



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

October 13, 2015
NOC-AE-15003299
File No. G30.01
10CFR55
STI- 34217473

Mr. Clyde Osterholtz
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U.S. Nuclear Regulatory Commission
1600 E. Lamar Blvd.
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South Texas Project
Units 1 and 2
Docket Nos. STN 50-498; STN 50-499
Written Examination Results

The written portion of the NRC License exam was administered on September 24, 2015 at the South Texas Project. In accordance with NUREG 1021, Operator Licensing Examination Standards for Power Reactors, STP Nuclear Operating Company is submitting the following exam materials:

- FORM ES-403-1, Written Exam Grading QA Checklist
- Master exam and answer key
- Applicant questions/clarifications
- Seating chart
- Exam analysis information

The completed exam Security Agreement will be forwarded to you as soon as possible.

As a reminder, applicant answer sheets and examination cover sheets were delivered during the Operational Exam.

If you have any questions, please contact Stan Mason at (361) 972-4356. There are no commitments in this letter.

Sincerely,

Greg W. Janak
Manager, Operations Training

Attachments contain Personally Identifiable Information
— Withhold from Public Disclosure Under 10 CFR 2.390
(a)(6)

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LOT 20 NRC EXAM ANALYSIS – 9/24/2015

Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
2392	1		D		2			2
37	2		C					0
2395	3		A			2	1	3
2393	4		A			1		1
2394	5		D	1				1
1577	6		B				2	2
2396	7		D			2		2
214	8		B				1	1
2397	9		D					0
2398	10		C	1			1	2
2399	11		B	1		3		4
28	12		C					0
2400	13		C					0
1	14		B					0
2401	15		A				2	2
2402	16		D			3		3
787	17		C					0
2403	18		D					0
2404	19		A					0
2405	20		B				1	1
2406	21		D		1			1
2407	22		B					0
470	23		A			3		3
2408	24		A		7	1		8
1685	25		B			1	1	2
2369	26		A			1	4	5
1913	27		D	1		1		2
2370	28		C				1	1
2409	29		D	7	1	1		9
1739	30		C	1	1		3	5
1871	31		B					0
160	32		A					0
2371	33		C	2				2
2372	34		D		1	1		2
2373	35		C					0
1359	36		B			1		1
2429	37		B					0
123	38		B			4		4
1675	39		C					0
1668	40		A					0
2410	41		D	2				2
2435	42		D					0
2436	43		A		8			8

LOT 20 NRC EXAM ANALYSIS – 9/24/2015

Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
2374	44		B	2		1		3
1327	45		B					0
1083	46		C					0
2411	47		D					0
2375	48		A					0
1503	49		C		1		1	2
2412	50		D	1	3			4
1677	51		C		1			1
2376	52		A					0
1329	53		A					0
2378	54		B			7	3	10
2379	55		D	4	4	4		12
2380	56		D					0
2381	57		C		1			1
1281	58		C					0
2413	59		C	1				1
2382	60		A		1			1
92	61		A					0
2414	62		C					0
484	63		D			1		1
2383	64		A			1	5	6
2384	65		B	1			6	7
2385	66		D	4	1	3		8
2415	67		A				1	1
2386	68		C	1	2		3	6
2387	69		C	3			1	4
2388	70		D	7	1			8
2416	71		A		1			1
1110	72		D			1		1
2417	73		C					0
2418	74		A			3		3
2419	75		B					0
230		76	D			1		1
2420		77	C	1				1
2140		78	B					0
185		79	C					0
2430		80	B			2		2
2421		81	A					0
2389		82	C					0
2422		83	D					0
1099		84	D					0
2423		85	C	1				1
2390		86	A		3	1		4
1277		87	A			1		1

LOT 20 NRC EXAM ANALYSIS – 9/24/2015

Bank #	RO#	SRO#	ANSWER	A	B	C	D	Total Missed
2391		88	A			1	3	4
1727		89	B					0
1636		90	D					0
2424		91	C		1			1
2434		92	B			1	1	2
2425		93	A			4		4
2431		94	A		1			1
2426		95	C	1			1	2
2432		96	A				3	3
2427		97	D	1	1			2
2433		98	D	3		2		5
2428		99	C					0
413		100	A				1	1

RO #20 – 1 candidate chose distracter “D”; (correct answer is “B”).

This question was only missed by one student, however, its being added to this list because two students asked about the position of the SSPS MRDS Switch during the exam.

