PROPOSED EXAMINATION COVER LETTER AND CHECKLISTS FOR THE D. C. COOK INITIAL EXAM - MARCH 2007



A unit of American Electric Power

Indiana Michigan Power

Cook Nuclear Plant One Cook Place Bridgman, MI 49106 AER.com

January 24, 2007

U. S. Nuclear Regulatory Commission ATTN: Mr. Dell R. McNeil Region III Examiner 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

Donald C. Cook Nuclear Plant Units 1 and 2 2007 INITIAL LICENSE EXAMINATION

Enclosed you will find a copy of the Initial License Examination for the planned March 2007 Examination at Donald C. Cook Nuclear Plant (CNP).

The following items are enclosed in the sealed envelope:

- 1) CNP 2007 NRC Operating Examination Overview
- 2) ES-201-3 Examination Security Agreement
- 3) ES-301-3 Operating Test Quality Checklist
- 4) Scenario Exams with Forms ES-D-1 & D-2
 - a) COOK07-01
 - b) COOK07-02
- 5) ES-301-4 Simulator Checklist
- 6) ES-301-5 Transient and Event Checklist Set 1
- 7) ES-301-5 Transient and Event Checklist Set 2
- 8) ES-301-6 Competencies Checklist Set 1
- 9) ES-301-6 Competencies Checklist Set 2
- 10) ES-301-2 System JPM Outlines & Exams
 - a) SRO(I) JPM Outline
 - b) SRO(U) JPM Outline
 - c) RO JPM Outline
 - d) NRC2007-SIM01
 - e) NRC2007-SIM02
 - f) NRC2007-SIM03
 - g) NRC2007-SIM04
 - h) NRC2007-SIM05
 - i) NRC2007-SIM06
 - j) NRC2007-SIM07
 - k) NRC2007-SIM08
 - 1) NRC2007-INP01

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- m) NRC2007-INP02
- n) NRC2007-INP03
- 11) ES-301-1 Admin JPM Outlines & Exams
 - a) SRO Admin Outline
 - b) RO Admin Outline
 - c) NRC2007-A1
 - d) NRC2007-A2
 - e) NRC2007-A3
 - f) NRC2007-A4
 - g) NRC2007-A5
 - h) NRC2007-A6
 - i) NRC2007-A7
- 12) ES-401-6 Written Examination Quality Checklist
- 13) CNP 2007 Written Examination Attachments
- 14) CNP 2007 NRC Written Examination (100 questions with references)

A hard copy of all the examination materials is provided for your review. An electronic copy of documents without initials or signatures or other handwritten notations for the Public Document Room (ADAMS) has also been provided.

None of these materials are to go to the Public Document Room (ADAMS) until after the examination has been completed.

If you have any comments or concerns, please contact Ted Conrad or Steve Pettinger at (269) 466-3387 or myself at (269) 466-3407.

Sincerely,

Ronald E. Harrah

Operations Training Manager

Roll E Harrel

JTC/jen

Enclosures

Facility	D.C. Cook Date of Examination: 3/19/07 Operating	Test N	ہ صرر Number	2730					
	. 1. General Criteria	а	Initials b*	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).								
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	gr.	Du	5 ~					
C.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	m	CUB	sun					
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.								
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	ar	Shi	m					
	2. Walk-Through Criteria								
а.	 a. Each JPM includes the following, as applicable: initial conditions initialing 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 								
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.	TR	Cure	P~~					
	3. Simulator Criteria]	_						
	ssociated simulator operating tests (scenario sets) have been reviewed in accordance with ES-301-4 and a copy is attached.	TR	Sm	Pw					
a. A b. F	Printed Name / Signature Sohn T. CONRAD/ONL T. Comal 1/	Da 19/2 3/20 2/29	007						
NOTE	* The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.								

Facility	DC COOK Date of Exam: Scenario Numbers: (/ 2	2/ 3 Operating Test	No.: 2	0013	301				
		s							
	а	b*	_c#						
1.	AR	Bur	Su						
2.	2. The scenarios consist mostly of related events.								
3.	M	حساق	Bu						
4.	M	حسرو	bin						
5.	The events are valid with regard to physics and thermodynamics.								
6.	 Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives. 								
7.	 If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given. 								
8.	The simulator modeling is not altered.								
9.	 The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios. 								
10.									
11.									
12.									
13.									
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes							
1.	1.0.1								
2.	2. Malfunctions after EOP entry (1–2) 2 / 3 / 3								
3.	Abnormal events (2-4)	41414	m	am	300				
4.	Major transients (1–2)	1/1/1	912	Pm	Jm.				
5.	EOPs entered/requiring substantive actions (1-2)	2/1/1	m	m	.yn				
6.	EOP contingencies requiring substantive actions (0-2)	01111	P	am	Dr				
7.	Critical tasks (2–3)	21212	TR	1 8m	312				

