

Operations Branch Assignment Check Sheet:
 (Includes ES-201-1 & ES-501-1 Rev. 8, Supplement 1 information)

as of: 5/21/2002

Chief: T. Stetka

Facility/Task: PV IN EX

Task Start Date: 7/21/2003

ITEM DESCRIPTION	DUE DATE	INIT	DATE
0 Exam/Inspection Schedule Agreement (C.1.a;C.2.a&b)	Jan 22, 2003	ATG	5/21/2002
1 NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	Jan 22, 2003	ATG	5/21/2002
2 Facility contact briefed on security & other issues (C.2.c)	Jan 22, 2003	VFS	1/22/2003
3 Corp. Notification Letter Sent (C.2.d) (Exams only)	Jan 22, 2003	VFS	1/23/03
3a Inspection Announcement Letter Sent (PIR & LORT if req'd)	Jun 6, 2003	N/A	—
4 Task Expectations, Issues, & Standards Discussed w/ BC	Apr 22, 2003	VFS	3/03
5# [Reference Material Due (C.1.d;C.3.c)]	Mar 23, 2003	N/A	—
6# Integrated Exam Outlines Due (C.1.d&e;C.3.d)	Mar 23, 2003	VFS	3/24/03
7# Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	Apr 6, 2003	VFS	4/3/03
8# Preliminary Applications Due (C.1.j;C.2.g;ES202)	Jun 21, 2003	VFS	6/26/03
9# Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	May 22, 2003	VFS	5/23/03
10# Peer Reviewer Initials As Reviewed All Parts*	Jun 1, 2003	WMM	6/10/03
11# NRC Supervisor. Initials Approving for Fac. Rev. (C.2.h;C.3.f)*	Jun 1, 2003	AT	6/11/03
12# Exams Reviewed w/ Fac. (C.1.h;C.2.f&h;C.3.g)	Jun 1, 2003	VFS	6/12/03
13# Final Appl. Due & Assign. Sheet Prepared (C.1.j;C.2.h;ES202)	Jul 7, 2003	VFS	7/3/03
14# NRC Supervisor Approved Final Exams (C.2.i;C.3.h)*	Jul 14, 2003	AT	7/14/03
15# Final Appl. Rec'd & Waivers Sent (C.2.g)	Jul 14, 2003	VFS	7/14/03
16# Proctor Rules Reviewed w/ Fac. & Written Authorized (C.3.k)	Jul 14, 2003	VFS	7/14/03
17 Exam/Insp Material to Team (C.3.i)	Jul 14, 2003	VFS	7/14/03
18# Fac. graded exam & Comments Rec'd	Aug 2, 2003	VFS	7/25/03
19# NRC Written Grading Completed	Aug 5, 2003	VFS	7/30/03
20# Examiners Finished Grading Op. Tests	Aug 5, 2003	VFS	7/30/03
21# NRC Ch. Ex. Review Completed	Aug 15, 2003	VFS	7/31/03
22 NRC BC Review Completed*	Aug 16, 2003	AT	7/31/03
23# RPS/IP # Examinees Updated Before Report Issued	Aug 21, 2003	VFS	8/13/03
24 License/Denials Signed & Report Issued	Aug 21, 2003	VFS	9/3/03
25 Package Closed Out	Sep 11, 2003	VFS	9/3/03
Final Inspection Report Issued, Exam Package to OLA, Facility. Contact Notified of Results			8/4/03

Not required for inspections, except as noted.

* Note Supervisor/Peer initials required.

[] Required NRC-auth. exams only.

When complete, for exams, add to pkg & fwd copy to BC, for insp, fwd orig'l to BC.

Last revised 10/15/01

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Facility: PVNGS		Examination Start Date: 7/18/03		
Item	Task Description	Initials		
		a	b*	c#
1. Writ-ten	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	APK	MAP	TES
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	APK	MAP	TES
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	APK	MAP	TES
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	APK	MAP	TES
2. Sim	a. Using form 301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument failures, and major transients.	APK	MAP	TES
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated on subsequent days.	APK	MAP	TES
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form 301-4 and described in Appendix D.	APK	MAP	TES
3. W/T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3) *no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam bank	APK	MAP	TES
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task shall require a low-power or shutdown condition, (3) 4 – 6 (2 – 3 for SROU) of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	APK	MAP	TES
	c. Verify the required administrative topics are covered,	APK	MAP	TES
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	APK	MAP	TES
4. General	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	APK	MAP	TES
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	APK	MAP	TES
	c. Ensure the K/A importance ratings (except for plant-specific priorities) are at least 2.5.	APK	MAP	TES
	d. Check for duplication and overlap among exam sections.	APK	MAP	TES
	e. Check the entire exam for balance of coverage.	APK	MAP	TES
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	APK	MAP	TES
a. Author		Printed Name / Signature		Date
b. Facility Reviewer (*)				
c. NRC Chief Examiner (#)				
d. NRC Supervisor				
Note:		* Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.		

