

Facility:		Callaway 2007 NRC Examination											Date of Exam:		11/26/2007			
Tier	Group	RO K/A Category Points											SRO-Only Points					
		K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	Total	A2	G*	Total		
1. Emergency & Abnormal Plant Evolutions	1	3	3	3				3	3			3	18	3	3	6		
	2	2	2	1				1	2			1	9	2	2	4		
	Tier Totals	5	5	4				4	5			4	27	5	5	10		
2. Plant Systems	1	2	2	3	3	3	3	3	3	2	2	2	28	2	3	5		
	2	1	0	1	1	2	1	1	1	0	1	1	10	1	0	3		
	Tier Totals	3	2	4	4	5	4	4	4	2	3	3	38	3	5	8		
3. Generic Knowledge and Abilities Categories					1	2	3	4	10		1	2	3	4	7			
					4	2	2	2			2	2	1	2				
Note:	1.	Ensure that at least two topics from every applicable K/A category are sampled within each tier of the RO and SRO-only outlines (i.e., except for one category in Tier 3 of the SRO-only outline, the "Tier Totals" in each K/A category shall not be less than two).																
	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 75 points and the SRO-only exam must total 25 points.																
	3.	Systems/evolutions within each group are identified on the associated outline; systems or evolutions that do not apply at the facility should be deleted and justified; operationally important, site-specific systems that are not included on the outline should be added. Refer to ES-401, Attachment 2, for guidance regarding elimination of inappropriate K/A statements.																
	4.	Select topics from as many systems and evolutions as possible; sample every system or evolution in the group before selecting a second topic for any system or evolution.																
	5.	Absent a plant specific priority, only those KAs having an importance rating (IR) of 2.5 or higher shall be selected. Use the RO and SRO ratings for the RO and SRO-only portions, respectively.																
	6.	Select SRO topics for Tiers 1 and 2 from the shaded systems and K/A categories.																
	7.*	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.																
	8.	On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IRs) for the applicable license level, and the point totals (#) for each system and category. Enter the group and tier totals for each category in the table above; if fuel handling equipment is sampled in other than Category A2 or G* on the SRO-only exam, enter it on the left side of Column A2 for Tier 2, Group 2 (Note #1 does not apply). Use duplicate pages for RO and SRO-only exams.																
	9.	For Tier 3, select topics from Section 2 of the K/A Catalog, and enter the K/A numbers, descriptions, IRs, and point totals (#) on Form ES-401-3. Limit SRO selections to K/As that are linked to 10CFR55.43																

Callaway 2007 NRC Examination  
Written Examination Outline  
Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

E/APE # / Name Safety Function	G	K1	K2	K3	A1	A2	Number	K/A Topic(s)	Imp.	Q#
008 / Pressurizer Vapor Space Accident / 3						X	AA2.24	Ability to determine and interpret the following as they apply to the Pressurizer Vapor Space Accident: Value at which turbine bypass valve maintains header pressure after a reactor trip	2.6	76
027 / Pressurizer Pressure Control System Malfunction / 3	X						2.1.2	Conduct of Operations: Knowledge of operator responsibilities during all modes of plant operation.	4.0	77
038 / Steam Generator Tube Rupture / 3	X						2.4.4	Emergency Procedures / Plan Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures.	4.3	78
040 / Steam Line Rupture / 4	X						2.4.31	Emergency Procedures / Plan Knowledge of annunciators alarms and indications, and use of the response instructions.	3.4	79
058 / Loss of DC Power / 6						X	AA2.01	Ability to determine and interpret the following as they apply to the Loss of DC Power: That a loss of dc power has occurred; verification that substitute power sources have come on line	4.1	80
E05 / Loss of Secondary Heat Sink / 4						X	EA2.2	Ability to determine and interpret the following as they apply to the Loss of Secondary Heat Sink: Adherence to appropriate procedures and operation within the facility's license and amendments	4.3	81
007 / Reactor Trip / 1			X				EK2.03	Knowledge of the interrelations between a reactor trip and the following: Reactor trip status panel	3.5	39
008 / Pressurizer Vapor Space Accident / 3				X			AK3.05	Knowledge of the reasons for the following responses as they apply to the Pressurizer Vapor Space Accident: ECCS termination or throttling criteria	4.0	40
009 / Small Break LOCA / 3	X						2.1.23	Conduct of Operations: Ability to perform specific system and integrated plant procedures during all modes of plant operation.	3.9	41
011 / Large Break LOCA / 3					X		EA1.05	Ability to operate and monitor the following as they apply to a Large Break LOCA: Manual and/or automatic transfer of suction of charging pumps to borated source	4.3	42
022 / Loss of Reactor Coolant Makeup / 2	X						2.1.33	Conduct of Operations: Ability to recognize indications for system operating parameters which are entry level conditions for technical specifications.	3.4	43

