

**PROPOSED EXAMINATION COVER LETTER AND CHECKLISTS
FOR THE FERMI INITIAL EXAM - JANUARY 2008**

Joseph H. Plona
Site Vice President

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DTE Energy



November 16, 2007
NRC-07-0058

Mr. Hironori Peterson
Chief, Operations Branch
Division of Reactor Safety
U. S. Nuclear Regulatory Commission
Region III
Suite 210
2443 Warrenville Road
Lisle, Illinois 60532-4352

Dear Mr. Peterson:

Enclosed please find the following examination materials submitted to the NRC in preparation for the upcoming Fermi 2 Initial License Examination scheduled to occur during the week of January 28, 2008:

- Modified Examination Outlines (modified during the examination development process)
- Seventy-five (75) written examination items for the Reactor Operator examination
- Twenty-five (25) written examination items for the Senior Reactor Operator examination
- Twelve (12) Plant Systems related Job Performance Measures
- Seven (7) Administrative topic Job Performance Measures
- Four (4) Simulator Scenarios
- Quality Verification Checklists from Revision 9, NUREG 1021

The examination materials were developed using the appropriate guidance contained in Revision 9, NUREG 1021. These materials shall be withheld from public disclosure until after the examinations are complete.

We look forward to working with you and your examination team during the examination development and administration process. If you have any questions or comments regarding the contents of the items listed above, please contact Mr. Timothy P. Horan, General Supervisor, Operations Training at (734) 586-4961.

Sincerely,

A handwritten signature in black ink that reads "Joseph H. Plona".

Enclosure

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Hironori Peterson
Chief, Operations Branch
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cc: NRC Resident Office
Document Control Desk
Washington D. C.

Facility: <u>Fermi-2</u>		Date of Examination: <u>1/28/08</u>		Operating Test Number: <u>2008-1</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).	B	TPH	MCS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	B	TPH	MCS	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	B	TPH	K	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	B	TPH	MCS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	B	TPH	MCS	
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 	B	TPH	MCS	
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.	B	TPH	MCS	
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.		B	TPH	MCS	
a. Author	Printed Name / Signature <u>Robyn L Brixey / [Signature]</u> <u>Lynn H. Barker / [Signature]</u>	Date <u>11/15/07</u>			
b. Facility Reviewer (*)	<u>Timothy P. Horan / [Signature]</u> <u>John P. [Signature]</u>	<u>11/16/07</u>			
c. NRC Chief Examiner (#)	<u>Michael Bieby / [Signature]</u> <u>Michael E. Bullock / [Signature]</u>	<u>12/10/07</u>			
d. NRC Supervisor	<u>Hironori Peterson / [Signature]</u>	<u>01/23/08</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence is required.					

* Audit exam will be reviewed during exam wk.
 ** Telecon / e-mail operating ES-301, Page 24 of 27
 Test comments to H. Peterson on 12/12/07

Facility: Fermi-2		Date of Exam: 1/28/2008		Scenario Numbers: 1 / 2 / 3		Operating Test Number: 2008-1	
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.	S	TPH	MES			
2.	The scenarios consist mostly of related events.	S	TPH				
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) 	S	TPH	MES			
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.	S	TPH	MES			
5.	The events are valid with regard to physics and thermodynamics.	S	TPH	MES			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	S	TPH	MES			
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.	S	TPH	MES			
8.	The simulator modeling is not altered.	S	TPH	MES			
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.	S	TPH	MES			
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.	S	TPH	MES			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	S	TPH	MES			
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).	S	TPH	MES			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	S	TPH	MES			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes					
1.	Total malfunctions (5-8)	7 / 7 / 6	S	TPH	MES		
2.	Malfunctions after EOP entry (1-2)	4 / 1 / 1	S	TPH	MES		
3.	Abnormal events (2-4)	4 / 4 / 2	S	TPH	MES		
4.	Major transients (1-2)	3 / 3 / 2	S	TPH	MES		
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2	S	TPH	MES		
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1	S	TPH	MES		
7.	Critical tasks (2-3)	3 / 2 / 3	S	TPH	MES		

