Facility:	2010 Watts Bar Date of Examination:	8/23/2010
Examinat	ions Developed by: Facility NRC	
	Written / Operating Test	T
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	11/18/2009
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	3/24/2010
-120	3. Facility contact briefed on security and other requirements (C.2.c)	3/24/2010
-120	4. Corporate notification letter sent (C.2.d)	3/29/2010
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	7/09/2010
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	6/09/2010
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	6/19/2010
{-45}	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6), and reference materials due (C.1.e, f, g and h; C.3.d)	7/9/2010 (7/02/2010)
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.l; C.2.g; ES-202)	7/23/2010
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.1; C.2.i; ES-202)	8/9/2010
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	8/9/2010
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	8/9/2010
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	£8/16/2010
-7	14. Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 4; ES-202, C.2.e; ES-204)	8/16/2010
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	8/16/2010
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	8/16/2010

Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

[Applies only] {Does not apply} to examinations prepared by the NRC.



		T		
Item	Task Description		Initial	
1.	Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	n/a	b*	n/
W R I	 Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled. 	n/a	n/a	n/
T T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	n/a	n/a	n
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	n/a	n/a	n
2. S	 Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients. 	m	SRS	7
M U L A	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	pa	ን ጺ	A
O R	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	per	SRS	,
3. W / T	 a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form. 	M	5Rs	¥
	 b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations 	gan	5 _{R5} -	À
	 Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days. 	pp	5R5	\$
4.	 Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections. 	M	5 _R -	K
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	an	SRS	Ż
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	An	5 %	¥
R A	d. Check for duplication and overlap among exam sections.	Offi	SRS	¥.
L	e. Check the entire exam for balance of coverage.	Mr	TRS	X
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	'ph	SRS	Ľ.
c. NRC	y Reviewer (*) Steven R. Smith / Chief Examiner (#) Supervisor Supervisor		8/12/ 8/12/ 8/12/ 8/12/	

1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug 2010 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of $\frac{9}{123} - \frac{9}{12} \frac{1}{12} \frac{$

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE (2)	DATE NOTE
1. Darrell Herkley	Exam Lead	Daniel Steppelou	11/18/09	SEE PAGE 1.A
2. Wale Hoffman	Beam Writer	Wall Fox man	117/10 Hale 718 tman	9/27/10
3. JOHN B RODEN	EXAM WRITER	mus of Roller	117/10 John B. Bolen	12 / 10 gar 9/22/10
4. ROBERT N. GOOD	SIMULATOR MGR	Polot n: Cont	1/7/10 Klash 2/1/-	19/23/16
5. William G. Buckly	Simulatur East	Willer	1/7/10 talibat 1.	9/13/10
6.5 TEVEN THEORICK	SIMF	ATTIL MEDILICO	URID AROUN THORN CO	9/27/2010
7. Edward V Knowlaw C	sim Ens-	SIK SION	Malia War PerTeleer	9/23/2010
8. <u>Lukus S Barnes</u>	Reactor Engineer	1218	Oslistio La B	09/24/10
9. Stevan R Smith	OPS	3 Kalmed	34540 SRAmet	9-22-10
10. Ravala E Creus	_nPS	100	5/11/10	2-12-10
11. Steve Russell	OTPS Exelon / Corpaversight	Stalp A	5/11/10	SEE PAGE 1B
12. Paul OiGiovanna	INPO Sr. Evaluator	1200 Tun	s/u/ro	SEC PAGE IC
13. MICHAEL & LLEWELL	INPO ACCRES TEAM MANAGES	Missall Lundle	5 luko	SEE PAGE 10
14. Adam Neupord	UO validator	and Mark	5/19/10 Cla //	9/22/10
15. Gary Thompson	uo	Hary Thompson	5/19/10 Harry Thanks	9/22/18 9/23/10
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Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug alo (O as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the (artify licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the MRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 1/2-1/2/10. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE (2)	DATE NOTE
1. Darrell Hensley	Exam Lead	Daniel Spen by	Whalay Darall War Co	4963/10
2. Wake Hollman	beam writer	Mally Fixt Wan	11740	10.
3. Tehn B Rober	EXAM WAITER	Mile of Donas	117/10 John B. Proken	1 -11 por 0/21/10
4. ROBERT N. GOOD	SIMULATOR MER	7-60 11: 6-1	1/7110 Ken 91./-	10/11/14
5 GALLIGE G. BURLY	Simulatur Eur	6/h 1 5	Wife to like & My	9/45/10
65 TOWN THEMOCH	STMF	OTTE MICHAED	CIRIS	1/63/74
7. Edward V Karley CL	Sion Eng-	Silver -	thele	
8. Lodge S Barret	Rondon Empres	1218	agisto	*
9. Stevar & Smith	OPS	スメストーン	1-15-10 Thank	9-22-10
10 Randa E Cours	085	RECLER	Stulin C	
11. Steve Russell	ATPS Exalon Carpanish	State At	Child	2-12-0
12 Paul Oi Gibungana	DUPO Su. Evaluato	1200 B Zum	3/0/00	
13. MEMBEL & LLEWELL	INTO ACCALL TEAM MANAGE	Michael & Buille	Sitto	
14. Adam Neward	UO volulater	an Numb	5/19/10 ac/1/2	9/plu
15. irany Thomas	ปอ	Cory Ilmer	State Horn Though	Valle
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1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug 20 10 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC Ilcensing examinations administered during the week(s) of \(\frac{1}{22} - \frac{1}{23} \)/re. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE	
1. Darrell Henkley	Exam Lead	Daniel Sporly	11/18/09			
2. Lake Hoffman	Beam Writer	LOL FORTWEN	117110			
3. JOHN B RODGN	EXAM WRITER	Whe & Rollar	17/10	John B. Dorles	Startes par a	1-1
4. KOBERT N.GOOD	SIMULATOR MGR	Polot M: Col	1/7/10	11111	19/23/10	(#4//C
5. William G. Bugly	Simulatur Earl	When a b	3/2/20 6	1: lin de la	an glassina and and an arrival	
6.5 TENENT HOSPICK	SIME	Chin Medicie	LIBID	W NATO	9/65/18	27
7. Edward & Kaplane	Fim Ens -	SIKAMO-	- Italia	· · · · · · · · · · · · · · · · · · ·	·	
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9. Storah & Smith	OPS	333		Rameil	0.60 13	
10. Rossold E. Crans	_0PS	RECEIVE	SIN/10 X		9.22-10	
11 Steve Russell	OTPS Exalon /Corpanish	A Stale Al			8-22-67	
12. Pas 1.0 16-10-19-19-19	INPO Sv. Evaluator	2019/10-	sining	Steer Speed	9/25/100	9
13. MRHAEL & LLEWELL	THA ACCRES TEAM MANINGE	Mutall & Buille	5/4/0			
14. Foan Neuman	UO volidator	alle	5/19/10	(1/11/2	06-7	
15. Gary Thomason	uo	Hary Thomas		U 41	9/22/10	
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ES-201 Examination Security Agreement Form ES-201-3

