VARIOUS CHECKLISTS

FOR THE CLINTON INITIAL EXAMINATION - JULY/AUG 2002

Facility: CLINTON Date of Examination: 07/29/02 - 08/09/02

Examinations Developed by: (Facility)/NRC (circle one)

Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	
-120	3. Facility contact briefed on security & other requirements (C.2.c)	
-120	4. Corporate notification letter sent (C.2.d)	
[-90]	[5. Reference material due (C.1.e; C.3.c)]	N/A
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	
-30	9. Preliminary license applications due (C.1.l; C.2.g; ES-202)	
-14	10. Final license applications due and assignment sheet prepared (C.1.l; C.2.g; ES-202)	
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.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.

[ ] Applies only to examinations prepared by the NRC.

1. Pre-Examination

CLINTON EXAM

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/29 + 8/5/02 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC.Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 7/29, 8/5/02. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Robert L. Price	Senior Operations Instructor		3/5/02		8/8/02	WA
2.	Robyn L. Brixey	Contract SRO Instructor		3/5/02		8-12-02	
3.	PJ O'Brien	Shift Manager		3-5-02		8/12/02	
4.	Steven J Russell	Exam Development Coordinator		3-6-02		8/9/02	
5.	Mike Tindall	Simulator Support		3-8-02		8/9/02	
6.	Scott Depperer	Exam Development Coordinator		3/12/02			(2)
7.	Chad Pond	IT Real Time System Analyst - Simulator	Chad Pond	3/19/02	Chad Pond	8/9/02	
8.	MARK OTTEN	Senior Ops Instructor		4/1/02			(2)
9.	CHARLES WARE	CONTRACT SRO INSTRUCTOR		4/5/02		8/14/02	(1)
10.	PAUL M. HIGGINBOTHAM	Contract SRO Instructor		4/5/02		8/9/02	(1)
11.	DOUGLAS M ANTONELLI	CONTRACT SRO INST.		4/5/02		8/9/02	
12.	Gary Schollmann	IT Real Time Analyst		4/10/02		8/15/02	
13.	TOM PICKLE-I	SIMULATOR SUPERVISOR		4/29/02		8/8/02	
14.	Terri Ording	Admin Clerk		5/9/02		8/29/02	(1)
15.	Mark E. McClure	NPS Supervisor		5/12/02		9/13/02	

NOTES: (1) Debriefed per Telecon and signed for individual. (2) Original signon; signed off on an attached copy.

CLINTON EXAM

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.	Robert L. Price	Senior Operations Instructor		3/5/02		8/8/02	WA
2.	Wayne Brixey	Contract SRO Instructor		3/5/02			
3.	P J O'Brien	Shift Manager		3-5-02			
4.	Steven J Russell	Exam Development Coordinator		3-6-02		8/9/02	
5.	Mike Tindall	Simulator Support		3-8-02			
6.	Scott Depper	Exam Development Coordinator		3/12/02		8/12/02	
7.	Chad Pond	IT Real Time System Analyst	Simulator	3/19/02			
8.	MARK OTTEN	Senior Ops Instructor		4/1/02		8/12/02	
9.	CHARLES INAIRE	CONTRACT SRO INSTRUCTOR		4/5/02			
10.	Paul M. Higginbotham	Contract SRO Instructor		4/5/02			
11.	Douglas M Antonelli	CONTRACT SRO INST.		4/5/02			
12.	Gary Schallmann	IT Real Time Analyst		4/10/02			
13.	TOM PICKLE-I	SIMULATOR SUPERVISOR		4/29/02		8/8/02	
14.	Teri Ordner	Admin Clerk		5/9/02			
15.	Mark E. McClure	NPS Supervisor		5/12/02			

NOTES:

