

VARIOUS CHECKLISTS

FOR THE BYRON INITIAL EXAMINATION - OCT/NOV 2001

BYRON INITIAL LICENSE EXAM

**OCTOBER 29 and
NOVEMBER 5-9, 2001**

**ES-201-1,
“Examination Preparation Checklist”**

Facility: BYRONDate of Examination: 10/29/01 - 11/16/01

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)	<i>[Signature]</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>[Signature]</i>
-120	3. Facility contact briefed on security & other requirements (C.2.c)	<i>[Signature]</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>[Signature]</i>
[-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)	<i>[Signature]</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<i>[Signature]</i>
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	<i>[Signature]</i>
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	<i>[Signature]</i>
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	<i>[Signature]</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>[Signature]</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	<i>[Signature]</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>[Signature]</i>
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	<i>[Signature]</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	<i>[Signature]</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>[Signature]</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.

BYRON INITIAL LICENSE EXAM

**OCTOBER 29 and
NOVEMBER 5-9, 2001**

**ES-201-3,
“Examination Security Agreement”**

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/29, 11/5, 11/12/2001 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 10/29 & 11/5/01. 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. Gary L Wolfe	Instructor / Fac Author	GC Wolfe	6/5/01	GC Wolfe	11-12-01
2. Richard M. Williams	SHIFT MGR / FACILITY REPRESENTATIVE	R.M. Williams	6-5-01	R.M. Williams	11-12-01
3. Scott M. Deprest	INSTRUCTOR / FAC Author	Scott M. Deprest	6/6/01		
4. JEFFREY L. Hamilton	Simulator Supervisor	Jeffrey L. Hamilton	6/29/01	Jeffrey L. Hamilton	11/22/01
5. Steven J. Russell	ILT Exam Coordinator	Steven J. Russell	6/13/01		
6. Chris H. Herman	Nuclear Station Operator / Validator	Chris H. Herman	8/15/01	Chris H. Herman	11/19/01
7. Russell J. McKim	Instructor / LORT Exam	Russell J. McKim	8-15-01	Russell J. McKim	11-2-01
8. TODD A. KALISIK	Simulator Support / Software	Todd A. Kalisik	8-21-01	Todd A. Kalisik	11-24-01
9. Del Miller	Simulator Support / HARDWARE	Del Miller	8-21-01	Del Miller	11/26/01
10. Dan Carl	RO / Validation	Dan Carl	8-21-01	Dan Carl	11-13-01
11. Terry Holder	Instructor / LORT Exam	Terry Holder	8-29-01	Terry Holder	11/12/01
12. Connie Clair	Clerical / Copying	Connie Clair	9/4/01	Connie Clair	11/12/01
13. Mark R. MENGEL	ISO / Exam	Mark R. Mengel	9-19-01	Mark R. Mengel	11/14/01
14. Michael Fernandez	Unit Supv. / Validation	Michael Fernandez	9/19/01	Michael Fernandez	11/19/01
15. Barry Gutierrez	SEO / Validation	Barry Gutierrez	10-9-01	Barry Gutierrez	11-15/01

