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Examination Outline Quality Checklist

Item Task Description Initials 1 (a) Verify that the outline fits the appropriate model per ES-401. (b) Assess whether the outline was systematically and randomly propared in accordance with section D. T of ES-401 and whether all nonvietige and ability categories are proprieties. (c) Assess whether the outline was systematically and randomly propared in accordance with section D. T of ES-401 and whether all nonvietige and ability categories are proprieties. (c) Assess whether the outline overemphasizes any systems, evolutions, or generic topics. (c) Assess whether the outline overemphasizes any systems, evolutions, or generic topics. (c) Assess whether the outline overemphasizes any systems, evolutions, or generic topics. (c) Assess whether the outline overemphasizes any systems, evolutions, or generic topics. (c) Assess whether the reare are words parents of sets and parents to set and parents of the analytic term are words parents of sets and parents to set and parents to the analytic term are words parents to set and parents to the analytic terms and major terms and the appendix to applicating in accordance with the supected crew composition and rotation and rotation specified on Form ES-3014 and described with the qualitative and quantitative ordinals genetified on Form ES-3014 and described or the analytic term and the appendix to the assess whether the autiline and major terms and the qualitative and quantitative ordinals genetify from the lians MRG samination (C) root takes are duplicated from the applicant's and the qualitative and quantitative ordinals genetify from the lians to the asset of any operating test is taken directly from the lians to a successive days. (c) To the asternation application to and the parotation (C) root takes are duplicant's and the qualitative and ma	Facility	: FENOC BVPS Unit 2	Date of Examination:	12/2	002]
1 (a) Verify that the outline files the appropriate model per ES-401. Image: Construction of the Consthe Construction and Construction of the Con	ltem	Task Descripti	on	Δ	Initials		1
(b) Assess whether the culline was systematically and randomly prepared in accordance with socion D. 1 of ES-401 and whether all knowledge and ability categories are with socion D. 1 of ES-401 and whether all knowledge and ability categories are with socion D. 1 of ES-401 and whether all knowledge and ability categories are with socion D. 1 of ES-401 and whether all knowledge and ability categories are with socion D. 1 of ES-401 and whether all knowledge and ability categories are with socion D. 1 of ES-401 and whether all knowledge and ability categories are with the proportiet of the second term of a social socisciele social socisciele social social soc	1.	(a) Verify that the outline fits the appropriate model	per ES-401.	ms	$\widehat{\Omega}$	ଲମ	
(c) Assess whether the outline overemphasizes any systems, evolutions, or generic topics. (d) Assess whether the justifications for deselected or rejected K/A statements are appropriate. (a) Using form E3-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients. (e) Assess whether there are enough scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients. (f) Assess whether there are enough scenario sets and spares to test the projected number of normal evolutions, instrument and component failures, and major transients. (f) Assess whether there are enough scenario sets and spares to test the projected number of normal evolutions, instrument and component failures, and major transients. (f) To the extent possible, assess whether the outline conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and desoribed in Appendix D. (g) To the extent possible, assess whether the outline conforms with the proposed and the properties and the set of the network of any operating lest is taken directly from the licenses's exam banks. (f) the takes are distributed among the setoplicant's adult test, and figure the applicant's adult test, and figure test, and applicant test the applicant's adult test, and figure test, and applicant test the applicant's adult test, and figure test, and figure test, and applicant test the applicant's adult test, and figure test, and figure test, and applicant test test, and applicant test, and the applicant's adult test, and figure test, and figure test, and figure test, and applicant's adult test, and applicant's adult test, and	W R I	(b) Assess whether the outline was systematically a with section D.1 of ES-401 and whether all know appropriately sampled.	nd randomly prepared in accordance ledge and ability categories are	The	Q	FR.	_
N (d) Assess whether the justifications for deselected or rejected K/A statements are appropriate. (a) Using form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients. (b) Assess whether there are anough scenario sets and sparse to test the projected number of normal evolutions, instrument and component failures, and major transients. (b) Assess whether there are anough scenario sets and sparse to test the projected number of normal evolutions, instruments will not be repeated ore successive days. (b) Assess whether there are anough scenario sets and sparse to test the projected number of schedule without compromising exam integrity; renure seach applicant can be tested (b) Assess whether there are anough scenario sets and sparse to test the projected number of schedule without compromising exam integrity; renure seach applicant can be tested (c) To the extent possible, assess whether the outline conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D. (c) Verify that: (d) the outline contains the reuired number of control room and in-plant tasks (c) Verify that: (c) Verify that: (d) to note than 30% of any operating test is taken directly from the licensee's exam banks (c) Verify that: (c) Verify that: (d) to tasks are dupticated rom the safety function groupings as specified in ES-301 (c) Verify that: (c) Verify that: (c) Verify that: (e) Verify that: the capical administrative topics are covered, withe mphasis on performance-based activities.	T F	(c) Assess whether the outline overemphasizes any	systems, evolutions, or generic topics.	m	Q	Â	3
2. (a) Using form ES-301-5, verify that the proposed scenario sets over the required number of normal evolutions, instrument and component failures, and major transients. Image: Component failures, and major transients. 2. (b) Assess whether there are enough scenario sets and sparse to test the projected number and mix of applicants in accordance with the squeeted crew composition and rotation schedule without compromising exam integrity: ensure each applicant can be tested Image: Composition and rotation schedule without compromising exam integrity: ensure each applicant can be tested (c) To the extent possible, assess whether the outline conforms with the qualitative and quantitative ortherits specified on Form ES-301-4 and described in Appendix D. Image: Composition and rotation applicant can be tested (d) To the extent possible, assess whether the outline conforms with the qualitative and quantitative ortherits specified on Form ES-301-4 and described in Appendix D. Image: Composition and rotation applicant can be tested (d) Verify that: (1) the outline contains the required number of control noom and in-plant tasks Image: Composition and rotation applicant can be repeated form the last NRC examination (3) for tasks are dipicated from the applicant task tests the applicant is anti-applicant can be seen applicant; Image: Composition and rotation applicant can be seen applicant; 3. (The task is the projected number of control noom and in-plant tasks Image: Composition applicant; Image: Composition applicant; 3. (The task is conducted in a low poprice or stuticow normalion condition (5) f	Ň	(d) Assess whether the justifications for deselected appropriate.	or rejected K/A statements are	The	\bigcirc	A	13
2. (b) Assess whether there are enough scenario sets and spares to test the projected number and mix of applicants in accordance with the sequeted area composition and incompatibility in trading and mix of applicants in accordance with the sequeted area composition and incompatibility in the sequeted area composition and including the autility of the set of the outline conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D. Image: Control of the autility of the autilit	•	 (a) Using form ES-301-5, verify that the proposed sc of normal evolutions, instrument and component 	cenario sets cover the required number failures, and major transients.	かん	$\hat{\mathcal{O}}$	JA .	13
(c) To the extent possible, assess whether the outline conforms with the qualitative and quantitative orderia specified on Form ES-301-4 and described in Appendix D. IV IV <t< td=""><td>2. S I M</td><td>(b) Assess whether there are enough scenario sets and mix of applicants in accordance with the exp schedule without compromising exam integrity; e using at least one new scenario. Scenarios will n</td><td>and spares to test the projected number ected crew composition and rotation insure each applicant can be tested ot be repeated over successive days.</td><td>かい</td><td>Q</td><td>FD :</td><td>ø</td></t<>	2. S I M	(b) Assess whether there are enough scenario sets and mix of applicants in accordance with the exp schedule without compromising exam integrity; e using at least one new scenario. Scenarios will n	and spares to test the projected number ected crew composition and rotation insure each applicant can be tested ot be repeated over successive days.	かい	Q	FD :	ø
