

**PROPOSED EXAMINATION COVER LETTER AND CHECKLISTS**  
**FOR THE MONTICELLO INITIAL EXAM - FEBRUARY 2007**



December 7, 2006

L-MT-06-068  
10 CFR Part 55.40

Regional Administrator, Region III  
US Nuclear Regulatory Commission  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352  
Attention: Nick Valos

Monticello Nuclear Generating Plant  
Docket 50-263  
License No. DPR-22

Initial Licensing Examination To Be Conducted The Week of February 12, 2007

Reference 1: NUREG 1021, Operator Licensing Examination Standards for Power Reactors, Revision 9

In accordance with the requirements of 10 CFR 55.40(b)(4), the Nuclear Management Company, LLC (NMC) requests NRC approval of the proposed written examination and operating tests for the Monticello Nuclear Generating Plant (MNGP). Further, 10CFR55.40(a) requires that examinations meet the requirements of Reference 1. Therefore, enclosed for your review are the proposed examination materials for the initial license examinations for our operator license applicants.

In accordance with 10CFR 55.49, "Integrity of Examinations and Tests" and Reference 1, Section ES-201, Attachment 1, "Examination Security and Integrity Guidelines," the Nuclear Management Company, LLC requests that the enclosed materials be withheld from public disclosure until after the examinations are complete.

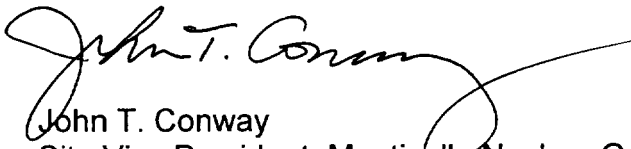
The proposed examination materials were prepared per the guidelines of Reference 1, sections ES-301 and ES-401. The proposed examination materials have been prepared by the Monticello facility for four (4) Reactor Operator license candidates, one (1) Senior Reactor Operator (SRO) – Upgrade license candidate and four (4) SRO - Instant license candidates.

DEC 12 2006

Enclosed are the following items for your review:

- Book 1 - ES-401-7, ES-401-8, RO/SRO written exams
- Book 2 - RO written exam key and references
- Book 3 - ES-401-6, SRO written exam key and reference
- Book 4 - RO written exam reference materials provided to candidates
- Book 5 - SRO written exam reference materials provided to candidates
- Book 6 - ES-301-3, Simulator JPMs
- Book 7 - In-plant/Admin JPMs
- Book 8 - ES-301-4, ES-301-6, Scenarios, 75-day outline updates for ES-301-1, ES-301-2, and ES-D-1

This letter makes no new commitments and no revisions to existing commitments.



John T. Conway  
Site Vice President, Monticello Nuclear Generating Plant  
Nuclear Management Company, LLC

Enclosures

cc: Administrator, Region III, USNRC (w/o attachments)  
Project Manager, Monticello, USNRC (w/o attachments)  
Resident Inspector, Monticello, USNRC (w/o attachments)

Facility	Monticello Nuclear Generating Plant	Date of Exam	2/12/07	Operating Test Number:	MNGP2007	
<b>1. General Criteria</b>				Initial		
				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.)			J	Km	NV
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			J	Km	NV
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a)			J	Km	NV
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.			J	Km	NV
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			J	Km	NV
<b>2. Walk-Through Criteria</b>				--	--	--
a.	Each JPM includes the following, as applicable. <ul style="list-style-type: none"> <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 and nomenclature. <ul style="list-style-type: none"> <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>			J	Km	NV
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) specific on those forms and Form ES-201-2.			J	Km	NV
<b>3. Simulator Criteria</b>				--	--	--
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.				J	Km	NV
			Printed Name/Signature		Date	
a. Author	J. Ruth		<i>J. Ruth</i>		12/1/06	
b. Facility Reviewer (*)	<i>Rent Markeling / Rent Markeling</i>				12/01/06	
c. NRC Chief Examiner (#)	<i>Nicholas A. Valos / Nicholas A. Valos</i>				02/05/07	
d. NRC Supervisor	<i>Michael J. Peters / Michael J. Peters</i>				2/6/07	
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.						

