redacted - The lift coil disconnect switches just being disconnected does not give that alarm. Moving the disconnected rod in that bank will give that alarm, but the stem says we are "recovering a CB C rod" and this could mean that we are anywhere in the procedure, not specifically moving the rod.

STP Response: The question required the student to know the reason for a ROD CONT URGENT ALARM while recovering a dropped Control Bank C Rod. The procedure in progress would be 0POP04-RS-0001. The question stem stated that the crew is "recovering" a dropped rod. With this information, the crew would be in Addendum 1, Recovery of a Dropped Rod. The Note before Step 22 of Addendum 1, warns the student that a ROD CONT URGENT ALARM will occur during the performance of Step 22. Step 22 requires the crew to open all lift coil disconnect switches in the affected bank except for the dropped rod. After that, rod withdrawal is commenced. Since the stem stated that the ROD CONT URGENT ALARM is alarming, the reason must be correct per plant design. The student comment that "recovering" a CB C rod could mean that we are anywhere in the procedure is not correct, since the alarm state means that the rod withdrawal has begun. Since the alarm does not normally sound unless lift coil disconnect switches are opened, then the question is correct as written. **No changes to this question are warranted**

Question 59

Redacted - "480V MCC" should not be in the stem of the question.

STP Response: "480V MCC" was inadvertently left in the stem of the question after a revision. Even with "480V MCC" left in the stem, the students still had to recognize the correct power supply from the choices given. **No changes to this question are warranted.**