(a) Verify that: (f) the outline contains the reuired number of control room and in-plant tasks (g) no more than 30% of the test material is repeated from the last NRC examination (3) no tasks are duplicated from the applicant's audit test, and (a) Nority that: (b) Verify that: (c) Verify that the required administrative topics are covered, with emphasis on performance-based activities. (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 successive days. (d) Assess whether the 10CFR65.41/43 and 55.45 sampling is appropriate. (e) Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. (f) Assess whether the exam fits the appropriate job level (RO or SRO). (g) Check the entire exam for balance of coverage. (f) Assess whether the exam fits the appropriate job level (RO or SRO). (g) Check the entire exam fits the appropriate job level (RO or SRO).		(c) To the extent possible, assess whether the outlin quantitative criteria specified on Form ES-301-4	e conforms with the qualitative and and described in Appendix D.	The (, Al ,	12
(b) Verify that: (c) Verify that: (c) Verify that: (c) Verify that: (d) Determine if there are: (c) Interviewer that: (e) Determine: (c) PRES-41/43 and 55.45 sampling is appropriate. (f) Assess whether the 10CFRES-41/43 and 55.45 sampling is appropriate. (f) O PRES-41/43 and 55.45 sampling is appropriate. (f) Assess whether the exam for balance of coverage. (f) Assess whether the exam for balance of coverage. (f) Assess whether the exam fits the appropriate job level (RO or SRO). (f) O PRES-41/43 (f) PRES-41/4		 (a) Verify that: (1) the outline contains the reuired number of control r (2) no more than 30% of the test material is repeated (3)* no tasks are duplicated from the applicant's audit (4) no more than 80% of any operating test is taken di 	room and in-plant tasks from the last NRC examination test, and rectly from the licensee's exam banks	ない	Q	A.	В
(c) Verify that the required administrative topics are covered, with emphasis on performance-based activities. Image: Construction of the performance-based activities. (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 successive days. Image: Construction of the performance and ensure that no items are duplicated on successive days. 4. (a) Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section. Image: Construction of the performance and ensure that NA importance ratings (except for plant-specific priorities) are at least 2.5. Image: Construction of the performance and ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. Image: Construction of the performance and ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. Image: Construction of the performance and ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. R (d) Check for duplication and overlap among exam sections. Image: Construction of the performance and ensure that the appropriate job level (RO or SRO). Image: Construction of the performance and the perfo	3. W/Т	 (b) Verify that: (1)the tasks are distributed among the safety function (2)one task is conducted in a low power or shutdown of (3)40% of the tasks require the candidate to implement (4)one in-plant task tests the applicant's response to a (5)the in-plant walkthrough requires the applicant to end 	groupings as specified in ES-301 condition at an alternate path procedure an emergency or abnormal condition nter the RCA	ħ	0	A	Þ
(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 successive days. Image: Construct on the appropriate exam section in the appropriate exam section. 4. (a) Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section. Image: Construct on the appropriate exam section. (b) Assess whether the 10CFR65.41/43 and 55.45 sampling is appropriate. Image: Construct on the appropriate exam section. Image: Construct on the appropriate exam section. (c) Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. Image: Construct on the appropriate exam for balance of coverage. Image: Construct on the appropriate exam for balance of coverage. (d) Check the entire exam for balance of coverage. Image: Construct on the appropriate job level (RO or SRO). Image: Construct on the appropriate job level (RO or SRO). 1. Author Image: Construct on the exam fits the appropriate job level (RO or SRO). Image: Construct on the appropriate job level (RO or SRO). Image: Construct on the appropriate job level (RO or SRO). 1. Author Image: Construct on the exam fits the appropriate job level (RO or SRO). Image: Construct on the appropriate job level (RO or SRO). Image: Construct on the appropriate job level (RO or SRO). Image: Construct on the appropriate isotruct on the appropriate job level (RO or SRO). Image: Construct on the approprise isotruct on the appropriate job level (RO		(c) Verify that the required administrative topics are performance-based activities.	covered, with emphasis on	りん	Q	A	13
4. (a) Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section. (i) Assess whether the 10CFR55.41/43 and 55.45 sampling is appropriate. (ii) Assess whether the 10CFR55.41/43 and 55.45 sampling is appropriate. (b) Assess whether the 10CFR55.41/43 and 55.45 sampling is appropriate. (iii) Check for duplication and overlap among exam sections. (iii) Check for duplication and overlap among exam sections. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam for balance of coverage. (iii) Check the entire exam fits the appropriate job level (RO or SRO). (iii) Check the entire exam fits the appropriate job level (RO or SRO). (iii) Check for Unication and Verlap the example of Check the entire exam fits the appropriate job level (RO or SRO). (iii) Check for Unication and Verlap the example of Check the entire exam fits the appropriate job level (RO or SRO). (iii) Check for Unication and Verlap the example of Check the entire exam fits the appropriate job level (RO or SRO).		(d) Determine if there are enough different outlines t applicants and ensure that no items are duplicate	o test the projected number and mix of ed on successive days.	TWO	\bigcirc	-	3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4.	 (a) Assess whether plant-specific priorities (including the appropriate exam section. 	g PRA and IPE insights) are covered in	TAN	2-	Ħ.	13
(c) Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. (d) Check for duplication and overlap among exam sections. (e) Check the entire exam for balance of coverage. (f) Assess whether the exam fits the appropriate job level (RO or SRO). Printed Name/Signature 1. Author 2. Facility Reviewer (*) 3. Chief Examiner 4. NRC Supervisor (*) Not applicable for NRC developed examinations	Ģ	(b) Assess whether the 10CFR55.41/43 and 55.45 s	ampling is appropriate.	This		A	3
\overrightarrow{R} (d) Check for duplication and overlap among exam sections. \overrightarrow{PV} \overrightarrow{PV} \overrightarrow{R} (e) Check the entire exam for balance of coverage. \overrightarrow{PV} \overrightarrow{PV} (f) Assess whether the exam fits the appropriate job level (RO or SRO). \overrightarrow{PV} \overrightarrow{PV} 1. Author \overrightarrow{PV} \overrightarrow{PV} \overrightarrow{PV} 2. Facility Reviewer (*) \overrightarrow{PV} \overrightarrow{PV} \overrightarrow{PV} 3. Chief Examiner \overrightarrow{PV} \overrightarrow{PV} \overrightarrow{PV} 4. NRC Supervisor \overrightarrow{R} $\overrightarrow{Cen 1}$ $\overrightarrow{Cen 1}$ (*) Not applicable for NRC developed examinations \overrightarrow{PV} \overrightarrow{PV}		(c) Ensure that K/A importance ratings (except for pl	ant-specific priorities) are at least 2.5.	pro-	Q	æ.	0
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(f) Assess whether the exam fits the appropriate job level (RO or SRO). Printed Name/Signature 1. Author 2. Facility Reviewer (*) 3. Chief Examiner 4. NRC Supervisor (*) Not applicable for NRC developed examinations	Ĺ	(e) Check the entire exam for balance of coverage.		<u>m</u>	Q	T.	0
Printed Name/Signature Date 1. Author 2. Facility Reviewer (*) $\frac{1}{1.00 \text{ LEY}/1.00 \text{ Way Supply}}$ $\frac{10/2/02}{1.02/02}$ 3. Chief Examiner $\frac{1.02/02}{1.02}$ $\frac{10/3/02}{1.02}$ $\frac{10/3/02}{1.02}$ $\frac{10/3/02}{1.02}$ 4. NRC Supervisor $\frac{10/2-02}{1.02}$ $\frac{10/2-02}{1.02}$ $\frac{10/2}{1.02}$ $\frac{10/2}{1.02}$ (*) Not applicable for NRC developed examinations		(f) Assess whether the exam fits the appropriate job	level (RO or SRO).	ηp	\mathcal{Q}	Eff.	Þ
4. NRC Supervisor <u>Ridard J. Conte</u> 10700 <u>11/20/00</u> (*) Not applicable for NRC developed examinations	 Auti Fac Chie 	hor ility Reviewer (*) F.H. 751 556 777 F.J. LAUGHLIN / C	me/Signature Г. Wio Ц <u>Блеча</u> <u>ВIEDZIBACH</u> OR 7R Перена (11)	19/0-	Da 10/1 10/1 10/1 10-	te 2/02 / <u>02</u> 25-09	
(*) Not applicable for NRC developed examinations	4. NR(C Supervisor Richard J.C.	mto 107 Cm		14/	rolor	
	(*) Not aj	oplicable for NRC developed examinations	0				