1. Pro-Examination

i acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Aug 2010 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divelop to any unauthorized persons any information concerning the NRC licensing examinations administered during the weak(s) of 1/2-1/2. From the date that I entered into this security agreement until the completion of examination administerion, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

THE REPORT AND ADDRESS OF THE PARTY OF THE P	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
PRINTED NAME	JOB IIILE I RESPONSIBILITY	O SIGNATURE (1)		عاده الماحد لحا	DATE ROLL
1. Darrell Honeley	Exam Lead	Klarnell Show love	IIII OG		
2. Date Hoffman	Bam Welter	LIAIL FOOTMAN	1710		
3. JOHN B RODEN	EXAM WRITEL	was a portion	(17 /10	oh A follow	Alexant Par alex 100
4. ROBER N. GOOD	SIMULATOR MGR	Polost n: Gol	1/7/10 7	-Coto 91: 1-1	19/23/10
5. William G. Bually	Simulatur Exx	When a 4	Trike in	il I'M	9/60/10
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7. Edward & Kablene	sim Ens-	SHAMO-	Malza	•	
8. Later S Barnes	Reader Existen	1318	OBLISTED		
9. Storah & Smith	OPS	383	34540 2	Ramed	9-22-10
10. Rosald E Craus	OPS	RECLUE	Sivito K		9-12-77
11 Steve Russell	ATPS Exalon Compliant	the the At	दार्थ । व	00/00	
12 Par 1.0 16 1000 4 14	INFO BY. Evaluator	Final from	sintro 1	Al Jan	9/23/10
13 Michael & Lightelle	THE ASCREA TEAM HANDS	Michael & Shoulde	5/ulo		
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ES-201 Examination Security Agreement Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC ficensing examinations scheduled for the week(s) of Aug 2010 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 3/2 - 1/2 for the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE	
18	urell Heixley	Exam Lead	Daniel Herrilay	11/18/09	*		
				17/10			
	ale Hoffman	beam writer	Male Town		<u> </u>		
3. 3	HN B RODGN	EXAM WRITER	May 3 Dollar	117 /10	who B. Perken	CHANGE FOR	9/22/10
	ORERT N. GOOD	SIMULATOR MGR	Tolan M: Con/1	1/7/10 %	Lat 11. / -1	19/23/10	(* *)) *
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10.13	and E Creus	OPS	DEC	SIN/O K	2	9-22-50	
11.5	teve Russell	OTPS Evalor Corplanish	Statulet	411/10	3 30		
12. 6	au 1.0ibiougyny	INPO Sr. Evaluator	1200 Trans	SINITO			
13. <u>/K</u>	KHAES & LLEWELL	INFO ACCRES TEAM MANAGES	Mirall & Budley	5luko 1	Who the	9/23/10	
14£	dan Neward	UC volidator	an Ni	5/19/10	UN TO	9/22/10	
15 <u>\</u>	13My Thompson	ilo	Hary Thompson	<u>ड्राज्याव</u>	Hary Thanks	9/23/0	
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1. Pre-Examination

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2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 123-1/1/12 From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. GAZGORY EVANS	SRO OPS sup supt	13	5/20/10	15	9-23-10
2. Bry Johnson	<u>5</u> M	9	5/21/10	4/1	9-23-10
3. Thomas Husta	Unit Operator	o act of the	5/22/10 /	Allege Lil	922-10,
4. Scott Silvers	SRO CErt	Destriction	> 29 /2010 (A)	Hertelico	91,27/2010
5. Rue Bouring	<u>Spo</u>	Lowling	5/29/2016	Thouling	4/23/2010,
6. Johnnie D Hapris	<u>RO</u>	Johnson D Harris	5/30/10	20 paux	9/23/10
7. CHAIS RICE	Sno	El m	02/04/10		05-28-10
8. Russell Joplin	Progmak EXAMS	8-1-11	6/7/100	ale h	SEE PAGE 2A
9. MATTEN MILLER	SRD VALIDATOR	7 TO TAKE	4/15/10		9/20%
10. Bree Collins	SE VALIDATOR	Back	6-19-1-	OPU Francis	9/23/20/0 SEE PANE 2B
11. BRIAN MELNAY	SPO	3520	6-21-10	sicul	9/22/10
12. JAWS MARTIN	RC	Charles .	6-23-10 <	21/20	9.2210
13. NILS C STENGEL	Simulator Engineer	Dito O Stand	6-2840 1	Mencel	9/22/10
14. TIMOTHY D. LONG	SPO	(1600)	8-2-10	Hara).	9/23/10
15. Sean M. Moblen	Ro	Jean mobber	8-2-10	an Dravy	7240
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Form ES-201-3

1. Pre-Examination

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2. Post-Examination

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			as specifically noted
PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	
1. GAZORY EVANS	São ops sup supt		DATE SIGNATURE (2) DATE NOTE
3. Thomas Hoka	. <u>_5</u> M	4/1	5/20/10 9-23-10
4. Scall Silvers	Sho Cert	head Malieno	C121/m 1/1 1/1 9-23-10
6. Johnne D. Hapris	Sto RO	Conting	\$ 12 700 Garling 9/23/200
HAIS RICK	SNO	John D Harris	5/10/10
8. Kussell Joplin	The VALLATION	2-1-Th	6/2/10 804/1/ 65
10. Bran Mering	SE VATATOL		4/15/10 3/2010
12. JAKES MARTIN	SKO .	Sun	6-14-10 Back
13. NILS C STENGEL 14. THUOTHY D. LANG	Simulator Engineer	D. J. A.	G-23-10 1/22/10
15. Scan M. Moblen	_ SPO _ Ro	(1865)	6-28-70 16 June 9/24/10
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1. Pre-Examination

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2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 8/13 - 1/21/10. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
		Blitten	8/15/10	ROLLAS	9/22/0
2. TETRY SEYLOW	SRO- Unit Super UZIOR	-5M	87970	398	9/26/10
4. BRIAN KAYE	OPS INSTRUCTOR	Roger by	8/21/10	13m 6 /2	9/23/10
6. HARRY Voiles	OPS INSTANCTOR	Mange J. Vole		Ham Filel	9/27/20/0
8. MICHAR VETERSO	Ols instructor	WMDI	8/13/20		9/2/10
9. Michael York	UPS INSTRUCTOR	-wagen!	6/43/1007	Melany	_9/23/10 _9/23/10
10. JOHN DACTON 11. William Thompson	TRUE MAK	warten	8.23.10	Walter	9/22/16 9/21/10
12 Graying Wallace	OBS- US	1 Control	8-24-6	Sull fo	9-23-10
14. Adam Sealas	We manaler	The store	9 17410	Odams Die	9/22/10
15. Jeinga D.B. NOTES:	SIUP	1	9/9/10/K		SEE PART 3 A
		/ (/	7/7/10		

