## Final Submittal BRUNSWICK OCT/NOV 2004

EXAM 50-325, 324/2004-301 OCTOBER 29, 2004 & NOVEMBER 2 - 10, 2004

FINAL SAMPLE PLANS / OUTLINES

Facility: <u>Brunswick</u> Examination Level (circle o	Date of Examination: <u>11/1/2004</u> one): RO Operating Test Number: <u>1</u>
Administrative Topic (see Note)	Describe activity to be performed-
Conduct of Operations	ADM1ROCOO - Determine SRM/IRM Overlap Per GP-02.
Conduct of Operations	ADM2ROCOO – Core Performance Parameter Check
Equipment Control	ADM3ROEC - Develop a Clearance Boundary - RBCCW Pump 2C.
Radiation Control	N/A
Emergency Plan	ADM4ROEP - Estimate Source Term for a Release from the Main Stack per PEP-03.6.1.
NOTE: All items (5 total) a they are retaking only the	re required for SROs. RO applicants require only 4 items unless administrative topics, when 5 are required.

Facility: <u>Brunswick</u> Examination Level (circle o	Date of Examination:11/1/2004 one): SRO Operating Test Number:1
Administrative Topic (see Note)	Describe activity to be performed-
Conduct of Operations	ADM1SROCOO - Determine SRM/IRM Overlap Per GP-02 and Technical Specifications.
Conduct of Operations	ADM2SROCOO – Core Performance Parameter Check
Equipment Control	ADM3SROEC - Develop a Clearance Boundary - RBCCW Pump 2C.
Radiation Control	ADM4SR0RC – Evaluate Liquid Discharge Release Permit
Emergency Plan	ADM5SROEP – Make Protective Action Recommendations per PEP-2.6.28

NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.

/	Date of Examination:11/ Operating Test No.:	/1/2004 1
Control Room Systems (8 for RO; 7 for SRO-I; 2 or	3 for SRO-U)	
System / JPM Title	Type Code*	Safety Function
a. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
b. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
c. Restore RBHVAC with Failure to Isolate	D/A/S	9
d. Establish UAT Backfeed	D/S	6
e. Startup the Second Reactor Feed Pump per 2OP-32 – DFC Signal Failure	S Control D/A/S/L	2
f. Complete the Actions for a Complete Loss Of TBCCW per A	AOP-17.0 N/S	8
g. Recirculation Pump Start – Recirculation Pump Speed Con-	trol Failure D/A/S	1
h. Vent Primary Containment via SBGT to Control Drywell Pres AOP-14	ssure per N/S	5
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. SBO Cross Tying 480V Buses – Breaker Charging Spring Fa	ailure D/A/R	6
k. Control Room Evacuation per AOP-32, Placing RHR in Sup Cooling	pression Pool D/R	5
* Type Codes: (D)irect from bank, (M)odified from baroom, (S)imulator, (L)ow-Power, (R)CA	ank, (N)ew, (A)lternate path,	, (C)ontrol

Facility: Brunswick Exam Level (circle one): SRO(I)	Date of Examination:11/ Operating Test No.:	/1/2004 1
Control Room Systems (8 for RO; 7 for SRO-l; 2 o	r 3 for SRO-U)	<u> </u>
System / JPM Title	Type Code*	Safety Function
a. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S/L	4
b. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7
c. Restore RBHVAC with Failure to Isolate	D/A/S	9
d. Establish UAT Backfeed	D/S	6
e. Startup the Second Reactor Feed Pump per 2OP-32 – DF Signal Failure	CS Control D/A/S/L	2
f. Complete the Actions for a Complete Loss Of TBCCW per	r AOP-17.0 N/S	8
g. Recirculation Pump Start – Recirculation Pump Speed Co	ontrol Failure D/A/S	1
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Bypass RWCU Filters per SEP-07	N/R	3
j. SBO Cross Tying 480V Buses – Breaker Charging Spring	Failure D/A/R	6
* Type Codes: (D)irect from bank, (M)odified from room, (S)imulator, (L)ow-Power, (R)CA	bank, (N)ew, (A)Iternate path,	(C)ontrol

