

2010 CLINTON POWER STATION

INITIAL EXAMINATION

ADMINISTRATIVE FILES

Facility: <u>Clinton</u> Date of Examination: <u>11/1/10</u>		
Examinations Developed by: <u>Facility</u>		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	<i>CDM</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>CDM</i>
-120	3. Facility contact briefed on security and other requirements (C.2.c)	<i>CDM</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>CDM</i>
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	<i>CDM</i>
-75	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	<i>CDM</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<i>CDM</i>
-45	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6), and reference materials due (C.1.e, f, g and h; C.3.d)	<i>CDM</i>
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<i>CDM</i>
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<i>CDM</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>CDM</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<i>CDM</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>CDM</i>
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	<i>CDM</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<i>CDM</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>CDM</i>
* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.		

1. Pre-Examination

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2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>GEORGE VAUGHN</u>	<u>LORT EXAM AUDITOR</u>		<u>2/10/10</u>		<u>11/9/10</u>	
2. <u>CRAVEN MITCHELL</u>	<u>LORT EXAM AUDITOR</u>		<u>8/11/10</u>		<u>11/9/10</u>	
3. <u>TERESA POTRAEKA</u>	<u>CLERICAL SUPPORT</u>		<u>2/25/10</u>		<u>11/9/10</u>	
4. <u>CHRISTIAN SMALL</u>	<u>SRO</u>		<u>9/7/10</u>		<u>11/9/10</u>	
5. <u>MIKE BENSEN</u>	<u>RO</u>		<u>9/7/10</u>		<u>11/9/10</u>	
6. <u>PETE LIMON</u>	<u>RO</u>		<u>9/7/10</u>		<u>11/9/10</u>	
7. <u>RICH KISS</u>	<u>SRO</u>		<u>9/7/10</u>		<u>11/9/10</u>	
8. <u>KEVIN ZAPPICH</u>	<u>RO</u>		<u>9/13/10</u>		<u>11/10/10</u>	
9. <u>JOE BUTER</u>	<u>OTM</u>		<u>10/7/10</u>		<u>11/9/10</u>	
10. <u>MARY SETSER</u>	<u>PPS INSTRUCTOR</u>		<u>10/11/10</u>		<u>11/10/10</u>	
11. <u>KICK BARR</u>	<u>SM</u>		<u>10/12/10</u>		<u>11/10/10</u>	
12. <u>KEVIN BARBARY</u>	<u>validator RO</u>		<u>10/12/10</u>		<u>11/10/10</u>	
13. <u>STEVE KACKA</u>	<u>validator RO</u>		<u>10/12/10</u>		<u>11/10/10</u>	
14. <u>TIM STABER</u>	<u>validator SRO</u>		<u>10/12/10</u>		<u>11/10/10</u>	
15. <u>Tom Chambers</u>	<u>Ops Director</u>		<u>10/27/10</u>		<u>11/10/10</u>	

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>William Roy Brown</u>	<u>09-01 EXAM AUTHOR</u>	<u>[Signature]</u>	<u>6/1/10</u>	<u>[Signature]</u>	<u>11/1/10</u>	
2. <u>Scott DeForest</u>	<u>OTPS</u>	<u>[Signature]</u>	<u>6/2/10</u>			
3. <u>Richard B. Chamrey</u>	<u>09-01 FACILITY REP.</u>	<u>[Signature]</u>	<u>6/4/10</u>	<u>[Signature]</u>	<u>11/9/10</u>	
4. <u>MARIA CONRAD</u>	<u>SIMULATOR GROUP</u>	<u>[Signature]</u>	<u>6/4/10</u>	<u>[Signature]</u>	<u>11/9/10</u>	
5. <u>Tom Pickley</u>	<u>10-01 EXAM AUTHOR</u>	<u>[Signature]</u>	<u>6/17/10</u>	<u>[Signature]</u>	<u>11/9/10</u>	
6. <u>MIKE GRIFFIN</u>	<u>10-10 FACILITY REP</u>	<u>[Signature]</u>	<u>6/25/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
7. <u>MARK HONZEL</u>	<u>SIMULATOR GROUP</u>	<u>[Signature]</u>	<u>7/2/10</u>			
8. <u>Randy Simpson</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/2/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
9. <u>MARK DODDS</u>	<u>SRO</u>	<u>[Signature]</u>	<u>8/2/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
10. <u>Vince Patten</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/2/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
11. <u>MANUEL THOMA</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/4/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
12. <u>MARK SHEPHERD</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/10/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
13. <u>JEFF NADON</u>	<u>SENIOR REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/10/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	
14. <u>THOMAS BAUER</u>	<u>SIM GROUP MAINT</u>	<u>[Signature]</u>	<u>8/10/10</u>			
15. <u>SAM RUSS</u>	<u>SENIOR REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>8/10/10</u>	<u>[Signature]</u>	<u>11/10/10</u>	