ES-20	01	Examination Security Agreement
1.	Pre-Examination	Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of AUG 2010 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 8/12 - Mayo. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted

1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 23 - 4//o as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. <u>Post-Examination</u>

9/22/10/0

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 12-4-4-5 From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. KR SKUBISZ	us/stA	07	8/25/10	0	9/23/10
2. M.T. McFADDON	ORS MNGA	SOME	- 8/2 AW	Cat X	7-23-10
3. BILL SPRINKLE	SM	214111	8/30/10	SAMB	9/22/10
4. Alan Hawborch	OB Instructor	MINGET	8/31/10	MIKE	9/23/4
5. NEAL SANBORN	of Tuestructer	Alfair D	8/3/10	alas sau	वीळी0
6. Benjamin P. Hunt	OPS SUPT	- H	9/1/10	Billet	9/23/10
7. DENTOR. JACKSON		Oxiv	39/0V10 (QA 192/100
8. Billy Johnson	3M	1482	9/3/10	RIL	9-23-10
9. 32 Sw 1 768	SM	E THE	9/3/00 2	Salaro	9/23/10
10. DEGNESER	W	# 1	413/m B		9/23/10
11.5 6 81004	mon vilasinb	91	9/1/10	Ve- 0	SEE PAGE 4A
12. Ricky C. King	Ops Instructor	1 Rac V	9/6/10 3	2. C. V.	9(22/0
13. DANIEL W. BARRER	OPS INSTRUCTOR	(Ganil N. Barker	9/8/10	Dano Son Buker	9/23/10
14. JOSH BOWMM	0P3 Instruction		9/1/1/		9/24/10
15. William Dimond	OPS Instructor	With Damond	1810 W	allo 1/5	9/13/10
NOTES:		16			

Form ES-201-3

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \(\frac{9}{23} - \frac{9}{10}\) as of the date of my signature. I some that I will not knowledge about the NRC licensing examinations scheduled for the week(s) of \(\frac{9}{23} - \frac{9}{10}\) as of the date. of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 2/23 - From the date that I entered into this security agreement until the completion of examination administration, I did not Instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

1. KR SKUBIST US/STA 2. M.T. M. GOODM OR MAKE SHIP SHIP SIGNATURE (1) 3. BILL SPRINKEE SM 4. Agan Hawker Or Instructor 5. NEAR SHIP OF SUPERIOR OF SUPERIOR 6. FRANKMIN T. HUNT OF SUPERIOR 7. OF TOUR SUPERIOR 8. BILL JOHNSON SM 9. IN JOHNSON SM 10. DEGNESSER SM 11. J. U SAPER OPS INSTRUCTOR 12. RICKY C. KINY OPS INSTRUCTOR 13. DANIEL W. BARRER OPS INSTRUCTOR 14. TOTAL REMARKAN OF TAXIONALM 14. TOTAL REMARKAN OF TAXIONALM 15. DANIEL W. BARRER OPS INSTRUCTOR 16. DANIEL W. BARRER OPS INSTRUCTOR 17. DANIEL W. BA	DSIDM SITU SUITOTIZED BY THE TH				CICMATURE (2)	DATE NOTE
1. KR SKUBIST 2. M.T. M'GROOM 3. BILL SARINKEE 5. MEAL BANKORN 6. FRINTON OF THEOREM 7. ONTOR JACKS 1. JULY JOHNSON 8. DILL JOHNSON 9. JULY JOHNSON 11. JULY JOHNSON 12. RICKY C. KINGY OPS INSTRUCTOR 13. DANIEL W. BARRER 9. JULY JOHNSON 9. JULY JOHN	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)		SIGNATORE (2)	27.1.2 (32.3)
13. DANIEL W. BARRER OPS INSTRUCTOR THE PROPERTY OF THE PROPER	1. KR SKUBIST 2. M.F. M. GARDON 3. BILL SPRINKLE 4. Alan Hawheren 5. NEAL SRNEARN 6. FRANKORN 7. OFFER JOHNSON 9. SALVED ITER 10. DECASSER 11. JUSIARD	US/STA OBS MNGR OBS Indexedor OBS Tructuredor OBS SUP! US/STA SM SM OPS INSTRUCTOR OPS INSTRUCTOR OPS INSTRUCTOR	SIGNATURE (1)	8/27/w 8/30/10 8/31/10 9/11/D 9/31/10 9/31/10 9/31/10 9/31/10	SIGNATURE (2)	9/12/10 9/23/10 9-23-10 9-23-10
NOTES:	13. DANIEL W. BARRER 14. John Rommond 15. William Dimond	OPS Instruction	With Drown	2/3/10	wat for	9-13-10

5

1. <u>Pre-Examination</u>

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 23 /12 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of $\sqrt{23 - 4/21/2}$. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1 (Source N. ARTIS	UNITSUP/STA/WCE SHO	Were not	-9/8/10	from ACC	79/23/1p
2	DARRYL D Rector	OBLOR Instructor	W Rests	9/8/10	Fill to	1/23/10
3	Albert V. White	OPILOR Instructor	albert V white	9/8/10	albert V White	9-23-10
4.	Carl M. de Blook	OPS LOR Instructor	JAN THE dottell	9/8/10	Jan Wale Black	9/23/10
5.]	DUALD W. JANIEZ J	54.	1) ong ale i meil	% 10 ·	Donat les aut	9/es/10 922/0
6. 📑	HARRY N. Colahan	US/STA	ofte	9/19/10	a ce	922/0
7	Terry C. Newman	It Instructor	my Jewnan	9/10/10	Sery Cure	9/01/10
8	Pale & Turintti	Walk ILT instructor	Walt Turk	9/22/10	Walt Ton D	0/22/10
ID 9. 🛓	gray H Calabane	G. C.				7
10			<u>0±8</u>			
11		<u>.</u> 1				22
12					=	
13	5					
14		LIT				
15						
NO	ΓES:		\$/.			

