# Final Submittal (Blue Paper)

## MCGUIRE OCTOBER 2003 EXAM 50-369 & 50-370/2003-302

**OCTOBER 21, 2003** 

FINAL OUTLINES AND
REJECTED KAS

Facility: M <sup>6</sup>	Guire			Ξ	ate	of l	Exai	m: (	<u> </u>	- Z	21,	24	70 <i>3</i>	E	xam	Leve	l:	
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Tier	Group	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	<del>Point</del> Total	K	А	A 2	G *	Total
1.	1												<del>24</del> 18			7		7
Emergency &	2												<del>16</del> 9			4	1	5
Abnormal Plant	3												Э 🔏					
Evolutions	Tier Totals													***				12
	1												<b>33</b> 28			3	1	4
2. Plant	2											***	***			ı	ı	2
Systems	3										ν &		•					
	Tier Totals												<del>40</del> 38			4	2	6
3. Gener <i>ic</i> Abilities	: Knowled s Categor		and		C.	at læ@					ě		<del>17</del> 10	1	2	3	4	7
							<b>&gt;</b>		8					2	2	1	2	

- Note: 1. Ensure that at least two topics from every K/A category are sampled within each tier of the RO outline file., the "Tier totals" in each K/A category shall not be less than two. Refer to section D.1.c for additional guidance regarding SRO sampling.
  - 2. The point total for each group and tier in the proposed outline must match that specified in the table. The final point total for each group and tier may deviate by ±1 from that specified in the table based on NRC revisions. The final RO exam must total 100.75 points and the SR0-only exam must total 25 points.
  - 3. Select topics from many systems and evolutions; avoid selecting more than two-or three K/A topics from a given system or evolution unless they relate to plant-specific priorities.
  - 4. Systems/exclutions within each group are identified on the associated outline.
  - 5. The shaded areas are not applicable to the category/tier.
    - The generic (G) K/As in Tiers 1 and 2 shall be selected from Section 2 of the K/A Catalog, but the topics must be relevant to the applicable evolution or system. The SRO K/As must also be linked to 10 CFR 55.43 or an SRO-level learning objective. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IR) for the SRO-applicable license level, and the point totals for each system and category. K/As below 2.5 should be justified on the basis of plant-specific priorities. Enter the group and tier totals for each category in the table above: summarize all the SRO-only knowledge and non-A2 ability categories in the columns labeled "K and "A." Use duplicate pages for RO and SRO-only exams.
  - 8. For Tier 3, enter the K/A numbers, descriptions, importance ratings, and point totals on Form ES-401-3.
  - 9. Refer to ES-401, Attachment 2, for guidance regarding the elimination of inappropriate K/A statements.