Facility: Brunswick Exam Level (circle one): SRO(U)	Date of Examination: Operating Test No.:		
Control Room Systems (8 for RO; 7 for SRO-I; 2 d	or 3 for SRO-U)		
System / JPM Title	Туре С	Code* Safe Funct	
a. Shutdown HPCI, Auxiliary Oil Pump Fails to AUTO Start	D/A/S	S/L 4	
b. Reenergize Trip Calibration Cabinet (CB-XU-63)	N/C	7	
c. Restore RBHVAC with Failure to Isolate	D/A	/S 9	
		***	
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		<u> </u>	
i. Bypass RWCU Filters per SEP-07	N/F	₹ 3	
j. SBO Cross Tying 480V Buses – Breaker Charging Spring	Failure D/A	/R 6	
* Type Codes: (D)irect from bank, (M)odified from room, (S)imulator, (L)ow-Power, (R)CA	bank, (N)ew, (A)lternat	e path, (C)ontro	ol

Facility: Bru	ınswick						Dat	e of	Ex	am:		10/2	9/04					
					R	O K	(/A (	Cate	gor	уΡ	oints	S			SR	O-Or	nly Po	ints
Tier	Group	K 1	K 2	K 3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G *	Total	К	Α	A 2	G *	Total
1.	1	3	3	3				4	4			3	20	0	0	4	4	8
Emergency & Abnormal	2	1	1	1				1	2			1	7	0	0	3	1	4
Plant Evolutions	Tier Totals	4	4	4				5	6			4	27	0	0	7	5	12
	1	3	3	2	3	1	3	2	2	2	3	2	26	0	0	0	4	4
2. Plant	2	1	1	1	1	1	1	1	1	2	1	1	12	0	0	2	0	2
Systems	Tier Totals	4	4	3	4	2	4	3	3	4	4	3	38	0	0	2	4	6
3. Generio	Knowled	lge :	and			1	:	2		3		4		1	2	3	4	
	s Catego				2	2	2	2	. ;	3		3	10	2	1	2	2	7

- Note: 1. Ensure that at least two topics from every K/A category are sampled within each tier of the RO outline (i.e., 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 75 points and the SRO-only exam must total 25 points.
  - 3. Select topics from many systems and evolutions; avoid selecting more than two K/A topics from a given system or evolution unless they relate to plant-specific priorities.
  - 4. Systems/evolutions within each group are identified on the associated outline.
  - 5. The shaded areas are not applicable to the category/tier.
  - 6.\* 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.
  - 7. On the following pages, enter the K/A numbers, a brief description of each topic, the topics' importance ratings (IR) 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; 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.