Administrative Topics Outline

Form ES-301-1

Facility: <u>Watts Bar</u> Examination Level: RO ⊠ S	₹0 🗆	Date of Examination: <u>August 2010</u> Operating Test Number: <u>NRC Exam 1</u>					
Administrative Topic (See Note)	Type Code*	Describe activity to be performed					
Conduct of Operations	M, R	A.1-1 Determine Values for Raising RWST Level. 2.1.23 Ability to perform specific system and integrated plant procedures during all modes of plant operation. (41.10 / 43.5 / 45.2 / 45.6) 4.3/4.4.					
Conduct of Operations	N, R	A.1-2 Determine RCP Start Requirements. 2.1.32 Ability to explain and apply system limits and precautions. (41.10/43.2/45.12) 2.7/3.5.					
Equipment Control	M, R	A.2 Review 1-SI-0-4, "Monthly Surveillances." 2.2.12 Knowledge of surveillance procedures. (41.10 / 45.13) 3.7/4.1.					
Radiation Control	M, R	A.3 Determine if Stay Times Exceed Emergency Exposure Limits. 2.3.4 Knowledge of radiation exposure limits under normal or emergency conditions. (41.12 / 43.4 / 45.10) 3.2/3.7.					
Emergency Procedures / Plan		Not Required.					
		ROs. RO applicants require only 4 items unless they are ics, when all 5 are required.					
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected)							

RO Admin JPM Summary

- A.1-1 The applicant performs the calculations necessary to determine the amount of primary water, and the amount of boric acid solution required to raise RWST volume by 3000 gallons while maintaining a 3100 ppm concentration in the RWST.
- A.1-2 The applicant determines from the data provided, that RCP #2 should be started first, and the earliest time to start the pump is 1742.
- A.2 The applicant reviews a partial performance of 1-SI-0-4, "Monthly Surveillances," identifies five errors and determines the actions required to be taken for each of the errors.
- A.3 The applicant calculates the total dose received performing the assigned tasks to be 23.3 Rem, and then determines that personnel receiving emergency or accident exposures should be restricted from further occupational exposure pending the outcome of exposure evaluations and, if necessary, medical surveillance
- A.4 Not Required.

FILM

ES-301

Administrative Topics Outline

Form ES-301-1

Facility: Watts Bar Examination Level: RO S	RO ⊠	Date of Examination: <u>August 2010</u> Operating Test Number: <u>NRC Exam 1</u>					
Administrative Topic (See Note)	Type Code*	Describe activity to be performed					
Conduct of Operations	M, R	A.1-1 Determine Values for Raising RWST Level. 2.1.23 Ability to perform specific system and integrated plant procedures during all modes of plant operation. (41.10 / 43.5 / 45.2 / 45.6) 4.3/4.4.					
Conduct of Operations	N, R	A.1-2 Determine RCP Start Requirements. 2.1.32 Ability to explain and apply system limits and precautions. (41.10/43.2/45.12) 2.7/3.5.					
Equipment Control	N, R	 A.2 Determine a Technical Specification Completion Time Extension. 2.2.42 Ability to track Technical Specification limiting conditions for operations. (41.10 / 43.2 / 45.13) 3.1/4.6 					
Radiation Control	M, R	A.3 Determine if Stay Times Exceed Emergency Exposure Limits. 2.3.4 Knowledge of radiation exposure limits under normal or emergency conditions. (41.12 / 43.4 / 45.10) 3.2/3.7.					
Emergency Procedures / Plan	M, R	 A.4 Determine if conditions warrant a Follow-up Report or Upgrade based on changing conditions. 2.4.40 Knowledge of SRO responsibilities in emergency plan implementation. (CFR: 41.10 / 43.5 / 45.11) 2.5/3.3. 					
NOTE: All items (5 total) are retaking only the admi	equired for S	ROs. RO applicants require only 4 items unless they are ics, when all 5 are required.					
* Type Codes & Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retal (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected)							

SRO Admin JPM Summary

- A.1-1 The applicant will perform the calculations necessary to determine the amount of primary water, and the amount of boric acid solution required to raise RWST volume by 3000 gallons while maintaining a 3100 ppm concentration in the RWST.
- A.1-2 The applicant determines from the data provided, that RCP #2 should be started first, and the earliest time to start the pump is 1742.
- A.2 The applicant evaluates the information presented and determines the LATEST date and time that Unit must be placed in Mode 4 based on the information presented.
- A.3 The applicant calculates the total dose received performing the assigned tasks to be 23.3 Rem, and then determines that personnel receiving emergency or accident exposures should be restricted from further occupational exposure pending the outcome of exposure evaluations and, if necessary, medical surveillance
- A.4 The applicant evaluates changes to plant conditions, determines that an upgrade from a Site Area Emergency to a General Emergency is required, prepares forms for emergency notification, and initiates Protective Action Recommendations.

Control Room/In-Plant Systems Outline

Form ES-301-2

Facility: Watts Bar Date of Examination: August 2010

Exam Level: RO SRO-I SRO-U Operating Test Number: NRC Exam 1

(Bolded JPMs are SRO-U.) (Italicized JPM is RO only.)

Control Room Systems[®] (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)

	System / JPM Title									
 a. Perform a Minor Dil 004 A Chemical and 	ution. Volume Control System (4.07, 3.9/3.7).	A, M	1							
b. Fill Cold Leg Accumu 006 Emergency Core	ulator #4. cCooling System (A4.07, 4.4/4.4).	M, L	2							
c. Perform ES-1.3 Trai 011 Large Break LOC	nsfer to Containment Sump. CA (EA1.11, 4.2/4.2).	EN, M	3							
d. Respond to 1A RHR 025 Loss of Residual	pump trip per AOI-14. Heat Removal System (AA1.09, 3.2/3.1)	D, L	4P							
e. Respond to a PRT H 007 Pressurizer Relie	igh Pressure alarm. ff Tank/Quench Tank (A4.10, 3.6/3.8)	A, M	5							
f. Shutdown of DG fro 064 Emergency Dies	om Main Control Room. el Generators (A4.01, 4.0/4.3).	C or S, A, EN, M	6							
_ -	emperature Channel to Service. rumentation System (A4.01, 2.9/2.8).	A, N	7							
h. Shutdown Instrument 029 Containment Pur	t Room Purge. ge System (A2.03, 2.7/3.2).	C or S, N	8							
In-Plant Systems [@] (3	for RO); (3 for SRO-I); (3 or 2 for SRO-U)									
	2-81, CVCS LETDOWN HX PRESS CNTL, for local control. lume Control System (A1.11, 3.0/3.0).	D, R	2							
	rbine Building Distribution Board 1 from Normal to Alternate. tribution System (K4.02. 2.9/3.2).	D	6							
k. Local Restart of C&S 065 Loss of Instrumen	SS Air Compressors. nt Air (AK3.08, 3.7/3.8).	A, D, E	8							

@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.