1. Pre-Examination CLINTON EXAM

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/29 & 5/5/02 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC.Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 7/29 & 8/5/02. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1.	DAVID B LIVINGSTON	REACTOR OPERATOR		5-12-02		8-12-02
2.	EDWARD J KENNEDY	REACTOR OPERATOR		5-12-02		8-12-02
3.	Tom Bauer	I+C		5-12-02		8-9-02
4.	J Gump	I&C		5/12/02		8/9/02
5.	HD Jeans	Senior Reactor Operator		5-13-02		8-19-02
6.	MJ [illegible]	RO		5/13/02		8/13/02
7.	RICHARD R. KISS	REACTOR OPERATOR		5/14/02		8/2/2
8.	E K Beck	SENIOR REACTOR OPERATOR (SM)		5/15/02		8/15/02
9.	WILLIAM G STALEY	REGULATORY PROTECTION INSTRUCTOR		5/23/02		8/10/02
10.	VERSIE T ELLIS	V/GSC/Clerical		6/18/02		8/9/02
11.	JIM D. LUCAS	REACTOR OPERATOR		6/24/02		8/13/02
12.	Matt Brotherton	Reactor Operator		6/24/02		8/8/02
13.	MICHAEL BAETZ	SHIFT MANAGER		6-24-02		8-16-02
14.	JOSEPH W DUBSON	XETEX Tech		07-15-02		08/09/02
15.	Tim Satterlee	OPS Instructor		7/29/02		8/8/02

NOTES:

SEP 10 202

1. Pre-Examination

CLINTON EXAM

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/29 + 8/5/02 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC.Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

① EXAM MATERIAL FOR 8/2/02 ONLY

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 7/29, 8/5/02. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	THOMAS J. SHORTELL	OTM		8/2/02		8/6/02	(1)
2.	THOMAS J. SHORTELL	OTM		8/6/02		8/9/02	(2) BP 8/6/02
3.	GEORGE M. VAUGHT	SR INSTRUCTOR - ILT CLASS LEAD		8/8/02		8/9/02	
4.	Lee Anderson	OPS Instructor - ILT		8/8/02		8/9/02	
5.	Michael R Helton	OPS Instructor - ILT		8/9/02		8/9/02	
6.	MARK J. CAREY	OPS INST		8/8/02		8/9/02	
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							

NOTES: ~~(2) Exam Material for 8/6/02 only~~ BP 8/6/02

Facility: Clinton Power Station Date of Examination: 7/29/02 Operating Test Number: ILT0101

	1. GENERAL CRITERIA	Initials a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	BP	O	DP
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	BP	B	DP
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	BP	B	DP
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	BP	B	DP
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	BP	B	DP
	2. WALK-THROUGH (CATEGORY A & B) CRITERIA	--	--	--
a.	Each JPM includes the following, as applicable: · initial conditions · initiating cues · references and tools, including associated procedures · reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee · specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable	BP	B	DP
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	BP	B	DP
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	BP	B	DP
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	BP	B	DP
	3. SIMULATOR (CATEGORY C) CRITERIA	--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	BP	B	DP

	Printed Name / Signature	Date
a. Author	B. Price	7/9/02
b. Facility Reviewer(*)	P. O'Brien	7/10/02
c. NRC Chief Examiner (#)	DAVID L. PELTON	7/24/02
d. NRC Supervisor (*)	Michael E. Bielby / Michael E. Bielby Sr	7/25/02

NOTE: * The facility signature is not applicable for NRC-developed tests
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence is required.

Facility: Clinton Power Station Date of Examination: 7/29/02 Operating Test Number: ILT0101

	1. GENERAL CRITERIA	Initials a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).			
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).			
d.	Overlap with the written examination and between operating test categories is within acceptable limits.			
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			
	2. WALK-THROUGH (CATEGORY A & B) CRITERIA	--	--	--
a.	Each JPM includes the following, as applicable: · initial conditions · initiating cues · references and tools, including associated procedures · reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee · specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable			
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.			
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.			
d.	At least 20 percent of the JPMs on each test are new or significantly modified.			
	3. SIMULATOR (CATEGORY C) CRITERIA	--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			

	Printed Name / Signature	Date
a. Author	B. Price	7/9/02
b. Facility Reviewer(*)	P. O'Brien	7/10/02
c. NRC Chief Examiner (#)	DAVID L PELTON	7/24/02
d. NRC Supervisor (*)	Michael E. Bielby / Michael E. Bielby Sr	7/25/02

NOTE: * The facility signature is not applicable for NRC-developed tests
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence is required.

Facility: Clinton Power Station Date of Examination: 7/29/02 Operating Test Number: ILT0101

	1. GENERAL CRITERIA	Initials a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).			
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).			
d.	Overlap with the written examination and between operating test categories is within acceptable limits.			
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			
	2. WALK-THROUGH (CATEGORY A & B) CRITERIA	--	--	--
a.	Each JPM includes the following, as applicable: · initial conditions · initiating cues · references and tools, including associated procedures · reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee · specific performance criteria that include: - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable			
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.			
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.			
d.	At least 20 percent of the JPMs on each test are new or significantly modified.			
	3. SIMULATOR (CATEGORY C) CRITERIA	--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			

	Printed Name / Signature	Date
a. Author	B. Price	7/9/02
b. Facility Reviewer(*)	P. O'Brien	7/10/02
c. NRC Chief Examiner (#)	DAVID L. PELTON	7/24/02
d. NRC Supervisor (*)	Michael R. Bielby / Michael F. Gallagher	7/25/02

NOTE: * The facility signature is not applicable for NRC-developed tests
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence is required.

