# FACILITY PROPOSED EXAMINATION SUBMITTAL CHECKLISTS

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# FOR THE KEWAUNEE INITIAL EXAMINATION - NOVEMBER 2005

Dominion Energy Kewaunee, Inc. N490 Highway 42, Kewaunee, WI 54216-9511



# SEP 22 2005

Regional Administrator, Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352 Serial No. 05-636 KPS/LIC/GR: RO Docket No. 50-305 License No. DPR-43

#### DOMINION ENERGY KEWAUNEE, INC. KEWAUNEE POWER STATION RESPONSE TO FURNISH WRITTEN EXAMINATIONS, OPERATING TESTS, AND SUPPORTING REFERENCE MATERIALS

In response to a letter from the NRC dated July 14, 2005 regarding the administration of licensing examinations at the Kewaunee Power Station, enclosed are the written examinations, operating tests, and the supporting reference materials identified in NUREG-1021 Revision 9, Attachment 2 to ES-201.

NUREG-1021 physical security requirements state that the enclosed examination materials must be withheld from public disclosure until after the examinations are complete.

If you have questions or require additional information, please feel free to contact Mr. Frank Winks at 920-388-8303.

Very truly yours,

Monffor

Michael G. Gaffney Site Vice President, Kewaunee Power Station

Enclosures

Commitments made by this letter: NONE

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cc: Without enclosures Mr. S. C. Burton NRC Senior Resident Inspector Kewaunee Power Station Madison, WI 53707

> Without enclosures U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555

#### Kewaunee 2005 NRC Operator License Exam

#### **Examination Submittal**

#### **Contents**

- 1. Form ES-301-3, Operating Test Quality Checklist 1 page
- 2. Form ES-301-4, Simulator Scenario Quality Checklist 1 page
- 3. Form ES-301-5, Transient and Event Checklist 3 pages (Operating Test 1 (Group 1) updated since Outline submittal)
- 4. Form ES-301-6, Competencies Checklist 2 pages
- 5. Form ES-401-4, Record of Rejected K/As 1 page (1 additional since Outline submittal)
- 6. Form ES-401-3, SRO Generic Knowledge and Abilities Outline (Tier 3) 1 page (Change since Outline submittal)
- 7. Form ES-401-6, Written Examination Quality Checklist 1 page
- 8. RO Written Examination and provided references (ES-401-7) 75 pages & 2 references (1 page each).
- 9. SRO Written Examination and provided references (ES-401-8) 25 pages & 4 references (19 pages, 13 pages, and 3 of 1 page each).
- 10. RO Written Examination Key with supporting information. (75 questions)
- 11. SRO Written Examination Key with supporting information. (25 questions)
- 12. Operating Examination, Scenarios (Form D-1 and Form D-2) 4 scenarios
- 13. Operating Examination, JPMs 8 Control Room Systems, 3 In-Plant Systems, 7 Admin)

# **Operating Test Quality Checklist**

# Form ES-301-3

Facility:	Kewaunee Nuclear Station Date of Examination: 11/14/05 Operating	Test N	lumber	<u>.</u> 1
			Initial	s
	1. General Criteria	а	<u>b</u> *	c#
a.	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).	W	M	BP
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	sry	M	H
<u> </u>	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	M	M	R
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	M	p	BC
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	\$P	M	R
	2. Walk-Through Criteria			
a.	<ul> <li>Each JPM includes the following, as applicable:</li> <li>initial conditions</li> <li>initiating cues</li> <li>references and tools, including associated procedures</li> <li>reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee</li> <li>operationally important specific performance criteria that include: <ul> <li>detailed expected actions with exact criteria and nomenclature</li> <li>system response and other examiner cues</li> <li>statements describing important observations to be made by the applicant</li> <li>criteria for successful completion of the task</li> <li>identification of critical steps and their associated performance standards</li> <li>restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	soy	в	BP
b.	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.	Sit N/A	M	R
	3. Simulator Criteria			
	sociated simulator operating tests (scenario sets) have been reviewed in accordance with S-301-4 and a copy is attached.	an		BP
b. Fa c. NF	Printed Name / Signature Printed Name / Signature Active Reviewer(*) Phil Short / Active Reviewer(*) Phil Short / Active Reviewer(*) 9/2 RC Chief Examiner (#) Bruce Pales / Sime Pales 11- RC Supervisor W. Hirrwark Polesa / Active Reviewer 1/48-	Dat 6/05 94/03 3 - 05		
NOTE:	<ul> <li>The facility signature is not applicable for NRC-developed tests.</li> <li>Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</li> </ul>			

