

UPDATED CHECKLISTS AND FORMS

FOR THE DRESDEN INITIAL EXAMINATION

MARCH 2009

Facility: <u>Dresden</u>		Date of Examination: <u>03/03/09</u>
Examination Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>		Operating Test Number: <u>2009-301</u>
Administrative Topic (See Note)	Type Code*	Describe activity to be performed
Conduct of Operations	D, P, S	Reactivation of an SRO License Generic.2.1.4
Conduct of Operations	D, R	Authorize Overtime IAW G 82-12 Guidelines Generic.2.1.5
Equipment Control	D, S	Review Calculated Drywell Leakrate Generic.2.2.12
Radiation Control	M, R	Select Personnel for Radiation Work Generic.2.3.4
Emergency Plan	N, S	Determine Emergency Classification Generic.2.4.38
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.		
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1 ; randomly selected)		

Facility: Dresden

Date of Examination: 03/03/09

Exam Level: RO SRO-I SRO-U

Operating Test Number: 2009-301

Control Room Systems[@] (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)

System / JPM Title	Type Code*	Safety Function
a. RECIRC – STARTUP OF SECOND PUMP WITH FAILURE OF DISCHARGE VALVE TO OPEN	A, D, L, S	1
b. FW – PLACE A FRV IN SERVICE IN AUTO DURING UNIT STARTUP	D, L, S	2
c. DEHC – TURBINE BYPASS VALVE UTILIZATION	N, L, S	3
d. ISO CONDENSER - STARTUP THE ISOLATION CONDENSER WITH A FAILURE OF THE MAKEUP SYSTEM	A, N, S	4
e. GROUP 3 ISOLATION – INCOMPLETE	A, M, L, S	5
f. AUX POWER – TRANSFER TO TR-22 FROM TR-21	D, S	6
g. TIPS – DRIVE TIP DETECTOR TO THE ISOLATION TEST POSITION	D, P, S	7
h. SBGT – POST MAINTENANCE TESTING WITH AUTO INITIATION	A, D, P, S	9

In-Plant Systems[@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)

i. CRD – CROSSTIE FOR ALTERNATE INJECTION	D, E, R	1
j. MSIV – LOCALLY CLOSE	D, R	4
k. DC – SWAP BATTERY CHARGERS	N, R	6

[@] All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.

* Type Codes	Criteria for RO / SRO-I / SRO-U
(A)lternate path	4-6 / 4-6 / 2-3
(C)ontrol room	
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1
(EN)gineered safety feature	- / - / ≥ 1 (control room system)
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1
(P)revious 2 exams	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)
(R)CA	≥ 1 / ≥ 1 / ≥ 1
(S)imulator	

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Control Room Systems [®] (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)		
System / JPM Title	Type Code*	Safety Function
a. RECIRC – STARTUP OF SECOND PUMP WITH FAILURE OF DISCHARGE VALVE TO OPEN	A, D, L, S	1
b. FW – PLACE A FRV IN SERVICE IN AUTO DURING UNIT STARTUP	D, L, S	2
c. DEHC – TURBINE BYPASS VALVE UTILIZATION	N, L, S	3
d. ISO CONDENSER - STARTUP THE ISOLATION CONDENSER WITH A FAILURE OF THE MAKEUP SYSTEM	A, N, S	4
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k. DC – SWAP BATTERY CHARGERS	N, R	6
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(R)CA	≥ 1 / ≥ 1 / ≥ 1	
(S)imulator		

ES-301 Transient and Event Checklist Form ES-301-5

Facility: Dresden			Date of Exam: 3/9/09			Operating Test Number: 2009-301											
APPLICANT	EVENT TYPE	Scenarios												TOTAL	MINIMUM(*)		
		1			2			3			4						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
SRO-1 SRO#1 <input checked="" type="checkbox"/>	RX				1								1	1	1	0	
	NOR	1			5								2	1	1	1	
	I/C	2, 3, 4, 5, 6			2, 3, 4, 6, 7				3, 4, 5				13	4	4	2	
	MAJ	7, 8			8				6, 7				5	2	2	1	
	TS	2, 4			2, 4								4	0	2	2	
SRO-1 SRO#2 SRO#3 <input checked="" type="checkbox"/>	RX				1								1	1	1	0	
	NOR	1											1	1	1	1	
	I/C	2, 3, 4, 5, 6			3, 4, 7								8	4	4	2	
	MAJ	7, 8			8								3	2	2	1	
	TS	2, 4											2	0	2	2	
RO RO#1 RO#2 RO#3 <input checked="" type="checkbox"/>	RX													1	1	0	
	NOR						5						1	1	1	1	
	I/C		2, 3, 5				2, 6						5	4	4	2	
	MAJ		7, 8				8						3	2	2	1	
	TS													0	2	2	
RO RO#4 <input checked="" type="checkbox"/>	RX				1								1	1	1	0	
	NOR			1									1	1	1	1	
	I/C			4, 6		3, 4, 7			1, 4				7	4	4	2	
	MAJ			7, 8		8			6, 7				5	2	2	1	
	TS													0	2	2	
Instructions:																	
<ol style="list-style-type: none"> Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position. Reactivity manipulations may be conducted under normal or <i>controlled</i> 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 1-for-1 basis. 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 requirements specified for the applicant's license level in the right-hand columns. 																	

Facility: Dresden		Date of Examination: 3/3/09				Operating Test No.: 2009-301										
Competencies	APPLICANTS															
	SRO-I <input checked="" type="checkbox"/> SRO#1				SRO-I <input checked="" type="checkbox"/> SRO#2, #3				RO <input checked="" type="checkbox"/> RO#1, #2, #3				RO <input checked="" type="checkbox"/> RO#4			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/ Diagnose Events and Conditions	1-8	1-8	2, 3, 5, 6, 7		1-8	1, 3, 4, 7, 8			2, 3, 5, 7, 8	2, 5, 6, 7, 8			1, 4, 6, 7, 8	1, 3, 4, 7, 8	1, 4, 6, 7	
Comply With and Use Procedures (1)	1-8	1-8	2, 3, 5, 6, 7		1-8	1, 3, 4, 7, 8			2, 3, 5, 7, 8	2, 5, 6, 7, 8			1, 4, 6, 7, 8	1, 3, 4, 7, 8	1, 4, 6, 7	
Operate Control Boards (2)			2, 3, 5, 6, 7			1, 3, 4, 7, 8			2, 3, 5, 7, 8	2, 5, 6, 7, 8			1, 4, 6, 7, 8	1, 3, 4, 7, 8	1, 4, 6, 7	
Communicate and Interact	1-8	1-8	1-7		1-8	1-8			1-8	1-8			1-8	1-8	1-7	
Demonstrate Supervisory Ability (3)	1-8	1-8			1-8											
Comply With and Use Tech Specs. (3)	2, 4	2, 4	2, 4		2, 4	2, 4			2, 4	2, 4			2, 4	2, 4	2, 4	
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																

Instructions:

Check 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.