		ord*	Orect Aris	Stion Avd.											"a"	"b"	"c"	"d"
	/ *		POINTS	59	64	61	66	61	61	60	61	64	64		а	U		u
1		а	100%	а	а	а	а	а	а	а	а	а	а		10			
2		d	100%	d	d	d	d	d	d	d	d	d	d					10
4		d a	90%	c a	d a	d a	d a		10		1	9						
5		a	100%	a	a	a	a	a	a	a	a	a	a		10			
6		С	100%	С	С	С	С	С	С	С	С	С	С				10	
7 8		b	100% 100%	b	b	b	b	b	b	b	b	b	b		10	10		
9		c	100%	c c	a c	c c	a c	c c	c c	c c	c c	c c	c c		10		10	
10		b	100%	b	b	b	b	b	b	b	b	b	b			10		
11		b c	100%	b c	b c	b c	b c	b	b	b c	b c	b c	b c			10	10	
13		а	100%	а	a	а	а	c a	c a	а	a	а	а		10		10	
14		С	100%	С	С	С	С	С	С	С	С	С	С				10	
15 16		b	100% 60%	b	b	b	b	b	b	b	b	b	b		1	10	G	2
17		c d	100%	d d	b d	d d	c d	c d	c d	a d	c d	c d	c d				6	10
18		а	30%	b	b	а	b	b	а	а	b	b	b		3	7		
19		b	100%	b	b	b	b	b	b	b	b	b	b		4	10	0	-
20		c a	90%	c a	c a	a a	c a	c a	c a	c a	c a	c a	c a		10		9	-
22		С	40%	a	С	b	а	b	a	С	С	С	b		3	3	4	
23		а	100%	a	a	a	а	a	a	а	a	a	a		10			_
24 25		d d	90%	d d	d d	d d	d d	d d	d d	a d	d d	d d	d d		1			9
26		С	30%	a	С	a	а а	d	С	a	a	a	С		6		3	1
27		С	100%	С	С	С	С	С	С	С	С	С	С			40	10	
28		b b	100% 80%	b b	<u>а</u>	b b	b b	b b	b b	b b	<u>а</u>	b b	b b		2	10 8		\dashv
30		d	100%	d	d	d	d	d	d	d	d	d	d		Ē			10
31		d	100%	d	d	d	d	d	d	d	d	d	d			-		10
32	Х	b	50% 50%	d a	b b	b b	c b	b с	b а	c b	a b	С	<u>а</u>		3	5 5	2	1
34		а	90%	a	а	а	а	а	a	С	а	а	а		9		1	
35		d	100%	d	d	d	d	d	d	d	d	d	d					10
36		a	100% 90%	a a	a a	a a	a a	d d	a a	a	a	a a	a a		10 9			1
38		d	70%	d	d	С	d	d	С	С	d	d	d		J		3	7
39		С	50%	d	С	С	С	d	d	С	d	d	С				5	5
40		a c	100% 90%	a c	a c	a d	a c	a c	a c	a c	a c	a c	a c		10		9	1
42		а	100%	а	а	а	а	а	а	а	а	а	а		10		U	
43		С	100%	С	С	С	С	С	С	С	С	С	С				10	
44		b b	100%	c b	c b	c b	c b	b b	b b	c b	c b	c b	c b			10	10	-
46		С	100%	С	С	С	С	С	С	С	С	С	С				10	
47		d	90%	d	d	d	d	а	d	d	d	d	d		1			9
48 49		a c	100% 90%	a c	a c	a c	a c	a c	а а	a c	a c	a c	a c		10		9	
50		b	70%	b	b	b	b	b	a	a	d	b	b		2	7		1
51		b	90%	b	b	b	b	b	b	a	b	b	b		1	9	40	
52 53		c d	100%	c d	c d	c d	c d	c d	c d	c d	c d	c d	c d				10	10
54		С	50%	d	а	С	b	С	b	С	С	С	b		1	3	5	1
55		а	10%	d	d	d	d	a	d	d	d	d	d		1		•	9
56 57		d	80% 70%	c d	d d	c d	C C	d d	C C	c d	C C	c d	c d				3	7
58		b	60%	а	b	b	b	а	b	b	d	b	а		3	6	-	1
59		b	50%	b	a	a	b	b	a	a	b	a	b		5	5		4
60 61		b c	20% 100%	a C	a c	b c	b c	a c	a C	a c	a C	a c	d c		7	2	10	1
62		а	70%	a	а	d	а	d	a	а	d	а	а		7			3
63		С	70%	С	С	d	С	С	С	d	С	С	d				7	3
64 65		c d	90%	c d	c d	a d	c d	c d	c d	c d	c d	c d	c d					10
66		С	100%	С	С	С	С	С	С	С	С	С	С				10	
67		а	100%	a	a	a	а	a	a	а	а	a	а		10		4	
68 69		С	10% 100%	d c	d c	d c	C C	d C	d C	a c	a c	d c	a C		3		10	6
70		а	90%	а	а	а	а	а	b	а	а	а	а		9	1		
71		а	90%	С	а	а	а	а	а	а	а	а	а		9		1	
