

Facility: Byron (Crew A)		Date of Exam: 12/04/17									Operating Test No.: 2017-301						
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			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"/> SRO-I <input type="checkbox"/> I-1 SRO-U <input type="checkbox"/>	RX	1			2		4						3	1	1	0	
	NOR						1						1	1	1	1	
	I/C	2,3,4 ,5,6			5,7		2,6,7 ,8,9						12	4	4	2	
	MAJ	7			8		10						3	2	2	1	
	TS	2,6					3,5,6						5	0	2	2	
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> I-2 SRO-U <input type="checkbox"/>	RX		1		2								2	1	1	0	
	NOR				1				1,4				3	1	1	1	
	I/C		2,4		4,5,6 ,7				6,8,9				9	4	4	2	
	MAJ		7		8				10				3	2	2	1	
	TS				3,5								2	0	2	2	
RO <input type="checkbox"/> R-1 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			3,5, 6,		4,6		2,7					7	4	4	2	
	MAJ			7		8		10					3	2	2	1	
	TS												0	0	2	2	
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX													1	1	0	
	NOR													1	1	1	
	I/C													4	4	2	
	MAJ													2	2	1	
	TS													0	2	2	

## Instructions:

1. 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.
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.

Facility: Byron (Crew B)		Date of Exam: 12/04/17			Operating Test No.: 2017-301													
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			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				
U-1	R-2	R-3				U-1	R-2	R-3								R	I	U
<input type="checkbox"/> RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/> U-1	RX	1					4							2	1	1	0	
	NOR						1							1	1	1	1	
	I/C	2,3,4,5,6					2,6,7,8,9							10	4	4	2	
	MAJ	7					10							2	2	2	1	
	TS	2,6					3,5,6							5	0	2	2	
<input type="checkbox"/> RO <input type="checkbox"/> R-2 <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX		1											1	1	1	0	
	NOR							1,4						2	1	1	1	
	I/C		2,4					6,8,9						5	4	4	2	
	MAJ		7					10						2	2	2	1	
	TS													0	0	2	2	
<input type="checkbox"/> RO <input type="checkbox"/> R-3 <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX						4							1	1	1	0	
	NOR			1										1	1	1	1	
	I/C			3,5,6,			2,7							5	4	4	2	
	MAJ			7			10							2	2	2	1	
	TS													0	0	2	2	
<input type="checkbox"/> RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0	
	NOR														1	1	1	
	I/C														4	4	2	
	MAJ														2	2	1	
	TS														0	2	2	

## Instructions:

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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.
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Facility: Byron (Crew C)			Date of Exam: 12/04/17			Operating Test No.: 2017-301											
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			4						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O  I-3	A T C  R-4	B O P  Surr	S R O	A T C	B O P	S R O  Surr	A T C  I-3	B O P  R-4		R	I	U
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> I-3 SRO-U <input type="checkbox"/>	RX				2							7		2	1	1	0
	NOR				1									1	1	1	1
	I/C				4,5,6 ,7							2,5,9		7	4	4	2
	MAJ				8							8		2	2	2	1
	TS				3,5									2	0	2	2
RO <input type="checkbox"/> R-4 SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX					2								1	1	1	0
	NOR												1,7	2	1	1	1
	I/C					5,7							3,6, 10	5	4	4	2
	MAJ					8							8	2	2	2	1
	TS													0	0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX										7			NA	1	1	0
	NOR						1				1			NA	1	1	1
	I/C						4,6						2,3,5 ,6	NA	4	4	2
	MAJ						8						8	NA	2	2	1
	TS												4	NA	0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

## Instructions:

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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			4						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O  I-4	A T C  I-5	B O P  R-5	S R O  I-5	A T C  I-4	B O P  R-5	S R O	A T C	B O P	S R O  I-4	A T C  R-5	B O P  I-5				
												R	I	U			
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> I-4 SRO-U <input type="checkbox"/>	RX	1			2				7			3	1	1	0		
	NOR								1			1	1	1	1		
	I/C	2,3,4 ,5,6			5,7				2,3,5 ,6			11	4	4	2		
	MAJ	7			8				8			3	2	2	1		
	TS	2,6							4			3	0	2	2		
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> I-5 SRO-U <input type="checkbox"/>	RX		1		2							2	1	1	0		
	NOR				1						1,7	3	1	1	1		
	I/C		2,4		4,5,6 ,7						3,6, 10	9	4	4	2		
	MAJ		7		8						8	3	2	2	1		
	TS				3,5							2	0	2	2		
RO <input type="checkbox"/> R-5 SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX									7		1	1	1	0		
	NOR			1		1						2	1	1	1		
	I/C			3,5, 6,		4,6				2,5,9		8	4	4	2		
	MAJ			7		8				8		3	2	2	1		
	TS												0	2	2		
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX												1	1	0		
	NOR												1	1	1		
	I/C												4	4	2		
	MAJ												2	2	1		
	TS												0	2	2		

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