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Facility:	FENOC BVP	S-2 Date of Examination: 12/16/2002 Operating Te	est Num	ber: 20	02-01	
				Initials		
		1. GENERAL CRITERIA	<u>a</u>	B*	C#	
a.	The operating test of sampling requiremend distribution).	onforms to the previously approved outline; changes are consistent with nts (e.g., 10 CFR 55.45, operational importance, safety function	TW	Bes	FR.	5
b.	There is no day-to-c during this examina	lay repetition between this and other operating tests to be administered tion.	TAN	Bas	FR.	Þ
C.	The operating test s D.1.a).	hall not duplicate items from the applicants' audit test(s)(see Section	The	635	JA -	B
d.	Overlap with the wri acceptable limits.	tten examination and between operating test categories is within	The	Bas	5A	z
е.	It appears that the c applicants at the de	perating test will differentiate between competent and less-than-competent signated license level.	MW	Bas	SA.	z
	2. W	ALK-THROUGH (CATEGORY A & B) CRITERIA		-		
	 ≧ initial conditions ≅ initiating cues ≅ references and ≅ validated time li deemed to be ti ≅ specific perform ○ detailed ex ○ system res ○ statements ○ criteria for ○ identificatio ○ restrictions 	tools, including associated procedures mits (average time allowed for completion) and specific designation if me critical by the facility licensee ance criteria that include: spected actions with exact criteria and nomenclature sponse and other examiner cues describing important observations to be made by the applicant successful completion of the task on of critical steps and their associated performance standards on the sequence of steps, if applicable	1722	Bas	A.	5
b.	The prescripted que criteria in Attachmer	stions in Category A are predominantly open reference and meet the nt 1 of ES-301.	Tin	BLS	FT I	Ð
C.	Repetition from operacceptable limits (30	rating tests used during the previous licensing examination is within 0% for the walk-through) and does not compromise test integrity	pu	BLS	Fld 1	5
d.	At least 20 percent of	of the JPMs on each test are new or significantly modified.	Trus	BLS	FAX.	3
	:	3. SIMULATOR (CATEGORY C) CRITERIA				
a.	The associated simu with Form ES-301-4	lator operating tests (scenario sets) have been reviewed in accordance and a copy is attached.	m	Bas	FAL 6	5
a. Author b. Facility c. NRC Ch d. NRC Su	Reviewer(*) nief Examiner (#) upervisor	Printed Name / Signature 1. WOOLEY / T. Wrohy B. SOMMER / Barry J. Shume F.J. LAUGHLIN / Horney Lin R.J. (m. t. e) Officiallin R.J. (m. t. e) Officiallin	Da 11-7- 11-7- 11-7- 11-7- 11-7- 11-21 11-21 12-	te -01 -02 -02 -02 -02		
(*) The fac	cility signature is not	applicable for NRC-developed tests				
(#) Indepe	ndent NRC reviewer	initial items in column "C". Chief Examiner concurrence required.				

