

**2012 FERMI 2 POWER PLANT  
INITIAL LICENSE EXAMINATION  
OUTLINE SUBMITTAL**

**Detroit Edison**



10 CFR 55.40

January 05, 2012  
NRC-12-0002

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

Reference: Fermi 2  
NRC Docket No. 50-341  
NRC License No. NPF-43

Subject: Fermi 2 Initial License Operator Examination Outline

Enclosed please find the proposed examination outline for the upcoming Fermi 2 Initial License Examination that is scheduled for the week of March 19, 2012:

- Examination Outline Quality Checklist (Form ES-201-2)
- Photocopies of Examination Security Agreements (Form ES-201-3)
- SRO Administrative Topics Outline(s) (Form ES-301-1)
- SRO Upgrade Control Room/In-Plant Systems Outline (Form ES-301-2)
- SRO Instant Control Room/In-Plant Systems Outline (Form ES-301-2)
- Transient and Event Checklist (Form ES-301-5)
- Scenario Outlines (Form ES-D-1)
- RO BWR Examination Outline (Form ES-401-1)
- SRO BWR Examination Outline (Form ES-401-1)
- Generic Knowledge and Abilities Outline (K/As) (Form ES-401-3)
- Record of Rejected K/As (Form ES-401-4)

JAN 6 2012

The examination outline was developed using the appropriate guidance contained in Revision 9, NUREG 1021, Supplement 1. 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. David G. Coseo, General Supervisor, Operations Training at (734) 586-4055.

Sincerely,



Rodney W. Johnson  
Manager - Nuclear Licensing

Enclosures

cc: [w/o Enclosures]  
NRC Project Manager  
Reactor Projects Chief, Branch 4, Region III  
NRC Resident Office  
Document Control Desk, Washington D C

bcc: [w/o Enclosures]  
M. S. Caragher  
W. A. Colonnello  
J. T. Conner  
J. M. Davis  
J. W. Davis  
R. W. Johnson  
J. H. Plona  
K. C. Scott  
G. A. Strobel

Electronic Licensing Library (ELL) (200 TAC) [w/o Enclosures]  
Information Management (140 NOC) [w/o Enclosures]  
NSRG Administrator (200 TAC) [w/o Enclosures]  
NRR Chron File [w/o Enclosures]  
T. J. Barrett [w/o Enclosures]  
D. C. Coseo [w/o Enclosures]  
S. J. Hanson [w/o Enclosures]  
R. J. Salmon [w/o Enclosures]

Facility: Fermi 2		Date of Examination: 3/19/2012		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	DB	J	MGB
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	DB	J	MGB
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	DB	J	MGB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	DB	J	MGB
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	DB	J	MGB
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and scenarios will not be repeated on subsequent days.	DB	J	MGB
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	DB	J	MGB
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) * (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form	DB	J	MGB
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations	DB	J	MGB
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	DB	J	MGB
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	DB	J	MGB
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	DB	J	MGB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	DB	J	MGB
	d. Check for duplication and overlap among exam sections.	DB	J	MGB
	e. Check the entire exam for balance of coverage.	DB	J	MGB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	DB	J	MGB
a. Author <u>Timothy J. Barrett</u> Printed Name / Signature <u><i>Timothy J. Barrett</i></u> Date <u>1-4-12</u> b. Facility Reviewer (*) <u>David G. Coseo</u> <u><i>David G. Coseo</i></u> <u>1/5/12</u> c. NRC Chief Examiner (#) <u>Michael Bielby</u> <u><i>Michael E. Bielby</i></u> <u>1/13/12</u> d. NRC Supervisor <u>Hironori Peterson</u> <u><i>Hironori Peterson</i></u> <u>1/19/12</u>				
NOTE: # Independent NRC Reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				

\* Will review when completed