5-48 Eng	200			anuka Pin	100 J.	CHRE URBIG THE REPORTS		in is d	a-3 Bank	*******		Sour	ce Inform	nation				
E/APE # ! Name / Safety Function	K 1	K 2	K 3 A	1[A 2	G	K/A Topic(s)	Imp.	Points	Question	Level	Lesson Plan	NRC	<b>B</b> ank	Mod	New	Memory	Comp	Analysis
				Ī	I													
00007 Reactor Trip - Stabilization - Recovery / I	14	4		-		Desclected			ļ									
00008 Pressurizer Vapor Space Accident / 83					ļ	Dessiected												
				$\top$	1			1										
00009 Small Break LOCA / III					┖	Ceselocted												
100011 Large Breek LOCA / 3		١		2.14		Ability to determine or interpret the following as they apply to a Large Break LOCA: Antions to be taken if limits for PTS are violated.	4.09	1	1077.00	SRO					×		х	
Control English Section 2007	1-1	$\neg$		1	T													
000015/17 RCP Malfunctions / 4				$oldsymbol{\perp}$	L	Deselscted						<u> </u>						
100022 Loss of Reactor Coolant Makeup / II		i		2.0		Ability to determine and interpret the following as they apply to the Loss of Reactor Coolant Pump Makeup: How long Pzr level can be maintained within limits.	3.8	1	1088	SRO					х			x
	$\Box$			1	1													
000025 Loss of RHR System / IV	1	_	4	╄	<u> </u>	Deselected		ļ					ļ					
200026 Loss of Component Cooling Water / 8						Desalected												
000027 Pressurizer Pressure Control System Malfunction / 3				2.	2.4	Ability to determine and interpret the following as they apply to the Pressurizer Pressure Control Malfunction: Actions to be taken is PZR pressure instrument fails high	4.0	1	1083	SRO					×		x	
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008029 ATWS					1_	Deseiected		<u> </u>			<u> </u>		<u> </u>		Ļ			
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000038 Steam Generator Tube Rupture / III 000040 W/E12 Steam Line Rputure- Excessive Heat	╁┼			+	┿	Deselected		ļ			1	<del> </del>			╁		<b></b>	} ,
Transfer / 4			į		1	   Decolarity	ļ						]					i
000040 W/E12 Steam Line Rupture - Excessive Heat	-			+	╫	Deselected		╂	<del> </del>			$\vdash$	<del> </del>	╁┈──	<b>†</b>			
Transfer / 4					l	Descluded							<u>L</u>					
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000054 Loss of Main Feedwater / IV	11	Ш	_	$\perp$	1	Deselected	<b></b>	<b> </b>			<del> </del>		Ь	<u>                                     </u>	-	}		
	1																}	
90055 Station Blackout / 6	+	$\dashv$		- -	┪—	Desslected		-	<b>}</b>		<u> </u>	├	<del>                                     </del>	<del> </del>	+	<del>                                     </del>	<del></del>	
000056 Loss of Offsite Power / 6						Deselected											i İ	
State of Charles I Wall to	$\Box$	$\Box$		+	†	Ability to determine and interpret the following as they apply to the Loss						1						
000057 Loss of Vital AC Inst Bus / 6			$\perp$	2.1	9	of Vial AC Instrument Bus: The plant automatic actions that will occur on the loss of a vital ac electrical instrument bus.	4.3	1	1080	SRO		<u> </u>	<u> </u>	<u> </u>	×			X
										27.5		1	1		1			
000058 Loss of DC Power / 8	+-		+	2.0	2	Ability to determine and interpret the following as they apply to the Loss of	36	1-1-	881.1	SRO	<b></b>	<del>                                     </del>	+	х	+		X	
000062 Loss of Nuclear Service Water / 4						Deselected							1	ļ	<u> </u>			ļ
				Ţ		Ability to determine and interpret the following as they apply to the Loss of instrument Air: When to trip the reactor if instrument air pressure is												1
200065 Loss of instrument Air / 8	نـــــــــــــــــــــــــــــــــــــ			2.6	6	decreasing.	4.2	1 1	1081	SRO	<u>k</u>	<u> </u>	<u></u>		l x	×	1	<u> </u>

#### McGuire Sample Plan

W/E04 LOCA Outside Containment				Deselocted									
W/E11 Loss of Emergency Coolant Recirc / 4			2.20	Ability to determine and interpret the following as they apply to the (Coss of Emergency Coolant Recirculation) Adherence to appropriate procedures and operation within the limitations in the facility license and amendments.	4.2	1	1084	SRO			х		х
W/E05 Inadequate Heat Shik/Loss of Secondary Heat Sink / 4				Desolected									
K/A Category Totals:		1		 Group Point Total:			8			Į.		1	1