Facility:	FENOC BVPS-2	Date of Exam 12	2/16/2002	Scenario Numbe	ers: 1	121	30	perating	Test No.:	2002-02
		QUALITATIV	'E ATTRIBU'	TES					Initials	
								а	b	c
1.	The initial condition service, but it does	s are realistic, in that not cue the operators	some equip s into expecte	ment and/or instrume ed events.	ntation	may be	out of	TW	sab	FR (
2.	The scenarios consi	st mostly of related e	vents.			,		MW	J 48	FA 1
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) 								Jak	A I
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.								Ia b	JA /
5.	The events are valid	I with regard to physic	cs and therm	odynamics.				TW	508	top 1
6.	Sequencing and tin complete evaluatio	ning of events is reason n results commensur	onable, and ate with the s	allows the examination scenario objectives.	on team	to obtai	n	rad	Ser	JA A
7.	If time compression Operators have sub Cues are given.) techniques are used ficient time to carry o	l, the scenari ut expected	io summary clearly so activities without und	o indicat ue time	tes. constrai	ints.	N/A	NA	NA TAL
8.	The simulator mode	ling is not altered.						Tip	Jak	Ff1.2
9.	The scenarios have evaluated to ensure	been validated. Any e that functional fidelities	y open simul ty is maintair	ator performance def ned while running the	iciencie: planneo	s have t d scena	een rios.	The	508-	SAL 1
10.	Every operator will other scenarios ha	be evaluated using a ve been altered in acr	t least one n cordance wit	ew or significantly mo h Section D.4 of ES-3	odified s 301.	cenario.	All	Trad	Ja &	FAL 1
11.	All individual opera (submit the form al	tor competencies can ong with the simulato	n be evaluate r scenarios).	ed, as verified using F	orm ES	-301-6		Man	ter	SAL 13
12.	Each applicant will specified on Form	be significantly involv ES-301-5 (submit the	ved in the mi	nimum number of trai	nsients : ;).	and eve	nts	The s	₽X-	JA 1
13.	The level of difficul	ty is appropriate to su	ipport licensi	ng decisions for each	crew p	osition.		Tw	Jak	JAL A
	TARGET				Actu	ial Attrib	outes		****	
		ENAKIU; SEE SECT	ION D.4.D)				6	$ \kappa\rangle$		TON 1
<u> </u>		D-0)				0	9	KI		JH.
2.	Malfunctions after E	OP entry (1-2)			2	1	4	1 M	Jar	THE A
3.	Abnormal events (2	-4)			4	4	4	10	Feet	HAN A
4.	Major transients (1-	2)			1	1	1		Jah	Stor 1
5.	EOPs entered/requ	ring substantive actic	ons (1-2)		2	2	3	1/10	Jack	SAL 1
6.	EOP contingencies	requiring substantive	actions (0-2)	1	0	1	TW	Jeef	FH- 1
7.	Critical tasks (2-3)				2	4	2	NW	Far	AM A