Facility: Clinton Power Station Date of Exam: 7/29/02 Scenario Numbers: 4 / 5 / 6 Operating Test No.: ILT0101

QUALITATIVE ATTRIBUTES		Initials a	b*	c#
		--	--	--
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.			
2.	The scenarios consist mostly of related events.			
3.	Each event description consists of · the point in the scenario when it is to be initiated · the malfunction(s) that are entered to initiate the event · the symptoms/cues that will be visible to the crew · the expected operator actions (by shift position) · the event termination point (if applicable)			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.			
5.	The events are valid with regard to physics and thermodynamics.			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.			
8.	The simulator modeling is not altered.			
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			

TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	7 / 9 / 7			
2.	Malfunctions after EOP entry (1-2)	2 / 3 / 3			
3.	Abnormal events (2-4)	4 / 4 / 4			
4.	Major transients (1-2)	2 / 1 / 1			
5.	EOPs entered/requiring substantive actions (1-2)	3 / 2 / 2			
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 0			
7.	Critical tasks (2-3)	4 / 2 / 2			

Page 1 of 3

Facility Clinton Power Station Date of Exam: 7/29/02 Scenario Numbers: 1 / 2 / 3 Operating Test No.:ILT0101

QUALITATIVE ATTRIBUTES		Initials a	b*	c#
		--	--	--
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.			
2.	The scenarios consist mostly of related events.			
3.	Each event description consists of · the point in the scenario when it is to be initiated · the malfunction(s) that are entered to initiate the event · the symptoms/cues that will be visible to the crew · the expected operator actions (by shift position) · the event termination point (if applicable)			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.			
5.	The events are valid with regard to physics and thermodynamics.			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.			
8.	The simulator modeling is not altered.			
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			

TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	6 / 8 / 6			
2.	Malfunctions after EOP entry (1-2)	1 / 3 / 1			
3.	Abnormal events (2-4)	4 / 4 / 4			
4.	Major transients (1-2)	1 / 2 / 2			
5.	EOPs entered/requiring substantive actions (1-2)	3 / 2 / 3			
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1			
7.	Critical tasks (2-3)	2 / 4 / 4			

Facility Clinton Power Station Date of Exam: 7/29/02 Scenario Numbers: 7 / na / na Operating Test No.: ILT0101

QUALITATIVE ATTRIBUTES		Initials a	Initials b*	Initials c#
		--	--	--
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.			
2.	The scenarios consist mostly of related events.			
3.	Each event description consists of · the point in the scenario when it is to be initiated · the malfunction(s) that are entered to initiate the event · the symptoms/cues that will be visible to the crew · the expected operator actions (by shift position) · the event termination point (if applicable)			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.			
5.	The events are valid with regard to physics and thermodynamics.			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.			
8.	The simulator modeling is not altered.			
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			

TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	7 / NA /NA			
2.	Malfunctions after EOP entry (1-2)	2 / NA /NA			
3.	Abnormal events (2-4)	4 / NA /NA			
4.	Major transients (1-2)	1 / NA /NA			
5.	EOPs entered/requiring substantive actions (1-2)	2 / NA /NA			
6.	EOP contingencies requiring substantive actions (0-2)	1 / NA /NA			
7.	Critical tasks (2-3)	2 / NA /NA			

OPERATING TEST NO.:Clinton Power Station, 7/29/02, Page 1 of 2

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO / BOP	Reactivity	1	2	2	2	2
	Normal	1	1	1	1	1
	Instrument / Component	4	3,6 / 4,5	3,5 / 4,6	3,6 / 4,5	3,6 / 4,5
	Major	1	7,8	7,8, 9,10	7,8	7,8,9
As RO / BOP	Reactivity	1	2	2	2	2
	Normal	0	NA	NA	NA	NA
	Instrument / Component	2	3,6 / 4,5	3,5 / 4,6	3,6 / 4,5	3,6 / 4,5
	Major	1	7,8	7,8, 9,10	7,8	7,8,9
SRO-I						
As SRO	Reactivity	0	NA	NA	NA	NA
	Normal	1	1	1	1	1
	Instrument / Component	2	3,6 4,5	3,5 4,6	3,6 4,5	3,6 4,5
	Major	1	7,8	7,8, 9,10	7,8	7,8,9
SRO-U	Reactivity	0	NA	NA	NA	NA
	Normal	1	1	4	1	1
	Instrument / Component	2	3,6 4,5	3,5 4,6	3,6 4,5	3,6 4,5
	Major	1	7,8	7,8, 9,10	7,8	7,8,9

