VARIOUS CHECKLISTS

FOR THE FERMI RETAKE EXAMINATION - JULY 7, 2003

Facility: _	Fermi Z Date of Examination	n: <u>7-7-03</u>						
Examinati	Examinations Developed by: Facility / NRC (circle one)							
Target Date*	Written Retake Exam Task Description / Reference	Chief Examiner's Initials						
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	BP						
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	BP						
-120	3. Facility contact briefed on security & other requirements (C.2.c)	BP						
-120	4. Corporate notification letter sent (C.2.d)	BP						
[-90]	[5. Reference material due (C.1.e; C.3.c)]	NA						
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	BP						
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	38						
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	OP						
-30	9. Preliminary license applications due (C.1.I; C.2.g; ES-202)	BP						
-14	10. Final license applications due and assignment sheet prepared (C.1.I; C.2.g; ES-202)	BP						
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	BP						
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	K						
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	BP						
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	BP						
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	3C						
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	NA						
The with	* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee. [] Applies only to examinations prepared by the NRC.							



July 17, 2003 NANT-03-0110

0801.26

Mr. B. Palagi Region III U.S. Nuclear Regulatory Commission 801 Warrenville Road Lisle, IL 60532-4351

Dear Mr. Palagi:

Fermi 2 administered an initial written retake license exam on July 7, 2003. Enclosed please find the remaining material required in accordance with NUREG-1021, ES-501.

 Original Form ES-201-3, "Examination Security Agreement," with a pre and postexamination signature for each individual who had detailed knowledge of the written examination

If you have any questions or comments regarding the contents of these materials please contact Mr. Al Mann at 734-586-4067.

Sincerely,

Larry D. Sanders

Manager, Nuclear Training

Fermi 2

Enclosure

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Examination Security Agreement

Form ES-201-3

Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \(\frac{1/162}{2}\) as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. <u>Post-Examination</u>

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of \(\frac{\sqrt{7/2}}{\sqrt{2}} \). From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	, SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
	Stephen D. Bollinger	S1. Ops. Ting. Instructor	Steplen D. Bollingi	4-1-03	Atophen D. Bollinge	1/14/09	0716
	Timsthy J. Barrett	Operations Training Supervisor	Ting (Serter)	4-1-03	in lig Bank	2-8-03	
	Gree Strobel	65 OPS Tring	May our	<u> 4/15/03 </u>	Tugitova	1/14/18	
	Joseph Simone	_cls J		6-3-03	9111	7/5/2	3
	Michael Himebauch	Shift Engineer	Michmuland	6/4/03	Manubance	7/8/03	
6. ,	CRAIG RICE	NSO 0	Jugni-	4/4/03	مشارك	719/0	3
	ERIC SORE	NSO	quelpung	6/6/034	mount	7/10/03	
-	Jeff Yeases	Shift Engineer	Goglan	6/6/3	Meage	7/10/	3
	AI MANN	GS OPS TRAINING	ame	6/11/03	Mona	<u> 7/8/03</u>	
10.		Prayron Supervisor-Ops Trng	REDuke	<u>6-26-03</u>	REDUL	7.7-03	
	Stephen O bellingers	B					
12.							
13.							
14.							
15.							

NOTES:

SECURITY AGREEMENT CLARIFICATION

WRITTEN EXAMINATION							
PRINT NAME	PRE-EXAMINATION CERTIFICATION	DATE/TIME	Supervisor	POST-EXAMINATION CERTIFICATION	DATE/TIME		
	SIGNATURE		INITIALS	SIGNATURE			
Michael Himebauch	MHumbaud	6/4/03 090	0.0%	MHanton	7/8/03		
CRAIG RICE	Cit	6/4/03 0900	DE LOS	Cinhi	7/9/03		
ERIC SORG	Eurpenn	6/6/03 130	200	Eudpin	7/10/03		
Jeff Yeager	Blan	6/6/3 100	95	Billiagy	7/10/3		
				1-11 0	•		

	SIMULATOR DYNAMIC EXAMINATION							
PRINT NAME	Pre-examination certification signature	DATE/TIME	SUPERVISOR INITIALS	POST-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME			
		11/1						
to the second se		NIA						

		JPM EXAMINA	ATION		
PRINT NAME	PRE-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME	Supervisor initials	POST-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME
		r			
		NIA			