[Signature] 8/9/10

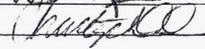
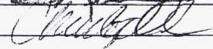
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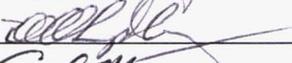
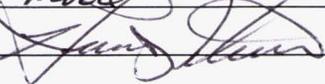
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Tony Jennings	IT Instructor		10/23/10		11/9/10	
2. CRAIG PRYDE	ICT INSTRUCTOR		10/23/10		11/9/10	
3. Dale Kiser	ICT Instructor		11/1/10		11/9/10	
4. CARL DUNN	SOS		11/1/10		11/10/10	
5.						
6.						
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8.						
9.						
10.						
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NOTES:

Tier / Group	Randomly Selected K/A	Reason for Rejection
1 / 1	295025 / 2.2.4	The subject K/A isn't relevant at the subject facility.
1 / 2	295036 / EK1.01	The subject K/A isn't relevant at the subject facility.
1 / 1	295031 / 2.2.3	The subject K/A isn't relevant at the subject facility.
1 / 2	295022 / AA1.04	The subject K/A isn't relevant at the subject facility.
1 / 2	295020 / 2.2.4	The subject K/A isn't relevant at the subject facility.
1 / 2	500000 / 2.4.41	Not appropriate license level
2 / 1	259002 / A3.01	The subject K/A isn't relevant at the subject facility.
2 / 2	214000 / 2.4.41	Not appropriate license level
1 / 2	295032 / 2.06	Not possible to write a psychometrically valid question
1 / 2	500000 / 2.4.6	Over sampled
2 / 1	239002 / 6.03	Plant specific
2 / 2	286000 / 6.05	Not possible to write a psychometrically valid question
2 / 2	223001 / 2.4.1	K/A wrong supposed to be 214000

Facility: <u>Clinton</u>		Date of Exam: <u>11/08/10</u>	Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	<i>RF</i>	<i>R</i>	<i>Chm</i>
2. Answer key changes and question deletions justified and documented	<i>RF</i>	<i>R</i>	<i>Chm</i>
3. Applicants' scores checked for addition errors (reviewers spot check >25% of examinations)	<i>RF</i>	<i>R</i>	<i>Chm</i>
4. Grading for all borderline cases (80% ± 2% overall and 70 or 80, as applicable, ± 4% on the SRO-only) reviewed in detail	<i>RF</i>	<i>R</i>	<i>NA</i>
5. All other failing examinations checked to ensure that grades are justified	<i>RF</i>	<i>R</i>	<i>NA</i>
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<i>RF</i>	<i>R</i>	<i>Chm</i>
		Printed Name / Signature	Date
a. Author	<u>Tallion French</u>		<u>11/8/10</u>
b. Facility Reviewer(*)	<u>Rich Champley</u>		<u>11-9-10</u>
c. NRC Chief Examiner(*)	<u>CARL MOORE</u>		<u>11/19/10</u>
d. NRC Supervisor(*)	<u>Hironori Peterson</u>		<u>11/23/10</u>
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
1	F												Y		N	E	Is distractor C plausible??? Why would a vacuum breaker line ever be under water??? Need to change distractor C.
2	H					X		X					Y		B	U	Is there enough info in the question stem to determine if you're in an unsafe region of the pressure suppression pressure (N) chart, no level given??? Assuming normal level you could continue to spray until 0 psig in Cnmt. Question stem says your at 0.1 psig, and explanation says you don't have to stop until 0 psig, so is there a correct answer??? What is cnmt negative design pressure? Resolution: Question was revised to address all concerns.
3	H	2	X			X							Y		B	S	
4	F	2	X										Y		B	S	
5	F	3				X							Y		B	E	Why is distractor B incorrect??? Need to delete "for each RHR Shutdown Cooling Subsystem" Resolution: Question was revised to address all concerns.
6	F	3											N		B		What does the procedure number mean??? If 4003 indicates RCIC system why would anybody pick anything but D??? Why is C plausible, if a breaker trips why would I reclose it without first checking it out??? Resolution: The Station was able to explain why all distractors were plausible therefore the question was satisfactory.
7	H	1.5											Y		B	S	Seems like a very easy question.
8	F	1.5	X			X							Y		M	E	Change 'collapsing voids' to higher pressure in distractor A Does the MDRFP auto start on low lvl??? Distractor D needs to be changed because I don't think it is plausible. Feedwater doesn't isolate on a turbine trip. Resolution: Question was revised to address all concerns.