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ES-301

ES-301 Simulator Scenario Quality Checklist Form ES-301-4

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Facility:	Kewaunee Power Station Date of Exam: 11/14/05 Scenario Numbers: 1	/ 2 / 3 / 4 Operatin	g Test	<u>No.: 1</u>	
	QUALITATIVE ATTRIBUTES			Initial	5
			a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumenta of service, but it does not cue the operators into expected events.	tion may be out	N	p	K
2.	The scenarios consist mostly of related events.		M	M	l
3.	Each event description consists of • the point in the scenario when it is to be initiated • the malfunction(s) that are entered to initiate the event • the symptoms/cues that will be visible to the crew • the expected operator actions (by shift position) • the event termination point (if applicable)		SH .	m	Ьt
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated in without a credible preceding incident such as a seismic event.	nto the scenario	SN	p	d
5.	The events are valid with regard to physics and thermodynamics.		NY	M	H
6.	Sequencing and timing of events is reasonable, and allows the examination to complete evaluation results commensurate with the scenario objectives.	eam to obtain	18	M	H
7.	If time compression techniques are used, the scenario summary clearly so in Operators have sufficient time to carry out expected activities without undue Cues are given.	dicates. time constraints.	sв	M	ßŀ
3	The simulator modeling is not altered.		ANT	14	B
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open performance deficiencies or deviations from the referenced plant have been to ensure that functional fidelity is maintained while running the planned scer	evaluated	sg	12	GF
10.	Every operator will be evaluated using at least one new or significantly modif All other scenarios have been altered in accordance with Section D.5 of ES-	ied scenario. 301.	sof	ß	H
i1.	All individual operator competencies can be evaluated, as verified using Forr (submit the form along with the simulator scenarios).	n ES-301-6	MY	ß	K
12.	Each applicant will be significantly involved in the minimum number of transic specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	50	sy	Å
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	M	M	BE
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes			<u> </u>
Ι,	Total malfunctions (5-8)	7 /7 /6 / 6	01	M	B
2.	Malfunctions after EOP entry (1–2)	3 /3 /2/2	11	M	6
3.	Abnormal events (2–4)	4 / 4 / 5 / 4	4/	M	BE
4	Major transients (1–2)	1 /2 /1/1	51	M	Be
5.	EOPs entered/requiring substantive actions (1-2)	2 / 3 / 2-3/2	4	M	104
<u>.</u>	EOP contingencies requiring substantive actions (0-2)	0 /1 /0/1	41	Ø	0
7.	Critical tasks (2–3)	4 / 3 / 2-3 / 2	AP	NY	]0

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# **Transient and Event Checklist**

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Form ES-301-5

Facility:         Kewaunee Power Station         Date of Exam: 11/14/05         Operating Test No.: 1 (Group 1)           A         E         Scenarios																	
А	E							So	enarios	3							
P P L	V E N		1			2	<i>u</i>		3			4		T O T		M	
I C A	T T		REW	N		CREV			CREW					1 T   A   L		N I M	
N T	Y P E	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P			U M(*	') U
		Ŭ												<u> </u>			_
RO	RX					1		L					L	1	1	1	0
<b>SR</b> O-I	NOR			1								-	<b> </b>	1	1	1	1
	1/C			2,3,5		3,7							ļ	5	4	4	2
SRO-U	MAJ			6		4,5				L			ļ	3	2	2	1
	TS												L.	0	0	2	2
RQ	RX		1											1	1	1	0
SRO-I	NOR				1									1	1	1	1
	I/C		4,7		2,3,6,7								I	6	4	4	2
SRO-U	MAJ		6	1	4,5									3	2	2	1
	TS				2,3									2	0	2	2
RQ	RX			<u> </u>										0	1	1	0
SRO-I	NOR	1						Τ					_	1	1	1	1
	I/C	2,3.4.5.7												5	4	4	2
SRO-U	MAJ	6												1	2	2	1
~	TS	2,3			1									2	0	2	2
RO	RX	1													1	1	0
<u></u> <u>SR</u> O-I	NOR														1	1	1
	I/C	1													4	4	2
SRO-U	MAJ		1					1							2	2	1
	TS	1													0	2	2
Instructio	ins:	<u> </u>	<u>.                                    </u>		<u> </u>	<u></u>	<u>I.</u>			<u></u>			(ont n	umbe	re fo	r 02	
	Check the event typ and "bala two instru	e; TS a	are not -nlant (	applic (BOP)	cable fo " positi	or RO ons: li	applica Instant S	nts. R( ROs m	Os mus nust do	st serve one so	e in bot cenario	n the "a , incluc	ling at	least	JIS (/	ATC	c)"
	Reactivity Section I evolution	ነ ፍ ሐነ ኮ	aut muu	et ha s	significa	ant ne	r Sectio	n C.2.a	i ot Adi	penaix.	U. (")	Reaco	nty and	1 11011	lla		
3.	evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis. 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.																