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

E/APE # / Name Safety Function	G	K1	K2	K3	A1	A2	Number	K/A Topic(s)	Imp.	Q#
026 / Loss of Component Cooling Water / 8						X	AA2.06	Ability to determine and interpret the following as they apply to the Loss of Component Cooling Water: The length of time after a loss of CCW flow to a component before that component may be damaged	2.8	44
027 / Pressurizer Pressure Control System Malfunction / 3			X				AK2.03	Knowledge of the interrelations between the Pressurizer Pressure Control Malfunctions and the following: Controllers and positioners	2.6	45
029 / Anticipated Transient Without Scram (ATWS) / 1			X				EK2.06	Knowledge of the interrelations between the and the following an ATWS: Breakers, relays, and disconnects	2.9	46
038 / Steam Generator Tube Rupture / 3		X					EK1.03	Knowledge of the operational implications of the following concepts as they apply to the SGTR: Natural circulation	3.9	47
040 / Steam Line Rupture / 4					X		AA1.01	Ability to operate and / or monitor the following as they apply to the Steam Line Rupture: Manual and automatic ESFAS actuation	4.6	48
054 / Loss of Main Feedwater / 4		X					AK1.01	Knowledge of the operational implications of the following concepts as they apply to Loss of Main Feedwater (MFW): MFW line break depressurizes the S/G (similar to a steam line break)	4.1	49
055 / Station Blackout / 6		X					EK1.01	Knowledge of the operational implications of the following concepts as they apply to the Station Blackout : Effect of battery discharge rates on capacity	3.3	50
056 / Loss of Off-site Power / 6						X	AA2.88	Ability to determine and interpret the following as they apply to the Loss of Offsite Power: Necessary S/G water level for natural circulation	4.1	51
058 / Loss of DC Power / 6	X						2.1.28	Conduct of operations: Knowledge of purpose and function of major system components and controls.	3.2	52
E05 / Loss of Secondary Heat Sink / 4				X			EK3.2	Knowledge of the reasons for the following responses as they apply to the Loss of Secondary Heat Sink: Normal, abnormal, and emergency procedures associated with loss of Secondary Heat Sink	3.7	53
065 / Loss of Instrument Air / 8				X			AK3.04	Knowledge of the reasons for the following responses as they apply to the Loss of Instrument Air: Cross-over to backup air supplies	3.0	54

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Emergency and Abnormal Plant Evolutions – Tier 1 Group 1

E/APE # / Name Safety Function	G	K1	K2	K3	A1	A2	Number	K/A Topic(s)	Imp.	Q#
E04 / LOCA Outside Containment / 3						X	EA2.2	Ability to determine and interpret the following as they apply to the (LOCA Outside Containment) Adherence to appropriate procedures and operation within the limitations in the facility's license and amendments.	3.6	55
E11 / Loss of Emergency Coolant Recirculation / 4					X		EA1.1	Ability to operate and / or monitor the following as they apply to the (Loss of Emergency Coolant Recirculation) Components, and functions of control and safety systems, including instrumentation, signals, interlocks, failure modes, and automatic and manual features.	3.9	56
K/A Category Point Totals:	6	3	3	3	3	6	Group Point Total:			24

Callaway 2007 NRC Examination  
Written Examination Outline  
Emergency and Abnormal Plant Evolutions – Tier 1 Group 2

