Operating Test Review Worksheet

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Form ES-301-7

Facility: Hope Creek				Exam Date: August 12, 2019											
		2 LOD				3 Attributes	3			Job C		5 U/E/S	6 Explanation		
Admin JPMs	ADMIN Topic and K/A	(1-5)	I/C • Focus	Cues	Critical Steps	Scope (N/B)	Overlap	Perf. Std.	Key	Minutia	Job Link	- U/E/3			
SRO ADMIN A1 - Ensure The Operating Shift Is Adequately Manned	Conduct of Operations 2.1.5	2				-						E.	 Added that J. Smith is not qualified for another position to Initial Conditions. Added location for completed time to Initial Conditions. 		
SRO ADMIN A2 - Review All Operations Logs In Use During A Shift Including Computer Logs	Conduct of Operations 2.1.25	3										E	1. Corrected typographical errors in the Initial Conditions. 2. Added Note any discrepancies (if any) to Initiating Cue. 3. Modified Standard for Step 4.1 per NRC's recommendation.		
SRO ADMIN A3 - Complete an Action Statement Log Sheet	Equipment Control 2.2.23	2					-					E	1. Added Loop A to describe unsatisfactory test.		
SRO ADMIN A4 - Verify Compliance with Gaseous Release Permit	Radiation Control 2.3.6	3				~	, · ·	, r.		- n.		E	1.Added procedure andForm to provided procedures.2.Added to note anychanges if any to Initiating Cue.3.Changed one step to notcritical.		
SRO ADMIN A5 - Utilize The ECG To Determine The Emergency Classification And/Or Reportability Of An Event And/Or Plant Condition	Emergency Plan 2.4.38	3									:	Ê	 Corrected difference between Examiner and Operator's Initial Conditions. Added reference procedures provided to Operator at the beginning of the JPM. 		
RO ADMIN A1 - Complete The Daily Surveillance Logs	Conduct of Operations 2.1.19	2										E	Added Noun Name to CRIDS point.		
RO ADMIN A2 - Perform A Shift Turnover As On- Coming/Off-Going NCO	Conduct of Operations 2.1.18	3										S			
RO ADMIN A3 - Perform Actions to Achieve Criticality and Raise Power to the Point of Adding Heat	Equipment Control 2.2.2	3								- ·		E	 Revised/added the following to the Initial Conditions: Another operator is responsible for making entries into the Control Room Narrative Log. Stated that step 4.2.1 has just been completed. 		

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25-301			Ope	eratini	y iesti	/eview	WUIK5	lleel	_				
													All conditions are satisfactory for completing step 4.2.2. Inserted Reactor Engineering Guidance for rod selection and movement. Modified Standards to reflect removal of 4.2.1 and insert of RE Guidance. Corrected typographica error 4.2.6.2.
RO ADMIN A4 - Purge The Containment	Radiation Control 2.3.11	3										E	1. Removed not-applicable dates and times. 2. Recalculated time. 3.
										-			
								,					
Simulator/In-Plant JPMs	1 Safety Function and K/A												
SIM JPM A - Synchronize and _oad the Main Generator/Respond To A Furbine Generator Malfunction	6 - Electrical 262001 A4.04	3								1		s	
SIM JPM B - Reduce Torus Level Using RCIC System	4 - Heat Removal from the Core 295029 EA1.04	3									:	E	1. Modified Standard for 5.1.7.
SIM JPM C -Transfer TACS To The Standby SACs Loop	8 - Plant Service Systems 400000 A4.01	4							2.	;		s	~
GIM JPM D - Manually Start ne Core Spray System	2 - Reactor Water Inventory Control 209001 A4.01	3										s	
SIM JPM E - Exercise A Control Rod	1 - Reactivity Control 201003 A2.06	3										E	1. Change 5.12.1 to not critical. 2. Modified Standard for 5