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809981 Continuous Rod Withdrawal / I	-				+-	Deselected						<del> </del>						
	1				-	Deselocted	1											
000003 Dropped Control Rod / I	╁	$\vdash$	╂╼═╅	<del>-  -</del>	+	Despirated	<del> </del>	<del> </del>				<del>                                     </del>	_	<del>                                     </del>				
000005 inoperable/Stuck Control Rod /I		1				Deselected												
ocous moperatise stack control recom		1	$\vdash$	_	+	a decision												
000024 Emergency Boration / I				ı		Deselected											:	
and gardy action,			1		_	N						П						
000025 Pressurizer Level Malfunction / 2			ļ	-		Deselected												ļ
	_	1			1													;
000032 Loss of Source Range NI / 7		<b> </b>	1 1			Deselvated								<u> </u>				<u> </u>
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000033 Loss of Intermediate Range NI / 7		L	Ш			Deselocted												
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000036 Fuel Handling Accident / 8						Deselected												
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000037 Steam Generator Tube Leak	-	<del> </del>				Deselected	+			ļ		<del>  </del>	<del> </del>	-	<del> </del>			
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000051 Loss of Condenser Vacuum / IV	+-	╁	┨	─┼	+	Deselected  Ability to determine and interpret the following as they apply to the				<del></del>			-					
000059 Accidential Liquid Rad/Waste Rel / 8			1 1		02	Accidnetial Liquid Radwasta Release: The permit for liquid radioactiv waste release.	/e 3.9	1	SRO	999,1			×			х		
000058 Accedential Liquid Radivvaste Rel 7 6	_	+	!	1	-	Waste (Bleast)	1 0.5	<del></del>		0.70.7			Ĥ	1				
000060 Accidentia: Gasous Radwaste Rei / 5	-	1		ļ		Doseiected	ĺ							1				<b>\$</b>
Addition According to Basel 1 According to 1997		†		_	十					!								1
009061 ARM Systom Alarms / 7	İ			2	01	Ability to determine and interpret the following as they apply to the Area Radiation Monitoming System Alarms: ARM panel displays	3.7	1	SRO	495.1			X	1		х		1
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000087 Plant Fire On-site / \$						Desetecteci						<u> </u>		<u> </u>	<u> </u>		<u> </u>	
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000088 Control Room Evac / 8		<u></u>				Deselected		ļ								ļ <u></u>		<u></u>
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000069 (W/E14) Loss of CTMT Integrity / V		<u> </u>			丄	Deselected						<u> </u>		ļ	<u> </u>			ļ
					1	Ability to determine and interpret the following as they apply to the (Degraded Core Cooling): Facility conditions and selection of	1						1					1
000074 (W/E08&E07) Inad. Core Ceoling / IV	_	ــــــــــــــــــــــــــــــــــــــ		2	16	appropriate abnormal and emergency operations.	4.2	1	SRO	186.1	ļ	<b> </b>	<u> </u>	×		×		
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900076 High Reactor Coolant Activity / 9	+	╄	-		+	Desclected			<b></b>	ļ	ļ	┼	⊢	<del> </del>				1
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W/E01 & E02 Rediagnosis & SI Termination	+	+	$\vdash$	_{-	+	Deselected		<del> </del>		<u> </u>	<del> </del>	$\vdash$		+	├	<u> </u>		<del> </del>
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WE01 & E02 Rediagnosis & SI Termination		Щ.				Deseiected		<u></u>	B	<u> </u>	L	1	<b>1</b>	┸	<u> </u>	i	<u> </u>	

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W/E13 Steam Generator Over-pressure / 4				-	Deselected						<u> </u>						
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W/E15 Containment Flooding		44		1_	Deselected												
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W/E16 Kigh Centainment Radiation / 9	$\dashv$	$\perp$		2.4.6	Knowledge of symptom based mitigation strategies.	4.0	1	SRO	1082					X	X		
	. 1			ł		1											
BW/A01 Plant Runback / 1					Deselected												
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BW/A02 & A03 Loss of NNI / 7					Deselected									i			
	$\Box$	$\top$															
BW/A64 Turbine Trip / 4					Deseiected	ļ											
	$\neg$			1													
BW/A05 Emergency Diesel Actuation / 6	.				Deseiected												
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BW/A07 Flooding	,				Deselected	1					١.						
				<b>T</b>		1											
BW/E03 tnadequate Subcooling Margin / 4	ı I			1	Deselected		1										
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BW/E08; W/E03 LOCA Cooldown - Depress. / 4	. 1	1		1	  Deselected	1					1						
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BW/E09; CE/A13;W/E9&10 Natural Circ. / 4	ı I	1	2.1		Facility conditions and selection of appropriate procedures, during abnormal and emergency operations.	3.5	1	SRO	871.2	:	ŀ	x			х		
BYFEVE, CECA 13, INTERATO NATIONAL CITC. 1 4	$\vdash$	+		<u> </u>	government and contengency epotential						<b></b> -						
BW/E13&14 EOP Rules and Enclosures					Deselected			Ř									
DIVIE 19019 COF RUISS AND ENGINEES	_		<del>                                     </del>	+			l	-			<del>                                     </del>	<b></b>					
CE/A11; W/E08 RCS Overcoolling - PTS / 4					Deselected		ŀ	9									
CEMIT; WIEVS RGS OVS(COOKING - F13/4	$\vdash$		<del>                                     </del>		Meeting	<del>                                     </del>	<del> </del>			·	1	<b> </b>					
GEN 40 E 500 L (0	ιl				Deselected		1										
CE/A16 Excess RCS Leakage / 2	$\vdash$		<del></del>		Description			<del> </del>			<del> </del>		$\vdash$				
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CE/E09 Functional Recovery			-	-	Desciected Court Total	1	<u> </u>				ļ						
K/A Category Totals:			<u>ll</u>	J	Group Point Total	٠		L	<u> </u>	1	<del></del>	Ļ	Ц.,	L			