E/APE # / Name Safety Function	G	K1	K2	K3	A1	A2	Number	K/A Topic(s)	Imp.	Q#
001 / Continuous Rod Withdrawal / 1	X						2.1.23	Conduct of Operations: Ability to perform specific system and integrated plant procedures during all modes of plant operation.	4.0	82
005 / Inoperable/Stuck Control Rod / 1						X	AA2.04	Ability to determine and interpret the following as they apply to the Inoperable / Stuck Control Rod: Interpretation of computer in-core TC map for dropped rod location	3.4	83
E03 / LOCA Cooldown and Depressurization / 4						X	EA2.1	Ability to determine and interpret the following as they apply to the (LOCA Cooldown and Depressurization) Facility conditions and selection of appropriate procedures during abnormal and emergency operations.	4.2	84
E06 / Degraded Core Cooling / 4	X						2.4.6	Equipment Control Knowledge of limiting conditions for operations and safety limits.	4.0	85
001 / Continuous Rod Withdrawal / 1	X						2.1.7	Conduct of Operations: Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation.	3.7	57
024 / Emergency Boration / 1						X	AA2.03	Ability to determine and interpret the following as they apply to the Emergency Boration: Correlation between boric acid controller setpoint and boric acid flow	2.9	58
059 / Accidental Liquid RadWaste Release / 9		X					AK1.02	Knowledge of the operational implications of the following concepts as they apply to Accidental Liquid Radwaste Release: Biological effects on humans of various types of radiation, exposure levels that are acceptable for nuclear power plant personnel, and the units used for radiation-intensity measurements and for radiation exposure levels	2.6	59
069 / Loss of Containment Integrity / 5						X	AA2.02	Ability to determine and interpret the following as they apply to the Loss of Containment Integrity: Verification of automatic and manual means of restoring integrity	3.9	60
076 / High Reactor Coolant Activity / 9			X				AK2.01	Knowledge of the interrelations between the High Reactor Coolant Activity and the following: Process radiation monitors	2.6	61

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Emergency and Abnormal Plant Evolutions – Tier 1 Group 2

E/APE # / Name Safety Function	G	K1	K2	K3	A1	A2	Number	K/A Topic(s)	Imp.	Q#
E02 / SI Termination / 3			X				EK2.2	Knowledge of the interrelations between the (SI Termination) and the following: Facility's heat removal systems, including primary coolant, emergency coolant, the decay heat removal systems, and relations between the proper operation of these systems to the operation of the facility.	3.5	62
E03 / LOCA Cooldown and Depressurization / 4					X		EA1.2	Ability to operate and / or monitor the following as they apply to the (LOCA Cooldown and Depressurization) Operating behavior characteristics of the facility.	3.7	63
E07 / Saturated Core Cooling / 4				X			EK3.4	Knowledge of the reasons for the following responses as they apply to the (Saturated Core Cooling) RO or SRO function as a within the control room team as appropriate to the assigned position, in such a way that procedures are adhered to and the limitations in the facilities license and amendments are not violated.	3.3	64
E08 / Pressurized Thermal Shock / 4		X					EK1.3	Knowledge of the operational implications of the following concepts as they apply to the (Pressurized Thermal Shock) Annunciators and conditions indicating signals, and remedial actions associated with the (Pressurized Thermal Shock).	3.5	65
K/A Category Point Total:	3	2	2	1	1	4	Group Point Total:			13

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Plant Systems – Tier 2 Group 1

System #/Name	G	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	Number	K/A Topics	Imp.	Q#
005 Residual Heat Removal									X			A2.03	Ability to (a) predict the impacts of the following malfunctions or operations on the RHRS, and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: RHR Pump/motor malfunction	3.1	86
006 Emergency Core Cooling									X			A2.10	Ability to (a) predict the impacts of the following malfunctions or operations on the ECCS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Low boron concentration in SIS	3.9	87
012 Reactor Protection	X											2.4.50	Emergency Procedures / Plan Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.	3.3	88
062 AC Electrical Distribution	X											2.2.25	Equipment Control Knowledge of bases in technical specifications for limiting conditions for operations and safety limits.	3.7	89
064 Emergency Diesel Generator	X											2.1.2	Conduct of operations: Knowledge of operator responsibilities during all modes of plant operation	4.0	90
003 Reactor Coolant Pump										X		A3.04	Ability to monitor automatic operation of the RCPS, including: RCS flow	3.6	1
004 Chemical and Volume Control						X						K5.26	Knowledge of the operational implications of the following concepts as they apply to the CVCS: Relationship between VCT pressure and NPSH for charging pumps	3.1	2
005 Residual Heat Removal							X					K6.03	Knowledge of the effect of a loss or malfunction on the following will have on the RHRS: RHR heat exchanger	2.5	3
006 Emergency Core Cooling									X			A2.12	Ability to (a) predict the impacts of the following malfunctions or operations on the ECCS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Conditions requiring actuation of ECCS	4.5	4
007 Pressurizer Relief/Quench Tank											X	A4.10	Ability to manually operate and/or monitor in the control room: Recognition of leaking PORV/code safety	3.6	5
008 Component Cooling Water								X				A1.04	Ability to predict and/or monitor changes in parameters to prevent exceeding design limits) associated with operating the CCWS controls including: Surge tank level	3.1	6