DTC: TPMMNT DSN: MNT04008 Rev. 1 P2/2 File: 1703.22

SECURITY AGREEMENT CLARIFICATION

WRITTEN EXAMINATION							
PRE-EXAMINATION CERTIFICATION	DATE/TIME	SUPERVISOR	POST-EXAMINATION CERTIFICATION	DATE/TIME			
SIGNATURE		INITIALS	SIGNATURE				
Stocken D. Bollinger_	4/1/03 1330	14	Wallinger	1/14/03 0710			
The Market I	4-3-03 1500	AL.	Tracter Wall	7-8-03/ 70730			
Multicle	4/15/03 000	If	Mainterovo	7/14/03 1110			
	6-3-03 0900	66	518	7-15-03 1100			
	PRE-EXAMINATION CERTIFICATION SIGNATURE	PRE-EXAMINATION CERTIFICATION SIGNATURE Applend, Bollygon 4/1/03 1330 Tango AT Death 4/1/03 1330 H/15/03 0700	PRE-EXAMINATION CERTIFICATION DATE/TIME SUPERVISOR INITIALS Apple D. Edling 4/1/03 (330 M) Take J. Edward 4-3-03 1500 M H. Edward H.	PRE-EXAMINATION CERTIFICATION SIGNATURE William 103 1330 14-3-03 1500 14-3-03 0700 14-3-03 0700 15-4 15-5-3 0700 15-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5			

	SIMULAT	OR DYNAMIC	EXAMINATION		, , , , , , , , , , , , , , , , , , , ,
PRINT NAME	Pre-examination certification signature	DATE/TIME	SUPERVISOR INITIALS	POST-EXAMINATION CERTIFICATION SIGNATURE	Д АТЕ/ Г ІМЕ
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	N/A				
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	JPM EXAMINATION							
PRINT NAME	PRE-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME	SUPERVISOR INITIALS	POST-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME			
		<u> </u>	<u> </u>					
		- N/	2					
		-//						
<u> </u>								

SECURITY AGREEMENT CLARIFICATION

	WRITTEN EXAMINATION							
PRINT NAME	PRE-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME	SUPERVISOR INITIALS	POST-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME			
RE Duke	REDuke	6.26-03/ 0810	1025	REDWG.	7/2/03 1025			
A. MADA	Dur	6111103 0810	A	Amen	7/8/03 0958			
			{					

	SIMULA	TOR DYNAMIC	EXAMINATION		
PRINT NAME	PRE-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME	Supervisor initials	Post-examination certification signature	DATE/TIME
	1	1/2			
		A			

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	JPM EXAMINATION							
PRINT NAME	Pre-examination certification signature	DATE/TIME	SUPERVISOR INITIALS	POST-EXAMINATION CERTIFICATION SIGNATURE	DATE/TIME			
		I N/A						
		<u></u>						

DTC: TPMMNT DSN: MNT04008 Rev. 1 P2/2 File: 1703.22

SECURITY AGREEMENT ROSTER

	2/2/		ماماء
EXAMINATION PERIOD	7/7/03	to	_1/1/3

	WRIT	rten	Dyn	AMIC	JP	'M
PRINT NAME	ON	OFF	ON	OFF	ON	OFF
PRINT NAME Stephen B. Bollinger Timothy J. Barrett Great Strobel Joseph Smoot Michael Himebauel CRAIG RICE EXIC SURG Jeff Yeager A. MANN RE OUKE	4/1/03	7/14/03	iV/A	N/A	IV/A	N/A
Timothy J. Bacrett	4/1/03	7-8-03				
Grea Strokel	4/15/03	7/14/03				
Joseph Smore	6-3-03	2/15/03				
Michael Himebauch	6/4/03	7/8/03				
CRAIG RICE	6/4/03	7/9/03				
ERK SURG	44/03	7/10/03				
Jeff Yeager	6/6/3	7/16/3				
A.MANN	6/11/03	7/8/03				
RE DUKE	6.26.03	7-7-03				
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DTC:	TPMMNT	DSN:	MNT04009	Rev. 1	P1/1	File:	1703.22 I	Date:_	101195
OTC:	VSNTDP I	OSN:			Fi	le: 02	210.06.04	TP:	Ţ