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System # / Name	K	1 K	2 K	3 K	4 K	5 1	6	A 1	A 2	A 3	A 4	G	K/A Topic(s)	Imp.	Points	Level	Question	Lesson	NRC	T	r	New	Memory	Сотр	Analysis
	+	<del> </del>	+	╬	+	ᅲ	┅╪		CHIEV.		<del> </del>		RCPS, and based on those predictions, use procedures to correct, control or	-	<del> </del>			Plan		<del> </del>					
393 Reactor Coolant Pump	İ	ļ	1		١	١			2.01		ŀ		mitisgate the consequences: Problems with the RCF east, especially leak of rates.	ff 2,3	1	SRO	1036					x	x		
	Т	1	1	1	Ť	7	ヿ		•			1		1						T					
003 Reactor Coolant Fump	L	L	L	┸	$\perp$	┙							Deselected							<u> </u>					
			1	1		1					ŀ														
004 Chemical Volume and Control	↓	$\downarrow$	<del> </del>	╀	_	4	_				_	ļ	Deselected	ļ						<u> </u>	ļ				
385 Residual Heat Removal													Doselected												
	T		1			1							Resolution												
908 Emergency Core Cooling	╁╴	+	┿	╁	+	+	+			_	┞	╁	Deserviced	+	<del>                                     </del>			<b></b>		┼	$\vdash$				:
007 Pressurizer Relief/Quench Tank				1	1	$\perp$							Deselocted							ļ	<u> </u>				
908 Component Cooling Water	╁	╁	╁	+	+	+	$\dashv$				-	-	Deselected	╂			<u> </u>		<u> </u>		<u> </u>				
010 Pressurize: Pressure Centrol							١						Deselected												
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010 Pressurizer Pressure Control	L	1	1	$\perp$	4	4	_				L	L	Deselected	<b>_</b>						—	<u> </u>	ļ			
012 Reactor Protection			1										Deselocted						ļ						
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012 Reactor Protection	L		丄	$\perp$	$\perp$								Deselected				<u> </u>								
013 Engineered Szfety Features Actuation					۱				2.04				ESFAS: and based Ability on those predictoins, use procedures to correct, control, or mitigagite the consequences of those malfunctions or operations: Loss of an instrument bus.	4.2	,	SRO	1076	 				×		x	
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022 Containment Cooking	Ļ	$\bot$	1		4	4	_				_	ــــــــــــــــــــــــــــــــــــــ	Desalected				<b> </b>			↓					ļ
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025 toe Condenser	╄	┿	+	+	-	+	$\dashv$			Ļ	┝	╁	Deselected	+	<del> </del>	<del> </del>				┿┈	ļ	<del> </del>			
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026 Containment Spray	╁	十	十	+	$^{+}$	7	-			_	-	$\vdash$	Description	+	<del> </del>		1		1	†		<del> </del>			
026 Containment Spray						-						-	Dessiected								L	L			
	T	T	T	T	T	7					Π	Π	MRSS; and based on predicitions, use procedures to correct, control or militagate the consequences of those malfunctions; Malfunctioning steam		1				Ī	Π	Ţ				
039 Main and Reheat Steam	┸		$\perp$	$\perp$	_	_	_		2.04	L	_	L	namagare the consequences of those manuficions: Majoricioning steam dump.	3.7_	1	SRO	979.1		<u> </u>	<u> </u>	X	ļ		×	<u> </u>
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056 Condensate	╀	+-	┿	+	+	+					-	-	Deselected	+	+				_	╂─	<del> </del>	-			1
059 Main Feedwater		$oldsymbol{\perp}$	$\perp$							_	_	L	Deselected							_					
						- [																			
861 Auxillary/Emergancy Feedwater	L	$\perp$	$\perp$						L	<u> </u>	_	<u>L</u>	Deselected	_L		Ĺ	<u> </u>		L	<b></b>	<u> </u>	L	<u> </u>	L	<u> </u>