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Plant Systems – Tier 2 Group 1

System #/Name	G	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	Number	K/A Topics	Imp.	Q#
010 Pressurizer Pressure Control		X										K1.08	Knowledge of the physical connections and/or cause-effect relationships between the PZR PCS and the following systems: PZR LCS	3.2	7
012 Reactor Protection							X					K6.03	Knowledge of the effect of a loss or malfunction of the following will have on the RPS: Trip logic circuits	3.1	8
012 Reactor Protection				X								K3.04	Knowledge of the effect that a loss or malfunction of the RPS will have on the following: ESFAS	3.8	9
013 Engineered Safety Features Actuation								X				A1.04	Ability to predict and/or monitor changes in parameters (to Prevent exceeding design limits) associated with operating the ESFAS controls including: SG level	3.4	10
013 Engineered Safety Features Actuation					X							K4.06	Knowledge of ESFAS design feature(s) and/or interlock(s) which provide for the following Recirculation actuation system reset	4.0	11
022 Containment Cooling										X		A3.01	Ability to monitor automatic operation of the CCS, including: Initiation of safeguards mode of operation	4.1	12
022 Containment Cooling					X							K4.02	Knowledge of CCS design feature(s) and/or interlock(s) which provide for the following: Correlation of fan speed and flowpath changes with containment pressure	3.1	13
026 Containment Spray					X							K4.01	Knowledge of CSS design feature(s) and/or interlock(s) which provide for the following: Sources of water for CSS, including recirculation phase after a LOCA	4.2	14
039 Main and Reheat Steam						X						K5.01	Knowledge of the operational implications of the following concepts s the apply to the MRSS: Definition and causes of steam/water hammer	2.9	15
059 Main Feedwater									X			A2.11	Ability to (a) predict the impacts of the following malfunctions or operations on the MFW; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Failure of feedwater control system	3.0	16
059 Main Feedwater		X										K1.02	Knowledge of the physical connections and/or cause-effect relationships between the MFW and the following systems: AFW system	3.4	17
061 Auxillary/Emergency Feedwater			X									K2.02	Knowledge of bus power supplies to the following: AFW electric driven pump	3.7	18

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Plant Systems – Tier 2 Group 1

System #/Name	G	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	Number	K/A Topics	Imp.	Q#
062 AC Electrical Distribution				X								K3.01	Knowledge of the effect that a loss or malfunction of the ac distribution system will have on the following: Major system loads	3.5	19
063 DC Electrical Distribution			X									K2.01	Knowledge of bus power supplies to the following: Major dc loads	2.9	20
064 Emergency Diesel Generator							X					K6.08	Knowledge of the effect of a loss or malfunction of the following will have on the ED/G system: Fuel oil storage tanks	3.2	21
061 Auxillary/Emergency Feedwater						X						K5.02	Knowledge of the operational implications as they apply to the AFW system: Decay heat sources and magnitude	3.2	22
073 Process Radiation Monitoring									X			A2.02	Ability to (a) predict the impacts of the following malfunctions or operations on the PRM system; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Detector failure	2.7	23
076 Service Water	X											2.1.2	Conduct of Operations: Knowledge of operator responsibilities during all modes of plant operation.	3.0	24
076 Service Water								X				A1.02	Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the SWS controls including: Reactor and turbine building closed cooling water temperatures.	2.6	25
078 Instrument Air	X											2.4.50	Emergency Procedures / Plan Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.	3.3	26
103 Containment											X	A4.03	Ability to manually operate and/or monitor in the control room: ESF slave relays	2.7	27
103 Containment				X								K3.01	Knowledge of the effect that a loss or malfunction of the containment system will have on the following: Loss of containment integrity under shutdown conditions	3.3	28
K/A Category Point Totals:	5	2	2	3	3	3	3	3	5	2	2	Group Point Total:			<b>33</b>