Facility:	Fermi 2 Date of Exa	m: 07/07/ 0)3		Ε	xam Le	vel: RC	/SRO				
							Initial					
	Item Description					а	b,*	c#				
1.	Questions and answers technically accurate and	applicable	to facil	ity		B	//\	BP				
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as avail	100	A	BP								
3.	SRO questions are appropriate per Section D.2.d	NIA	NA	NA								
4.	Question selection and duplication from the last to appears consistent with a systematic sampling pro-		ensing	exams	i			BP				
5.	Question duplication from the license screening/a indicated below (check the item that applies) and the audit exam was systematically and random the audit exam was completed before the licen the examinations were developed independent the licensee certifies that there is no duplication other (explain)		₽	A	ве							
6.	Bank use meets limits (no more than 75	Bank	Modi	fied	New							
	percent from the bank at least 10 percent new, and the rest modified); enter the actual RO / SRO-only question distribution at right	35	C	7	31	.03	/h	BP				
7.	Between 50 and 60 percent of the questions on the RO exam are written at the	Memory			C/A		•	4				
	comprehension/analysis level; the SRO Exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual question distribution at right	33 (44°	70)		12 56%)	<i>1</i> 85	þ	* BP				
8.	References/handouts provided do not give away a	answers				DA	<u>/\</u>	BP				
9.	Question content conforms with specific K/A state approved examination outline and is appropriate f assigned; deviations are justified				are	NO	Ph	BP				
10.	Question psychometric quality and format meet E	S, Append	lix B, gr	uideline	es	\$65	A	Be				
11.	The exam contains the required number of one-pototal is correct and agrees with value on cover she		le choi	ce item	s; the	ÆS	K	Be				
b. Facili c. NRC	Printed Name / Signature Date Stephen D. Bollinger Abbellinger Date Stephen D. Bollinger Abbellinger Discourse Children Children											
Note:	* The facility reviewer's initials/signature are not a # Independent NRC reviewer initial items in Colum											

* Per my review 40 questions are C/A, 35 Memory

	·			
Facility: Fermi 2	Date of Exam: 07/07/03	Exam	Level	: RO
			Initials	;
	Item Description	а	b	С
1. Clean answer s	heets copied before grading	(B)	1d	BP
Answer key chat documented	anges and question deletions justified and NoNE BC	7 A	AM	BP
	res checked for addition errors check > 25% of examinations)	RED	B.	BP
	borderline cases (80% +/- 2% overall and ne SRO-only) reviewed in detail 92% &	r/A	r/h	BP
All other failing grades are justi	examinations checked to ensure that ified NoNE βໃ	ŊΑ	Ah	BP
deficiencies and	n missed questions checked for training d wording problems; evaluate validity of ed by half or more of the applicants	NED	B	BP
-	Printed Name / Signature		Date	
a. Grader	RE DUKE / 1250We	_	7-7-(<u>3</u>
b. Facility Reviewer(*)	A. Many Ama	,	7/7/	103
c. NRC Chief Examine	r(*) Bruck Palagi		7/14/	23
d. NRC Supervisor (*)	Philaksby Blan	<u>.</u>	7/18	03
	ewer's signature is not applicable for examination pendent NRC reviews are required.	ns gra	ded by	/ the

	1.	2.	3. Psychometric Flaws				6	4.	Job Cont	tent Fl	aws	5. Other		6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus		T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
1	н	3				Х								E/S	*# Distractor D. not credible RESOLUTION: Distractor changed
2	F	2												s	*#
3	F	3								·				S	*#
4	F	2												ES	Question is Fundamental not Higher cognitive level. Also editorial comment on stem. RESOLUTION: stem changed
5	Н	3										х		Us	Does not ask question for K/A called for in outline RESOLUTION: In stem trip point exceeded with no scram = KA
6	F	2												S	*#
7	F	2												S	
8	Н	4							х					5 %	Can we expect the candidate to know the limit for Stator cooling water out let temperature? RESOLUTION: Stem changed
9	Н	4												S	*#
10	Н	3				Х								S	

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level. 1.
- 2. Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified: 3.
 - The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc). The answer choices are a collection of unrelated true/false statements.

 - More than one distractor is not credible.
 - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- 4.
- Check the appropriate box if a job content error is identified:

 The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).

 The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).

 The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).