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
9	H	4	X										Y		B	U	Is there enough info in stem to answer question??? Resolution: Question was replaced.
10	F	2	X				X						Y		B	E	Not sure if A and C are plausible? Resolution: Question was revised to address all concerns. Only distractor C needed to be changed.
11	H	2											Y		B	E	Seems like a very easy question. Not sure the second part of distractors A and D are plausible. Resolution: Question was revised to address all concerns. Clinton operational philosophy may be to remain at a low power condition while a problem with SRM is fixed.
12	F	1.5											Y		B	S	Seems like a very easy question. Straightforward setpoint question.
13	H	2											Y		B	S	
14	H	2											Y		B	E	Distractor C is not plausible. Change distractor C to be Throttle closed RHR B Hx Service Water Outlet Valve. Must also change question to ask the procedurally required action to maintain 50F/Hr C/D rate. Resolution: Question was revised to address all concerns. Distractors B and C were edited to provide better distractors.
15	H	3											Y		M	E	Resolution: Question was revised to address all concerns. Distractor D was edited as proposed.
16	F	1.5											Y		B	S	Seems like a very easy question.
17	H	3	X										Y		B	S	
18	H	2	X										Y		B	S	Do we need to state that the service air system is in its normal system alignment???
19	H	2	X										Y		B	S	
20	F	1.5											Y		M	S	Seems like a very easy question. Requires knowledge of how to actuate MSL isolation.
21	H	2	X										Y		B	S	Seems like a very easy question. Only need to know what the VG system flow rate is supposed to be to answer it.

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
22	H	1.5											Y		B	S	Seems like a very easy question.
23	H	3											Y		B	E	Need to change the description of 1VF09Y it is "Fuel Building Supply Outboard Isolation Damper". Resolution: Question was revised to address all concerns. 1VF09Y terminology was revised as stated above.
24	F	2											Y		B	S	Seems like a very easy question.
25	F	3											Y		B	E	In distractor D "double verified" should be capitalized so that it resembles the other distractors. Resolution: Question was revised to address concerns stated above.
26	F	1.5											Y		N	S	Seems like a very easy question.
27	H	2											N		B	S	
28	H	3				X							Y		M	S	
29	H	3	X										Y		N	E S	I don't think distractor D is plausible. Change distractor D. Resolution: Question was left as is based on explanation provided by the Station.
30	F	2											Y		B	S	Easy setpoint question. Potentially minutia.
31	H	3											N		B	E	Need to add a comma after Lockout.
32	F	2											Y		B	S	Seems like a very easy question.
33	H	2	X						X						M	E	Change distractor 'D' to 25 minutes. Why isn't this a direct look-up??? Resolution: Question was revised to address concerns stated above.
34	F	2				X							N		N	E	Need to make the > and < bold and larger. Distractors C and D need to be changed to state " the RPV Flange" not irradiated fuel seated in the vessel. Resolution: Question was revised to address concerns stated above. Distractor C was not changed to state 'the RPV Flange' because if it were it would be a correct answer also.
35	F	3				X							Y		N	U	Question needs to differentiate between VC air handling

