

Facility: Quad Cities Date of Exam: 3/16/2020 Operating Test No.: ILT 18-1

A P P L I C A N T	E V E N T T Y P E	Scenarios (Red Crew)												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		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 <input type="checkbox"/>	RX								4								1
SRO-I(3) <input type="checkbox"/>	NOR	1					1							2	1	1	1
<input checked="" type="checkbox"/>	I/C	2,4,5 6					6,7		3,5					8	4	4	2
SRO-U <input type="checkbox"/>	MAJ	7					8		7,9					4	2	2	1
	TS	3,6												2	0	2	2
RO <input type="checkbox"/>	RX		3											1	1	1	0
SRO-I(4) <input type="checkbox"/>	NOR				1			1						2	1	1	1
<input checked="" type="checkbox"/>	I/C		4,5		3,5,6 7,9			3,5,6 8						11	4	4	2
SRO-U <input type="checkbox"/>	MAJ		7		8			7,9						4	2	2	1
	TS				3,4			2,5						4	0	2	2
RO(2) <input checked="" type="checkbox"/>	RX					2								1	1	1	0
SRO-I <input type="checkbox"/>	NOR			1					1					2	1	1	1
SRO-U <input type="checkbox"/>	I/C		2,6		3,5			6,8						6	4	4	2
	MAJ		7		8			7,9						4	2	2	1
	TS													0	0	2	2
RO <input type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	I/C														4	4	2
	MAJ														2	2	1
	TS														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 I/C 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 new reactor facility 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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A P P L I C A N T	E V E N T T Y P E	Scenarios (Blue Crew)												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		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				
RO <input type="checkbox"/> SRO-I(5) <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RX							4						1	1	1	0
	NOR	1			1									2	1	1	1
	I/C	2,4,5 6			3,5,6 7,9			3,5						11	4	4	2
	MAJ	7			8			7, 9						4	2	2	1
	TS	3,6			3,4									4	0	2	2
RO <input type="checkbox"/> SRO-I(6) <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RX					2								1	1	1	0
	NOR							1			1			2	1	1	1
	I/C				3,5			3,5,6 8			3,5,6 8, 9			11	4	4	2
	MAJ				8			7, 9			7			4	2	2	1
	TS							2,5			2,5			4	0	2	2
RO(3) <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX		4											1	1	1	0
	NOR					1						1		2	1	1	1
	I/C		4,5			6,7						5,6, 9		7	4	4	2
	MAJ		7			8						7		3	2	2	1
	TS													0	0	2	2
RO(4) <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX											4		1	1	1	0
	NOR			1						1				2	1	1	1
	I/C			2,6						6,8		3,8		6	4	4	2
	MAJ			7						7, 9		7		4	2	2	1
	TS													0	0	2	2

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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 I/C 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 requirements specified for the applicant's license level in the right-hand columns.
4. For new reactor facility 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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A P P L I C A N T	E V E N T T Y P E	Scenarios (Green Crew)												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		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 <input type="checkbox"/>	RX					2								1	1	1	0
SRO-I(1) <input type="checkbox"/>	NOR	1								1				2	1	1	1
<input checked="" type="checkbox"/>	I/C	2,4,5 6				3,5				6,8				8	4	4	2
SRO-U <input type="checkbox"/>	MAJ	7				8				7,9				4	2	2	1
	TS	3,6												2	0	2	2
RO <input type="checkbox"/>	RX		3											1	1	1	0
SRO-I(2) <input type="checkbox"/>	NOR					1			1					2	1	1	1
<input checked="" type="checkbox"/>	I/C		4,5			3,5,6 7,9			3,5,6 8					11	4	4	2
SRO-U <input type="checkbox"/>	MAJ		7			8			7,9					4	2	2	1
	TS					3,4			2,5					4	0	2	2
RO(1) <input checked="" type="checkbox"/>	RX								4					1	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			2,6			6,7		3,5					6	4	4	2
	MAJ			7			8		7,9					4	2	2	1
	TS													0	0	2	2
RO <input type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

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