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SIM JPM F - Operate The PCIG System During Post LOCA/Isolation Conditions	5 - Containment Integrity 223001 A4.11	3						s	
SIM JPM G - Respond To A Recirculation Pump Malfunction	7 - Instrumentation 295001 AA1.06	3						s	
SIM JPM H - Perform a Cooldown Using Bypass Valves	3 - Reactor Pressure Control 241000 A4.02	2						E	 Added that plant has been stable for the last two hours to the Initial Conditions. Revised Initiating Cue to specific temperature. Revised Standard for the associated procedure Step.
IN-PLANT JPM I - Respond To A SACS Malfunction	8 - Plant Service Systems 400000 A2.01	3						s	
IN-PLANT JPM J - Remove A 120 VAC Electrical Distribution System From Service	6 - Electrical 2.1.30	3						S	
IN-PLANT JPM K - Vent To Control Containment Pressure With Suppression Pool Level Less Than 180 Inches	5 - Containment Integrity 295024 EA1.19	3						S	
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haalu	or mark any item(s) requiring a comment and explain the issue in the space provided using the guide below.
песк (1.	Check each JPM for appropriate administrative topic requirements (COO, EC, Rad, and EP) or safety function requirements and corresponding K/A. Mark in column 1. (ES-301, D.3 and D.4)
2.	Determine the level of difficulty (LOD) using an established 1–5 rating scale. Levels 1 and 5 represent an inappropriate (low or high) discriminatory level for the license that is being tested. Mark in column 2 (Appendix D, C.1.f)
3.	In column 3, "Attributes," check the appropriate box when an attribute is not met:
	The initial conditions and/or initiating cue is clear to ensure the operator understands the task and how to begin. (Appendix C, B.4)
	The JPM contains appropriate cues that clearly indicate when they should be provided to the examinee. Cues are objective and not leading. (Appendix C, D.1)
	□ All critical steps (elements) are properly identified.
	□ The scope of the task is not too narrow (N) or too broad (B).
·	 Excessive overlap does not occur with other parts of the operating test or written examination. (ES-301, D.1.a, and ES-301, D.2.a) The task performance standard clearly describes the expected outcome (i.e., end state). Each performance step identifies a standard for successful completion of the step.
	A valid marked up key was provided (e.g., graph interpretation, initialed steps for handouts).
4.	For column 4, "Job Content," check the appropriate box if the job content flaw does not meet the following elements:
	Topics are linked to the job content (e.g., not a disguised task, task required in real job).
	The JPM has meaningful performance requirements that will provide a legitimate basis for evaluating the applicant's understanding and ability to safely operate the plant. (ES-301, D.2.c)
5.	Based on the reviewer's judgment, is the JPM as written (U)nacceptable (requiring repair or replacement), in need of (E)nhancement, or (S)atisfactory? Mark the answer in column 5.
6.	In column 6, provide a brief description of any (U)nacceptable or (E)nhancement rating from column 5.
ovo ir	itial review comments and detail subsequent comment resolution so that each exam-bound JPM is marked by a (S)atisfactory resolution on this form.

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Facility:	Hope Creek	(Scenar	io:	1		Exam Date: 8/12/2019
1	2	3	4	5	6	7	8	9	10 .
Event	Realism/Cred.	Required Actions	Verifiable actions	LOD	TS	CTs	Scen. Overlap	U/E/S	Explanation
1						-		S	
2								S	
3					Х			S	
4								S	
_ 5					Х			S	
6							•	S	
7						Х		S	
8						Х		S	
8		· · · ·			2	2	5	, E	

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Facility:	Hope Creek		Scena	rio:	2		Exam	Date: 8/	12/2019
1	2	3	4	5	6	7	8	9	10
Event	Realism/Cred.	Required Actions	Verifiable actions	LOD	TS	CTs	Scen. Overlap	U/E/S	Explanation
. 1		,						S	
2								S	
3					Х			S	
4					Х		X	S	Loss of 10D420 2018 Scenario 1
5								S	
6						Х	X	S	Loss of offsite power with EDG fail to autostart 2018 scenario 3
7						Х	X	S	HPCI steam leak 2018 scenario 2
8								S	
									·
									· · ·
									· · · · · · · · · · · · · · · · · · ·
						-			· · · · · · · · · · · · · · · · · · ·
transfer to the second			5.A						

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Facility:	Hope Creek		Scena	ario:	3		Exam	Date: <u>8</u> /	12/2019
1	2	3	4	5	6	7	8.	9	10
Event	Realism/Cred.	Required Actions	Verifiable actions	LOD	TS	CTs	Scen. Overlap	U/E/S	Explanation
1								S	
2					Х			S	
3			-		Х			S	
4						Х		S	
5							_	S	
6								S	
7								S	
8								S	· · · · · · · · · · · · · · · · · · ·
9						X	X	S	Drywell spray valve failure, 2018 scenario 1
									· · · · · · · · · · · · · · · · · · ·