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
																	equipment and VC cooling equipment. You can't purge if you don't have fans. Distractors A and C are not plausible and I'm not sure about distractor D. Resolution: Question was revised to address concerns stated above. Cooling capacity was specified in the distractors.
36	F	3				X							Y		B	S	
37	F	2	X										Y		N	S	Seems like a very easy question.
38	F	2.5											Y		B	S	
39	F	2	X										Y		B	S	Seems like a very easy question.
40	H	3				X							Y		N	S E	Pretty good question. Resolution: Question was revised to change the question stem to remove unnecessary info.
41	H	3											Y		B	S	
42	F	3	X										Y		B	?U S	Distractor D says 0VG02CA tripped on high cnmt pressure, this is incorrect according to key but if 1VG01YA closes does fan trip on DP or another interlock??? If it does then 0VG02CA tripped as a result of high cnmt pressure. Resolution: Question was NOT revised to address concerns stated above. The Station provided reasonable assurance that distractor D is not a correct answer.
43	F	2											Y		B	E	Need to change distractors C and D. C should read "positive pressure to ensure the overall Auxiliary Building HVAC system flow is balanced". D should read "positive pressure to ensure hydrogen gas is removed from the battery room and the room stays below the flammability limit". Resolution: Question was revised to address concerns stated above. Distractors were revised to make them more selectable.
44	H	2	X										Y		B	S	
45	H	3											Y		N	S	Where is MCPR documented???

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
46	F	2	X			X							Y		N	U E	Why is distractor "A" wrong??? If you add water to the pool with water that is < 104F, you are maximizing cooling. "D" is not plausible, need to change distractor. Perhaps go with a bleed and feed distractor. Resolution: Question stem was revised to address concerns stated above. The stem was changed to add a pool level which would preclude the addition of cooler water.
47	F	1.5				X							Y		N	E	Seems like a very easy question. Need to switch A(2) and D(2) to make distractors more plausible. Resolution: Question was revised to address concerns stated above.
48	F	2											Y		N	U E	How is the amount of radiation released and break flow reduced following a scram??? Are distractors B & C plausible??? The wording of this question is very, very poor. Consider replacing question. Resolution: Question was revised to address concerns stated above. The question stem was revised to enhance readability and add clarity.
49	F	2											Y		B	E S	Will these feedwater valves fail closed eventually??? Distractor D is not plausible. Change it to "Open to prevent Thermal transients on the feedwater nozzles". Resolution: Question was NOT revised to address concerns stated above. Station was able to provide justification as to why question was satisfactory.
50	F	2											Y		B	S	Seems like a very easy question.
51	H	2											Y		B	E	Is this a direct lookup??? Are you allowed to operate the D/G with negative KVAR's when paralleled with the grid??? Distractor B is very close to needing an adjustment to increase KVAR's, need to get this indication away from the capability curve. Resolution: Question was revised to address concerns stated above.

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
																	Provided indications were revised to make question exam worthy.
52	F	2	X				X						Y		B	U E	A is not plausible because a deflagration shouldn't occur if mixers and igniters work. C is not plausible if these mixing compressors are just fans that circulate air within the drywell & cnmt. Resolution: Question was revised to address concerns stated above. Distractor A was changed and the station was able to provide assurance that distractor C is plausible because the applicants may confuse the mixing compressors with recombiners.
53	H	2											N		B	U E	I don't have enough knowledge or material to know what is the correct answer for this question. Is bus 1B1 energized by the D/G or is it completely de-energized??? Not sure why picture of system is given, does it tell you where the leak is, or that the system is in an unusual alignment??? Resolution: The Station was able to provide reasonable assurance that this question is acceptable as long as we changed the stem to state an overcurrent condition exists on bus 1B1.
54	F	1											Y		B	U E	Why would anybody pick anything other than 4 when alternate power is lost??? Resolution: The Station was able to provide reasonable assurance that this question is acceptable based on common misconceptions.
55	F	1											Y		B	U E	Seems like a very easy question. LOD=1 You don't even have to know what the setpoint is. You just need to know what systems actuate on hi MSL tunnel temp. Resolution: Question was revised to address concerns stated above. The stem was altered to get closer to the setpoint and distractor A was replaced.