# Transient and Event Checklist

Form ES-301-5

Facility: K	ewaunee l	Power S	tation			Date	of Exan	n: 11/07/	05		Ope	rating	<u>Fest N</u>	<u>o.: 1</u>	(Groi	Jp 2	)
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P L	E N		1			2			3			4		TO		M	
I C	Т Т		REW	N		CREV			CREW			)N			N L M		
A N T	Y P	S R	A T	B O	S R	A T	B O	S R	A T	B O	S R	A T	B O	4 5		M U M(*	·)
	E	0	С	Ρ	0	С	Ρ	0	С	Р	0	С	P	ļ	R	T	l
RO	RX					1								1	1	1	0
<u></u> <u>SR</u> O-I	NOR							1						1	1	1	1
<u>ک</u>	I/C					3,7		2,3,4,5,7						7	4	4	2
	MAJ					4,5		6						3	2	2	-
<b>`</b> ]	TS							2,3,4						3	0	2	2
RQ	RX		1											1	1	1	C
SRO-I	NOR				1						ĺ			1	1	1	1
~	I/C		4,7		2,3,6,7									6	4	4	2
SRO-U	MAJ		6		4,5			T						3	2	2	1
<b>ا</b> ــــا	TS				2,3									2	0	2	2
RO	RX											1		0	1	1	0
SRO-I	NOR	1												1	1	1	1
	I/C	2,3,4,5,7	-											5	4	4	2
SRO-U	MAJ	6								<u> </u>		<u> </u>		1	2	2	1
	TS	2,3									<u> </u>			2	0	2	2
RO	RX													<u> </u>	1	1	(
	NOR														1	1	
	I/C						<u> </u>			<u> </u>			<u> </u>		4	4	Ľ
	MAJ			$\bot$		<u> </u>			<u> </u>	ļ	<u> </u>	<u> </u>	ļ	4	_	2	
	TS			_							<u> </u>		<u> </u>	<u> </u>	0	2	2
SRO-I SRO-U Instructio	I/C MAJ TS Ins: Check the event typ and "bala	e; TS a ince-of-	ire not plant (	applic BOP)	able fo	or RO ons; Ir	applica	nts. RC SROs m	)s mus ust do	t serve one sc	in boti enario,	h the "a , includ	it-the-c ing at l	contro least	4 2 0	4 2 2	
	two instru Reactivity	iment o / manip	or compound	ooner ns ma	it (I/C) i y be co	malfur nduct	nctions ed unde	and one er norma	e majo: al or co	r transie ontrolle	ent, in f d abno	the AT	C posit	tion. ns (re	efer t	0	
	Section É	).5.d) b s may t	ut mus pe repl	it be s aced	significa with ad	int pei ditioni	r Sectio al instru	n C.2.a Iment oi	of App comp	onent r	D. (*) f nalfund	Reactiv	ity and on a 1-	for-1	nal basi	S.	
	evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis. 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.																