S-401 BWR Examination OutlineForm ES-4 mergency and Abnormal Plant Evolutions - Ti E/APE # / Name / Safety Function	ĸ			$\Box$		G	K/A Topic(s)	IR	#
<u> </u>	K   1	<u>K</u>	К 3	1	2	_			
95001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4	×			_	_	$\Box$	AK1.01 Knowledge of Natural Circulation	3.5	1
295003 Partial or Complete Loss of AC / 6	Ц	Ц		_		x	2.1.28 Purpose of major controls	3.2	1
295004 Partial or Total Loss of DC Pwr / 6				_	Х	_	AA2.02 Determine extent of DC power Loss	3.5	1
295005 Main Turbine Generator Trip / 3					х	_	AA2.08 Electrical Dist. Status after Turb. Gen. Trip	3.2	1
295006 SCRAM / 1				<u> </u>		Ц	AA1.07 Monitor Control Rod Position after SCRAM	4.1	1
295016 Control Room Abandonment / 7					х		AA2.06 Cooldown Rate Requirements	3.3	1
295018 Partial or Total Loss of CCW / 8						х	2.4.50 Verify system response to alarm condition	3.3	1
295019 Partial or Total Loss of Inst. Air / 8		х					AK2.02 Interrelationship with Inst Air and CCW	2.9	1
295021 Loss of Shutdown Cooling / 4				х			AA1.04 Operate alternate decay heat removal sys.	3.7	1
295023 Refueling Acc Cooling Mode / 8				х			AA1.04 Operate/monitor radiation monitoring equipt.	3.4	1
295024 High Drywell Pressure / 5			х				EK3.01 Reason to spray containment	3.6	1
295025 High Reactor Pressure / 3	Х						EK1.01 Pressure effects on reactor power	3.9	1_
295026 Suppression Pool High Water Temp.			x				EK3.04 Reason to inject SLC	3.7	1
295027 High Containment Temperature / 5							Not Applicable to BNP (Mark III containment ONLY)	N/A	0
295028 High Drywell Temperature / 5						X	2.2.25 Knowledge of LCO and SL bases	2.5	1
295030 Low Suppression Pool Wtr Lvl / 5				х			EA1.05 Effect of low SP level on HPCI operation	3.5	1_
295031 Reactor Low Water Level / 2					х		EA2.04 Low RPV level and Adequate Core Cooling	4.6	1_
295037 SCRAM Condition Present and Power Above APRM Downscale or Unknown		x					EK2.06 Interrelationship ATWS and CRDM	3.5	1
295038 High Off-site Release Rate / 9		x					EK2.01 Interrelationship with radwaste	3.1	1
	×	Î	×				AK1.01 Fire Classification AK3.04 Reason for actions	2.5 2.8	2
600000 Plant Fire On Site / 8	<del>  ^</del> -		r	Г			7440.01140.000		
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ES-401 BWR Examination OutlineForm ES- Emergency and Abnormal Plant Evolutions -	401- Tier	1 1/G	rour	2 (	RO)	ı			
E/APE # / Name / Safety Function	K 1	K 2	K 3	A 1	A 2	G	K/A Topic(s)	IR	#
295002 Loss of Main Condenser Vac / 3			x				AK3.02 Reason for loss of vacuum turbine trip	3.4	1
295007 High Reactor Pressure / 3							Not Selected	N/A	0
295008 High Reactor Water Level / 2	L		L				Not Selected	N/A	0
295009 Low Reactor Water Level / 2	x						AK1.03 Knowledge of low level and Jet Pump NPSH	2.7	1_
295010 High Drywell Pressure / 5							Not Selected	N/A	0
295011 High Containment Temp / 5							Not Applicable to BNP (Mark III containment ONLY)	N/A	0
295012 High Drywell Temperature / 5		L				Х	2.1.23 Perform procedure in all modes of ops.	3.9	1
295013 High Suppression Pool Temp. / 5					х		AA2.01 Determine/interpret Supp. Pool temperature.	3.8	1_
295014 Inadvertent Reactivity Addition / 1	$oxed{oxed}$	$ldsymbol{ld}}}}}}$					Not Selected	N/A	0
295015 Incomplete SCRAM / 1	$oxed{oxed}$						Not Selected	N/A	0
295017 High Off-site Release Rate / 9	$oxed{oxed}$						Not Selected	N/A	0
295020 Inadvertent Cont. Isolation / 5 & 7		<u>x</u>					AK2.06 Interrelationship with HPCI	3.8	1_
295022 Loss of CRD Pumps / 1							Not Selected	N/A	0
295029 High Suppression Pool Wtr Lvl / 5							Not Selected	N/A	0
295032 High Secondary Containment Area Temperature / 5		<u> </u>		х			EA1.01 Operate/monitor temp. monitoring system	3.6	1
295033 High Secondary Containment Area Radiation Levels / 9							Not Selected	N/A	0
295034 Secondary Containment Ventilation High Radiation / 9						:	Not Selected	N/A	0
295035 Secondary Containment High Differential Pressure / 5							Not Selected	N/A	0
295036 Secondary Containment High Sump/Area Water Level / 5							Not Selected	N/A	0
500000 High CTMT Hydrogen Conc. / 5					х		EA2.03 Combustible Limits for drywell	3.3	1
							A A A A A A A A A A A A A A A A A A A		
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K/A Category Point Totals:	1	1	1	1	2	1	Group Point Total:		7