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	Minuti-a	#/units	Back-ward	Q=K/A	SRO Only				
56	H	2											Y		N	U E	Distractor A is not plausible and needs to be changed. Distractor C needs ONLY deleted. Distractor D needs to have RHR C deleted. Resolution: Question was revised to address concerns stated above. Distractors C & D were revised and the Station was able to provide reasonable assurance that distractor A is plausible.
57	F	2						X					Y		N	E	Change distractor B to "...source OR verify frequency greater than 57 Hertz ONLY." Resolution: Question was revised to address concerns stated above.
58	F	2				X							Y		N	?U S	No information is provided so I can't verify which answer is correct and why. Resolution: Information was provided to ensure only one correct answer is provided.
59	H	2	X										Y		N	E S	Why don't we need to give info in the stem regarding suppression pool temperature??? If it is 200F and RHR is taking a suction from the suppression pool is 'A' a concern??? I don't like the way this question is asked, that is to find the exception. Asking this question in that style makes the question much easier than asking the applicant to determine what they should consider when suppression pool level reaches 11 ft. Resolution: Question was NOT revised to address concerns stated above. Station provided reasonable assurance that RHR pump damage will not occur from conditions stated in the stem.
60	F	2				X							Y		N	U E	Somebody needs to explain to me why distractors A and C are plausible. Resolution: Question was revised to address concerns stated above. Distractors A and C were edited to make them more likely to be selected.

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
61	F	1.5	X				X						N		N	E U	Seems like a very easy question. May want to change distractor D to 20 inches. Needed to change the question stem so that only one correct answer was provided. No correct answer existed in original question without an initial reactor power level.
62	H	2.5											Y		B	S	Why not ask for the setpoint also??? Give instrument readings of power and make applicants realize if they are above or below setpoint.
63	F	1											Y		N	U E	LOD = 1 If you're going to ask a power supply question it needs to be integrated into the question. System integration ie power is lost to a bus and the Rx scrams, how does the plant respond? Resolution: Question was revised to address concerns stated above. The stem was altered to make the question higher order, instead of a 'What's the power supply to IC CCW pump' question.
64	H	3											Y		B	E	Need to capitalize only in distractor B Resolution: Question was revised to address concerns stated above.
65	H	2											Y		N	E	Why is distractor D.2 plausible??? Replace with improved mixing. Resolution: Question was revised to address concerns stated above.
66	H	2					X						Y		B	U S	Why are distractor A and D plausible??? You tell them it's a instrumentation problem and then distractor D says RR FCV damage my occur, I don't think so and I don't think anybody would pick this distractor. Resolution: Question was NOT revised to address concerns stated above. Station was able to provide reasonable assurance that distractors A and D were in fact plausible.
67	H	2					X						Y		B	U	What transient occurred. Pick one that doesn't affect the question. What is normal RPV level at stem conditions? If its normally 30 inches and stem indicates 45 inches is that a concern??? Would any of the distractors be correct if I

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
																	expect RPV level to be 30 inches and its indicating 45 inches??? What I'm asking is, is there more than one correct answer based on the info given in the stem??? Is there enough info in the stem to answer??? Seems like your testing very basic knowledge on how level indication system works at reduced power. Resolution: Question was revised to address concerns stated above. Question was rewritten to address concerns.
68	H	2				X							Y		B	U	Need to explain why distractors B, C, and D are plausible. Need to change B to Ensure 99% of total fission products released from dropped fuel assembly's rods is retained by the cavity water. C needs to be changed to Ensures a sufficient water level to ensure dose rates to personnel are maintained below acceptable limits following a fuel handling accident. D need to be changed to Minimum level needed to provide an adequate heat sink in the event of a loss be RHR Shutdown Cooling. Resolution: Question was revised to address concerns stated above. Distractors B and C were revised to address the stated concerns.
69	H	2	X										Y		N	U E	Why are distractors B and D plausible??? Resolution: Question was NOT revised to address concerns stated above. Station was able to explain why distractors B and D were plausible.
70	H	3	X			X							N		N	U E	Why are distractors C and D plausible??? Is it possible for radiation levels to increase as a result of water entering the vessel pool. Can this become an airborne contamination event??? Resolution: Question was NOT revised to address concerns stated above. Station was able to provide reasonable assurance that distractors C and D are plausible. The Station also