### **Transient and Event Checklist**

Form ES-301-5

A       E       Scenarios         P       E       1       2       3       4       T       M         I       T       CREW       CREW <th>Facility: K</th> <th>ewaunee</th> <th>Power S</th> <th>Station</th> <th></th> <th></th> <th>Date</th> <th>of Exam</th> <th>1: 11/07</th> <th>/05</th> <th></th> <th>Оре</th> <th>rating</th> <th>Test N</th> <th>0.: 1</th> <th>(Gro</th> <th>up 3</th> <th>}</th>	Facility: K	ewaunee	Power S	Station			Date	of Exam	1: 11/07	/05		Оре	rating	Test N	0.: 1	(Gro	up 3	}
P         E         1         2         3         4         T         M           C         T         CREW         CREW         CREW         CREW         POSITION         POSITION         N           T         T         S         A         B         S         A         A         A         A         A         A<									Sc	enarios	5							
C         T         CREW         CREW         POSITION         POSITION         A         I         I           N         Y         S         A         B         S         A         A         A         A         A         A		Е		1			2			3			4				M	
N         Y         S         A         B         S         A         B         S         A         B         S         A         B         S         A         B         S         A         B         C         P         O         C         I					N										1 1		Ĩ	
E         O         C         P         O         C         P         O         C         P         R         I	N	Y	s	Α	В	s	Α	В									U	")
NOR          1		E	0	С	P	0	С	P	0	С	P	0	С	P		R	1	U
SRO-I         NOR          I<	RO	RX		1									[		1		1	0
I/C       4,7       2,38.7       6       4       4         SRO-U       MAJ       6       4,5       3       2       2         R0       RX        2,3       2       0       2       0       2         R0       RX        2,3       2       0       1	SRO-I	NOR				1		<u> </u>					<u> </u>	<u> </u>	1	1	1	1
Image: Second	$\checkmark$	I/C		4,7		2,3,6,7							L		6	<u> </u>	I	2
RX        2,3       0       1       1         SRO-I       NOR       1		MAJ		6		4,5					L			<u> </u>	+		-	1
NOR       1       2       2       2       1       1       2       2       2       1		TS				2,3								<u> </u>	2	<u> </u>		2
SRO-1       I/OK       1       1       1       1       1       1       1       2       2         SRO-U       MAJ       6       1       1       2       2       0       2         RO       RX       1	RO	RX						L			L		<u> </u>		0			0
I/C       23.43.7       5       4       4         SRO-U       MAJ       6       1       2       2         IV       TS       2,3       1       1       2       2         RO       RX       1	SRO-I	NOR	1										L	<u> </u>	1	Ļ		1
Image: Normal control in the section D. 5 d) but must be significant per Section D. 5 d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal		1/C	2,3,4,5,7												5	<u> </u>	<u> </u>	2
TS       2,3       2       0       2         RO       RX       1       1       1         SRO-I       I/C       1       1       1         I/C       1       1       1       1         SRO-U       MAJ       1       1       1         I/C       1       1       1       1         SRO-U       MAJ       1       1       1         I/C       1       1       1       1         SRO-U       MAJ       1       1       1         I/C       1       1       1       1         SRO-U       MAJ       1       1       1         SRO-U       NOR       1       1       1         SRO-U       MAJ       1       1       1         SRO-U       MAJ       1       1       1         Instructions:       1       1       1       1         I.       Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for ea 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 do one scenario, including at least two instrument or component (I/C) malfunctions and one major transien		MAJ	6			_								L	1	2	2	1
NOR       Image: Constraint of the system of t		TS	2,3									<u> </u>			2	0	2	2
SRO-I       I/C       I/C <td< td=""><td>RO</td><td>RX</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>0</td></td<>	RO	RX														1	1	0
I/C       I		NOR												<u> </u>		1	1	1
Image: TS       0       2         RO       RX       0       1         SRO-1       NOR       1       1         I/C       1       1       1         SRO-1       MAJ       1       1       1         Instructions:       1       1       1       1         1.       Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for ear 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 do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.         2.       Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D. 5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal		I/C										L	<u> </u>	<u> </u>		<u> </u>		2
RO       RX       Image: Construction of the section of the se		MAJ												Ĺ	1		∔	1
RO       RA       Image: Control of the section	ليبيا	TS										<u> </u>				0	2	2
SRO-I       I/C       4         SRO-U       MAJ       2         TS       0       2         Instructions:       0       2         Instructions:       0       2         Instructions:       8       0         Image: Structure       Structure       0         Image: Structure       0       2         Image: Structure       Image: Structure       0         Image: Structure       Image: Structure       0 <td>RO</td> <td>RX</td> <td></td> <td>1</td> <td>1</td> <td>0</td>	RO	RX														1	1	0
I/C       I	SR0-I	NOR	Γ											<u> </u>	<u> </u>	1	1	1
Instructions:     Instructions:     Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for ea 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 do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.     Reactivity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal		I/C														4	4	2
<ol> <li>Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for ea 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 do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.</li> <li>Reactivity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal</li> </ol>		MAJ				T T										2	2	1
<ol> <li>Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for ea 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 do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.</li> <li>Reactivity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal</li> </ol>		TS				T										0	2	2
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	1. 2. 3.	Check the event typ and "bala two instru- Reactivity Section I evolution Wheneve	e; TS a ince-of- ument o y manip 0.5.d) b s may l er pract	ire not plant ( or comp pulation put mus be repl ical, bo	applic BOP) conen is ma is ma it be s aced	cable fo " position it (I/C) r y be co signification with ad	r RO ons; li nalfur nduct int pe dition	applicar nstant S nctions a red under r Section al instru compor	nts. RC ROs m and one er norm n C.2.a ment o nent ma	Ds mus iust do e majoi al or co of App r comp alfuncti	at serve one so r transie controlle condix conent ons sh	e in boti cenario ent, in : ed abno D. (*) i malfun ould be	h the "a , includ the AT ormal c Reactiv ctions o e includ	at-the-c ling at C posif onditio vity and on a 1- led; on	contro least lion. ns (re l nori for-1 ly tho	efer i nal basi	ATC to	ich ;)"