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Plant Systems – Tier 2 Group 2

System #/Name	G	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	Number	K/A Topics	Imp.	Q#
002 Reactor Coolant	X											2.1.14	Conduct of Operations: Knowledge of system status criteria which require the notification of plant personnel.	3.3	91
015 Nuclear Instrumentation	X											2.2.22	Equipment Control: Knowledge of limiting conditions for operations and safety limits.	4.1	92
034 Fuel Handling Equipment		X										K1.04	Knowledge of the physical connections and/or cause-effect relationships between the Fuel Handling System and the following systems: NIS	3.5	93
001 Control Rod Drive											X	A4.10	Ability to manually operate and/or monitor in the control room: Determination of an ECP	3.5	29
002 Reactor Coolant						X						K5.09	Knowledge of the operational implications of the following as they apply to the RCS: Relationship of pressure and temperature for water at saturation and subcooling conditions	3.7	30
011 Pressurizer Level Control					X							K4.03	Knowledge of PZR LCS design feature(s) and/or interlock(s) which provide for the following: Density compensation of PZR level	2.6	31
016 Non-nuclear Instrumentation				X								K3.12	Knowledge of the effect that a loss or malfunction of the NNIS will have on the following: S/G	3.4	32
029 Containment Purge								X				A1.02	Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the Containment Purge System controls including: Radiation levels	3.4	33
045 Main Turbine Generator		X										K1.06	Knowledge of the physical connections and/or cause-effect relationships between the MT/G system and the following systems: RCS, during steam valve test	2.6	34
068 Liquid Radwaste							X					K6.10	Knowledge of the effect of a loss or malfunction on the following will have on the Liquid Radwaste System : Radiation monitors	2.5	35
071 Waste Gas Disposal						X						K5.04	Knowledge of the operational implication of the following concepts as they apply to the Waste Gas Disposal System: Relationship of hydrogen/oxygen concentrations to flammability	2.5	36
014 Rod Position indication									X			A2.03	Ability to (a) predict the impacts of the following malfunctions or operations on the RPI system- and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Dropped Rod	3.6	37

Callaway 2007 NRC Examination  
 Written Examination Outline  
 Plant Systems – Tier 2 Group 2

System #/Name	G	K1	K2	K3	K4	K5	K6	A1	A2	A3	A4	Number	K/A Topics	Imp.	Q#
086 Fire Protection	X											2.1.23	Conduct of Operations: Ability to perform specific system and integrated plant procedures during all modes of plant operation.	3.9	38
K/A Category Point Totals:	3	1	0	1	1	2	1	1	1	0	1	Group Point Total:			<b>13</b>

Facility:	Callaway 2007 NRC Examination	Date of Exam:	11/26/2007			
Category	K/A #	Topic	RO		SRO-Only	
			IR	Q#	IR	Q#
1. Conduct of Operations	2.1.32	Ability to explain and apply all system limits and precautions.			3.8	94
	2.1.5	Ability to locate and use procedures and directives related to shift staffing and activities.			3.4	95
	2.1.24	Ability to obtain and interpret station electrical and mechanical drawings.	2.8	66		
	2.1.30	Ability to locate and operate components, including local controls.	3.9	67		
	2.1.29	Knowledge of how to conduct and verify valve lineups.	3.4	68		
	2.1.20	Ability to execute procedure steps.	4.3	69		
	Subtotal			4		2
2. Equipment Control	2.2.9	Knowledge of the process for determining if the proposed change, test or experiment increases the probability of occurrence or consequences of an accident during the change, test or experiment.			3.3	96
	2.2.11	Knowledge of the process for controlling temporary changes.			3.4	97
	2.2.22	Knowledge of limiting conditions for operations and safety limits.	3.4	70		
	2.2.30	Knowledge of RO duties in the control room during fuel handling such as alarms from fuel handling area, communication with fuel storage facility, systems operated from the control room in support of fueling operations, and supporting instrumentation.	3.5	71		
	Subtotal			2		2
3. Radiation Control	2.3.4	Knowledge of radiation exposure limits and contamination control, including permissible levels in excess of those authorized.			3.1	98
	2.3.11	Ability to control radiation releases.	2.7	72		
	2.3.9	Knowledge of the process for performing a containment purge.	2.5	73		
	Subtotal			2		1
4. Emergency Procedures / Plan	2.4.44	Knowledge of emergency plan protective action recommendations.			4.0	99
	2.4.6	Knowledge symptom based EOP mitigation strategies.			4.0	100
	2.4.34	Knowledge of RO tasks performed outside the main control room during emergency operations including system geography and system implications.	3.8	74		
	2.4.2	Knowledge of system set points, interlocks and automatic actions associated with EOP entry conditions.	3.9	75		
	Subtotal			2		2
Tier 3 Point Total				10		7