#### McGuire Sample Plan

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062 AC Electrical Distribution				1 1			Ì		1	Deselected						l l						
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063 DC Electrical Distribution					Į					Deseignment		ļ										
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064 Emergency Diesel Generator		L							L	Deselected		Ĺ										
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064 Emergency Diesel Generator	$\Box$									Deselected												
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073 Process Radistion Monitoring			<u> L</u>	Ш					2.1.	Ability to explain and apply all system limits and precautions.	3.8	1	SRC	1006.1			х			х		
		-		[ ]			-					1										
076 Service Water						$\perp$		$\perp$	L	Desciected	2.6	ļ										
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078 Instrument Air	1 1			1 1			- 1			Deselected	2.7		[					.				
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103 Containment			1	<u> </u>	]	٠.		<u>. Ļ.</u> .	1	Deselected	5.9	ļ				<u> </u>					<del>,,,,,,,,,,</del>	
K/A Category Totals:	1L		L						ورمول	Group Point Tot	2:3	<u> </u>	i	L	1,,,,,,,,	Ļ			l			

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System # / Name	K 1	κ :	K 3	K	ĸ	5 K	6	4 1	A 2	A 3	A -	G	K/A Topic(s)	lmp.	Points	Leve!	Question		~			Memory	Comp	Analys
		[		]	[	Ī	Ī					Γ			T									
001 Control Rod Drive	<u> </u>	-	┡	$\vdash$	╀	+	4	-			ļ	-	Deselected					<del>                                     </del>		├				
902 Reactor Coolant		Ì				ı	ł						Deselected	İ										
TO E NO BERTON GOODING	T	T	T	T	✝	†	7	┪		_	Г	T			1			<b> </b>		<b></b>				
011 Pressurizer Level Control		L	L	_	1		4	_			L	ļ.,	Deselected		↓	ļ	-		<u> </u>	<u> </u>				
014 Rod Position Indication		L	L										Desalected											
D15 Nuclear Instrumentation													Desclected											
018 Non-nuclear Instrumentation													Deselected											
317 in-core Temperature Monitor													Deselected											
027 Containment Iodine Removal												2.1	3Ability to explain and apply all system and limits and precautions.	3.8	1	SRO	1075	ļ			×	х		
028 Hydrogen Recombiner and Purge Control													Desclected											
028 Containment Purge													Desciected											ļ
033 Spent Fuel Pool Cooling					<u> </u>	$\downarrow$						$oldsymbol{\perp}$	Deselected								ļ			
034 Fuel Handling Equipment	_	-	_	_	Ļ	_	_				Ļ	1	Deselected							<u> </u>				
035 Steam Generator		_	<u> </u>			1				_	_	1	Deselected	_										
041 Steam Dump/Turbino Bypass Centrol	_	_			+	$\downarrow$		_		 	_	1	Doselected		_		ļ			<u> </u>				
045 Main Turbine Generator	_	L		L	$\downarrow$	_				Ļ		$\perp$	Deselected						ļ					
055 Condenser Air Removat	L	L			_	_						_	Deselected							_			ļ	<u> </u>
068 Liquid Radwaste		L			$\perp$			_		_			Desolected		4					<u> </u>			<u> </u> 	
071 Waste Gas Disposal		_	L			-					L		Desolected											
072 Area Radiation Monitoring		$oxed{}$			$\perp$	$\perp$				_	_		Deselected									<u> </u>		
075 Circulating Water										2.02	2		circulating water system; and based on those practitions, use procedures to correct, control or mitigate the consequences of those malfunctions: 1.698 or circulating water pumps.		1	SRO	1078				x	1	×	

