

Facility: Quad Cities			Date of Exam: July 2018			Operating Test No.: 2018-301											
A P P L I C A N T	E V E N T  T Y P E	Crew 1 Scenarios												T O T A L	M I N I M U M(*)		
		1			2			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				
RO <input type="checkbox"/>	RX	6				2								2	1	1	0
SRO-I-1 <input type="checkbox"/>	NOR	1							1					2	1	1	1
SRO-U <input type="checkbox"/>	I/C	2,4,5,7				3, 5			2, 3, 4					9	4	4	2
	MAJ	8				7			5					3	2	2	1
	TS	3, 4							2, 3					4	0	2	2
RO <input type="checkbox"/>	RX		6		2									2	1	1	0
SRO-I-2 <input type="checkbox"/>	NOR				1					1				2	1	1	1
SRO-U <input type="checkbox"/>	I/C		5		3, 4, 5, 6					3				6	4	4	2
	MAJ		8		7					5				3	2	2	1
	TS				3, 5									2	0	2	2
RO-1 <input type="checkbox"/>	RX													Note 2	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			2, 4, 7			4, 6		2, 4					7	4	4	2
	MAJ			8			7		5					3	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.

Facility: Quad Cities			Date of Exam: July 2018			Operating Test No.: 2018-301											
A P P L I C A N T	E V E N T  T Y P E	Crew 2 Scenarios												T O T A L	M I N I M U M (*)		
		1			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	6				5								2	1	1	0
SRO-I-3 <input type="checkbox"/>	NOR	1							1					2	1	1	1
SRO-U <input type="checkbox"/>	I/C	2,4,5,7				2, 4			2, 3, 4					9	4	4	2
	MAJ	8				6			5					3	2	2	1
	TS	3, 4							2, 3					4	0	2	2
RO <input type="checkbox"/>	RX		6			5								2	1	1	0
SRO-I-4 <input type="checkbox"/>	NOR					1					1			2	1	1	1
SRO-U <input type="checkbox"/>	I/C		5			2, 3, 4					3			5	4	4	2
	MAJ		8			6					5			3	2	2	1
	TS					4, 5								2	0	2	2
RO-2 <input type="checkbox"/>	RX													Note 2	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			2, 4, 7			3, 4		2, 4					7	4	4	2
	MAJ			8			6		5					3	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:

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- 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.

Facility: Quad Cities			Date of Exam: July 2018			Operating Test No.: 2018-301											
A P P L I C A N T	E V E N T  T Y P E	Crew 3 Scenarios												T O T A L	M I N I M U M (*)		
		1			3			5									
		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				
RO <input type="checkbox"/>	RX	6				5								2	1	1	0
SRO-I-5 <input type="checkbox"/>	NOR	1							1					2	1	1	1
SRO-U <input type="checkbox"/>	I/C	2,4,5,7				2, 4			2,3,4,5					10	4	4	2
	MAJ	8				6			6					3	2	2	1
	TS	3, 4							4,5					4	0	2	2
RO <input type="checkbox"/>	RX		6			5								2	1	1	0
SRO-I-6 <input type="checkbox"/>	NOR					1				1				2	1	1	1
SRO-U <input type="checkbox"/>	I/C		5			2, 3, 4				2, 4, 5				7	4	4	2
	MAJ		8			6				6				3	2	2	1
	TS					4, 5								2	0	2	2
RO-3 <input type="checkbox"/>	RX													Note 2	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			2, 4, 7			3, 4		3, 4					7	4	4	2
	MAJ			8			6		6					3	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:

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- 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.
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Facility: Quad Cities			Date of Exam: July 2018			Operating Test No.: 2018-301											
A P P L I C A N T	E V E N T  T Y P E	Crew 4 Scenarios												T O T A L	M I N I M U M (*)		
		2			3			5									
		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				
RO <input type="checkbox"/>	RX	2				5								2	1	1	0
SRO-I-7 <input type="checkbox"/>	NOR	1							1					2	1	1	1
SRO-U <input type="checkbox"/>	I/C	3,4,5,6				2, 4			2,3,4,5					10	4	4	2
	MAJ	7				6			6					3	2	2	1
	TS	3, 5							4,5					4	0	2	2
RO <input type="checkbox"/>	RX		2			5								2	1	1	0
SRO-I-8 <input type="checkbox"/>	NOR					1					1			2	1	1	1
SRO-U <input type="checkbox"/>	I/C		3,5			2, 3, 4					2, 4, 5			8	4	4	2
	MAJ		7			6					6			3	2	2	1
	TS					4, 5								2	0	2	2
RO-4 <input type="checkbox"/>	RX													Note 2	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			4,6			3, 4		3, 4					6	4	4	2
	MAJ			7			6		6					3	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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A P P L I C A N T	E V E N T  T Y P E	Crew 5 Scenarios												T O T A L	M I N I M U M (*)		
		2			4			5									
		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-9 <input type="checkbox"/>	NOR	1						1						2	1	1	1
SRO-U <input type="checkbox"/>	I/C	3,4,5,6				2, 4		2,3,4,5						10	4	4	2
	MAJ	7				5		6						3	2	2	1
	TS	3,5						2, 4, 5						5	0	2	2
RO-5 <input type="checkbox"/>	RX													Note 2	1	1	0
SRO-I <input type="checkbox"/>	NOR			1			1							2	1	1	1
SRO-U <input type="checkbox"/>	I/C			4,6			3		3, 4					5	4	4	2
	MAJ			7			5		6					3	2	2	1
	TS													0	0	2	2
RO-6 <input type="checkbox"/>	RX		2											1	1	1	0
SRO-I <input type="checkbox"/>	NOR								1					1	1	1	1
SRO-U <input type="checkbox"/>	I/C		3,5						2, 4, 5					5	4	4	2
	MAJ		7						6					2	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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