72 73		b b	10% 0%	c d	a c	С	a c	d	b d	a c	С	С	a d		4	0	5 6	4
74		а	100%	а	а	а	а	а	а	а	а	а	а		10	Ĭ	ŭ	
75		d	100%	d	d	d	d	d	d	d	d	d	d					10
		50	ORE (%)	78.7	85.3	81.3	88.0	81.3	81.3	80.0	81.3	85.3	85.3	1				
		30	UNE (%)	10.1	00.3	01.3	00.0	01.3	01.3	00.0	01.3	00.0	00.0			Com	ect An	ewor
	75	Total	Points			10		†	Numbe	r of Stud	lents					COITE	JOI AII	>vvCl

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82.8	Average Score	60		Value for color change			

			orest Arishi	T AND														
0	destion be	ord*	Thect One	ston Avo.											"a"	"b"	"c"	"d"
1	76	b b	100%	17	21 b	19 b	20 b	-						-	<u> </u>	1		
2	77	d	75%	b	d	d	d	-						-		1		3
3	78	d	75%	С	d	d	d										1	3
4	79	а	75%	а	b	а	а								3	1		
5	80	d	100%	d	d	d	d											4
6	81	С	100%	С	С	С	С										4	
7	82	а	0%	С	С	С	С	- V			-				0		4	2
9	83 84	c d	50% 100%	d d	c d	d d	c d	V						-			2	4
10	85	b	100%	b	b	b	b									4		4
11	86	d	100%	d	d	d	d	-										4
12	87	b	100%	b	b	b	b									4		
13	88	С	100%	С	С	С	С										4	
14	89	b	100%	b	b	b	b	<u> </u>					ļ			4		
15	90 91	b	0% 50%	a	а	a	а	√ √			ļ			-	2	0		
16	92	a c	100%	a c	a c	b c	b C	V								2	4	
18	93	а	75%	С	а	а	а	-	<u> </u>		-			 	3		1	
19	94	С	75%	С	С	b	С									1	3	
20	95	С	25%	b	d	С	b	√								2	1	1
21	96	С	75%	а	С	С	С							ļ	1		3	
22	97 98	С	100%	С	С	C	С	-						-			2	_
23	98	С	50% 100%	C C	C C	d c	d C			-			-	-			4	2
25	100	d	100%	d	d	d	d	 					ļ	-			4	4
		SCC	ORE (%)	70.8	87.5	79.2	83.3											
	ļ	<u></u>									L			ļ		Corre	ect An	swer
***************************************	24	Total	Points			4			Numbe	r of Stud	lents			-				
	80.2	Avera	age Sco	re		60		-	Value fo	r color c	hange							
***************************************			9															
				76	85	80	86											
							22.2	ļ							-			
		SCC	ORE (%)	76.8	85.9	80.8	86.9											
		-												-			<u> </u>	
	99	SRO	Total Po	oints					Challen	ged Que	stions							
									Less tha	n requir	ed pass	rate						
	82.6	SRO	Average	Score				-							ļ			
	The qu	estion	was psy	/chometr	ically co	rrect and	correct a	sel level in as written	. The st	udents ir	ndicated	that they	were ur	nder	a mis	conce	ption	
18	to dete	rmine	accurac	y, not the	e effect o	f the cha	inge in te	ow range mperatur I what the	e and flo	w. Follo								
	This a	uestion	n dealt w	ith the re	sponse	of the HF	CI syste	m on an a	automati	c trip foll	owing a	manual i	nitiation.	The	gues	tion is	s	
22								answer.			-							
22			-			-		ss in the b		CI knowl	edge of	he stude	ents that	miss	ed thi	s que	stion.	Α
	follow-	up rem	nınder wi	II be sen	t to the s	tudents	concernir	ng this co	ncept.									