*Type Codes	Criteria for RO / SRO-I / SRO-U
(A)Iternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA	4-6 / $4-6$ / $2-3$
(R)CA (S)imulator	≥1 / ≥1 / ≥1

Control Room/In-Plant System JPM Summary

- B.1.a Applicant aligns the CVCS system to accomplish a minor dilution using SOI-62.02, "Boron Concentration Control," Section 6.6, "Minor Dilution." When the dilution is initiated, 1-FCV-62-128, MAKEUP TO VCT INLET, and 1-FCV-62-143, PW TO BLENDER, fail open. The operator enters AOI-3,"Malfunction of Reactor Makeup Control," and terminates the dilution by stopping the primary water pumps.
- B.1.b Applicant adds water to the cold leg accumulator with reactor coolant system pressure at approximately 1520 psig. The lower RCS pressure requires a different alignment to be established during the filling process.
- B.1.c Applicant aligns the ECCS systems to the Containment Sump. The applicant identifies the failure of 1-FCV-63-3, "SI PMPS RECIRC HDR TO RWST" to close and the failure of 1-FCV-63-11, "RHR PMP B TO SI PMPS SUCT" to open, and takes required compensatory actions.
- B.1.d THIS JPM IS DESIGNATED AS THE "RO ONLY" JPM.
 - The applicant responds to the trip of 1A-A RHR pump in accordance with AOI-14, "Loss of RHR Shutdown Cooling," Section 3.5, "RHR Pump 1A-A Trip" and places the 1B-B RHR pump in service.
- B.1.e The applicant uses ARI 88-C actions to reduce PRT pressure to 6.5 psig and then diagnoses the failure of PZR PORV 1-68-334 open, and terminates the depressurization by placing 1-HS-68-332A BLOCK VALVE FOR PORV 334 in the CLOSED position.
- B.1.f This JPM may be performed either in the Main Control Room or on the Simulator.
 - During a normal shutdown of the 1B-B Diesel Generator from the Control Room, the applicant determines that an emergency stop of the diesel generator is required upon receipt of annunciator 203-D, "CRANKCASE PRESS HI" and performs an emergency stop of the 1B-B Diesel Generator.
- B.1.g The applicant returns Loop 2 RCS Tavg and ΔT inputs to the rod control system, using AOI-2, "Malfunction of Reactor Control System." When rods are returned to automatic, a continuous rod bank withdrawal occurs. The applicant initiates a manual reactor trip upon diagnosis of the continuous rod bank withdrawal.
- B.1.h This JPM may be performed either in the Main Control Room or on the Simulator.
 - The applicant shuts down the instrument room purge using SOI-30.02, "Containment Purge System," Section 7.6, "SHUTDOWN of Instrument Room Purge."
- B.1.i The applicant performs the manual actions required to bypass PCV-62-81, LETDOWN PRESS CONTROL in accordance with SOI-62.01 Section 8.15.
- B.1.j The applicant completes the transfer of 250V DC Turbine Building Distribution Board #1 from its Normal to Alternate supply per SOI-239.01, "250V Battery Board 1," Section 8.7.1, "Transfer from Normal to Alternate."
- B.1.k After a station blackout, the applicant aligns and restarts the "A" and "B" Air Compressors using AOI-10, "Loss of Control Air." Recovery of the "A" Control and Station Air Compressor requires the reset of the high air temperature alarm, and hand loading of the compressor after restart.

Facility:	: Watts Bar Date of Examination: 08/2010 Operating Test Number: 1			
4	1. General Criteria		Initial	s
	1. General Officia	а	b*	c#
а.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	Jan	Jes	R
ь.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	m	FG	AL.
C.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	pm	242	版
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	m	585	N.
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	M	20-	W
	2. Walk-Through Criteria			_
a. b.	Each JPM includes the following, as applicable: initial conditions initiating cues references and tools, including associated procedures reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee operationally important specific performance criteria that include: detailed expected actions with exact criteria and nomenclature system response and other examiner cues statements describing important observations to be made by the applicant criteria for successful completion of the task identification of critical steps and their associated performance standards restrictions on the sequence of steps, if applicable Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	m	5kg	A A
	3. Simulator Criteria			
The asso	ciated simulator operating tests (scenario sets) have been reviewed in accordance with -301-4 and a copy is attached.	m	茶	A
a. Aut b. Fac c. NR	Printed Name / Signature	Pate // 2 // 10 // 20/0))	124
NOTE:	* The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.			

Facilt	y: Watts Bar Date of Exam: 08/10 Scenario Numbers: 1/2/3/4/5/SPA	RE Operating Test N	o.: 1							
		Initials	Τ "							
1.	The initial conditions are realistic, in that some equipment and/or instrument	ofice seems be and	a	b*	c#					
1.	pe	PB	K							
2.	The scenarios consist mostly of related events.	pm	242	A						
3.	m	75								
4.	 No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event. 									
5.	The events are valid with regard to physics and thermodynamics.		an	525	册					
6.	eam to obtain	m	Tes	A						
7.	m	FG	ff							
8.	The simulator modeling is not altered.	BM	585	M						
9.	simulator evaluated narios.	m	JB	Af						
10.	Every operator will be evaluated using at least one new or significantly modi All other scenarios have been altered in accordance with Section D.5 of ES-	fied scenario. 301.	m	IB.	A					
11.	All individual operator competencies can be evaluated, as verified using For (submit the form along with the simulator scenarios).	m ES-301-6	m	1B	A					
12.	Each applicant will be significantly involved in the minimum number of transspecified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	m	瑶	XA.					
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	an	5 RS	D					
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes		-	1					
1.	Total malfunctions (5–8)	8/8/8/7/6/7	AR	Ses	B					
2.	Malfunctions after EOP entry (1-2)	2/2/1/2/1/2	M	Jes	A.					
3.	Abnormal events (2–4)	4/4/4/4/4/4	M	7R5	#					
4.	Major transients (1–2)	2/2/2/1/1/1	100	585	All					
5.	EOPs entered/requiring substantive actions (1–2)	1/2/1/1/1/2	M	515	A					
6.	EOP contingencies requiring substantive actions (0-2)	0/1/1/0/1/1	Me	SRS	H					
7.	Critical tasks (2–3)	2/4/2/4/3/2	for	Ses	A					

Facility: V	Vatts Ba	r	Date of Exam: August 2010 Operating Test No.: Crew 1														
Α	E		***					Sc	enarios								
P P	V E	Sc	enario	1	Scenario 2						Т		М				
L	N													0 T		I N	
1	T	l	CREW			CREV		1	CREW		l	CREW		A		IN I	
C A	T		OSITIO	,		OSITI			OSITIO	N 		OSITIC		L		M	
N	Ÿ	S R	A T	В	S R	A T	В	S	A T	В	S R	A T	В			U	
Т	P E	O	Ċ	Р	0	Ċ	P	0	c	O P	0	Ċ	O P		R	M(*) i	U
RO	RX													0	1	1	0
SRO-I-1	NOR	1			1				10000		2/2			2	1	1	1
	I/C	2,3,4,5			2,3,4,5									8	4	4	2
SRO-U	MAJ	6			6		104	1-1-1-1						2	2	2	1
	TS	2,3			2,3,4									5	0	2	2
RO-1	RX	3.05-56	1											1	1	1	0
SRO-I	NOR						1							1	1	1	1
	I/C		2,5				2,3							4	4	4	2
SRO-U	MAJ	100	6				6							2	2	2	1
	TS			150										0	0	2	2
RO-2	RX	ă.				1								1	1	1	0
SRO-I	NOR			1										1	1	1	1
	I/C			3,4		4,5								4	4	4	2
SRO-U	MAJ			6		6								2	2	2	1
	TS													0	0	2	2
RO	RX														1	1	0
SRO-I	NOR														1	1	1
	I/C														4	4	2
SRO-U	MAJ														2	2	1
	TS														0	2	2

- 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 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 Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
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- 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.