Facility	MNGP	Date of Exam	2/12/07	Scenario Numbers:	1 / 2 / 3	Operating Test Number:	MNGP2007		
QUALITATIVE ATTRIBUTES						Initial			
						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.					g	km	nv	
2.	The scenarios consist mostly of related events.					g	km	nv	
3.	Each event description consists of <ul style="list-style-type: none"> <li>The point in the scenario when it is to be initiated</li> <li>The malfunction(s) that are entered to initiate the event</li> <li>The symptoms/cues that will be visible to the crew</li> <li>The expected operator actions (by shift position)</li> <li>The event termination point (if applicable)</li> </ul>					g	km	nv	
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.					g	km	nv	
5.	The events are valid with regard to physics and thermodynamics.					g	km	nv	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					g	km	nv	
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.					N/A	N/A	N/A	
8.	The simulator modeling is not altered.					g	km	nv	
9.	The scenarios have been validated. Pursuant to 10 CFR 44.45(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.					g	km	nv	
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.					g	km	nv	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					g	km	nv	
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).					g	km	nv	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.					g	km	nv	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)						Actual Attributes	--	--	
1.	Total malfunctions (5-8)					8 / 6 / 7	g	km	nv
2.	Malfunctions after EOP entry (1-2)					2 / 1 / 1	g	km	nv
3.	Abnormal events (2-4)					3 / 3 / 2	g	km	nv
4.	Major transients (1-2)					1 / 1 / 1	g	km	nv
5.	EOPs entered/requiring substantive actions (1-2)					2 / 1 / 2	g	km	nv
6.	EOP contingencies requiring substantive actions (1-2)					1 / 1 / 1	g	km	nv
7.	Critical tasks (2-3)					2 / 3 / 2	g	km	nv

Facility: Monticello

Date of Examination: 2/12/07

Operating Test  
Number:

MNGP2007

Competencies	APPLICANTS															
	RO <input checked="" type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>			
	SRO-I <input type="checkbox"/>				SRO-I <input checked="" type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>			
	SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input checked="" type="checkbox"/>				SRO-U <input type="checkbox"/>			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Event and Conditions	All	All	All		All	All	All		All	All						
Comply With and Use Procedures (1)	All	All	All		All	All	All		All	All						
Operate Control Boards (2)	All	All	1,2,4, 5,6,7, 8		All	All	1,2,4, 5,6,7, 8									
Communicate and Interact	All	All	All		All	All	All		All	All						
Demonstrate Supervisory Ability (3)					All	All	All		All	All						
Comply With and Use Tech Specs (3)					1,3	1,4, 5	3,6		1,3	1,4, 5						

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

**Instructors:**

*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	Monticello Nuclear Generating Plant			Date of Exam	2/12/07		Exam Level:	RO/SRO	
Item Description							Initial		
							a	b	c <sup>#</sup>
1.	Questions and answers are technically accurate and applicable to the facility.						J	Km	NV
2.	a. NRC K/As are referenced for all questions.						J	Km	NV
	b. Facility learning objectives are referenced as available.						J	Km	NV
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401						J	Km	NV
4.	If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.								
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. ___ the audit exam was completed before the license exam was started ___ the examinations were developed independently <input checked="" type="checkbox"/> the licensee certifies that there is no duplication other (explain)						J	Km	NV
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					
		15/16 20	4/8 <sup>NV</sup> 1	56 55/18 NV	J	Km	NV		
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 K/As support the higher cognitive levels; enter the actual RO/SRO question distribution(s) at right.	Memory	C/A						
		35 34/76 NV	40 41/18,9 NV	J	Km	NV			
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.						J	Km	NV
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; deviation are justified.						J	Km	NV
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.						J	Km	NV
11.	The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.						J	Km	NV
Printed Name/Signature							Date		
a. Author	J. Ruth						12/6/06		
b. Facility Reviewer (*)	K. Markling						12/6/06		
c. NRC Chief Examiner (#)	Nicholas A. Velas						02/05/07		
d. NRC Regional Supervisor	Michael P. K...						2/10/07		
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