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/29, 11/5, 11/12/2001 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 10/29 & 11/5/01. 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. <u>Gary L Wolfe</u>	<u>Instructor / Fac Author</u>	<u>G L Wolfe</u>	<u>6/5/01</u>	<u>G L Wolfe</u>	<u>11-12-01</u>	
2. <u>Richard M. Williams</u>	<u>SHIFT MGR / FACILITY REPRESENTATIVE</u>	<u>R M Williams</u>	<u>6-5-01</u>	<u>R M Williams</u>	<u>11-12-01</u>	
3. <u>SCOTT M. DEPREST</u>	<u>INSTRUCTOR / FAC Author</u>	<u>Scott M Deprest</u>	<u>6/5/01</u>	<u>Scott M Deprest</u>	<u>11/13/01</u>	
4. <u>JEFFREY L. HAMILTON</u>	<u>Simulator Supervisor</u>	<u>Jeffrey L Hamilton</u>	<u>6/29/01</u>	<u>Jeffrey L Hamilton</u>	<u>11/12/01</u>	
5. <u>STEVEN J. RUSSELL</u>	<u>ILT Exam Coordinator</u>	<u>Steven J Russell</u>	<u>6/5/01</u>	<u>Steven J Russell</u>	<u>11/13/01</u>	
6. <u>CHRIS H. HERMAN</u>	<u>Nuclear Station Operator / Validator</u>	<u>Chris H Herman</u>	<u>8/15/01</u>	<u>Chris H Herman</u>		
7. <u>ROSEAL J. MCKINNEY</u>	<u>Instructor / LORT Exam</u>	<u>Roseal J McKinney</u>	<u>8-15-01</u>	<u>Roseal J McKinney</u>	<u>11-12-01</u>	
8. <u>TODD A. KALISIK</u>	<u>Simulator Support / Software</u>	<u>Todd A Kalisik</u>	<u>8-21-01</u>	<u>Todd A Kalisik</u>		
9. <u>DEL MILLER</u>	<u>Simulator Support / HARDWARE</u>	<u>Del Miller</u>	<u>8-21-01</u>	<u>Del Miller</u>	<u>11/12/01</u>	
10. <u>Dan Carl</u>	<u>RO / Validation</u>	<u>Dan Carl</u>	<u>8-21-01</u>	<u>Dan Carl</u>		
11. <u>Terry Holder</u>	<u>Instructor / LORT Exam</u>	<u>Terry Holder</u>	<u>8-29-01</u>	<u>Terry Holder</u>	<u>11/12/01</u>	
12. <u>CAROL CLAIR</u>	<u>Clerical / Copying</u>	<u>Carol Clair</u>	<u>9/19/01</u>	<u>Carol Clair</u>	<u>11/12/01</u>	
13. <u>MARK R. MENGEL</u>	<u>NSO / Exam</u>	<u>Mark R Mengel</u>	<u>9-19-01</u>	<u>Mark R Mengel</u>	<u>11/14/01</u>	
14. <u>Michael Fernandez</u>	<u>Unit Supv. / Validation</u>	<u>Michael Fernandez</u>	<u>9/19/01</u>	<u>Michael Fernandez</u>		
15. <u>BARRY GUNAWAY</u>	<u>SEC / Validation</u>	<u>Barry Gunaway</u>	<u>10-9-01</u>			

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/29, 11/5 & 11/12 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 10/29 & 11/5. 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. MICHAEL DAVIS	NSO	<i>Michael Davis</i>	10/9/01	<i>Michael Davis</i>	11/12/01	
2. Stephen LORANCE	NSO	<i>Stephen LORANCE</i>	10-9-01	<i>Stephen LORANCE</i>	11/14/01	
3. WAYNE FARUCA	Sim Support	<i>Wayne Faruca</i>	10/9/01			
4. David A. Smith	Sim Support	<i>David A. Smith</i>	10/10/01			
5. RAYMOND C. BAKER	Sim Support	<i>Raymond C. Baker III</i>	10/10/01	<i>Raymond C. Baker III</i>	12/12/2001	
6. Darrell C. Johnson	ILT INSTRUCTOR	<i>Darrell C. Johnson</i>	11/5/01	<i>Darrell C. Johnson</i>	11/12/01	
7. WAYNE FARUCA	Sim Support	<i>Wayne Faruca</i>	11/7/01			
8. Robert Peterson	ILT Instructor	<i>Robert Peterson</i>	11/5/01	<i>Robert Peterson</i>	12/14/01	
9. Ernest Topping	ILT Lead Instructor	<i>Ernest Topping</i>	11/6/01	<i>Ernest Topping</i>	11/12/01	
10. JEFF GURLEY	ITSAM	<i>Jeff Gurley</i>	11/6/01			
11. Dale Hoots	IT/ITC Ops Manager	<i>Dale Hoots</i>	11/7/01	<i>Dale Hoots</i>	11/12/01	
12.						
13.						
14.						
15.						