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			5	6	7	na
RO / BOP	Reactivity	1	1	2	2	Na
	Normal	1	2	1	1	Na
	Instrument / Component	4	3,5 / 4,6	3,4 / 5,6	3,4 / 5,6	Na
	Major	1	7,8,9, 10,11	7,8 ,9	7,8, 9	Na
As RO / BOP	Reactivity	1	1	2	2	Na
	Normal	0	NA	NA	NA	Na
	Instrument / Component	2	3,5 / 4,6	3,4 / 5,6	3,4 / 5,6	Na
	Major	1	7,8,9, 10,11	7,8 ,9	7,8, 9	Na
SRO-I						
As SRO	Reactivity	0	NA	NA	NA	Na
	Normal	1	2	1	1	Na
	Instrument / Component	2	3,5 4,6	3,4 5,6	3,4 5,6	Na
	Major	1	7,8,9, 10,11	7,8 ,9	7,8, 9	Na
SRO-U	Reactivity	0	NA	NA	NA	Na
	Normal	1	2	1	1	Na
	Instrument / Component	2	3,5 4,6	3,4 5,6	3,4 5,6	Na
	Major	1	7,8,9, 10,11	7,8 ,9	7,8, 9	Na

Note: Scenarios 6,7 are intended to be spares. SRO(U) will see Scenarios 4,and 5.

Author: B. Price/

NRC Reviewer: DAVID L. PELTON

Competencies	Applicant #1 RO/SRO-I/SRO-U				Applicant #2 RO/BOP/SRO-U				Applicant #3 RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	2,6, 7,8	2,3,5, 7-10	2,3, 6,7,8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4,5 -8	1,4,5 ,7-8	1-8	1-10	1-8	1-9
Diagnose Events and Conditions	2,3, 6, 7,8	2,3,5, 7-10	2 , 3 , 6 , 7 , 8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4 ,5- 8	1,4 ,5, 7-8	1-8	1-10	1-8	1-9
Understand Plant and System Response	2,3, 6, 7,8	2,3,5, 7-10	2,3, 6,7,8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4 ,5- 8	1,4 ,5, 7-8	1-8	1-10	1-8	1-9
Comply With and Use Procedures (1)	2,3, 6, 7,8	2,3,5, 7-10	2,3, 6,7,8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4 ,5- 8	1,4 ,5, 7-8	1-8	1-10	1-8	1-9
Operate Control Boards (2)	2,3, 6, 7,8	2,3,5, 7-10	2,3, 6,7,8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4 ,5- 8	1,4 ,5, 7-8	1-8	1-10	1-8	1-9
Communicate and Interact With the Crew	2,3, 6, 7,8	2,3,5, 7-10	2,3, 6,7,8	2,3 ,6-8	1,4, 6-8	1,4,6 -10	1,4 ,5- 8	1,4 ,5, 7-8	1-8	1-10	1-8	1-9
Demonstrate Supervisory Ability (3)	NA	NA	NA	NA	NA	NA	NA	NA	1-8	1-10	1-8	1-9
Comply With and Use Tech. Specs. (3)	NA	NA	NA	NA	NA	NA	NA	NA	1,6	6	3	4,5

Notes:
(1) Includes Technical Specification compliance for an RO.
(2) Optional for an SRO-U.
(3) Only applicable to SROs.

Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

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NRC Reviewer: DAVID L. PELTON

Competencies	Applicant #1 RO/SRO-I/SRO-U				Applicant #2 RO/BOP/SRO-U				Applicant #3 RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	5	6	7	na	5	6	7	na	5	6	7	na
Understand and Interpret Annunciators and Alarms	3, 5 7-11	2,3,4, 7-9	3,4, 7-9	-	4, 6-11	1,5-9	1,5 ,6-9	-	1-11	1-9	1-9	-
Diagnose Events and Conditions	1,3,5, 7-11	2,3,4, 7-9	2,3,4, 7-9	-	2,4, 6-11	1,5-9	1,5,6 -9	-	1-11	1-9	1-9	-
Understand Plant and System Response	1,3,5, 7-11	2,3,4, 7-9	2,3,4, 7-9	-	2,4, 6-11	1,5-9	1,5,6 -9	-	1-11	1-9	1-9	-
Comply With and Use Procedures (1)	1,3,5, 7-11	2,3,4, 7-9	2,3,4, 7-9	-	2,4, 6-11	1,5-9	1,5,6 -9	-	1-11	1-9	1-9	-
Operate Control Boards (2)	1,3,5, 7-11	2,3,4, 7-9	2,3,4, 7-9	-	2,4, 6-11	1,5-9	1,5,6 -9	-	1-11	1-9	1-9	-
Communicate and Interact With the Crew	1,3,5, 7-11	2,3,4, 7-9	2,3,4, 7-9	-	2,4, 6-11	1,5-9	1,5,6 -9	-	1-11	1-9	1-9	-
Demonstrate Supervisory Ability (3)	NA	NA	NA	-	NA	NA	NA	-	1-11	1-9	1-9	-
Comply With and Use Tech. Specs. (3)	NA	NA	NA	-	NA	NA	NA	-	6	3	1,5	-

Notes:
(1) Includes Technical Specification compliance for an RO.
(2) Optional for an SRO-U.
(3) Only applicable to SROs.

Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Author: B. Price

NRC Reviewer: DAVID L. PELTON

Facility:	Date of Exam:	Exam Level: RO/SRO

	Item Description	Initial a	Initial b*	Initial c#
1.	Questions and answers technically accurate and applicable to facility			
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			
4.	Question section and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process.			
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: X the audit exam was systematically and randomly developed; or __ the audit exam was completed before the license exam was started; or __ the examinations were developed independently; or __ the licensee certifies that there is no duplication; or __ other (explain)			
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual question distribution at right Bank: RO-12 SRO-11 / Modified: RO-4 SRO-6 / New: RO-84 SRO-83			
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right Memory: RO-47 SRO-42 / C/A: RO-53 SRO-58			
8.	References/handouts provided do not give away answers			
9.	Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified			
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			

	Printed Name / Signature	Date
a. Author	B. Price	7/9/02
b. Facility Reviewer (*)	P. O'Brien	7/10/02
c. NRC Chief Examiner (#)	DAVID L. PELTON	7/23/02
d. NRC Regional Supervisor	Michael E. Bielby	7/25/02

Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations.
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO 1 / 2	295013 AK2.01	Double jeopardy with 295013 AK3.01, randomly selected 295038 EK2.05
SRO 1 / 1	295013 AK2.01	Double jeopardy with 295013 AK3.01, randomly selected 295014 AA2.05
SRO 2 / 1	223001 K3.05	Low operational validity, randomly selected 259002 2.4.10
SRO 2 / 2	239003 2.4.10	Unable to write SRO level question, randomly selected 290003 2.2.22

Facility: CLINTON	Date of Exam: 08/08/02	Exam Level: RO

Item Description	Initials a	b	c
1. Clean answer sheets copied before grading	BP	N/A	
2. Answer key changes and question deletions justified and documented	BP	N/A	
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	BP	N/A	
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	BP	N/A	
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	BP	N/A	

	Printed Name / Signature	Date
a. NRC Grader	Bruce Palagi / BRUCE PALAGI	8-21-02
b. Facility Reviewer(*)	N/A	N/A
c. NRC Chief Examiner (*)	DAVID L. PERRON	8/26/02
d. NRC Supervisor (*)	HIRONORI PETERSEN	8/29/02

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.

Facility: CLINTON	Date of Exam: 08/08/02	Exam Level: SRO

Item Description		Initials a	Initials b	Initials c
1.	Clean answer sheets copied before grading	BP	N/A	
2.	Answer key changes and question deletions justified and documented	BP	N/A	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	BP	N/A	
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	BP	N/A	
5.	All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	BP	N/A	

	Printed Name / Signature	Date
a. NRC Grader	Bruce Palagi / BRUCE PALAGI	8-21-02
b. Facility Reviewer(*)	N/A	N/A
c. NRC Chief Examiner (*)	DAVID L. PELTON	8/26/02
d. NRC Supervisor (*)	Hironori Peterson	8/29/02

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.