Form ES-301-7

Instructions for Completing This Table: Use this table for each scenario for evaluation. 2 Check this box if the events are not related (e.g., seismic event followed by a pipe rupture) **OR** if the events do not obey the laws of physics and thermodynamics. 3.4 In columns 3 and 4, check the box if there is no verifiable or required action, as applicable. Examples of required actions are as follows: (ES-301, D.5f) opening, closing, and throttling valves starting and stopping equipment raising and lowering level, flow, and pressure making decisions and giving directions acknowledging or verifying key alarms and automatic actions (Uncomplicated events that require no operator action beyond this should not be included on the operating test unless they are necessary to set the stage for subsequent events. (Appendix D, B.3).) 5 Check this box if the level of difficulty is not appropriate. 6 Check this box if the event has a TS. Check this box if the event has a critical task (CT). If the same CT covers more than one event, check the event where the CT started only. 7 8 Check this box if the event overlaps with another event on any of the last two NRC examinations. (Appendix D, C.1.f) Based on the reviewer's judgment, is the event as written (U)nacceptable (requiring repair or replacement), in need of (E)nhancement, or (S)atisfactory? Mark the answer 9 in column 9. Record any explanations of the events here. 10 In the shaded boxes, sum the number of check marks in each column. In column 1, sum the number of events. In columns 2-4, record the total number of check marks for each column. In column 5, based on the reviewer's judgement, place a checkmark only if the scenario's LOD is not appropriate. In column 6, TS are required to be ≥ 2 for each scenario. (ES-301, D.5.d) In column 7, preidentified CTs should be ≥ 2 for each scenario. (Appendix D; ES-301, D.5.d; ES-301-4) In column 8, record the number of events not used on the two previous NRC initial licensing exams. A scenario is considered unsatisfactory if there is < 2 new events. (ES-301, D.5.b; Appendix D, C.1.f) In column 9, record whether the scenario as written (U)nacceptable, in need of (E)nhancement, or (S)atisfactory from column 11 of the simulator scenario table.

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Facility:	Норе	Creek					· ·		Exam D	Pate: August 12, 2019
		1'	2	3	4	5	6	7	8	11
Scena	ario	Event Totals	Events Unsat.	TS Total	TS Unsat.	CT Total	CT Unsat.	% Unsat. Scenario Elements	U/E/S	Explanation
1		8	0	2	0	2	0	0	S	D-1s do not list any TS events, and do not list which operator is credited for the action.
2		8	0	2	0	2	0	0	S	
3		8	0	2	0	2	0	0	S	
						•				
2, 4, 6 F	a.	<u>Events</u> . betwee unsatist	Each eve n at-the-co factory eve	nt is desc ntrols and nts in col	cribed on d balance umn 2.	a Form -of-plar	ES-D-2, nt applica	including al ants during th	l switch m ne scenari	nhance, or (U)nsatisfactory based on the following criteria: anipulations, pertinent alarms, and verifiable actions. Event actions are balanced io. All event-related attributes on Form ES-301-4 are met. Enter the total number of
	b.							ons across a in column 4		o different events. TS entries and actions are detailed on Form ES-D-2. Enter
		that eac column	ch CT is ex 6.	plicitly bo	unded or	n Form	ES-D-2 v	vith measura	able perfo	iterion is a target quantitative attribute, not an absolute minimum requirement. Check rmance standards (see Appendix D). Enter the total number of unsatisfactory CTs in
7 1	n colum	n 7, calc	ulate the p	ercentage	e of unsat	tisfacto	ry scena	rio elements	$\left(\frac{2+4}{1+3}\right)$	$\frac{+6}{+5}$ 100%
				-						. If column 7 is \leq 20%, annotate with (E)nhancement or (S)atisfactory.
		-								n also be added here.
Save initia	al review	comme	nts and de	tail subse	equent co	mment	resolutio	n so that ea	ch exam-l	bound scenario is marked by a (S)atisfactory resolution on this form.

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Site name:						Exam Date:						
			OF	PERATING	TEST TOT	ALS						
	Total	Total Unsat.	Total Edits	Total Sat.	% Unsat.	Explanation						
Admin. JPMs	9	0	8 9 Edits were editorial in natu									
Sim./In-Plant JPMs	11	11 0 3 11 Edits were editorial in nature										
Scenarios	4 0 4 4 Edits were editorial in nature											
Op. Test Totals:	24 0 14 24 0											
Update data fo	nine administrative JPMs were submitted, enter "9" in the "Total" items column for administrative JPMs. For scenarios, enter the total number of simulator scenarios.											
3.		ls for (E)nha his task is fo			d (S)atisfac	tory JPMs and scenarios from the previous						
4.	Total each	n column ar	nd enter the	amounts i	n the "Op. T	est Totals" row.						
5.						J)nsatisfactory (Op. Test Total Unsat.)/(Op. Test II.						
6.	 Total) and place this value in the bolded "% Unsat." cell. Refer to ES-501, E.3.a, to rate the overall operating test as follows: satisfactory, if the "Op. Test Total" "% Unsat." is ≤ 20% unsatisfactory, if "Op. Test Total" "% Unsat." is > 20% 6. Update this table and the tables above with post-exam changes if the "as-administered" operating test required content changes, including the following: The JPM performance standards were incorrect. The administrative JPM tasks/keys were incorrect. CTs were incorrect in the scenarios (not including postscenario critical tasks defined in 											
	• The		egy was in		scenario(s) to be incorre). ect in a scenario(s).						