

Facility: Duane Arnold Energy Center			Date of Exam: June 2017			Operating Test No.: 17-1											
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		1			2			3			ALT						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SRO-I X	RX					2								1	1	1	0
	NOR					1			2					2	1	1	1
	I/C			5,6,10		3,9			3,4					5	4	4	2
	MAJ			7,8,9		6,8			5,8,9					7	2	2	1
	TS								3,4					2	0	2	2
SRO-I X	RX		2											1	1	1	0
	NOR		1		2						1			3	1	1	1
	I/C		3,4		3,4,5						3,6,8			8	4	4	2
	MAJ		7,8,9		6,8						5,7,9			8	2	2	1
	TS				4,5									2	0	2	2
SRO-I X	RX								2					1	1	1	0
	NOR	2												1	1	1	1
	I/C	5,6				4,5,7			4					6	4	4	2
	MAJ	7,8,9				6,8			5,7,9					8	2	2	1
	TS	5,6												2	0	2	2

Instructions:

- 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 (SRO-I) 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 SRO-I *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 *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.
- 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.
- For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

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		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION							
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U	
RO X	RX					2								1	1	1	0	
	NOR					1						1			2	1	1	1
	I/C			5,6,10		3,9						3,6,8			8	4	4	2
	MAJ			7,8,9		6,8						5,7,9			8	2	2	1
	TS														0	0	2	2
SRO-I X	RX		2												1	1	1	0
	NOR		1		2				2						3	1	1	1
	I/C		3,4		3,4,5				3,4						7	4	4	2
	MAJ		7,8,9		6,8				5,8,9						8	2	2	1
	TS				4,5				3,4						4	0	2	2
SRO-I X	RX								2						1	1	1	0
	NOR	2													1	1	1	1
	I/C	5,6					4,5,7		4						6	4	4	2
	MAJ	7,8,9					6,8		5,7,9						8	2	2	1
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RO X	RX					2								1	1	1	0
	NOR					1								1	1	1	1
	I/C			5,6,10		3,9								5	4	4	2
	MAJ			7,8,9		6,8								5	2	2	1
	TS													0	0	2	2
SRO-I X	RX		2											1	1	1	0
	NOR		1		2									2	1	1	1
	I/C		3,4		3,4,5									5	4	4	2
	MAJ		7,8,9		6,8									5	2	2	1
	TS				4,5									2	0	2	2
SRO-U X	RX													0	1	1	0
	NOR	2												1	1	1	1
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