System # / Name	K	K 2	   K   3	K 4	K 5	K 6	A 1	A 2	A 3	A 4	G	K/A Topic(s)	IR	#
203000 RHR/LPC1: Injection				×	·	Ť	·		Х			K4.13 Design features for leak to environment A3.04 Monitor flow with AUTO LPCI	3.4 3.8	2
205000 Shutdown Cooling		х				-						K2.02 Power supply to MOVs	2.5	1
206000 HPCI						х				Х		A4.05 Operate HPCI and monitor water level K6.02 Effect of loss of DC power on HPCI ops	4.4 3.3	2
207000 Isolation (Emergency) Condenser												NOT Applicable to BNP	N/A	0
209001 LPCS	Ш									х		A4.13 Monitor lights and alarms	3.4	1
209002 HPCS												NOT Applicable to BNP	N/A	0
211000 SLC										х		A4.03 Operate and monitor Squib valve status	4.1	1
212000 RPS											Х	2.22 Knowledge of LCO and SL	3.4	1
215003 IRM							x					A1.05 Monitor & predict SCRAM & Rod Block	3.9	1
215004 Source Range Monitor									х			A3.02 Monitor ann. And alarm signals	3.4	1_
215005 APRM / LPRM		х			х							K2.02 APRM channel power supplies K5.04 LPRM location core symmetry	2.6 2.9	2
217000 RCIC			х									K3.04 Loss of RCIC and Adequate Core Cool	3.6	1
218000 ADS				X								K4.01 Design to prevent ADS initiation	3.7	1
23002 PCIS/Nuclear Steam Supply Shutoff							х					A1.01 Monitor PCIS lights and indications	3.5	1
39002 SRVs		х								Щ		K2.01 Power to SRV solenoids	2.8	1_
259002 Reactor Water Level Control								х				A2.06 Predict impact loss of controller signal	3.3	1
261000 SGTS				х								K4.03 Design allowing for moisture removal	2.5	1
262001 AC Electrical Distribution	x											K1.02 Cause/effect DC and AC power	3.3	1
262002 UPS (AC/DC)			х								Х	2.2.25 TS bases K3.15 Effect of loss of UPS on main turbine	2.5 2.6	2
263000 DC Electrical						X						K6.01 Effect of loss of Ac on DC distribution	3.2	1
264000 EDGs	х					х						K1.06 cause/effect starting system K6.01 Effect of loss of starting air	3.2 3.8	2
300000 Instrument Air								х				A2.01 Dryer malfunction effect on IA	2.9	1
100000 Component Cooling Vater	х											K1.04 Determine source of leakage into CCW	2.9	1

System # / Name	K	K 2	K 3	K 4	   K   5	   K   6	A 1	A 2	A 3	A 4	G	K/A Topic(s)	IR	#
201001 CRD Hydraulic	+1	12	3	4	5	6	1	2	3	4	H	Not selected	N/A	0
201002 RMCS	T											Not selected	N/A	o
201003 Control Rod and Drive Mechanism	T									х		A4.02 Monitor CRDM position	3.5	1
201004 RSCS		T				Г						NOT Applicable to BNP	N/A	0
201005 RCIS												NOT Applicable to BNP	N/A	0
201006 RWM									х			A3.03 Monitor RWM alarms and ann.	3.1	1
202001 Recirculation												Not selected	N/A	0
202002 Recirculation Flow Control											х	2.1.2 Operator responsibilities	3.0	1
204000 RWCU							х					A1.09 Monitor vessel conductivity	3.0	1
214000 RPIS												Not selected	N/A	0
215001 Traversing In-core Probe								х				A2.02 effect of high drywell pressure	2.9	1_
215002 RBM												Not selected	N/A	0
216000 Nuclear Boiler Inst.												Not selected	N/A	0
219000 RHR/LPCI: Torus/Pool Cooling Mode												Not selected	N/A	0
223001 Primary CTMT and Aux.				Х								K4.06 design to maintain PC/SC D/P	3.1	1
226001 RHR/LPCI: CTMT Spray Mode												Not selected	N/A	0
230000 RHR/LPCI: Torus/Pool Spray Mode												Not selected	N/A	0
233000 Fuel Pool Cooling/Cleanup												Not selected	N/A	0
234000 Fuel Handling Equipment									х			A3.02 Refueling interlock operation	3.1	1
239001 Main and Reheat Steam												Not selected	N/A	0
239003 MSiV Leakage Control												NOT Applicable to BNP	N/A	0
241000 Reactor/Turbine Pressure Regulator												Not selected	N/A	0
245000 Main Turbine Gen. / Aux.			х									K3.02 Effect ot turb. trip on reactor press.	3.9	1
256000 Reactor Condensate		Х										K2.01 power supply to system pumps	2,7	1
259001 Reactor Feedwater	х											K1.04 Interrelationship with extract. Stm.	2.8	1
268000 Radwaste												Not selected	N/A	0
271000 Offgas												Not selected	N/A	0
272000 Radiation Monitoring				$\neg$	$\neg$					٦		Not selected	N/A	0
286000 Fire Protection												Not selected	N/A	0
288000 Plant Ventilation					x							K5.02 ventilation and D/P	3.2	1
290001 Secondary CTMT												Not selected	N/A	0
290003 Control Room HVAC					$\neg$	х	$\dashv$					K6.01 Effect of loss of power on HVAC	2.7	1
290002 Reactor Vessel Internals	П											Not selected	N/A	0
K/A Category Point Totals:	1	1		1			1		2	Ţ	1	Group Point Total:		12