PVNGS NRC Written Examination
Quality Assurance Checklist

PVNGS Form ES-401-6

Facility: PVNGS		Examination Start Date: 7/18/03		Exam Level: RO/SRO				
Item Description						Initials		
						a	b*	c#
1.	Questions and answers technically accurate and applicable to facility			APM	WAP	TFS		
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			APM	WAP	TFS		
3.	SRO questions are appropriate per Section D.2.d of ES-401			APM	WAP	TFS		
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process.					TFS		
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)			APM	WAP	TFS		
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 RO / SRO-only question distribution(s) at right	Bank	Modified	New	APM	WAP	TFS	
		51/16	7/2	17/7				
7.	Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right	Memory	C/A		APM	WAP	TFS	
		30/11	45/14					
8.	References/handouts provided do not give away answers			APM	WAP	TFS		
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			APM	WAP	TFS		
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			APM	WAP	TFS		
11.	The exam contains the required number of one-point, multiple choice items; the total is correct and corresponds to value on cover sheet			APM	WAP	TFS		

	Printed Name / Signature	Date
a. Author	Phillip G. Capehart / <u>PG Capehart</u>	7/10/03
b. Facility Reviewer (*)	Warren A. Potter / <u>Warren A Potter</u>	7/10/03
c. Chief Examiner (#)	Thomas F. Stetico / <u>Thomas F Stetico</u>	7/14/03
d. NRC Supervisor	A.T. Gody / <u>AT Gody</u>	7/14/03

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.

Facility: PVNGS Examination Start Date: 7/21/03 Operating Test Number: 2003					
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).	PSK	MAP	TFB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	PSK	MAP	TFB	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a)	PSK	MAP	TFB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	PSK	MAP	TFB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	PSK	MAP	TFB	
2. WALK-THROUGH CRITERIA			-	-	-
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • Initial Conditions • Initiating cues • Reference 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: <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 	PSK	MAP	TFB	
b.	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.	PSK	MAP	TFB	
c.	At least 20 percent of the JPMs and questions on each test are new or significantly modified.	PSK	MAP	TFB	
3. SIMULATOR CRITERIA			-	-	-
a.	The associated simulator operating test (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	PSK	MAP	TFB	
		Printed Name / Signature		Date	
a. Author	Phillip Capehart / <u>PSK Capehart</u>			5/21/03	
b. Facility Reviewer(*)	Warren Potter / <u>Warren Potter</u>			5/21/03	
c. NRC Chief Examiner(#)	Tom Stetka / <u>Thomas Stetka</u>			7/14/03	
d. NRC Supervisor	A.T. Gody / <u>AT Gody</u>			7/14/03	
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: PVNGS Date of Exam: 7/21/2003 Scenario Numbers: 1/2/3 Operating Test No.: 2003					
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.	DK	WAP	VFB	
2.	The scenarios consist mostly of related events.	DK	WAP	VFB	
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)	DK	WAP	VFB	
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.	DK	WAP	VFB	
5.	The events are valid with regard to physics and thermodynamics.	DK	WAP	VFB	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	DK	WAP	VFB	
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.	DK	WAP	VFB	
8.	The simulator modeling is not altered.	DK	WAP	VFB	
9.	The scenarios have been validated. Pursuant to 10CFR55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	DK	WAP	VFB	
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.5 of ES-301.	DK	WAP	VFB	
11.	All individual operator competencies can be evaluated as verified using Form ES-301.6 (submit the form along with the simulator scenarios).	DK	WAP	VFB	
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form along with the simulator scenarios).	DK	WAP	VFB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	DK	WAP	VFB	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	6/6/6	DK	WAP	VFB
2.	Malfunctions after EOP entry (1-2)	1/1/2	DK	WAP	VFB
3.	Abnormal events (2-4)	3/2/2	DK	WAP	VFB
4.	Major transients (1-2)	1/1/1	DK	WAP	VFB
5.	EOPs entered/requiring substantive actions (1-2)	1/2/2	DK	WAP	VFB
6.	EOP contingencies requiring substantive actions (0-2)	1/1/1	DK	WAP	VFB
7.	Critical tasks (2-3)	3/2/2	DK	WAP	VFB