Facility: Watts Bar Date of Exam: August 2010 Operating Test No.: Crew 2																	
А	E							Sc	enario	S							-
P P	V E	Sc	Scenario 1			cenari	io 3	s	cenario) 4				Т	l	М	
	N													0		1	
	Т	۱ ۱	CREW			CREV	٧		CREW	<i>'</i>		CREW	1	T A		N	
С	_	PC	OSITIO	N	P	OSITI	ON	P	OSITIC	N	Р	OSITIC	N			M	
A N	T Y	S	Α	В	S	Α	В	S	Α	В	S	Α	В	-	1	U	
T	P	R O	C	O P	R	T C	0	R	T	0	R	T	0			M(*	'
	E	0			0		Р	0	С	Р	0	С	Р		R	1	U
RO	RX					1								1	1	1	0
SRO-I-1	NOR	1						1						2	1	1	1
	I/C	2,3,4,5	1000			3,4		2,3,4,5						10	4	4	2
SRO-U	MAJ	6	2 - 1			7		6						3	2	2	1
	TS	2,3			4.7			2,3	100					4	0	2	2
RO	RX	1.0					100		1					1	1	1	0
SRO-I-2	NOR				1									1	1	1	1
O/(O-1-2	I/C			4	2,3,4,5,6				2,3			444		8	4	4	2
SRO-U	MAJ		10.02		7				6					2	2	2	1
	TS	i je sast			2,4									2	0	2	2
RO-3	RX		1											1	1	1	0
SRO-I	NOR	1					1			1				2	1	1	1
31.0-1	I/C		2,5			1	5,6	11.55		4,5				6	4	4	2
SRO-U	MAJ		6				7			6				3	2	2	1
	TS													0	0	2	2
RO	RX														1	1	0
SRO-I	NOR														1	1	1
51.0-1	I/C														4	4	2
SRO-U	MAJ														2	2	1
	TS														0	2	2

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Facility: \	Vatts Bar	•	Date of Exam: August 2010 Operating Test No.: Crew 3														
Α	E							Sc	enario	s							
P P	V E	Sc	enario	1	S	cenari	io 3	s	cenario	4				Т		М	
L	N													0 T		l N	
C	T	1	CREW			CREV			CREW			CREW		Å		1	
A	Т Т		OSITIO		<u> </u>	ITISC			OSITIC	ı		OSITIC	·	L		М	
N	Υ	S R	A T	В	S R	A T	В О	S R	A	В	S R	A	В			U M(*	١
Т	P E	0	Ċ	P	0	Ċ	P	Ô	c	P	Ö	Ċ	P		R	Ti	<i>)</i> U
RO	RX					1								1	1	1	0
SRO-I-3	NOR	1						1						2	1	1	1
00011	I/C	2,3,4,5	40.0			3,4		2,3,4,5						10	4	4	2
SRO-U	MAJ	6				7		6						3	2	2	1
	TS	2,3						2,3						4	0	2	2
RO	RX								1					1	1	1	0
SRO-I-4	NOR				1									1	1	1	1
	I/C			4	2,3,4,5,6				2,3	10.00		0470		8	4	4	2
SRO-U	MAJ	10.00			7				6					2	2	2	1
	TS			Terbelli it il Prosesso	2,4									2	0	2	2
RO-4	RX	1624	1						4.17					1	1	1	0
SRO-I	NOR						1	1000		1				2	1	1	1
	I/C		2,5			17	5,6			4,5				6	4	4	2
SRO-U	MAJ		6				7			6				3	2	2	1
	TS				10.6									0	0	2	2
RO	RX														1	1	0
SRO-I	NOR														1	1	1
	I/C														4	4	2
SRO-U	MAJ														2	2	1
	TS														0	2	2

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Facility: V	Vatts Baı	Date of Exam: August 2010 Operating Test No.: Crew 4										4	-				
Α	E																
P P	V E	Sc	enario	2	S	cenari	io 3	s	cenario	5				Т		М	
Ľ	N													0		1	
I	T	ļ	CREW			CREV			CREW	'		CREW	1	T A		N	
C	_	PC	OSITIO	N	P	OSITI	ON	Р	OSITIC	N	P	OSITIC	N	Ĺ		M	
A N	T Y	S	Α	В	S	Α	В	S	Α	В	S	Α	В			U	
T	P	R O	T C	O P	R	T C	O P	R	C	0	R	T	0			M(*	1-
	E	0		F		C	Р	0		Р	0	С	Р		R	ľ	U
RO	RX								1					1	1	1	0
SRO-I-5	NOR	1												1	1	1	1
	I/C	2,3,4,5	a t				6		2,3					7	4	4	2
SRO-U	MAJ	6							6					2	2	2	1
	TS	2,3,4												3	0	2	2
RO	RX		1											1	1	1	0
SRO-I-6	NOR				1									1	1	1	1
	I/C		4,5		2,3,4,5,6					4				8	4	4	2
SRO-U	MAJ		6		7									2	2	2	1
	TS			7 6	2,4									2	0	2	2
RO	RX					1								1	1	1	0
SRO-I-7	NOR							1						1	1	1	1
ONO-1-7	I/C		11.	3		3,4		2,3,4,5						7	4	4	2
SRO-U	MAJ		4			7		6						2	2	2	1
	TS							2,4,5	i,					3	0	2	2
RO	RX														1	1	0
SRO-I	NOR														1	1	1
	I/C														4	4	2
SRO-U	MAJ														2	2	1
	TS														0	2	2

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Facility: V	Vatts Bai	7		Da	ate of E	xam:	Aug	ust 20	10		Оре	erating	Test N	o.: (Date of Exam: August 2010 Operating Test No.: Crew 5 Scenarios - for Spare										
A	E						S	cenari	os - for	Spare															
P P	V E	Sc	enario	2	s	cenar	io 4	s	cenario	5				Т		M									
L	N													0											
	T		CREW			CRE			CREW			CREW		T A		N I									
C A	_		OSITIO	N	ļ	OSITI	ON	Р	OSITIO	N	P	OSITIC	N	L		M									
N	T Y	S	A	В	S	A	В	S	A	В	S	Α	В		1	U									
T	Р	R	T	O P	R	T	O P	R O	T C	O	R O	T C	0 P			M(*									
	E			'						Г		C	Г		R	L	U								
RO	RX								1					1	1	1	0								
SRO-I-8	NOR	1			1000								100	1	1	1	1								
	I/C	2,3,4,5		100			5		2,3					7	4	4	2								
SRO-U	MAJ	6		16)					6					2	2	2	1								
	TS	2,3,4			10.00									3	0	2	2								
RO	RX		1											1	1	1	0								
SRO-I-9	NOR			15	1			1						1	1	1	1								
0110-1-0	I/C		4,5		2,3,4,5					4				7	4	4	2								
SRO-U	MAJ		6		6									2	2	2	1								
	TS	e Mari			2,3						*1			2	0	2	2								
RO	RX					1								1	1	1	Ö								
SRO-I-10	NOR							1						1	1	1	1								
3/10-1-10	I/C			3		2,3	A	2,3,4,5						7	4	4	2								
SRO-U	MAJ					6		6						2	2	2	1								
	TS							2,4,5						3	0	2	2								
RO	RX														1	1	0								
SRO-I	NOR														1	1	1								
	I/C														4	4	2								
SRO-U	MAJ														2	2	1								
	TS														0	2	2								