ES-401 BWR Examination OutlineForm ES-4 Emergency and Abnormal Plant Evolutions - Ti	01-1 ier 1	l /Gro	oup	1 (S	RO	)			
E/APE # / Name / Safety Function	K 1	K 2	K 3	A 1	A 2	G	K/A Topic(s)	IR	#
295001 Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4							Not selected	N/A	0
295003 Partial or Complete Loss of AC / 6							Not selected	N/A	0
295004 Partial or Total Loss of DC Pwr / 6							Not selected	N/A	0
295005 Main Turbine Generator Trip / 3							Not selected	N/A	0
295006 SCRAM / 1							Not selected	N/A	0
295016 Control Room Abandonment / 7						Х	2.1.32 Explain precautions and limitations	3.8	1
295018 Partial or Total Loss of CCW / 8						х	2.4.30 Sys stat. requires report to outside agencies	3.6	1
295019 Partial or Total Loss of Inst. Air / 8							Not selected	N/A	0
295021 Loss of Shutdown Cooling / 4					х		AA2.01 Determine H/U cooldown rate	3.6	1
295023 Refueling Acc Cooling Mode / 8							Not selected	N/A	0
295024 High Drywell Pressure / 5						х	2.2.22 Knowledge of LCO and SL	4.1	1
295025 High Reactor Pressure / 3						x	2.4.6 Knowledge of EOP mitigation strategy	4.0	1
295026 Suppression Pool High Water Temp. / 5							Not selected	N/A	0
295027 High Containment Temperature / 5							NOT Applicable to BNP (Mark III containment ONLY)	N/A	0
295028 High Drywell Temperature / 5							Not selected	N/A	0
295030 Low Suppression Pool Wtr Lvl / 5					х		EA2.01 Interpret Low Supp Pool Level	4.2	1
295031 Reactor Low Water Level / 2					х		EA2.01 Determine reactor water level	4.6	1
295037 SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1					x		EA2.02 Interpret Reactor water level	4.2	1
295038 High Off-site Release Rate / 9							Not selected	N/A	0
600000 Plant Fire On Site / 8							Not selected	N/A	0
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K/A Category Totals:	0	0	0	0	4	4	Group Point Total:		8