	This a	uestion	dealt w	ith action	s that sh	nould be	performe	d, given a	a set of o	condition	s. The	uestion	is psycho	omet	rically	corre	ect an	d
26	as writ	ten ha	s one co	rrect ans	wer. Th	e studen	ts could	provide th	ne reaso	ns why e	ach acti	on shoul	d be don	e, bu	ıt whe	n pre	sente	d
20						-		he correc						wea	kness	in th	e way	/
	they st	udied 1	tnis mate	erial. A f	ollow-up	reminde	r will be s	sent to the	e studen	ts conce	rning thi	s concep	it.					
								m the Op	-									
32								ted that the exam that										15
	-							v-up remi			-					-	20 0	
														_				
	This a	lestion	dealt w	ith the T	ech Sner	maximi	ım temne	erature fo	r SI C. T	he aues	tion was	challen	ned neve	hom	etrical	ly and	d as	
								students t										s
	willeli		at the are	ph did n	ot go ab	ove 100	deg. The	ey just co	uld not re	emembe	r what th	e values	was. Tl	he Pi	roced	ure fo	r SLC	;
		ew tha	9.0		vimum te	emperatu	re of 140	deg. Th	e studer	te that a	ot this qu	uestion o	orrect in	dinat	1 41	at they	y kne	N
33	and kn	USA	R specifi			and the USAR specifies a maximum temperature of 140 deg. The students that got this question correct indicated that they knew the value from the Precaution in the procedure. This may be a weakness in the way they studied this material. A follow-up reminder will be sent to the students concerning this concept. This question is being challenged in accordance with NUREG 1021,												
33	and kn and the the val	e USA ue fror	R specifing the Pre	ecaution	in the pr	ocedure.	This ma		eakness	in the w	ay they		his mate	rial.	A follo	ow-up		0.4
33	and kn and the the val remind	e USA ue fror er will	R specifing the Property the specific through the sent of the sent	ecaution to the sto	in the prudents co	ocedure.	This ma		eakness	in the w	ay they		his mate	rial.	A follo	ow-up		21,
33	and kn and the the val remind	e USA ue fror er will	R specifing the Property the specific through the sent of the sent	ecaution	in the prudents co	ocedure.	This ma		eakness	in the w	ay they		his mate	rial.	A follo	ow-up		21,
33	and kn and the the val remind to char	e USA ue fror er will nge the	R specifing the Property the Sent e answer	ecaution to the stu from "C	in the prudents of to "B".	ocedure.	This mag this cor		eakness nis questi	in the w	ay they	enged in	his mate accorda	rial. nce	A followith N	ow-up	G 102	21,
	and kn and the the val remind to char This qu occur.	e USAlue from er will nge the uestion The q	R specifi m the Probe sent be sent e answer	ecaution to the sto from "C ith the aftis psychological	in the prudents come to "B".	ocedure. oncerning at a loss of	This mag this cor of Rx Buil	ncept. Th	eakness nis questi able Air as one co	would ha	ay they ing chall ave on th swer. Th	enged in e ADS v e studer	his mate accorda alves if a	rial. nce v an ac nisse	A followith Naturation	n wou	G 102 uld tion	
33	and kn and the the val remind to char This qu occur. stated	e USAlue from er will nge the uestion The q	R specific the Property of the Sent the answer of the American Indiana (Sentence of the American Indiana (Se	to the storm "C from "C ith the aficis psychologised the	in the prudents of to "B". fects that ometrical air supplements	ocedure oncerning at a loss of ly correct y with the	This mag this cor of Rx Buil at and as	lding Reli written han	able Air	would had brrect and	ray they ing chall ave on the swer. The	enged in e ADS v e studer may be c	accorda alves if a nts that n	rial. nce v an ac nisse e way	A followith Naturation	n wou ques e-enfe	G 102 uld tion orce t	he
	and kn and the the val remind to char This qu occur. stated failures	e USAlue from er will ange the uestion. The question to the stothest to the st	R specific method the Property of the Property	to the store from "C ith the after speed the sinstructors."	in the prudents of to "B". fects that ometrical air supplors conce	at a loss of	This mag this cor	ncept. Th	able Air as one co	would had prrect an DS valve	ay they and they are on the swer. This air, because	e ADS vie studer	accorda alves if a als that n lue to the ing happ	rial. nce v an ac nisse e way	A followith Naturation	n wou ques e-enfe	G 102 uld tion orce t	he

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54	This question dealt with the definition of a symmetric rod pattern. The question is psychometrically correct and as written has one correct answer. The students that missed this question stated that they had not studied the definitions out of the procedures concerning rod motion. This may be a weakness in the way they studied this material. A follow-up reminder will be sent to the students concerning this concept.