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Facility:	Watts Bar	•									o.: S	SPAI	RE				
Α	Е							Sc	enarios	S							
P P	V E	9	SPARE											Т		М	
Ľ	N													0		 N	
1	T		CREW		•	CRE			CREW		l .	CREW		TA		N I	
C	_		OSITIO	N		OSITI	ON	P	OSITIC	N	Р	OSITIC	N	Ĺ		M	
A N	T	S	A	В	S	A	В	S	A	В	S	A	В		1	U	
T	P	R O	T C	O P	R O	T	O P	R O	T C	O P	R	T C	O P		R	M(*)) U
RO	E RX													0	1	ļ	0
INO														ļ		1	ļ
SRO-I	NOR	1												1	1	1	1
SRO-U	I/C MAJ	2,3,4,5												4	4	4	2
I ON O	TS	6												1	2	2	1
		3,5												2	0	2	2
RO	RX	A STATE	1					-						1	1	1	0
SRO-I	NOR													0	1	1	1
	I/C		4, 5											2	4	4	2
SRO-U	MAJ TS		6											1	2	2	1
RO	RX													0	0	2	2
RO	NOR													0	1	1	0
SRO-I	I/C			1										1	1	1	1
SRO-U	MAJ			2,3										2	4	4	2
SRU-U	TS			6										0	0	2	2
RO	RX														1	1	0
	NOR														1	1	1
SRO-I	I/C														4	4	2
SRO-U	MAJ														2	2	1
	TS														0	2	2
									ı i				l	I	1 -	1 - 1	ı — I

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Facility: Watts Bar	D	ate c	f Exa	amin	ation	: Au	gus	t 201	0	Ор	erat	ing '	Test	t No.	: 1	
							API	PLIC	ANT	rs						
	s	RO BRO- BRO-		Χ	s	RO BRO- BRO-		X	S	RO BRO- BRO-		X		RO SRC SRC		
Competencies	S	CEN	IARI	0	s	CEN	ARI	0	S	CEN	ARI	0	S	CEN	NARI	0
•	1	2	3	4	1	2	3	4	1	2	3	4				
Interpret/Diagnose Events and Conditions	2,3,4, 5,6	2,3,4, 5	2,3,4, 5,6,	2,3,4, 5,6	2,3,4, 5,6	2,3,4, 5	2,3, 4,5, 6,	2,3,4, 5,6	2,3, 4,5, 6	2,3,4, 5	2,3, 4,5, 6,	2,3, 4,5, 6				
Comply With and Use Procedures (1)	2,3,4, 5,6	2,3,4, 5	2,3,4, 5,6,	2,3,4, 5,6	All	All	All	2,3,4, 5,6	All	All	All	2,3, 4,5, 6				
Operate Control Boards (2)	1,2, 3,4, 5,6	1,2,3, 4,5	1,2,3, 4,5,6,	1,2,3, 4,5,6	1,2, 3,4, 5,6	1,2,3, 4,5	1,2, 3,4, 5,6,	1,2,3, 4,5,6								
Communicate and Interact	All	All	All	Ali	All	All	All	All	All	Ali	All	All				
Demonstrate Supervisory Ability (3)					All	All	All	All	All	All	All	All				
Comply With and Use Tech. Specs. (3)		100 100 200 100 100 100 100 100 100 100			2, 3	2,3,4	2, 4,	2, 3	2, 3	2,3,4	2, 4,	2, 3				

Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant

Facility: Watts Bar	D	ate c	of Ex	amin	ation	: Au	igus	t 201	0	Оре	erat	ing	Test	t No.	: 1	
					11		API	PLIC	ANT	S						
	S	RO BRO- BRO-	1	X	S	RO BRO- BRO-		X		0 RO-I RO-I		X		RO SRC SRC		
Competencies	S	CEN	IARI	0	s	CEN	ARI	0	SC	ENA	۱R	0	s	CEN	VARI	0
•	5	6			5	6			5	6						
Interpret/Diagnose Events and Conditions	2,3,4, 5	2,3,4, 5,6			2,3,4,	2,3,4, 5,6			2,3,4, 5	2,3,4, 5,6						
Comply With and Use Procedures (1)	2,3,4, 5,	2,3,4, 5,6	- 1		2,3,4, 5,	2,3,4, 5,6			2,3,4, 5,	2,3,4, 5,6						
Operate Control Boards (2)	1,2,3, 4,5,	1,2,3, 4,5,6			1,2,3, 4,5,	1,2,3, 4,5,6										
Communicate and Interact	All	All			All	All			All	All						
Demonstrate Supervisory Ability (3)				100	All	All			All	All						
Comply With and Use Tech. Specs. (3)		(4)			2,4,5	3, 5			2,4,5	3, 5						

Notes:

- Includes Technical Specification compliance for an RO. (1)
- Optional for an SRO-U.
- (2) (3) Only applicable to SROs.

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant

Record of Rejected K/As

Form ES-401-4

		
Tier / Group	Randomly Selected K/A	Reason for Rejection
1/2	076 AA2.03	Plant does not have an RCS radioactivity level meter for monitoring Reactor Coolant Activity. Chemistry sampling is the method used for monitoring.
		K/A Replaced by the Chief Examiner on 05/04/10 with K/A # 076 AA2.02.
2/1	073 K4.02	Plant does not have a Design feature or interlock for the isolation of letdown on high-RCS activity.
		K/A Replaced by the Chief Examiner on 05/04/10 with K/A # 073 K4.01.
•		
		·
	`	·

Record of Rejected K/As

Form ES-401-4

Tier / Group	Randomly Selected K/A	Reason for Rejection
2/1	003A2.03	Unable to write an SRO only question.
·		K/A replaced by the Chief Examiner on 08/06/10 with K/A # 003A2.01.
,		·
		·