#### **Competencies Checklist**

### Form ES-301-6

Facility: Kewaunee Power Statio	n D	ate c	ofEx	amir	natio	<b>n</b> : 11/	'14/05			Op	eratii	ng 1	Test	No.:	1	
							APP	LIC	ANT	s						
				RO SRC SRC			RO C SRO-I C SRO-U C									
Competencies	SCENARIO					s		ARI	0	s	CEN		0			
	1	2	3	4	RO 1	sro 2	<sup>⊪₀</sup> 3	4	вор 1	<sup>во</sup> 2	sro 3	4	sro 1	<sup>вое</sup> 2	вор <b>3</b>	4
Interpret/Diagnose Events and Conditions	2,3,5,6	3,4,5,7			4,6,7	2-7	2 3.8.7		2,3,5,6	3,4,5.7	2-6		2-7	1,2,3,4,5	2,4	
Comply With and Use Procedures (1)	1,2,3.6	1,3.4,5.7			1.4,6,7	1-7	1,3,4,5, 6,7	 	1,2,3,6	1,3,4. 5,7	2-7		1-7	1-6	1.2.4.5	
Operate Control Boards (2)	1,2,3,5,6	1,3,4,5,7			1,4,6,7	N/A	1,3,4,5. 6,7		1,2,3, 5,6	1,3,4, 5,7	N/A		N/A	1-6	1,2,4,5	
Communicate and Interact	1-7	1-5,7			1,2,4, 6,7	1-7	1-7		1-7	1-5,7	1-7		1-7	1-6	124,5	
Demonstrate Supervisory Ability (3)	N/A	N/A			N/A	1-7	N/A		N/A	N/A	2-7		1,2.3.4 6,7	N/A	N/A	
Comply With and Use Tech. Specs. (3)	N/A	N/A			N/A	2,3	N/A		N/A	N/A	2,3,4		2,3	N/A	N/A	
Notes: (1) Includes Technical S (2) Optional for an SRC (3) Only applicable to S	-U.	catio	n cor	nplia	nce f	or an	RO.									

#### 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.

#### **Competencies Checklist**

#### Form ES-301-6

Facility: Kewaunee Power Sta	ation D	ate d	ofEx	amir	natio	n: 07	/14/C	)5		Op	erati	ng 1	ſest	No.:	1-4	
							APF	LIC	ANT	S						
	RO 🗹 SRO-I 🗍 SRO-U 🗖				RO □ SRO-I ☑ SRO-U □					RO SRC SRC			RO SRO-I SRO-U			
Competencies	S			<u>0</u>	5	SCEN	S	CEN		0	s	CEN		위		
	1	2	3_	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	:			1,4,5				1-6				1-6				
Comply With and Use Procedures (1)				1,3,4, 5,6				1-6				1-6				
Operate Control Boards (2)				1,3,4, 5,6				N/A				N/A				
Communicate and Interact				1,3,4 5,6				1-6				1-6				
Demonstrate Supervisory Ability (3)				N/A				1-6				1-6				
Comply With and Use Tech. Specs. (3)				N/A				1,2				1,2				
Notes:(1)Includes Technical 3(2)Optional for an SRC(3)Only applicable to S	D-U.	icatio	n cor	mplia	nce 1	for an	RO.									