55	This question dealt with RHR system valve alignments that would prevent intersystem LOCAs. The question is psychometrically correct and as written has one correct answer. The students that missed this question stated that they picked choice "D" because it sounded right. Many of the students remembered the reason way the 101 and 102 are never opened at the same time, because during an outage an operator drained water from one loop of RHR to the other drained loop by opening these valves.
59	This question dealt with the RHR system in Fuel Pool Cooling Assist and the affects a lowering flow would have on the ability to cool the fuel pool. The question is psychometrically challenged as written because the minimum flow valves are tagged closed during this evolution. It however has only one correct answer. The students that missed this question stated that they picked choice "A" because they knew that the minimum flow valves were tagged closed and that was the only other answer that could be right.
60	This question dealt with cycle efficiency and the effect the loss of extraction steam would have on reactor power and hotwell temperatures after an hour. The question is psychometrically correct and as written has one correct answer. The students that missed this question stated that they forgot that the A5 Feedwater Heater did not have a dump valve back to the condenser and therefore believed that raw steam would be rejected to the condenser, thus making the hotwell temperature rise. This may be a lack of fundamental knowledge on the steam cycle and as a result a follow-up reminder will be sent to the students concerning this concept.
68	This question dealt with LCO entry conditions. The question is psychometrically correct and as written has one correct answer. Distractor "D" was chosen because the students knew that RCIC has a surveillance for testing the MO-30 but failed to realize that it was not a surveillance for the RCIC system. This concept will be discussed with the students before they go on watch.
72	This question dealt with the requirements for monitoring occupational dose. The question is psychometrically correct and as written has one correct answer. There is a CNS requirement to have everybody wear a DRD and TLD when entering the RCA and the students considered that monitoring of occupational dose. They did not realize the difference between 10CFR20 requirements and CNS requirements. CNS is more restrictive and therefore they chose that answer.
73	This question dealt with the the requirement of an ALARA brief. The question is psychometrically correct and as written has one correct answer. The students stated that they did not think that this concept would be asked on an NRC Exam. They wer told that all radiological requirements are required knowledge and they understand that now.
82	This question dealt with the technical basis for the operability of the torus to drywell vacuum breakers. The question is psychometrically correct and as written has one correct answer. The students remembered the old reason given in the BWR EPGs concerning the upper region of the DWSIL graph, that was removed and the reason behind that removal elimiated the words implosion. This was a case where the students remembered old material versus the new material that was pressented during class. They all understand that now.
83	This question dealt with the Tech Spec requirements to be in MODE 3 on a failure to do a surveillance on the RPS High Pressure Scram sensors. The question is psychometrically correct and as written has one correct answer. The two students that missed this question stated that they made a math error.
90	This question dealt with the required procedure that is required to be entered on a total loss of off site power when one of the diesels is tied to their bus for testing. The question is psychometrically challenged as written. THe students felt that there was no correct answer so they picked the best one of the choices provided.
91	This question dealt with the a non-spiral off-load that was in progress and the SRM requirements per Tech Specs. The question is psychometrically correct and as written has one correct answer. The two individuals that missed this question stated that they did not full research the surveillance requirement and missed that the less than three count requirement did not apply. They now that now.
95	This question dealt with temporary alterations to the facility and the time limit requirement for 50.59 evaluation. The question is psychometrically correct and as written has one correct answer. This concept was not studied by the students and they have been instructed on that requirement during the exam review.
98	This question dealt with the Emergency Director's authorization of emergency dose. The question is psychometrically correct and as written has one correct answer. The two individuals stated that they had forgotten the exact requirement, but know where to find it, and just answered incorrectly. Emergency dose requirements were re-enforced with those two students again during exam review.
1	