

2009 KEWAUNEE POWER STATION

INITIAL EXAMINATION

PROPOSED EXAM FILES



WITHHOLD FROM PUBLIC DISCLOSURE UNDER 10 CFR 2.390

FEB 12 2009

Regional Administrator, Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Serial No. 09-067
LIC/NW/RO
Docket No.: 50-305
License No.: DPR-43

Attention: Mr. Dell McNeil

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

In response to a telephone conversation between Mr. Dell McNeil of the Nuclear Regulatory Commission and Kewaunee Power Station (KPS) staff on January 16, 2009 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, Supplement 1, Attachment 3 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. Terry Evans at 920-388-8303.

Very truly yours,

A handwritten signature in cursive script that reads "Stephen E. Scace".

Stephen E. Scace
Site Vice President, Kewaunee Power Station

Enclosures

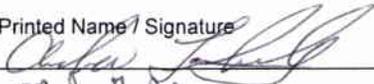
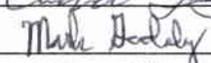
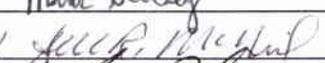
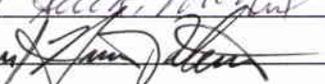
Commitments made by this letter: NONE

NOTICE: Enclosures to this letter contain confidential information. Upon separation from the enclosures, this letter is DECONTROLLED.

cc: Without enclosures

Mr. S. C. Burton
NRC Senior Resident Inspector
Kewaunee Power Station
Madison, WI 53707

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Facility: <u>Kewaunee</u>		Date of Examination: <u>4/13-27/09</u>		Operating Test Number: <u>1</u>	
1. GENERAL CRITERIA			Initials		
			a	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).	OKZ	MWB	DM	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	OKZ	MWB	JM	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	OKZ	MWB	JM	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	OKZ	MWB	JM	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	OKZ	MWB	DM	
2. WALK-THROUGH CRITERIA			--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - 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 	OKZ	MWB	DM	
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.	OKZ	MWB	DM	
3. SIMULATOR CRITERIA			--	--	--
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			OKZ	MWB	
a.	Author	Andrew Fahrenkrug		Date	2/11/09
b.	Facility Reviewer (*)	Mark Goolsbey			2/12/09
c.	NRC Chief Examiner (#)	Dell R. McNeil			3/12/09
d.	NRC Supervisor	Hironori Peterson		MSB/HP	4/8/09 3/17/09
NOTE: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence is required.					

Facility: Kewaunee		Date of Exam: 04/13-27/2009		Scenario Numbers: 1 / 2 / 3		Operating Test Number: 1		
QUALITATIVE ATTRIBUTES						Initials		
						a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	APZ	MWB	DM				
2.	The scenarios consist mostly of related events.	APZ	MWB	DM				
3.	Each event description consists of <ul style="list-style-type: none"> 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) 	APZ	MWB	DM				
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.	APZ	MWB	DM				
5.	The events are valid with regard to physics and thermodynamics.	APZ	MWB	DM				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	APZ	MWB	DM				
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.	APZ	MWB	DM				
8.	The simulator modeling is not altered.	APZ	MWB	DM				
9.	The scenarios have been validated. Pursuant to 10CFR55.46(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.	APZ	MWB	DM				
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	APZ	MWB	DM				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	APZ	MWB	DM				
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	APZ	MWB	DM				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	APZ	MWB	DM				
Target Quantitative Attributes (Per Scenario; See Section D.5.d)						Actual Attributes		
1.	Total malfunctions (5-8)	7 / 7 / 6		APZ	MWB	DM		
2.	Malfunctions after EOP entry (1-2)	3 / 3 / 3		APZ	MWB	DM		
3.	Abnormal events (2-4)	4 / 4 / 3		APZ	MWB	DM		
4.	Major transients (1-2)	1 / 1 / 1		APZ	MWB	DM		
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 3		APZ	MWB	DM		
6.	EOP contingencies requiring substantive actions (0-2)	0 / 0 / 1		APZ	MWB	DM		
7.	Critical tasks (2-3)	3 / 4 / 1		APZ	MWB	DM		

Facility: Kewaunee		Date of Exam: 4/13-27/2009		Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>		
Item Description	Initial					
	a	b*	c*			
1. Questions and answers are technically accurate and applicable to the facility.	cpz	mwb	sm			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	cpz	mwb	sm			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	cpz	mwb	sm			
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exam, consult the NRR OL program office).	cpz	mwb	sm			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or ___ the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or ___ other (explain)	cpz	mwb	sm			
6. Bank use meets limits (no more than 75 percent 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.	Bank	Modified	New	cpz	mwb	sm
	22/4	13/3	40/18			
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension /analysis level; the SRO exam may exceed 60 percent if the randomly selected KAs support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	Memory	C/A		cpz	mwb	sm
	31/10	44/15				
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	cpz	mwb	sm			
9. Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified	cpz	mwb	sm			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	cpz	mwb	sm			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	cpz	mwb	sm			
			Printed Name / Signature	Date		
a. Author	Andrew Fahrenkrug			2/12/09		
b. Facility Reviewer (*)	Mark Goolsbey			2/17/09		
c. NRC Chief Examiner (#)	Dell R. McNeil / Supp. McNeil			2/10/09		
d. NRC Regional Supervisor	Hirononi Petersen			4/8/09		
Note:			* The facility reviewer's initials/signature are not applicable for NRC-developed examinations.			
			# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.			