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				
																	indicated that rad level will not increase due to the leakage based on previous plant experience.
71	H	1.5	X										Y		N	S	Seems like a very easy question. Why not ask what A SLC pump tripped on??? Low suction pressure, Over current, Manually turned off.
72	F	1											Y		N	U S	Seems like a very easy question. This is a straight forward power supply question. If you're going to ask a power supply question it needs to be integrated into the question. System integration i.e. power is lost to a bus and the Rx scrams, how does the plant respond? Resolution: Question was NOT revised to address concerns stated above. Station was able to clarify that this was not a simple power supply question because you need to determine the impact on plant operation.
73	F	1.5											Y		N	S	Seems like a very easy question. Close to question 72 above but better. It could still be a little more integrated.
74	H	2						X					Y		N	E	Why is distractor D plausible??? A should be changed to search area after receiving a locked high rad briefing. D should also be changed to after receiving a locked high rad briefing. Resolution: Question was NOT revised to address concerns stated above. The question was replaced because the station didn't want to make recommended changes. The new question was changed to replace "Incident Commander" with "Work Control Supervisor".
75	H	1.5											Y		B	U S	Are you really suppose to close F006A before you open F004A??? and then start the A RHR Pp. How did the A RHR Pp trip??? It doesn't seem like there is a correct answer provided for this question. It also seems like a very easy question. Resolution: Question was NOT revised to address concerns stated above. This is the guidance provided by the procedure.

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	Minuti a	#/units	Back-ward	Q=K/A	SRO Only				

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).

BANK 45 (60%)
 NEW 25 (33.3%)
 MODIFIED 5 (6.7%)

Fundamental 37 (49.3%)
 Higher 38 (50.7%)

Sat 22
 Initially Unsat 26

Final number of Sat 40
 Final number of Unsat 5

Initially Enhance 26
Initially Indeterminate 1

Final number of Enhancements 30

Operating Test Comments

JPM Comments

A1-RO	Changed the time to be filled out on the operations MCR panel walkdown checks (online) data sheet from 00:00 to 02:00.
A2-RO	On ESOMS Report of hours data sheet, we added information as to which position the RO held during each of his shifts. The applicants needed to know if the RO stood a credited watch position or was extra to determine if the RO got credit for the watch stood or not.
A3-RO	No changes needed
A4-RO	No changes needed
Sim/CRa	Step 8.4.2.3 is not a critical step
Sim/CRb	No changes needed
Sim/CRc	No changes needed
Sim/CRd	Make the note at step 8.1.5.4 bold to highlight the fact that this step may or may not be performed depending on whether the applicant uses the Hard Card.
Sim/CRE	Need to change the sequence of the JPM steps to coincide with the procedure CPS 4001.02C001.
Sim/CRf	Make the note at step 9 bold to highlight the fact that the following steps may or may not be performed depending on whether the applicant uses the Emergency Stop Pushbutton or shuts down the D/G using the procedure. Change the Critical Step from opening the DG output bkr to Stopping the DG.
Sim/CRg	Revised step 3 into two distinct actions instead of one action. Step 5 is not a critical step.
Sim/CRh	Need to revise JPM to add steps to shutdown Continuous Containment Purge after it is determined that the UNFILT Mode does not work.
IPi	No changes needed
IPj	No changes needed
IPk	Will provide a new picture of what is inside the left panel on 1IP07E.

Scenario Comments

Scenario #1	Event #4 need to add a step for the SRO to direct disarming control rod 28-33 in accordance with TS 3.1.3 The critical task identified to enter EOP-8 is not a critical task. The critical task identified to verify the Turbine and Generator trip is not a critical task.
Scenario #2	Event #3 change BOP actions to Start standby CCW pump only. Delete the or shutdown running FC pump and close 1CC076A&B. Event #5 delete BOP action #5 to transfer 4160V busses to RAT B because it is not necessary. System is already aligned to that way. Event #8 The first critical task actions to insert control rods following the ATWS should be bolded to identify them as critical tasks. Event #8 Need to add critical task actions to terminate and prevent RCIC injection during the ATWS. Event #8 Need to delete RCIC and add Feedwater to the step to control RPV level. RCIC will be unavailable.
Spare Scenario	Event #7 Need to change the critical task from entering EOP-8 to Scraming the Rx prior to exceeding Max Safe Temp.

Outline Comments

	No Comments made on Examination Outline
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Post-Exam Comments

No post-examination comments were received from Clinton Power Station following the completion of this examination.