 - The question requires reverse logic or application compared to the job requirements.
- Check questions that are sampled for conformance with the approved K/A and those that are designated SRO-only (K/A and license level mismatches are unacceptable). 5.
- Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory? 6.
 - At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).
- * Question reviewed for 30 question K/A match
- # Question reviewed for 30 question psychometric quality review

O.#	1.	2.	3	. Psycl	homet	ric Flaw	s	4.	Job Cont	tent Fl	aws	5. C	ther	6.	7.
Q#	LOK (F/H)		Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
11	F	2												S	
12	F	3												S	*#
13	Н	2												S	*#
14	Н	3												s	
15	Н	3				Х	Х						,	U S	*# A. IS NOT CREDIBLE, D. ALSO A CORRECT ANSWER RESOLUTION: Distractors A and D changed
16	F	2										•		s	
17	н	3												s	
18	Н	3							·.					s	*#
19	Н	3												s	
20	F	2												s	
21	F	2				Х								U S	*# C&D NOT CREDIBLE RESOLUTION: Distractors C and D changed
22	F	2												S	
23	Н	3												E/S	Edit to add procedure names. RESOLUTION: done
24	Н	3												S	*#
25	F	2												s	
26	F	2												s	
27	Н	3												S	*#
28	F	2												S	*#
29	F	2												s	
30	н	3												S	*#

^{*} Question reviewed for 30 question K/A match # Question reviewed for 30 question psychometric quality review

Q#	1. LOK	2. LOD	3	. Psycl	nometi	ric Flaw	s	4.	Job Cont	tent Fla	aws	5. C	ther	6.	7.
Q#	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
31	F	2												s	*#
32	Н	2												s_	
33	F	2				Х								U S	*# C. IS THE ONLY CREDIBLE ANSWER RESOLUTION: Distractors changed
34	Н	2										_		s	
35	Н	2												s	
36	Н	2				X								U/S	*# A. & C. NOT CREDIBLE RESOLUTION: Distractors changed
37	Н	3												E/s	Edit stem for clarity RESOLUTION: done
38	F	2												S	
39	F	2				Х								E/S	*# A. NOT CREDIBLE RESOLUTION: Distractor changed
40	F.	3												S	
41	F	4					х		х					U S	C. & B. require candidate to remember alarm set points. A. also correct. RESOLUTION: Distractors changed
42	Н	3												S	
43	н	3												S	
44	Н	3												ø	*#
45	F	3												S	
46	Н	4												S	*#
47	Ξ	2												S	
48	Н	3												S	
49	Н	3												S	
50	H	4												S	

^{*} Question reviewed for 30 question K/A match # Question reviewed for 30 question psychometric quality review

	1.	2.	3	. Psyc	homet	ric Flaw	'S	4.	Job Con	tent Fl	aws	5. C	ther	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
51	Н	3												s	*#
52	F	2												s	
53	Н	3												s	
54	F	2												s	*# Question is Fundamental not Higher cognitive level.
55	F	2												E/S	Edit stem RESOLUTION: done
56	Н	2												s	
57	Н	3												E S	*# EDITORIAL COMMENTS TO DISTRACTORS A. & B. RESOLUTION: changes made
58	F	2				Х								U/S	*# Distractors A.& B. not credible RESOLUTION: Distractors changed
59	Н	2												S	
60	н	3												E/S	*# EDITORIAL COMMENTS TO STEM RESOLUTION: Stem changed
61	Н	4												s	
62	Н	3												s	
63	н	3												s	
64	н	3												s	*#
65	F	2												8	
66	F	2												s	*#
67	F	2												S	
68	F	2												S	
69	F	2												E/S	*# EDITORIAL COMMENTS TO DISTRACTOR C. RESOLUTION: Distractor changed
70	Н	3												s	

^{*} Question reviewed for 30 question K/A match # Question reviewed for 30 question psychometric quality review

	1.	2.	3	. Psycl	homet	ric Flaw	's	4.	Job Con	tent Fla	aws	5. C	ther	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
71	F	2												S	
72	F	2												s	*#
73	н	3					Х							U/S	Distractor B. also correct RESOLUTION: Distractor changed
74	F	3												s	
75	F	2												S	*#
				10 m										•	

^{*} Question reviewed for 30 question K/A match # Question reviewed for 30 question psychometric quality review