OPERATING TEST NO.: PVNGS 2003
Reactor Operator Candidate #1/Alternate 13

Evolution Type	Minimum Number	Scenario Number				
		1		3		Total
		RO	BOP	RO	BOP	
Reactivity Event #	1*	1 2			1 1	2
Normal Event #	1*	0			0	0
Inst./Comp. Event #	4*	3 4,5,6			4 3,4,5,7	7
Major Event #	1	1 7			1 6	2
AOP Event #	NA	2 4,5			1 3	3

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:

Phil Capehart / PJ Capodot 5-21-03

NRC Reviewer:

Thomas J. Stecher

OPERATING TEST NO.: PVNGS 2003
Reactor Operator Candidate #1/Alternate 32

Evolution Type	Minimum Number	Scenario Number				
		3		2		Total
		RO	BOP	RO	BOP	
Reactivity Event #	1*	1 1			1 3	2
Normal Event #	1*	0			1 1	1
Inst./Comp. Event #	4*	3 2,3,4			3 3,5,7	6
Major Event #	1	1 6			1 8	2
AOP Event #	NA	2 2,3			2 3,4	4

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:

PA Capshaw

NRC Reviewer:

Thomas J. Stecko

OPERATING TEST NO.: PVNGS 2003
Reactor Operator Candidate #2

Evolution Type	Minimum Number	Scenario Number				Total
		1		2		
		RO	BOP	RO	BOP	
Reactivity Event #	1*		1 2	1 5		2
Normal Event #	1*		1 1	0		1
Inst./Comp. Event #	4*		3 3,5,6	2 4,6		5
Major Event #	1		1 7	1 8		2
AOP Event #	NA		2 3,5	2 3,4		4

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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: _____

AJ Capeland

NRC Reviewer: _____

Thomas F. Steink

OPERATING TEST NO.: PVNGS 2003
Reactor Operator Candidate #2/Alternate 13

Evolution Type	Minimum Number	Scenario Number				Total
		1		3		
		RO	BOP	RO	BOP	
Reactivity Event #	1*		1 2	1 1		2
Normal Event #	1*		1 1	0		1
Inst./Comp. Event #	4*		3 3,5,6	3 2,3,4		6
Major Event #	1		1 7	1 6		2
AOP Event #	NA		2 3,5	2 2,3		4

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:

Phil Capehart / AJ Capdat 5-21-03

NRC Reviewer:

Thomas J. Stricko

OPERATING TEST NO.: PVNGS 2003
Reactor Operator Candidate #2/Alternate 32

Evolution Type	Minimum Number	Scenario Number				Total
		3		2		
		RO	BOP	RO	BOP	
Reactivity Event #	1*		1 1	1 3		2
Normal Event #	1*		0	0		1
Inst./Comp. Event #	4*		4 3,4,5,7	3 4,5,6		7
Major Event #	1		1 6	1 8		2
AOP Event #	NA		1 3	2 3,4		3

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:

Phil Capehart / PJ Capehart 5-21-03

NRC Reviewer:

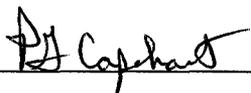
Thomas J. Stetler

OPERATING TEST NO.: PVNGS 2003 (SRO)

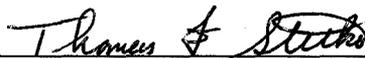
Evolution Type	Minimum Number	Scenario Number		
		1	2	3
Reactivity Event #	0	1 2	1 3	1 1
Normal Event #	1*	1 1	1 1	0
Instrument/Comp Event #	2*	4 3,4,5,6	4 4,5,6,7	5 2,3,4,5,7
Major Event #	1	1 7	1 8	1 6
AOP Event #	NA	3 3,4,5	2 3,4	2 2,3

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:

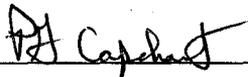


OPERATING TEST NO.: PVNGS 2003 (SRO Totals)

Evolution Type	Minimum Number	Scenario Number		Total
		1	2	
Reactivity Event #	0	1 2	1 3	2
Normal Event #	1*	1 1	1 1	2
Inst./Comp. Event #	2*	4 3,4,5,6	4 4,5,6,7	8
Major Event #	1	1 7	1 8	2
AOP Event #	NA	3 3,4,5	2 3,4	5

- 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.5.d) but must be significant per Section C.2.a of Appendix D. *Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (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:



OPERATING TEST NO.: 2003

Competencies	SRO				RO				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	5 6 7	2 3 4 5 6 7 8	2 3 4 6 7		4 5 6	3 4 5 6	2 3 4 6		3 5 6 7	1 3 5 7 8	3 5 6 7	
Comply With and Use Procedures (1)	3 4 5 6 7	3 4 5 6 7 8	1 2 3 4 6 7		2 4 5 6	4 6	1 2 3 4		1 2 3 6 7	1 3 7 8	1 3	
Operate Control Boards (2)					2 4 5 7	3 4 5 6	1 2 3 4 6		1 2 3 6 7	1 3 7 8	1 3 5 6 7	
Communicate and Interact	2 3 4 5 6 7	2 3 4 5 6 7 8	1 2 3 4 5 6 7		2 4 5 6 7	3 4 5 6	1 2 3 4 6 7		1 2 3 6 7	2 3 5 7 8	1 2 3 5 6 7	
Demonstrate Supervisory Ability (3)	2 3 4 5 6 7	3 4 5 6 7 8	1 2 3 4 5 6 7									
Comply With and Use Tech. Specs. (3)	3	2	2									

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: AS Capelant

NRC Reviewer: Thermon J. Stitt

PVNGS Written Examination Grading
Quality Checklist

PVNGS Form ES-403-1

Facility: PVNGS	July 18, 2003		RO Written Examination		
Item Description	Initials				
	a	b	C		
1. Clean answer sheets copied before grading	PJK	WAP	VJS		
2. Answer key changes and question deletions justified and documented.	PJK	WAP	VJS		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	PJK	WAP	VJS		
4. Grading for all borderline cases (80% +/- 2% overall and 70 +/- 4% of the SRO-only) reviewed in detail	PJK	WAP	VJS		
5. All other failing examinations checked to ensure that grades are justified	PJK	WAP	VJS		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	PJK	WAP	VJS		
			Printed Name / Signature		Date
a. Grader	Phillip G. Capehart / <u>PJK Capehart</u>			<u>7/24/2003</u>	
b. Facility Reviewer (*)	Warren Potter / <u>WAP Potter</u>			<u>7/24/2003</u>	
c. NRC Chief Examiner (*)	Thomas F. Stetka / <u>Thomas F Stetka</u>			<u>7/31/03</u>	
d. NRC Supervisor (*)	A.T. Gody / <u>AT Gody</u>			<u>7/31/03</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC: two independent NRC reviews are required.					

PVNGS Written Examination Grading
Quality Checklist

PVNGS Form ES-403-1

Facility: PVNGS		July 18, 2003		SRO Written Examination		
Item Description		Initials				
		a	b	C		
1. Clean answer sheets copied before grading		DK	MAP	VFB		
2. Answer key changes and question deletions justified and documented.		DK	MAP	VFB		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)		DK	MAP	VFB		
4. Grading for all borderline cases (80% +/- 2% overall and 70 +/- 4% of the SRO-only) reviewed in detail		DK	MAP	VFB		
5. All other failing examinations checked to ensure that grades are justified		DK	MAP	VFB		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants		DK	MAP	VFB		
Printed Name / Signature				Date		
a. Grader	Phillip G. Capehart / <u>PG Capehart</u>			7/24/2003		
b. Facility Reviewer (*)	Warren Potter / <u>W Potter</u>			7/24/2003		
c. NRC Chief Examiner (*)	Thomas F. Stetka / <u>Thomas F Stetka</u>			7/31/03		
d. NRC Supervisor (*)	A.T. Gody / <u>AT Gody</u>			7/31/03		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC: two independent NRC reviews are required.						

Operator Licensing Exam Schedule

From 07/21/2003 To 07/24/2003

Region: 4

Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
07/21/2003	Palo Verde / 05000528 / 2003301 TAC #: X02249	RO - 2 SROU - 1	Admin	FFF	STETKA, THOMAS F.	STETKA, THOMAS F.
07/21/2003	Palo Verde / 05000529 / 2003301 TAC #: X02250	RO - 2 SROU - 1	Admin		STETKA, THOMAS F.	STETKA, THOMAS F.
07/21/2003	Palo Verde / 05000530 / 2003301 TAC #: X02251	RO - 2 SROU - 1	Admin		STETKA, THOMAS F.	LANTZ, RYAN E. MCKERNON, THOMAS O. STETKA, THOMAS F.