Question is based on the knowledge of Fuel Handling procedures and radiation monitor response to a Fuel Handling accident.

While investigating the students question during the exam it could not be explicitly determined if the student needed to know about the MRDS switch. It was decided to tell the students to read the question as stated. There was some thought given during the exam to change the correct answer to “D” because of steps in the Containment Purge procedures. However, further investigation of the question after the exam revealed the following:

- Depending on how you arrive at the situation, the MRDS switch could be in either DEFEAT ALL or DEFEAT/CVI AVAIL. OPOP03-ZG-0007 gives the option to place the MRDS switch in either position.
- Placing containment purge in service in modes 5, 6, and defueled specifically require placing the MRDS switch to DEFEAT ALL per the normal operating procedures. However, if containment purge had been placed in service in mode 4, there is no specific requirement to go back and place MRDS to DEFEAT ALL.

Since the intent of the question was that CVI is normally available under the given conditions and that the vast majority of the students answered the question that way, no changes to the question will be made.

For future use of the question the question stem will be revised for clarification, however, no changes are being made to the LOT 20 NRC Exam.

LOT 20 NRC EXAM ANALYSIS – 9/24/2015

RO #24 – 7 candidates chose distracter “B”; 1 candidate chose distracter “C”; (correct answer is “A”).

Question is based on the knowledge of Derived Air Concentration and its contribution to the overall dose a worker might receive including biological effects. With most candidates choosing distracter “B” indicates a lack of knowledge in the amount of dose a worker could receive given a concentration of 1 DAC/HR. Training is given on Derived Air Concentration during fundamentals training. This question does pose some difficulty above the rating listed (3) but does the match the KA given.

No changes to the exam are warranted.

RO #29 – 7 candidates chose distracter “A”; 1 candidate chose distracter “B”; 1 candidate chose distracter “C”; (correct answer is “D”).

Question is based on OPOP04-CV-0003, Emergency Boration. All distracters chosen indicate a lack of knowledge with the flow path of the procedure. Training is given on Off-Normal Procedures and their basis during LOT 505, Off-Normal Procedure Training.

No changes to the exam are warranted.

RO #43 – 8 candidates chose distracter “B”; (correct answer is “A”).

Question is based on TS 3.8.2.1. Applicants choosing distracter “B” indicate a lack of knowledge on how Class 1E Vital 120VAC affects the TS. Training is given during LOT 503 training for TSs.

No changes to the exam are warranted.

RO #54 – 7 candidates chose distracter “C”; 3 candidates chose distracter “D”; (correct answer is “B”).

Question is based on Instrument Air Compressor operation. The distractors chosen by the students indicates a lack of knowledge with setpoints associated directly with the IA Compressors. The setpoints associated with the IA Compressors are dependent on the Mode the IA compressor is in adding to the difficulty of the question. Training is given during systems training for LOT 202.26.

No changes to the exam are warranted.

RO #55 – 4 candidates chose distracter “A”; 4 candidates chose distracter “B”; 4 candidates chose distracter “C”; (correct answer is “D”).

Question is based on Residual Heat Removal Pump power supplies. The distractors were given in specific sides of the Load Centers making this question more difficult than the given rating. (3) Training is given during systems training for LOT 201.36.

No changes to the exam are warranted.

LOT 20 NRC EXAM ANALYSIS – 9/24/2015

RO #66 – 4 candidates chose distracter “A”; 1 candidates chose distracter “B”; 3 candidates chose distracter “C”; (correct answer is “D”).

Question is based on knowledge of Conduct of Operations. The distractors chosen by the students indicates a lack of knowledge of when to notify the NRC Resident Inspector. Training is given during LOT 507 for Administrative Procedures.

No changes to the exam are warranted.

RO #70 – 7 candidates chose distracter “A”; 1 candidates chose distracter “B”; (correct answer is “D”).

Question is based on TS 2.1.1.2 for limits on peak fuel centerline temperature. Most students picked distracter “A” which indicates a lack of knowledge about the reduction of maximum peak centerline temperature over core life. Training is given during LOT 503 training for TSs.

No changes to the exam are warranted.

SRO #98 – 3 candidates chose distracter “A”; 2 candidates chose distracter “C”; (correct answer is “D”).

Question is based on knowledge of initial containment inspections. The question relates to a specific requirements among many responsibilities listed in the surveillance and the actual answer is an exemption given which adds to the difficulty of the question. Training is given during LOT 804 for SRO Duties and Responsibilities.

No changes to the exam are warranted.