#### 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.

# Generic Knowledge and Abilities Outline (Tier 3)

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# PWR SRO Examination Outline

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Printed: 09/25/2005

#### Facility: Kewaunee Nuclear Power Plant

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Form ES-401-3

Generic Category	<u>KA</u>	KA Topic	<u>lmp.</u>	<u>Points</u>				
Conduct of Operations	2.1.5	Ability to locate and use procedures and directives related to shift staffing and activities.	3.4	1				
	2.1.25	Ability to obtain and interpret station reference materials such as graphs, monographs, and tables which contain performance data.	3.1	ł				
		Category Total:		2				
Equipment Control	2.2.7	Knowledge of the process for conducting tests or experiments not described in the safety analysis report.	3.2	1				
	2.2.32	2.2.32 Knowledge of the effects of alterations on core configuration.						
		Category Total:		2				
Radiation Control	2.3.7	Knowledge of the process for preparing a radiation work permit.	3.3	1				
		Category Total:		1				
Emergency Procedures/Plan	2.4.11	3.6	1					
	2.4.28	3.3	1					
		Category Total:		2				

Generic Total: 7

1

S-401	······································	Record of Rejected K/As Form ES
Tier / Group	Randomly Selected K/A	Reason for Rejection
3/-	2.3.3	Replace due to inability to write a question of Difficulty Level
		greater than one for subject for SRO and coverage of materia
		in other locations. Replaced with randomly selected K/A 2.3.7
	-	

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ES-401, Page 27 of 33

# Written Examination Quality Checklist

Form ES-401-6

Facili	ty: Kewaunee Power Station Da	ate of Exam:	11/18/	05	Exam	Level:	ROLS	SRO[]
							Initial	
	Item Description					a	b*	<u>c</u> *
1.	Questions and answers are technically accurate and a	pplicable to t	he facili	ty		SI	M	100
2.	a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as	s available.				Sol	M	BP
3.	SRO questions are appropriate in accordance with Sec	ction D.2.d or	f ES-40*	1		m	69	BP_
4.	The sampling process was random and systematic (If were repeated from the last 2 NRC licensing exams, c	more than 4 onsult the Ni	RO or 2 RR OL p	SRO q rogram	uestions office).	M	m	BP
5.	Question duplication from the license screening/audit e as indicated below (check the item that applies) and a <u> the audit exam was systematically and randomly de</u> the audit exam was completed before the license e the examinations were developed independently; o the licensee certifies that there is no duplication; or other (explain)	opears appro eveloped; or x <i>am</i> was sta r	priate:			w	Ð	BP
6.	Bank use meets limits (no more than 75 percent	Bank	Мо	dified	New			
	from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	35 / 7	8	/ 1	32 / 17	M	ß	BP
7.	Between 50 and 60 percent of the questions on the RC exam are written at the comprehension/ analysis level		nory		C/A			
	the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.		8	41	/ 17	M	19	BP
8.	References/handouts provided do not give away answ or aid in the elimination of distractors.	ers				316	M	BP
9.	Question content conforms with specific K/A statemen examination outline and is appropriate for the tier to wi deviations are justified.	ts in the prev hich they are	iously a assigne	pproved ed;	t	soy	M	BP
10.	Question psychometric quality and format meet the gu	idelines in E	S Apper	ndix <u>B.</u>		MY	M	BP
11,	The exam contains the required number of one-point, the total is correct and agrees with the value on the co	multiple choi				SPY	M	BP
	Printe	d Name / Sig	ngture,				D	ate
a. Au	uthor Stephen Johnson /	Aug	Key )	this	m		9/2	6/05
b. Fa	acility Reviewer (*) Phillip Short /	par	4		FF.		<u>4</u> /	24/25
	RC Chief Examiner (#)	CI Delarco	(Sec	n (	- AT		- 11-	2-05
0. N	RC Regional Supervisor	C PETERS	24		wy al			
Note:	<ul> <li>The facility reviewer's initials/signature are not appli</li> <li># Independent NRC reviewer initial items in Column "</li> </ul>	cable for NR c"; chief exar	C-devel niner co	oped ex	aminations	I		