Sites: PALO

Orgs: 4620

Exam Author: ALL

Operator Licensing Exam Schedule
From 07/21/2003 To 07/24/2003

Region: 4 Phase Code: 5 Operational

Summary By Date

07/2003	PALO - Palo Verde					
	RO - 6	SROI - 0	SROU - 3	LSRO - 0		Total for Palo Verde: 9

2003 NRC Examination Security Agreement

I acknowledge that I have NOT acquired any specialized knowledge about the NRC licensing examinations scheduled to start on July 18, 2003 and run through July 24, 2003. 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 indication or suggestions that examination security may have been compromised.

	PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE	DATE
1	Bob Ferro	ROIT	Bob Ferro	7/18/03
2	JEFF GUNNIN	ROIT	JEFF GUNNIN	7/18/03
3	GREGORY D. BRIDGEMAN	SROIT	GREGORY D. BRIDGEMAN	7-18-03
4	DAVID STRINGER	ROIT	DAVID STRINGER	7/18/03
5	James Weedman	ROIT	JAMES WEEDMAN	7/18/03
6	LANCE D. SHARRETT	ROIT	LANCE D. SHARRETT	7-18-03
7	Henry J. Leonard	SROIT	HENRY J. LEONARD	7/18/03
8	David Sollars	SROIT	DAVID SOLLARS	7/18/03
9	MICHAEL VANGEMERT	ROIT	MICHAEL VANGEMERT	7-18-03



A subsidiary of Pinnacle West Capital Corporation

Name: Phillip G. Capehart
Title: Instructor
Department: Training

Tel. 623-393-5356
Fax 623-393-6164
e-mail z20561@aps.com

Mail Station 7894
5801 S. Wintersburg Rd.
Tonapah, Arizona 85354-7529

September 16, 2003

Tom, enclosed are the "Examination Security Agreement" forms (3 total) for the 2003 PVNGS NRC Exam. Sorry it took so long to get them back to you but the last remaining individual I needed to sign was gone on vacation until today.

I hope this finds you in good health and that everything is going well. I look forward to working with you again in the future.

If you need any additional information or assistance feel free to call on me.

A handwritten signature in black ink, appearing to read 'P. G. Capehart'.

627-712-013
De Schiller

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/18-7/24/03 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 7/18-7/24/03. 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>MATHEW N. SALZA</u>	<u>SOFT. ENG.</u>	<i>[Signature]</i>	<u>5/6/2003</u>	<i>[Signature]</i>	<u>7/29/03</u>
2. <u>WENDELL R JOHNSON</u>	<u>RO</u>	<i>[Signature]</i>	<u>5-9-03</u>	<i>[Signature]</i>	<u>8-19-03</u>
3. <u>STEPHEN L. PETERS</u>	<u>SRO</u>	<i>[Signature]</i>	<u>05-09-03</u>	<i>[Signature]</i>	<u>08-19-03</u>
4. <u>Roger Middleton</u>	<u>S.M.</u>	<i>[Signature]</i>	<u>5/9/03</u>	<i>[Signature]</i>	<u>8/19/03</u>
5. <u>David Rutherford</u>	<u>RO</u>	<i>[Signature]</i>	<u>5-9-03</u>	<i>[Signature]</i>	<u>8-19-03</u>
6. <u>Thomas Mock</u>	<u>CRS</u>	<i>[Signature]</i>	<u>5-9-03</u>	<i>[Signature]</i>	<u>8/19/03</u>
7. <u>Mike Vaughn</u>	<u>CRS</u>	<i>[Signature]</i>	<u>5-9-03</u>	<i>[Signature]</i>	<u>8-19-03</u>
8. <u>RICK TIMMONS</u>	<u>OPS ADVISOR</u>	<i>[Signature]</i>	<u>5-13-03</u>	<i>[Signature]</i>	<u>8-20-03</u>
9. <u>Elizabeth Godinez</u>	<u>Form System Analyst</u>	<i>[Signature]</i>	<u>5/14/03</u>	<i>[Signature]</i>	<u>08/19/03</u>
10. <u>Jimmy P. Callahan</u>	<u>NUC TRNG INST</u>	<i>[Signature]</i>	<u>5/16/03</u>	<i>[Signature]</i>	<u>7/29/03</u>
11. <u>Arthur Tomlinson</u>	<u>SRO</u>	<i>[Signature]</i>	<u>5/16/03</u>	<i>[Signature]</i>	<u>7/29/03</u>
12. <u>Russell E. Wilson</u>	<u>R.O.</u>	<i>[Signature]</i>	<u>7/1/03</u>	<i>[Signature]</i>	<u>7/29/03</u>
13. <u>EDWARD SCHELLING</u>	<u>R.O.</u>	<i>[Signature]</i>	<u>7/1/03</u>	<i>[Signature]</i>	<u>8/21/03</u>
14. <u>MO Abavi</u>	<u>S.W</u>	<i>[Signature]</i>	<u>7-1-03</u>	<i>[Signature]</i>	<u>7/29/03</u>
15. <u>Roderic D. LEE</u>	<u>RO</u>	<i>[Signature]</i>	<u>7/2/03</u>	<i>[Signature]</i>	<u>8/21/03</u>