ES-401 BWR Examination OutlineForm ES- Emergency and Abnormal Plant Evolutions -	401- Tier	1 1/G	roup	2(	SRO	<u>)</u>			
E/APE # / Name / Safety Function	K 1	K 2	K 3	A 1	A 2	G	K/A Topic(s)	IR	#
295002 Loss of Main Condenser Vac / 3							Not selected	N/A	0
295007 High Reactor Pressure / 3					х		AA2.03 Determine reactor water level	3.7	1
295008 High Reactor Water Level / 2							Not selected	N/A	0
295009 Low Reactor Water Level / 2							Not selected	N/A	0
295010 High Drywell Pressure / 5					L		Not selected	N/A	0
295011 High Containment Temp / 5							Not Applicable to BNP (Mark III Containment ONLY)	N/A	0
295012 High Drywell Temperature / 5							Not selected	N/A	0
295013 High Suppression Pool Temp. / 5							Not selected	N/A	0
295014 Inadvertent Reactivity Addition / 1							Not selected	N/A	0
295015 Incomplete SCRAM / 1							Not selected	N/A	0
295017 High Off-site Release Rate / 9							Not selected	N/A	0
295020 Inadvertent Cont. Isolation / 5 & 7							Not selected	N/A	0
295022 Loss of CRD Pumps / 1							Not selected	N/A	0
295029 High Suppression Pool Wtr Lvl / 5					х		EA2.02 Interpret Reactor Pressure	3.6	1
295032 High Secondary Containment Area Temperature / 5							Not selected	N/A	0
295033 High Secondary Containment Area Radiation Levels / 9							Not selected	N/A	0
295034 Secondary Containment Ventilation High Radiation / 9					x		EA2.01 Interpret vent radiation levels	4.2	1
295035 Secondary Containment High Differential Pressure / 5						x	2.4.4 Entry Level AOP/EOP	4.3	1
295036 Secondary Containment High Sump/Area Water Level / 5							Not selected	N/A	0
500000 High CTMT Hydrogen Conc. / 5	igdash				J		Not selected	N/A	0
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K/A Category Point Totals:	0	0	0	0	3	1	Group Point Total:		4

System # / Name	K	K	К 3	K 4	K 5	K 6	A	A 2	A 3	A 4	G	K/A Topic(s)	IR	#
03000 RHR/LPCI: Injection		_	Ĭ		Ŭ	v		_	Ť	_	х	2.4.30 Reportability	3.6	1
05000 Shutdown Cooling												Not selected	N/A	0
06000 HPCI												Not selected	N/A	0
07000 Isolation (Emergency) ondenser												NOT Applicable to BNP	N/A	0
09001 LPCS											х	2.1.33 Entry level tech specs.	4.0	1
09002 HPCS	_	_					$oxed{oxed}$		_	Щ		NOT Applicable to BNP	N/A	0
11000 SLC												Not selected	N/A	0
12000 RPS												Not selected	N/A	0
15003 IRM												Not selected	N/A	0
15004 Source Range Monitor	$\perp$											Not selected	N/A	0
15005 APRM / LPRM												Not selected	N/A	0
17000 RCIC												Not selected	N/A	0
18000 ADS	<u> </u>											Not selected	N/A	0
23002 PCIS/Nuclear Steam upply Shutoff												Not selected	N/A	0
39002 SRVs												Not selected	N/A	0
59002 Reactor Water Level												Not selected	N/A	0
61000 SGTS												Not selected	N/A	0
62001 AC Electrical											x	2.2.25 Knowledge of TS Bases	3.7	1
62002 UPS (AC/DC)												Not selected	N/A	0
63000 DC Electrical istribution												Not selected	N/A	0
64000 EDGs											×	2.4.22 Knowledge of prioritization	4.0	1
00000 Instrument Air												Not selected	N/A	0
00000 Component Cooling Vater												Not selected	N/A	0

System # / Name	K	K 2	K 3	K 4	K 5	K 6	A	A 2	A 3	A 4	G	K/A Topic(s)	IR	#
201001 CRD Hydraulic						Ľ			Ť			Not selected	N/A	0
201002 RMCS								Ť				Not selected	N/A	0
201003 Control Rod and Drive Mechanism												Not selected	N/A	0
201004 RSCS												NOT Applicable to BNP	N/A	0
201005 RCIS	Г											NOT Applicable to BNP	N/A	0
201006 RWM												Not selected	N/A	0
202001 Recirculation												Not selected	N/A	0
202002 Recirculation Flow Control												Not selected	N/A	0
204000 RWCU												Not selected	N/A	0
214000 RPIS												Not selected	N/A	0
215001 Traversing In-core Probe												Not selected	N/A	0
215002 RBM								х				A2.05 Predict impact RBM High or INOP	3.3	1
216000 Nuclear Boiler Inst.												Not selected	N/A	0
219000 RHR/LPCI: Torus/Pool Cooling Mode								x				A2.05 Predict impact of electrical failures	3.5	1
223001 Primary CTMT and Aux.												Not selected	N/A	0
226001 RHR/LPCI: CTMT Spray												Not selected	N/A	0
230000 RHR/LPCI: Torus/Pool Spray Mode												Not selected	N/A	0
233000 Fuel Pool Cooling/Cleanup												Not selected	N/A	0
234000 Fuel Handling Equipment												Not selected	N/A	0
239001 Main and Reheat Steam												Not selected	N/A	0
239003 MSIV Leakage Control												NOT Applicable to BNP	N/A	0
241000 Reactor/Turbine Pressure Regulator												Not selected	N/A	0
245000 Main Turbine Gen. / Aux.												Not selected	N/A	0
256000 Reactor Condensate												Not selected	N/A	0
259001 Reactor Feedwater												Not selected	N/A	0
268000 Radwaste												Not selected	N/A	0
271000 Offgas												Not selected	N/A	0
272000 Radiation Monitoring												Not selected	N/A	0
286000 Fire Protection												Not selected	N/A	0
288000 Plant Ventilation												Not selected	N/A	0
290001 Secondary CTMT							$\prod$					Not selected	N/A	0
290003 Control Room HVAC												Not selected	N/A	0
290002 Reactor Vessel Internals												Not selected		0
K/A Category Point Totals:	0	0	0	0	0	0	0	2	0	0	0	Group Point Total:		2