Written Examination Quality Checklist

Form ES-401-6

Facility:	Walts Bar	Date of Exam:	08/2010	Exam Le	vel: ROX	SRO.	[*******	
			***************************************		·			inktei	
		[tom:	Description				3	ð*	G.
1.	Questions and	navers are (echnically	accurate and app	licable to the f	acility.		MC	20	戏
2.		C K/As are referenced f lity learning objectives		s availativo.			1812	Ac	N.
3.	SRO questions	ere appropriate in acco	darke win Sedi	on D.2.d of ES	401		ML	The	#
4.	The sampling powers repeated t	ocess was rendom and rom the last 2 NRC fice	l systemetic (II mo Itsing exems, ox	we than 4 RO s sult the NRR C	ж 2 SRO ция N. program c	estions iffico).			働
5.	Chrestion duplices indicated between the audites the audites the examination of the forest other (explanation).		M	Œ	S S				
6.	from the bank, a	i limits (no mere than 7/ it teast 10 percent new,); enter the actual RO / /tion(s) at right.	and the rest	Bank 21/12	Modified 47 f 20	Nav 32 / 68	192	Œ	M
7.		I 60 percent of the que		Memory		C/A			ſ,
	the SRO exam selected KIAs s	n at the comprehension may exceed 60 percont upport the higher cogni 1910 question distributi	if the randomly live levels; onter	43 / 40		57 / 603	pea.	æ	H
8.		douts provided do not p lination of distractors.	ijve awşy onawor	ā			H22.	AC	N
9.		il conforms with specifi line and is appropriate astilled.					m	CEC	N
10.	Quantion paych	ometric quality and form	blug ent teem lan	exines in ES Ap	peralix B.		Mr	cec	W
†1.	The exam conta	das the required number of and agrees with the	er of one-point, m value on the cove	dipie civice ii y sheet.	NOTE X	AZ-SAZOZONOZ (AMININAZON ANTONIAZONEALIS A INSE SION	per	ar	W
e. Author	name versettenenstens i menne for i det for de little et be discher i be discher i be discher i be discher i be	žys	Printed An B. Roden /	Name / Signal	ure/	ouruseteuruseuruseuruseuruseuruseuruseuru	DE THE CONTROL OF THE OWNER.	9/11	ote Min
b. Facilit	y Reviewer (*)	B	nosid E. Crovs /		275 /	2		3 2	Zo
	Julef Examiner (# Teglenal Supervis		EARD W. LAS ALCORNIZ.W		(lung)	ello	na konie dus bac entre in M	9 <u> 16</u> 09/1	1200
No(e:	* The facility re	vlewer'e initials/signatu NRC reviewer Initial ite	re are not applica his in Column "c";	bte for NRC-de chief examine	versied exa	minations.			

This FORM IS FUR The REVISEO SRO PORTION OF the WATES BAR 2010-301 Written Exam.

Facility:	Watts Bar	Date of Exam:	08/2010	Exam Le	evel: RO	SROX			
								Initial	<u></u>
		Item	Description	-			а	b*	c#
1.	Questions and a	nswers are technically	accurate and app	licable to the f	acility.		gpoz	5RS	A
2.		C K/As are referenced for lity learning objectives		available.			pp	SRS	Sto
3.	SRO questions a	are appropriate in acco	rdance with Section	on D.2.d of ES	-401		por	SRS	A
4.	The sampling pro were repeated fr	ocess was random and om the last 2 NRC lice	I systematic (If mo ensing exams, con	re than 4 RO c sult the NRR C	or 2 SRO qu OL program	iestions office).			B
5.	Question duplica as indicated belo the audit ex the audit ex the examina X_ the licensee other (explain		pps	SR5	A				
6.	from the bank, at	limits (no more than 75 t least 10 percent new,); enter the actual RO / tion(s) at right.	New 32 / 68	pa	SRS	H			
7.		60 percent of the ques		Memory	,	C/A			0)
	the SRO exam m selected K/As su	at the comprehension may exceed 60 percent apport the higher cognit SRO question distribution	t if the randomly itive levels; enter	43 / 40		57 / 60	per	SRS	*
8.	References/hand or aid in the elimi	douts provided do not g ination of distractors.	give away answers	>			M	SRS	M
9.	Question content examination outli deviations are jus	t conforms with specific ine and is appropriate t stified.	c K/A statements i	n the previous h they are assi	ly approved igned;		pan	SRS	
10.	Question psycho	metric quality and form	nat meet the guide	lines in ES Ap	pendix B.		par	SRS	K
11.	The exam contain the total is correct		m	SRS	B				
c. NRC C	y Reviewer (*) Chief Examiner (#) Regional Superviso * The facility revi	St Gi	teven R. Smith / ERAD W. LASA / LALCOUL T.WID	Name / Signate Author Seran V Outh W For NRC-der	A. Following welloped exa	aminations.		8/14 8/14 8/19 08/13	ite 6/10 1/2010 1/2010

Exem was appared for administration. General W. LASUS/ Sends of 9/1/2010
Tot the 9 requested decolor were abough. MISLOGIALT. WIDNESSED (MINISTRATION OP/01/10)

Fa	cility: Watts Bar 2010	-301	Date of Exam: 09/22/2010	Exam L	.evel: F	RO/SRO				
					Initial	S				
	Ito	em Des	cription	а	b	С				
1.	Clean answer sheets	copied	before grading		N/A	61				
2.	Answer key changes documented	and que	estion deletions justified and			62				
3.	Applicants' scores ch (reviewers spot che					11				
4.			ses (80 $\pm 2\%$ overall and 70 or 80, SRO-only) reviewed in detail	H		62				
5.	All other failing exami are justified	B		EL						
6.	deficiencies and wo	rding pr	stions checked for training roblems; evaluate validity of more of the applicants	St		15 L				
			Printed Name/Signature		С) Date				
a.	Grader	GERAR	o W. Lasica Levan W. Jante	_	10/	12/2010				
b.	Facility Reviewer(*)		N/A	_						
с.	NRC Chief Examiner (*)	Edwin	1 Lea , Jr. / Codeling for , 4	3,	10/	12/2010				
d.	NRC Supervisor (*)	MAIC	DINTWIDHENNS/ XXIIII	en-	1414	2/10				
(*)	The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									

Facility: Watts Barr	Date of Exam: 9/22/2010	Exam L	evel: R	O/SRO
			Initials	
lte.	em Description	а	b	С
Clean answer sheets	copied before grading	是是		
Answer key changes documented	and question deletions justified and	N/A		
11	ecked for addition errors ck > 25% of examinations)	ŁL		
11	line cases (80 \pm 2% overall and 70 or 80, on the SRO-only) reviewed in detail	EL		
5. All other failing exami are justified	nations checked to ensure that grades	61		
deficiencies and wo	ed questions checked for training rding problems; evaluate validity of y half or more of the applicants			
	Printed Name/Signature		D	ate
a. Grader	Edwin bea, Jr. / todain Jew.	3	10/8	12010
b. Facility Reviewer(*)		-		
c. NRC Chief Examiner (*)		_		
d. NRC Supervisor (*)		-		
	signature is not applicable for examinations	graded l	by the N	NRC;