NOTES:

1. Pre-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. <u>Philly G. Caphart</u>	<u>Instructor / Facility Author</u>	<u>[Signature]</u>	<u>1/14/03</u>	<u>[Signature]</u>	<u>7/24/03</u>
2. <u>William J. Drey</u>	<u>Instructor / Facility Author</u>	<u>[Signature]</u>	<u>1/14/03</u>	<u>[Signature]</u>	<u>7/24/03</u>
3. <u>Warren Potter</u>	<u>Supervisor / Facility Reviewer/Rep</u>	<u>[Signature]</u>	<u>4/4/03</u>	<u>[Signature]</u>	<u>7/24/03</u>
4. <u>Charles OLIVER</u>	<u>Comp Tech / SSC</u>	<u>[Signature]</u>	<u>1/15/03</u>	<u>[Signature]</u>	<u>7/25/03</u>
5. <u>FRED RIEDER</u>	<u>POS Training mgr</u>	<u>[Signature]</u>	<u>2/5/03</u>	<u>[Signature]</u>	<u>7/29/03</u>
6. <u>Monica Ramos</u>	<u>Admin Tech</u>	<u>[Signature]</u>	<u>2/13/03</u>	<u>[Signature]</u>	<u>7/25/03</u>
7. <u>William Henricson</u>	<u>Sim support</u>	<u>[Signature]</u>	<u>03/17/03</u>	<u>[Signature]</u>	<u>7/24/03 7/29/03</u>
8. <u>Joseph C. ARSENAULT</u>	<u>CONSULTANT</u>	<u>[Signature]</u>	<u>3/7/03</u>	<u>[Signature]</u>	<u>8/6/03</u>
9. <u>Scott Zerkel</u>	<u>Shift Mgr. / SGRP OPS</u>	<u>[Signature]</u>	<u>3/18/03</u>	<u>[Signature]</u>	<u>7/19/03</u>
10. <u>Thomas Stehler</u>	<u>Instructor</u>	<u>[Signature]</u>	<u>3/18/03</u>	<u>[Signature]</u>	<u>7/29/03</u>
11. <u>TERRY V. McCLELLAN</u>	<u>CONTROL ROOM SUPERVISOR</u>	<u>[Signature]</u>	<u>5/6/03</u>	<u>[Signature]</u>	<u>9-16-03</u>
12. <u>PAUL Holmes</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>7/6/03</u>	<u>[Signature]</u>	<u>8/19/03</u>
13. <u>NICHOLAS Povia</u>	<u>SENIOR REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>5-6-3</u>	<u>[Signature]</u>	<u>8-19-03</u>
14. <u>RANDALL SANDIDGE</u>	<u>RO</u>	<u>[Signature]</u>	<u>5-6-03</u>	<u>[Signature]</u>	<u>8/19/03</u>
15. <u>Randall Eimer</u>	<u>Shift Manager / SRO</u>	<u>[Signature]</u>	<u>050603</u>	<u>[Signature]</u>	<u>08/19/03</u>

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/19/03-7/24/03 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 7/19-7/24/03. 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.	John Wood	Section Leader NTD	[Signature]	7.9.03	[Signature]	7/29/03
2.	Alan Malley	INSTA	[Signature]	7-15-03	[Signature]	7/28/03
3.	Mary Raymond	INSTA	[Signature]	7/21/03	[Signature]	7/24/03
4.	LARRY ESAU	SIMULATOR SUPPORT	[Signature]	7/21/03	[Signature]	7/25/03
5.	Jim LESFORD	Instructor	[Signature]	7-21-03	[Signature]	7-23/03
6.	DAVID ROXBOROUGH	INSTRUCTOR	[Signature]	7/22/03	[Signature]	7/24/03
7.	REGINALD A TAYLOR	SHIFT MANAGER TC	[Signature]	7/23/03	[Signature]	7/24/03
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

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