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/29, 11/5 & 11/12 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 10/29 & 11/5. 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. MICHAEL DAVIS	NSO	<i>[Signature]</i>	10/9/01	<i>[Signature]</i>	11/12/01
2. Stephen LORANCE	NSO	<i>[Signature]</i>	10/9/01		
3. WAYNE FARWHA	Sim Support	<i>[Signature]</i>	10/9/01	<i>[Signature]</i>	11/12/01
4. David A. Smith	Sim Support	<i>[Signature]</i>	10/10/01	<i>[Signature]</i>	11/13/01
5. RAYMOND C. BAKER	Sim Support	<i>[Signature]</i>	10/10/01		
6. Darrell C. Johnson	ILT INSTRUCTOR	<i>[Signature]</i>	11/5/01	<i>[Signature]</i>	11/12/01
7. Wayne Farwaha	Sim Support	<i>[Signature]</i>	11/7/01	<i>[Signature]</i>	11/12/01
8. Robert Peterson	ILT Instructor	<i>[Signature]</i>	11/5/01		
9. Ernest Topping	ILT Lead Instructor	<i>[Signature]</i>	11/6/01	<i>[Signature]</i>	11/12/01
10. JEFF COVLEY	ITSAM	<i>[Signature]</i>	11/6/01	<i>[Signature]</i>	11/13/01
11. Dale Hoots	ITSAM <i>[Signature]</i> Ops manager	<i>[Signature]</i>	11/7/01	<i>[Signature]</i>	11/12/01
12.					
13.					
14.					
15.					

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Oct 29, Nov 5, Nov 12, 2001 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 10/29 & 11/5. 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.	<u>Jeff Heaton</u>	<u>Training Lead Supervisor</u>	<u>Jeff K. Heaton</u>	<u>10-25-01</u>	<u>Jeff K. Heaton</u>	<u>11-12-01</u>
2.	<u>Ernest W Topping</u>	<u>ILT Lead Instructor</u>	<u>Ernest W Topping</u>	<u>10/28/01</u>	<u>Ernest W Topping</u>	<u>11/12/01</u>
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES:

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-301-3,
“Operating Test Quality Checklist”

Facility: Byron		Date of Examination: 10/29/2001		Operating Test Number: 2001	
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).	GLW	RMW	OK		
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	GLW	RMW	OK		
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	GLW	RMW	OK		
d. Overlap with the written examination and between operating test categories is within acceptable limits.	GLW	RMW	OK		
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	GLW	RMW	OK		
2. WALK-THROUGH (CATEGORY A & B) CRITERIA			--	--	--
a. Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - 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 	GLW	RMW	OK		
b. The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	GLW	RMW	OK		
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.	GLW	RMW	OK		
d. At least 20 percent of the JPMs on each test are new or significantly modified.	GLW	RMW	OK		
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.	GLW	RMW	OK		
<div style="display: flex; justify-content: space-between;"> Printed Name / Signature Date </div>					
a. Author	Gary L. Wolfe / <u>Gary L Wolfe</u>		9/7/01		
b. Facility Reviewer(*)	Richard M. Williams / <u>R M Williams</u>		9-7-01		
c. NRC Chief Examiner (#)	DAVID L. PELTON / <u>David L Pelton</u>		11/2/01		
d. NRC Supervisor (*)	David L. Williams / <u>David L Williams</u>		11/2/01		
NOTE: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence is required.					

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-301-4,
“Simulator Scenario Quality Checklist”

Facility: Byron		Date of Exam: 10/29/2001		Scenario Numbers: 1 / 2 / 3 / 4		Operating Test No.: 2001	
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.	GLW	RND	ROP			
2.	The scenarios consist mostly of related events.	GLW	RND	ROP			
3.	Each event description consists of <ul style="list-style-type: none"> 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) 	GLW	RND	ROP			
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.	GLW	RND	ROP			
5.	The events are valid with regard to physics and thermodynamics.	GLW	RND	ROP			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	GLW	RND	ROP			
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.	GLW	RND	ROP			
8.	The simulator modeling is not altered.	GLW	RND	ROP			
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.	GLW	RND	ROP			
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.	GLW	RND	ROP			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	GLW	RND	ROP			
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).	GLW	RND	ROP			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	GLW	RND	ROP			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	--	--	--		
1.	Total malfunctions (5-8)	6 / 7 / 7 / 7	GLW	RND	ROP		
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 2 / 2	GLW	RND	ROP		
3.	Abnormal events (2-4)	4 / 4 / 5 / 4	GLW	RND	ROP		
4.	Major transients (1-2)	2 / 1 / 1 / 1	GLW	RND	ROP		
5.	EOPs entered/requiring substantive actions (1-2)	1 / 1 / 1 / 1	GLW	RND	ROP		
6.	EOP contingencies requiring substantive actions (0-2)	1 / 2 / 0 / 1	GLW	RND	ROP		
7.	Critical tasks (2-3)	2 / 2 / 3 / 3	GLW	RND	ROP		