Facility	FENOC BVPS-2	Date of Exam 12/16/2002	Scenario Num	bers:	4 / /	Oper	ating Te	st No.: 2	002-02
-		QUALITATIVE ATTRIBUTE	ES					Initials	
							а	b	с
						.			
1.	The initial condition service, but it does	s are realistic, in that some equipments of the source of the operators into expected	ent and/or instrume l events.	ntation	may be	out of	Tro	Iat	FR.
2.	The scenarios consi	st mostly of related events.					NW	Jeck	FA
3.	Each event descripti ≅ the point ii ≅ the malfur ≅ the sympti ≅ the expect ≅ the event	on consists of n the scenario when it is to be initial nction(s) that are entered to initiate to oms/cues that will be visible to the o ted operator actions (by shift positio termination point (if applicable)	ted ihe event crew n)				Tw	fat	FA.
4.	No more than one r without a credible p	non-mechanistic failure (e.g., pipe b receding incident such as a seismic	reak) is incorporate	d into th	ne scen	ario	Tw	Jat	A
5.	The events are valid	with regard to physics and thermo	dynamics.				TW	50k	FA.
6.	Sequencing and tin complete evaluation	ning of events is reasonable, and all	lows the examinatic enario objectives.	on team	to obta	n	Trus	Jak	5D
7.	If time compressior Operators have suf Cues are given.	techniques are used, the scenario ficient time to carry out expected ac	summary clearly so tivities without undu	o indicat ue time	ies. constra	ints.	N/A	NIA	NA
8.	The simulator mode	ling is not altered.					Th	Jer	II.
9.	The scenarios have evaluated to ensure	been validated. Any open simulat that functional fidelity is maintaine	or performance defi d while running the	iciencie: planneo	s have l d scena	peen rios.	Trus	Jot	5A
10.	Every operator will other scenarios have	be evaluated using at least one new ve been altered in accordance with	w or significantly mo Section D.4 of ES-3	odified s 801.	cenario	. All	Tw	Iarg	FAL
11.	All individual opera (submit the form all	tor competencies can be evaluated, ong with the simulator scenarios).	, as verified using F	orm ES	-301-6		Tw	For	FP2
12.	Each applicant will specified on Form I	be significantly involved in the mining SS-301-5 (submit the form with the states of t	mum number of trar simulator scenarios	nsients :).	and eve	nts	Tw	Jer	In.
13.	The level of difficul	ty is appropriate to support licensing	decisions for each	crew p	osition.		Tw	Jat	FA2
	TARGET	QUANTITATIVE ATTRIBUTES		Actu	al Attrit	outes			
	(PER SC	ENARIO; SEE SECTION D.4.D)							
1.	Total malfunctions (5-8)		6			Tr	J 24	FA
2.	Malfunctions after E	OP entry (1-2)		2			Tw	Int	AL '
3.	Abnormal events (2	-4)		3			Tw	Jed	FA
4.	Major transients (1-	2)		1			Mr.	tad	50
5.	EOPs entered/requi	ring substantive actions (1-2)		2			No	500	A.
6.	EOP contingencies	requiring substantive actions (0-2)		0	1		TW	test	AR
7.	Critical tasks (2-3)		·····	2			nu	300	D

OPERATING TEST NO.: RO-1

Applicant	Evolution	Minimum	s	cenario	Numb	er
Туре	Туре	Number	1	2	3	4
	Reactivity	1	N/A	1		
	Normal	1	1	N/A		
RO/PO	instrument/	4	2,3,8	2,5,7		
	Component					
	Major	1	6	6		
	Reactivity	1				
	Normal	0				
As RO or PO	Instrument/	2				
	Component					
	Major	1				
SRO-I						
	Reactivity	0				
	Normal	1				
As SRO	Instrument/	2				
	Component					
	Major	1				
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each

evolution type. 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. (2)

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. (3)

OPERATING TEST NO.: RO-2

Applicant	Evolution	Minimum	s	cenario	Numbe	er
Туре	Туре	Number	1	2	3	4
	Reactivity	1	N/A	1		
	Normal	1	1	N/A		
RO/PO	Instrument/	4	2,3,8	2,5,7		
	Component					
	Major	1	6	6		
····-	Reactivity	1				
	Normal	0				
As RO or PO	Instrument/	2				
	Component					
	Major	1				
SRO-I						
	Reactivity	0				
	Normal	1				
As SRO	Instrument/	2				
	Component					
	Major	1				
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

- Enter the operating test number and Form ES-D-1 event numbers for each evolution type. 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. 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. (2)
- (3)

IS W

OPERATING TEST NO.: RO-3

Applicant	Evolution	Minimum	s	Scenario Number					
Туре	Туре	Number	1	2	3	4			
	Reactivity	1	N/A	1					
	Normal	1	1	N/A					
RO/PO	instrument/	4	2,3,8	2,5,7					
	Component								
	Major	1	6	6					
	Reactivity	1							
	Normal	0							
As RO or PO	Instrument/	2							
	Component								
	Major	1							
SRO-I									
	Reactivity	0							
	Normal	1							
As SRO	Instrument/	2							
	Component								
	Major	1							
	Reactivity	0							
	Normal	1							
SRO-U	Instrument/	2							
	Component								
	Major	1							

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

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. 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. (2)

(3)

OPERATING TEST NO.: RO-4

		T	1	,	•···•	
Applicant	Evolution	Minimum	S	cenario	Numbe	∍r
Туре	Туре	Number	1	2	3	4
	Reactivity	1	N/A		1	
	Normal	1	1		N/A	
RO/PO	Instrument/	4	2,3,8		2,4,7	
	Component					
	Major	1	6		5	
	Reactivity	1				
	Normal	0				
As RO or PO	Instrument/	2				
	Component					
	Major	1				
SRO-I						
	Reactivity	0		_		
	Normal	1				
As SRO	Instrument/	2				
	Component					
	Major	1				
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

- 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. 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. (2)
- (3)