### McGuire Sample Plan

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386 Fire Protection	1		1	1	ı	1	1	1	ı		Deselected	1	Į.	E	В	I	i		l	N	!	1 '
K/A Category Totals:	t and	*	4	4	†***	Ť	•	1		 	Group Point Tot	ni.	+	<del>                                     </del>	****	jeren		1		********		
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	<b>B</b> eside	Section of Regions (RAR) (2002)	Course Lavel			Bank	LOSSOFT		e Date	Stob				
Category	K/A#	Topic	lmp.	Points	Leve!	Question	Plan	NRC	Bank	Mod	New	Memory	Сотр	Analysi
	2.1.5	Abiny to iccale and use procedures and directives related to shift statting and activities	3.4	1	SRO	121.1			×				Х	
	2.1.12	Ability to apply technical specifications for a system.	4	1	SRO	1079			х				х	
onduct of				ļ							-			
Operations			ļ					ļ						
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	Total	•		<u> </u>		<b>n</b> g Kanangan Kata	part to the second	CARNING SERVICE	y.www.ac			·····	· · · · · · · · · · · · · · · · · · ·	
	2.2.21	Knowledge of pre and post maintenance activities.	3.5	11	SRO	1087					Х			х
	2.2.22	Knowledge of limiting conditions for operations and safety limits	4.1	1	SRO	264.1			х			×		
Equipment			ļ						<u> </u>					
Contro!						<u> </u>								
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		Knowledge of SRU responsibilities for auziliary systems that are outside the control	r				· · · · · · · · · · · · · · · · · · ·	······	1	erana en	*****	p=0.010-015-0-0	g with the test and	icas assessiva na microsica
	2.3.3	room (e.g. waste disposal and handling systema).	2.9	1	SRC	1085	<u> </u>			-	Х	X		
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	2.4.44	Knowledge of emergency plan recommendations	4	1	SRO	210.1			Х	[	<u> </u>			x
		Ability to perform without reference to procedeures those actions that require immediate operation of systems components and controls.	4	1	SRO	1089			×			X		Ť
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rocedures and Plan						<del>                                     </del>		ļ						
and risk											<del>                                     </del>			1
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17 SRC K/As to be sampled - 13 will be imported from the RO generic section

ES-401 Record of Rejected K/As Form	n ES-401-4
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Tier / Group	Randomly Selected K/A	Reason for Rejection
T1/G1	000011 G2.4.49	Could not write operationally valid SRO level of responsibility question on this KA and are no immediate actions in E-1. Randomly swapped to EA2.14
T1/G1	000025 AA2.06	Could not write operationally valid SRO level of responsibility question on this KA. RO level of knowledge. Randomly swapped to 000027 AA2.15
T1/G1	000057 G2.1.14	Could not write operationally valid SRO level of responsibility question on this KA. Randomly swapped to AA2.19
T1/G1	000065 62.1.14	Could not write operationally valid SRO level of responsibility question on this KA. Randomly swapped to AA2.06
T2/G1	003 G 2.1.14	Could not write operationally valid SRO level of responsibility question on this KA. Randomly swapped to A2.01
Generics	2.2.19	The process under question is changing rapidly and would be very difficult psychometrically sound question at SRO level. This KA was randomly swapped to 2.2.22.
Generics	2.4.36	Not SRO JTA applicable. Could not write operationally valid SRO level of responsibility question on this KA. Randomly swapped to 2.4.44
T1/G2	G 2.4.50	Deselected by fead examiner. G 2.4.50 not 10CFR55.43 reselected W/E 10 EA 2.1
*	USED RANDOM.	ØR.G.