Facility: PBNP Date of Examination: 16 October 2000 Operating Test Number: A

	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., 10CFR55.45, operational importance, safety function distribution).	A	CLS	AMS
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	A	CLS	AMS
c.	The operating test shall not duplicate items from the applicants audit test(s))see Section D.1.a).	A	CLS	AMS
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	A	CLS	AMS
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	A	CLS	AMS
	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 . 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	A	CLS	AMS
b.	The prescribed questions in Category A are predominantly open reference and meet their criteria in Attachment 1 of ES-301.	A	CLS	AMS
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.	A	CLS	AMS
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	A	CLS	AMS
	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.	A	CLS	AMS

	Printed Name / Signature	Date
a. Author	Jan Michael Forbes / Jan Michael Forbes	8/5/00
b. Facility Reviewer (*)	Rob HARRSCH / Rob Harrsch LR SIZEMORE Rsizemore	8/10/00
c. NRC Chief Examiner (*)	Ann Marie Stone / Ann Marie Stone	9/18/00
d. NRC Supervisor (*)	David Hills / David Hills	10/12/00

(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.

Reviewed comments with licensee, verified necessary corrections were made. Ready for administration Ann Marie Stone 10/12/2000

Facility: PBNP Date of Exam: 16 October 2000 Scenario Numbers: 1/2/3 Operating Test No: A

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 objective.			
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.	N/A	N/A	N/A
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 position.			

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

OPERATING TEST NO.: 2000-1

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

Author: [signature]

Chief Examiner Ann Marie Stone

Note: Licensee completed Rev. 8 form; not Supplement 1, Addendum I. No significant changes.

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

(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: _____

Chief Examiner: Ann Marie Stone