M

OPERATING TEST NO.: SROI-1

Applicant	Evolution	Minimum	S	Scenario	Numbe	ər
Туре	Туре	Number	1	2	3	4
	Reactivity	1				
	Normal	1				
RO/PO	instrument/	4				
	Component					
	Major	1				
	Reactivity	1	1			
	Normal	0	N/A			
As RO or PO	Instrument/	2	4,5,7			
	Component					
	Major	1	6			
SRO-I						
	Reactivity	0		N/A		· · · · · · · · · · · · · · · · · · ·
	Normal	1		1		
As SRO	Instrument/	2		2,3,4,		
	Component			5		
	Major	1		6		
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each

evolution type. 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 (2)

Appendix D. 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. (3)

OPERATING TEST NO.: SROI-2

Applicant	Evolution	Minimum	S	Scenario Number					
Туре	Туре	Number	1	2	3	4			
	Reactivity	1							
	Normal	1							
RO/PO	Instrument/	4							
	Component	-		-					
	Major	1							
	Reactivity	1	1						
	Normal	0	N/A						
As RO or PO	Instrument/	2	4,5,7						
	Component								
	Major	1	6						
SRO-I		1 ,	· · · · · · · · ·	<u> </u>					
	Reactivity	0		N/A					
	Normal	1		1					
As SRO	Instrument/	2	,	2,3,4,					
	Component			5					
	Major	1		6					
	Reactivity	0							
	Normal	1							
SRO-U	Instrument/	2							
	Component								
	Major	1							

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each

- evolution type. 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. 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. (2)
- (3)

OPERATING TEST NO.: SROI-3

Applicant	Evolution	Minimum	s	cenario	Numb	ər
Туре	Туре	Number	1	2	3	4
	Reactivity	1				
	Normal	1				
RO/PO	Instrument/	4				
	Component			: 		
	Major	1				
	Reactivity	1			1	
	Normal	0			N/A	
As RO or PO	Instrument/	2			2,4,7	
	Component					
	Major	1			5	
SRO-I	<u>, , , , , , , , , , , , , , , , , , , </u>					
	Reactivity	0	N/A			
	Normal	1	1			
As SRO	Instrument/	2	2,3,4,			
	Component		0,7,0			
	Major	1	6			
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

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. 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. (2)

(3)

OPERATING TEST NO.: SROI-4

Applicant	Evolution	Minimum	S	cenario	Numb	er
Туре	Туре	Number	1	2	3	4
	Reactivity	1				
	Normal	1				
RO/PO	Instrument/	4				
	Component					
	Major	1				
	Reactivity	1	1			
	Normal	0	N/A			
As RO or PO	Instrument/	2	4,5,7			
	Component					
	Major	1	6			
SRO-I						
	Reactivity	0		N/A		
	Normal	1		1	-	
As SRO	Instrument/	2		2,3,4,		
	Component					
	Major	1		6		
	Reactivity	0				
	Normal	1				
SRO-U	Instrument/	2				
	Component					
	Major	1				

Instructions: (1)

Chief Examiner:

- Enter the operating test number and Form ES-D-1 event numbers for each evolution type. 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. 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 (2)
- (3) applicant's competence count toward the minimum requirement.

Author:

NUREG-1021, Revision 8

OPERATING TEST NO.: SROU-1

Applicant	Evolution	Minimum	S	cenario	Numbe	er
Туре	Туре	Number	1	2	3	4
	Reactivity	1				
	Normal	1				
RO/PO	Instrument/	4				
	Component					
	Major	1				
	Reactivity	1				
	Normal	0				
As RO or PO	Instrument/	2				
	Component					
	Major	1				
SRO-I						
	Reactivity	0				
	Normal	1				
As SRO	Instrument/	2				
	Component					
	Major	1				
	Reactivity	0	N/A			
	Normal	1	1			
SRO-U	Instrument/	2	2,3,4,			
	Component		5,7,0			
	Major	1	6			

Instructions: (1)

Chief Examiner:

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

evolution type. 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. 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. (2)

(3)

W)

Competencies Checklist

Form ES-301-6

CREW A		SRC	DU-1		SROI-1				RO-1				
Competencies		SCEN	IARIO			SCEN	IARIO		SCENARIO				
	1 US	2	3	4	1 RO	2 US	3	4	1 PO	2 RO	3	4	
Understand and Interpret Annunciators and Alarms	3,4,5 ,8				4,5,6	2,3,4 ,5			2,3,8	2,5			
Diagnose Events and Conditions	2,3,4 ,5,6, 8				4,5,6 ,7	2,3,4 ,5,6			2,3,8	2,5,7			
Understand Plant and System Response	2,3,4 ,5,6				4,5,6	2,3,4 ,5,6			2,3,6 ,8	2,5,6 ,7			
Comply With and Use Procedures (1)	1,3,5 ,6,7				1,4,5 ,7	2,3,5 ,6			2,3,6 ,8	2,5,6 ,7			
Operate Control Boards (2)	N/A				1,4,5 ,6,7	N/A			1,2,3 ,6,8	5,6,7			
Communicate and Interact With the Crew	ALL				1,4,5 ,6,7	ALL			1,2,3 ,6,8	1,2,5 ,6,7			
Demonstrate Supervisory Ability (3)	ALL				N/A	ALL			N/A	N/A			
Comply With and Use Tech. Specs. (3)	3				N/A	2			N/A	N/A			
Notes: (1) Includes Technical Spe	cificatio	on com	nplianc	e for a	n 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.