ES-401Gener	ic Knowle	edge and Abilities Outline (Tier 3) Form ES-401	-3						
Facility: Bru	ınswick	Date of Exam: 10/29/04	Date of Exam: 10/29/04						
Category	K/A #	Topic	RO		SRO-Only				
			IR	#	IR	#			
	2.1.23	Ability to perform specific system and integrated plant procedures	3.9	1					
1. Conduct of Operations	2.1.3	Knowledge of shift turnover practices.	3.0	1					
	2.1.11	Knowledge of less than one hour technical specification action statements for systems.			3.8	1			
	2.1.7	Ability to evaluate plant performance and make operational judgments based on operating characteristics			4.4	1			
	Subtota	l .		2		2			
	2.2.30	Knowledge of RO duties in the control room during fuel handling	3.5	1					
2. Equipment Control	2.2.4	(multi-unit) Ability to explain the variations in control board layouts	2.8	1					
	2.2.17	Knowledge of the process for managing maintenance activities during power operations.			3.5	1			
	Subtota	I		2	- 112	1			
3. Radiation Control	2.3.2	Knowledge of facility ALARA program.	2.5	1					
	2.3.4	Knowledge of radiation exposure limits and contamination control	2.5	1					
	2.3.10	Ability to perform procedures to reduce excessive levels of radiation	2.9	1					
	2.3.3	Knowledge of SRO responsibilities for auxiliary systems that are outside the control room			2.9	1			
	2.3.9	Knowledge of the process for performing a containment purge.			3.4	1			
	Subtota	I	7	3		2			
	2.4.34	Knowledge of RO tasks performed outside the main control room during emergency operations.	3.8	1					
4. Emergency Procedures / Plan	2.4.15	Knowledge of communications procedures associated with EOP implementation.	3.0	1					
	2.4.13	Knowledge of crew roles and responsibilities during EOP flowchart use.	3.3	1					
	2.4.28	Knowledge of procedures relating to emergency response to sabotage.			3.3	1			
	2.4.21	Knowledge of the parameters and logic used to assess the status of safety functions			4.3	1			
	Subtota	l .		3	_ V	2			
Tier 3 Point To	otal			10		7			

Tier / Group	Randomly Selected K/A	Reason for Rejection
T1/G1	295019 K1	No K1 Category for this K/A
T1/G1	295005 AA2.02	K/A Importance <2.5
T1/G2	295002AK3.03	NOT APPLICABLE TO BNP
T2/G2	204000K2	All K/A in category have importance <2.5
T2/G2	215001A2.03	K/A Importance <2.5
T2/G2	215001A2.05	K/A Importance <2.5
T2/G2	288000 A1	All K/A in category have importance <2.5
Т3	2.2.8	K/A Importance <2.5
Т3	2.2.15	K/A Importance <2.5
Т3	2.2.6	K/A Importance <2.5
Т3	2.2.17	K/A Importance <2.5
Т3	2.2.14	K/A Importance <2.5
T1/G2 RO	500000EA2.04	Unable to develop a question with any discriminatory value. Chief Examiner randomly sampled 500000EA2.03 on 9/29/04 for replacement.