SET 1

Facility: DC Cook U1/U2	 } I	Date	of E	xam	inatio	on: 3	/19/0	07		Opera	ating	Tes	t No	.: 20	0730)1	
									CAN'								
Competencies		RO 🗆			RO 🛚					RO		X					
		SRO-I			SRO-I				I	SRO							
	;	SRO	-U [XI	SRO-U □			SRO-U									
		SCENARIO			SCENARIO				SCENARIO				SCENARIO				
	1	2	3		1	2	3		1	2	3		1	2	3	4	
	S R O	SRO			A T C	B O P			B O P	A T C							
Interpret/Diagnose Events and Conditions	3, 4 5, 6 7, 8 9	3, 6 4, 7 5			3, 5 7, 8 9	4, 6 7, 9			4, 6 7	3, 5 8							
Comply With and Use Procedures (1)	2, 3 6, 7 8, 9	2, 3 4, 6 7, 8 9			2, 3 5, 7	1, 4 6, 7 9			1, 4 6, 7	2, 3 5, 8							
Operate Control Boards (2)	N/A	N/A			2, 3 5, 7 8, 9	1, 4 6, 7 9			1, 4 6, 7	2, 3 5, 8							
Communicate and Interact	1,2, 3 4, 5 6, 7 8, 9	1, 2 3, 4 5, 6 7, 8 9			2, 3 5, 7 8, 9	1, 4 6, 7 9			1, 4 6, 7	2, 3 5, 8					:		
Demonstrate Supervisory Ability (3)	1,2, 3 4, 5 6, 7 8, 9	1, 2 3, 4 5, 6 7, 8 9			N/A	N/A			N/A	N/A							
Comply With and Use Tech. Specs. (3)	3,5, 6	3, 4			N/A	N/A			N/A	N/A							
Notes: (1) Includes Technical Speci(2) Optional for an SRO-U.		on cor	npliar	nce fo	or an F	RO.											
(3) Only applicable to SROs	•																

Instructions:

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

SET 2

Facility: DC Cook U1/U2		Date	of E	xam	inatio	on: 3	/19/0)7)pera	ating	Tes	t No.	: 200	0730	1_
Competencies		Date of Examination: 3/19/07 Operating Test No.: 2007301 APPLICANTS														
		RO 🗆				RO 🗆				30					•	**,
	1	SRO		X	ı	SRO		XI		SRO	_	_				
		SRO	-U [SRO-U 🗌			SRO-U 🔲								
	S	SCENARIO		SCENARIO			SCENARIO				SCENARIO					
	1_	2	3		1	2	3		1	2	3		1	2	3	4
	S R O	A T C			A T C	S R O				ı.						İ
Interpret/Diagnose Events and Conditions	3, 4 5, 6 7, 8 9	3, 5 8			3, 5 7, 8 9	3, 6 4, 7 5	· ·									
Comply With and Use Procedures (1)	2, 3 6, 7 8, 9	2, 3 5, 8			2, 3 5, 7	2, 3 4, 6 7, 8 9										
Operate Control Boards (2)	N/A	2, 3 5, 8			2, 3 5, 7 8, 9	N/A						l.				
Communicate and Interact	1,2, 3 4, 5 6, 7 8, 9	2, 3 5, 8			2, 3 5, 7 8, 9	1, 2 3, 4 5, 6 7, 8 9	:								;	
Demonstrate Supervisory Ability (3)	1,2, 3 4, 5 6, 7 8, 9	N/A			N/A	1, 2 3, 4 5, 6 7, 8 9										
Comply With and Use Tech. Specs. (3)	3,5 6	N/A			N/A	3, 4	į									
Notes: (1) Includes Technical Spec (2) Optional for an SRO-U. (3) Only applicable to SROs		on cor	mpliar	nce fo	or an F	RO.										

Instructions:

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

Facility?	DC COOK Date	of Exam:	3/26/	7007	Exam	Level:	ro≯s	RO 🄀	
	а	ь•	C [#]						
1,	Questions and answers are technically accurate and app		TR	Show	Bu				
2.	 a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as a 		m	Smy	Am				
3.	SRO questions are appropriate in accordance with Section		TR	8mil	bun				
4.	The sampling process was random and systematic (If mo were repeated from the last 2 NRC licensing exams, cons	estions office).	AC	Show	b 12				
5.	T	MW	D٣						
6.	Bank use meets limits (no more than 75 percent Bank Modified New						1)	M a	
	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.	53116	66101		1619	912	Du		
7.	Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level;	C/A	77	mw	.Dm				
	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.	35 1	((40	114	M	dw	Div	
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.	·				GR.	ans	\$m	
9.	Question content conforms with specific K/A statements i examination outline and is appropriate for the tier to which deviations are justified.		M	m	Dh				
10.	Question psychometric quality and format meet the guide		gre	Shr	Dûn				
11.	The exam contains the required number of one-point, mu the total is correct and agrees with the value on the cover		TC	Sho	Du				
Printed Name / Signature a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Regional Supervisor * The facility reviewer's initials/signature are not applicable for NRC-developed examinations.								100 1 200 1 22/0 4/07	