110 200

Competencies Checklist

Form ES-301-6

CREW B	-	SRC)U-2	B		SRO	DI-2			RC)-2	
Competencies		SCEN				SCEN	IARIO		SCENARIO			
• • • • •	1 US	2	3	4	1 RO	2 US	3	4	1 PO	2 RO	3	4
Understand and Interpret Annunciators and Alarms	3,4,5 ,8				4,5,6	2,3,4 ,5			2,3,8	2,5		
Diagnose Events and Conditions	2,3,4 ,5,6, 8				4,5,6 ,7	2,3,4 ,5,6			2,3,8	2,5,7		
Understand Plant and System Response	2,3,4 ,5,6				4,5,6	2,3,4 ,5,6			2,3,6 ,8	2,5,6 ,7		
Comply With and Use Procedures (1)	1,3,5 ,6,7				1,4,5 ,7	2,3,5 ,6			2,3,6 ,8	2,5,6 ,7		
Operate Control Boards (2)	N/A				1,4,5 ,6,7	N/A			1,2,3 ,6,8	5,6,7		
Communicate and Interact With the Crew	ALL				1,4,5 ,6,7	ALL			1,2,3 ,6,8	1,2,5 ,6,7		
Demonstrate Supervisory Ability (3)	ALL				N/A	ALL			N/A	N/A		
Comply With and Use Tech. Specs. (3)	3				N/A	2			N/A	N/A		
Notes: (1) Includes Technical Spe (2) Optional for an SRO-U.	cificatio	on con	nplianc	e for a	ın RO.							

(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.

Competencies Checklist

Form ES-301-6

CREW C		SR	OI-3		SROI-4				RO-3				
Competencies		SCEN	IARIO		SCENARIO				SCENARIO				
	1 US	2	3 RO	4	1 RO	2 US	3	4	1 PO	2 RO	3	4	
Understand and Interpret Annunciators and Alarms	3,4,5 ,8		2,4		4,5,6	2,3,4 ,5			2,3,8	2,5			
Diagnose Events and Conditions	2,3,4 ,5,6, 8		2,4,6		4,5,6 ,7	2,3,4 ,5,6			2,3,8	2,5,7			
Understand Plant and System Response	2,3,4 ,5,6		2,4,6		4,5,6	2,3,4 ,5,6			2,3,6 ,8	2,5,6 ,7			
Comply With and Use Procedures (1)	1,3,5 ,6,7		1,2,4 ,5,6		1,4,5 ,7	2,3,5 ,6			2,3,6 ,8	2,5,6 ,7			
Operate Control Boards (2)	N/A		1,2,4 ,6		1,4,5 ,6,7	N/A			1,2,3 ,6,8	5,6,7			
Communicate and Interact With the Crew	ALL		1,2,4 ,5,6		1,4,5 ,6,7	ALL			1,2,3 ,6,8	1,2,5 ,6,7			
Demonstrate Supervisory Ability (3)	ALL		N/A		N/A	ALL			N/A	N/A			
Comply With and Use Tech. Specs. (3)	3		N/A		N/A	2			N/A	N/A			
Notes: (1) Includes Technical Spe	cificatio	on con	nplianc	e for a	n 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.

Competencies Checklist

Form ES-301-6

CREW D		R	04											
Competencies		SCENARIO			SCENARIO					SCENARIO				
	1 PO	2	3 RO	4	1	2	3	4	1	2	3	4		
Understand and Interpret Annunciators and Alarms	2,3,8		2,4											
Diagnose Events and Conditions	2,3,8		2,4,7											
Understand Plant and System Response	2,3,6 ,8		2,4,7											
Comply With and Use Procedures (1)	2,3,6 ,8		1,2,4 ,5,7											
Operate Control Boards (2)	1,2,3 ,6,8		1,2,4 ,7											
Communicate and Interact With the Crew	1,2,3 ,6,8		1,2,4 ,5,7											
Demonstrate Supervisory Ability (3)	N/A		N/A											
Comply With and Use Tech. Specs. (3)	N/A		N/A											
Notes:														
 (1) Includes Technical Specific (2) Optional for an SRO-U. (3) Only applicable to SRO 	cificatio s.	on com	pliance	e for a	n RO.									

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.

Written Examination t

Form ES-401-7

Qua	lity	Che	cklis

га	cility:	FENC	C BVPS-2	2 Date of Exam:	12/16/2	2002	Ex	am le	evel:	RO	3000 K 1910	
				Item Description			and a second			Initial B*	C#]
1.	Questio	ons and a	nswers technic	ally accurate and applicable	to the facility	<i>i</i>			m		TAI	
2.	NRC K Facility	/As refere learning (nced for all qu objectives refe	estions renced as available					m		H	
3.	RO/SR D.2.d o	O Overlar f ES-401	o is no more th	an 75%, and SRO questions	are appropr	iate per	Sectio	1	Tw	Ó	A/	
4.	Questic consist	on selectio ent with a		Tru	7	A	k					
5.	Questic below (• Th • Th • Th • Th • Of	on duplica check the ne audit ex ne audit ex ne examin ne license ther (expla	tion from the li item that appl xam was syste xam was comp hations were de e certifies that ain)	cense screening/audit exam ies and appears appropriate matically and randomly deve leted before the license exa veloped independently; or there is no duplication; or	was controll : :loped; or m was starte	ed as ind d; or	dicated		か	0	A.	le le
6.	Bank u	se meets	limits (no more	than 75% from the bank	Bank	Modifi	ed	New			-	
	and at l actual o	least 10 n question d	ew, and the realistribution at ri	st modified); enter the ght	31	12		57	17.0	0	5A1,	Ű
7.	Betwee	n 50 and	60 percent of t	he questions on the exam	Memo	ry	C/	A	-			
	(includi compre distribu	ng 10 nev hension/a tion on th	v questions) ar analysis level; e e right	e written at the enter the actual question	45		5	5	R	Qe	FAL,	k
8.	Referen	nces/hanc	louts do not giv	e away answers	1				Trad	\bigcirc	JA1	
9.	Questic examin justified	on content ation outli I	t conforms with ine and is appr	specific K/A statements in t opriate for the tier to which t	he previously ney are assig	/ approv gned; de	ed viation	s are	Tri	0	FA,	k
10.	Questic	n psycho	metric quality a	and format meet ES, Append	lix B, guidelii	nes			The	\mathcal{O}	FA	\downarrow
11.	The exa value o	am contai n cover sl	ns 100, one-po heet	int, multiple choice items; th	e total is con	rect and	agrees	s with	m	Q	FA	
				Printed	Name/Signa	ture				<u></u>	Date	1
a. A b. F	uthor acility Re	eviewer (*) <	1. Wooley/T.	Woold B. Acit	57			M	, <u>11-1</u> /2	8-02 /02	
c. C	hief Exa	miner (#)	_ É	P.H. BISSETT, J.LAUGHLIN/	Jan Jan	152 ylil	ps 2	U		1 /19 11-1	0 Z 8-02	
d. N	RC Reg	ional Sup	ervisor 	R.J. Center	1628	fa	7			<u>[2]</u> 1	2 /or	
Note	e: *	' The facil	ity reviewer's i	nitial/signature are not applic	able for NRC	C-develo	ped ex	aminat	ions			
									wirad			