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-301-5,
“Transient and Event Checklist”

OPERATING TEST NO.: 2001 Byron

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO/BOP	Reactivity	1	1	1	2	3
	Normal	1	1	1	2	3
	Instrument / Component	4	3,5/ 2,4	2,3/ 4,5	5,6/ 3,4	1,2/ 4,5
	Major	1	6,7	6,8	7	6

As RO	Reactivity	1	1	1	2	3
	Normal	0				
	Instrument / Component	2	3,5	2,3	5,6	1,2
	Major	1	6,7	6,8	7	6
SRO-I						
As SRO	Reactivity	0				
	Normal	1	1	1	2	3
	Instrument / Component	2	2-5	2-5	3-6	1,2,4, 5
	Major	1	6,7	6,8	7	6

SRO-U	Reactivity	0				
	Normal	1	1	1	2	3
	Instrument / Component	2	2-5	2-5	3-6	1,2,4, 5
	Major	1	6,7	6,8	7	6

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author:

NRC Reviewer:

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-301-6,
“Competencies Checklist”

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

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: _____

NRC Reviewer: _____

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-401-7,
“Written Examination Quality Checklist”

(See the October, 2001 Braidwood
post-exam retention package for the
ES-401-7)

BYRON INITIAL LICENSE EXAM

**OCTOBER 29 and
NOVEMBER 5-9, 2001**

**ES-401-9,
“Written Examination Review Worksheet”**

**(See the October, 2001 Braidwood
post-exam retention package for the
ES-401-9)**

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-401-10,
“Record of Rejected K/As”

(See the October, 2001 Braidwood
post-exam retention package for the
ES-401-10)

BYRON INITIAL LICENSE EXAM

OCTOBER 29 and
NOVEMBER 5-9, 2001

ES-403-1,
“Written Examination Grading Quality
Checklist”

Facility: BYRON		Date of Exam: 10/29/01		Exam Level: RO	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading	BBP	N/A	DBP	
2.	Answer key changes and question deletions justified and documented	BBP	N/A	DBP	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	BBP	N/A	DBP	
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	BBP	N/A	DBP	
5.	All other failing examinations checked to ensure that grades are justified	BBP	N/A	DBP	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	BBP	N/A	DBP	
Printed Name / Signature		Date			
a. NRC Grader	<u>Bruce Palagi / Bruce Palagi</u>	<u>11-30-01</u>			
b. Facility Reviewer(*)	<u>N/A</u>	<u>N/A</u>			
c. NRC Chief Examiner (*)	<u>DAVID L. PELTON / [Signature]</u>	<u>11/30/01</u>			
d. NRC Supervisor (*)	<u>David E. Hils / [Signature]</u>	<u>12/6/01</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: BYRON		Date of Exam: 10/29/01		Exam Level: SRO	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading	BBP	N/A	DP	
2.	Answer key changes and question deletions justified and documented	BBP	N/A	DP	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	BBP	N/A	DP	
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	BBP	N/A	DP	
5.	All other failing examinations checked to ensure that grades are justified	BBP	N/A	DP	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	BBP	N/A	DP	

Printed Name / Signature		Date
a. NRC Grader	<u>Bruce Palagi / Bruce Palagi</u>	<u>11-30-01</u>
b. Facility Reviewer(*)	<u>N/A</u>	<u>N/A</u>
c. NRC Chief Examiner (*)	<u>DAVID L. PELTON / DLP</u>	<u>11/30/01</u>
d. NRC Supervisor (*)	<u>David E. Hils / DEH</u>	<u>12/6/01</u>

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