Facility: Fermi-2		Date of Examination: 1/28/2008								Operating Test No.: 2008-1							
Competencies	APPLICANTS																
	RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				
	SRO-I <input checked="" 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	
	B	A	S		A	S	B		S	B	A						
	O	T	R		T	R	O		R	O	T						
	P	C	O		C	O	P		O	P	C						
Interpret/ Diagnose Events and Conditions	4,5,6,7,8	2,3,4,5,6,8	1,2,3,4,5,6,7,9		3,5,8,9,10	2,3,4,5,6,7,8	1,3,5,7,9		3,4,5,6,7,8,9,10	1,3,4,5,6,7,8	2,3,4,5,6,7,8,9						
Comply With and Use Procedures (1)	1,4,5,6,7,8	2,4,5	2,3,4,5,6,7,8,9		2,3,5,8,10	2,3,4,5,6,7,8	1,3,5,7		1,2,3,4,5,6,8,9,10	1,3,4	2,3,4,6,7,8,9						
Operate Control Boards (2)	1,4,5,6,7,8	2,4,5,6,8			2,3,5,8,9,10		1,3,5,7,9			1,3,4,5,6,7,8	2,3,6,7,8,9						
Communicate and Interact	1,4,5,6,7,8	2,3,4,5,6,8	1,2,3,4,5,6,7,8,9	3	2,3,5,8,9,10	1,2,3,4,5,6,7,8	1,3,5,7,9		1,2,3,4,5,6,7,8,9,10	1,3,4,5,6,7,8	2,3,4,5,6,7,8,9						
Demonstrate Supervisory Ability (3)			1,2,3,4,5,6,7,8,9			1,2,3,4,5,6,7,8			1,2,3,4,5,6,7,8,9,10								
Comply With and Use Tech Specs. (3)			2,4,5			2,3			3,4								
Notes:																	
(1) Includes Technical Specification compliance for an RO.																	
(2) Optional for an SRO-U.																	
(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.

Facility: Fermi-2		Date of Examination: 1/28/2008								Operating Test No.: 2008-1							
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		
B O P	A T C			A T C	S R O			S R O	B O P								
Interpret/ Diagnose Events and Conditions	4,5,6,7, 8.	2,3,4,5, 6,8			3,5,8,9, 10	2,3,4,5, 6,7,8			3,4,5,6, 7,8,9, 10	1,3,4,5, 6,7,8							
Comply With and Use Procedures (1)	1,4,5,6, 7,8	2,4,5			2,3,5,8, 10	2,3,4,5, 6,7,8			1,2,3,4, 5,6,8,9, 10	1,3,4							
Operate Control Boards (2)	1,4,5,6, 7,8	2,4,5,6, 8			2,3,5,8, 9,10				1,3,4,5, 6,7,8								
Communicate and Interact	1,4,5,6, 7,8	2,3,4,5, 6,8			2,3,5,8, 9,10	1,2,3,4, 5,6,7,8			1,2,3,4, 5,6,7,8, 9,10	1,3,4,5, 6,7,8							
Demonstrate Supervisory Ability (3)						1,2,3,4, 5,6,7,8			1,2,3,4, 5,6,7,8, 9,10								
Comply With and Use Tech Specs. (3)						2.			3,4								
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (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.

Facility: Fermi-2		Date of Exam: 1/28/08 MSB		Exam Level: RO <input checked="" 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.	A	TPH	MSB			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	B	TPH	MSB			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	B	TPH	MSB			
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).	B	TPH	MSB			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	B	TPH	MSB			
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	B	TPH	MSB
	32/6 30/8	1/1 3/4	42/18 24/5			
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	B	TPH	MSB
	30/7 32/8		45/18 42/18			
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	B	TPH	MSB			
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	B	TPH	MSB			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	B	TPH	MSB			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	B	TPH	MSB			
Printed Name / Signature			Date			
a. Author	Robyn L. Brixey / <i>Robyn L. Brixey</i>			11/15/07		
b. Facility Reviewer (*)	Timothy P. Moran / <i>T. P. Moran</i>			11/16/07		
c. NRC Chief Examiner (#)	Michael Bielby / <i>Michael F. Bielby</i>			12/10/07		
d. NRC Regional Supervisor *	Hironori Peterson / <i>Hironori Peterson</i>			1/23/08		
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.						

* Telephon/email written exam and operating Test comments to H. Peterson on 12/12/07