Written Examination Quality Checklist

Form ES-401-7

Fa	cility:	FE	NOC BV	/PS-2	Date of	Exam:	12/16/20	02	Ex	am lev	el:	SRO)
		* • • • •			Item Descrip	tion						Initial	L 0#
1.	Ques	tions an	d answers t	technically	accurate and	l applicable	to the facility	1		·	n	$\widehat{\mathcal{A}}$	FR2
2.	NRC Facili	K/As ref ty learnii	erenced for ng objective	r all questi es referenc	ons ed as availat	ble					tru	0	SA
3.	RO/S D.2.d	RO Ove of ES-4	rlap is no n 01	nore than T	75%, and SR	O questions	s are appropr	iate pe	r Sec	tion	Tw		JA.
4.	Ques consi	tion sele stent wit	ction and d h a system	luplication atic sampl	from the last ing process	2 NRC lice	nsing exams	appea	rs to I	De	TW	Ď	5H
5.	Quest below	tion dup / (check The audi The audi The exar The licer Other (e)	lication from the item the it exam was it exam was minations w nsee certifie xplain)	n the licen at applies s systemat s complete vere develo es that the	se screening/ and appears a ically and ran d before the l oped indepen re is no duplic	audit exam appropriate domly deve icense exa dently; or ation; or	was controll : eloped; or m was starte	ed as i d; or	ndicat	ted	Tw	Ď	ID.
6.	Bank	use mee	ets limits (n	o more tha	in 75% from t	he bank	Bank	Mod	ified	New		{*	
	and a actua	t least 1 I questio	0 new, and n distributio	the rest m on at right	iodified); ente	r the	29	1:	3	58	TAN	\bigcirc	D
7.	Betwe	een 50 a	nd 60 perco	ent of the o	uestions on l	the exam	Memo	ry		C/A		C	
	compi distrib	rehension on	new question/analysis the right	ievel; ente	r the actual q	uestion	42			58	Tw		J.L
8.	Refer	ences/ha	andouts do	not give a	way answers						mas	\square	- A
9.	Quest exami justifie	tion cont ination o ed	ent conforn utline and i	ns with spo is appropri	ecific K/A stat ate for the tie	ements in t r to which ti	he previously hey are assig	/ appro ined; d	oved eviati	ons are	Tw	2	JA.
10.	Quest	tion psyc	chometric q	uality and	format meet I	ES, Append	lix B, guidelir	les			his	\bigcirc	ott
11.	The e value	xam cor on cove	tains 100, r sheet	one-point,	multiple choid	ce items; th	e total is con	ect an	d agre	ees with	Tris (2	ДŊ.
						Printed	Name/Signat	ure			.L		Date
a. A	uthor				T. Woo	iley/1	T. Was	4				11-	8-02
b. F	acility F	Reviewe	r (*)	S.	B,	D NB.	ALH S	Z		h	4	<u>.</u>	02
c. C	hief Ex	aminer (#)	27. F.J	1/7133 1. LAUGH	LIN	Hon 2	<u>y</u> y	h.	/	,	 -	12010 18-02
d. N	RC Re	gional S	upervisor	_R		tel	64	to	\sim			12/2	Nor
Note	e:	* The fa	acility review	wer's initia	l/signature are	e not applic	able for NRC	-devel	oped	examinat	ions	- <u>-</u>	
		# Indep	endent NR	C reviewe	r initial items i	in column 'c	c', Chief Exar	niner c	oncu	rrence red	quired		

Written Examination Grading Quality Checklist

Form ES-403-1 (R8, S1)

Facility: FENOC BVPS Unit 2 Date of Exam: 12/13/02 Examt	kam Lev	el: RO	/SRO
		Initials	5
Item Description	а	b	с
1. Clean answer sheets copied before grading	TW	Jar	FR B
2. Answer key changes and question deletions justified and documented	N/A	NR	NA
 Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations) 	h	Jor t	SA P
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	(m)	sp)r NIA	NA
 All other failing examinations checked to ensure that grades are justified 	N/A	MIA	NA FAL
 Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants 	The start	Jert	JA B
Printed Name / Signature		D	ate
a. Grader <u>T. Wooley/ M. Wa</u>		12/	26/02
b. Facility Reviewer(*)	7	12-	26-02
c. NRC Chief Examiner (*)	/ \	12-	-31-02
d. NRC Supervisor (*) <u>Richard J. Curte / D. Cu</u>	\bigwedge	1/17	103
(*) The facility reviewer's signature is not applicable for examination two independent NRC reviews are required.	s grade	d by the	e NRC;

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