Tier / Group	Randomly Selected K/A	Reason for Rejection
1 / 2	001 / 2.4.30	The subject K/A's importance rating isn't equal to or greater than 2.5 for the license level of the proposed examination, and there isn't a site-specific priority that justifies keeping the K/A if its importance rating is below 2.5. Randomly replaced with G2.1.14
1 / 1	008 AK3.02	Excessive overlap for topic with question 5. Randomly selected 008 AK3.05
2 / 1	025 K4.02	Facility does not have Ice Condenser. Randomly selected system 022. Kept K4.02
2 / 1	061 K2.03	Facility does not have a diesel driven AFW Pump. Randomly selected 061 K2.02
2 / 2	002 A3.02	Facility does not have a containment sound monitoring system. Randomly selected 002 A3.01
2 / 1	010 K1.05	Excessive overlap for topic with question 5. Randomly selected 010 K1.08
3 / 4	G2.4.49	RO level Generic not suitable for SRO topic. (Immediate Actions) Randomly selected G2.4.6
2 / 2	015 G2.4.49	RO level Generic not suitable for SRO topic. (Immediate Actions) Randomly selected 015 G2.2.22
2 / 1	006 A2.04	No procedure guidance for topic, no credible scenario to serve as basis for test item. Randomly selected 006 A2.12
2 / 1	013 A1.08	No reference material or concept related to KA topic to support a test item. Randomly replaced with 013 A1.04
2 / 1	026 K4.08	Facility does not have automatic swapover. Randomly reselected 026 K4.01
2 / 1	073 K5.02	Operationally sound test item could not be developed to match selected topic. Randomly reselected 061 K5.02
2 / 2	002 A3.01	Directed by C.E. to reselect new KA due to operational validity. Randomly reselected 002 K5.09
2 / 2	072 A2.02	Excessive overlap with 073 A2.02. Randomly reselected 014 A2.03
1 / 1	02 G2.1.27	Difficult to match KA with operationally valid and discriminating question. Randomly reselected 022 G2.1.33
1 / 1	026 AA2.01	Excessive overlap with system question on system 008. Randomly reselected 026 AA2.06
1 / 1	040 AA1.15	Excessive overlap with SRO topic 040 test item. Randomly reselected 040 AA1.01
1 / 1	058 G2.4.31	Excessive overlap with SRO topic 058 test item. Randomly reselected 058 G2.1.28
1 / 1	062 AK3.4	Unable to develop a psychometrically sound test item that is operationally valid. Randomly reselected E05 EK3.2
1 / 2	001 G2.1.14	Unable to develop psychometrically sound test item at the RO level. Randomly reselected 001 G2.1.7
3 / 2	G2.2.25	KA topic is SRO knowledge. Randomly reselected G2.2.22
1 / 1	062 AA2.05	Unable to develop a psychometrically sound SRO test item for selected topic. Randomly reselected E05 EA2.2
1 / 2	E06 G2.2.2	Difficulty matching testing item to KA for SRO topic selected. Randomly reselected G2.4.6
2 / 1	005 A2.01	Difficulty matching testing item to KA for SRO topic selected. Randomly reselected 005 A2.03
2 / 1	006 A2.12	Duplicate topic with RO exam. Randomly reselected 006 A2.10
2 / 1	064 A2.12	No facility action provided for topic selected. Randomly reselected 064 G2.1.2
2 / 2	034 K1.03	Topic would not yield an SRO level test item. Randomly reselected 034 K1.04
3 / 2	2.2.19	Test item did not provide for SRO level knowledge. Changed topic to G2.2.11