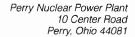
2013 PERRY NUCLEAR POWER PLANT INITIAL LICENSE EXAMINATION

PROPOSED EXAM FILES





Vito A. Kaminskas Vice President 440-280-5382 Fax: 440-280-8029

December 18, 2012 L-12-446

10 CFR 55

ATTN: Mr. Michael Bielby U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

SUBJECT:

Perry Nuclear Power Plant Docket No. 50-440, License No. NPF-58 NRC Initial License Examination Submittal

In accordance with NUREG-1021, ES-201, "Initial Operator Licensing Examination Process," enclosed are the proposed examinations, supporting documentation, and reference materials for the NRC initial license examination scheduled to be administered at the Perry Nuclear Power Plant starting February 25, 2013. The examination materials were developed in accordance with the guidelines specified in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1.

NUREG-1021 Forms ES-201-3, ES-301-1, ES-301-2, ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-1, ES-401-3, ES-401-4, ES-401-6, ES-D-1 and ES-D-2 are enclosed with the supporting documentation.

Form ES-301-6 has been completed based on the projected class size and license type at this time. The class size and makeup may change prior to the examination date.

The NRC initial license examination outlines were previously sent to you on November 20, 2012. A complete set of outline forms for both the Reactor Operator (RO) and Senior Reactor Operator (SRO) examinations are included in this submittal.

It is requested that the enclosed examination materials be withheld from public disclosure until after the initial license examinations are completed. None of the materials being sent are considered Safeguards information.

There are no regulatory commitments contained in this letter. If there are questions or if additional information is required, please contact Mr. Raymond Torres at (440) 280-5277.

In accordance with 10 CFR 55.40(b)(3) and NUREG-1021, ES-201 part C.1.g, the following signatures are provided:

Raymond Torres

Nuclear Qualification Instructor

David W. O'Donnell

Authorized Facility Representative

Sincerely,

Vito Kaminskas

Enclosures:

- A Operator License Examination with Technical References
- B Reference Material to be Provided to Candidates for Written Examination
- C Job Performance Measures Examination
- D Form ES-201-3, Examination Security Agreement
- E Form ES-301-1, Administrative Topics Outline (RO & SRO)
- F Form ES-301-2, Control Room/In-Plant Systems Outline (RO, SRO-I, SRO-U)
- G Form ES-301-3, Operating Test Quality Checklist
- H Form ES-301-4, Simulator Scenario Quality Checklist
- I Form ES-301-5, Transient and Event Checklist
- J Form ES-301-6, Competencies Checklist
- K Form ES-401-1, BWR Examination Outline
- L Form ES-401-3, Generic Knowledge and Abilities Outline-Tier 3
- M Form ES-401-4, Record of Rejected K/As
- N Form ES-401-6, Written Examination Quality Checklist
- O Form ES-D-1, Scenario Outlines
- P Form ES-D-2, Required Operator Actions

cc: NRC Document Control Desk w/o Enclosures

NRC Project Manager w/o Enclosures

NRC Region III Branch Chief w/o Enclosures

NRC Resident Inspector w/o Enclosures

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Operating Test Quality Checklist

Form ES-301-3

Facility:	Perry	Date of Examination: February 2013	Operating Test Nu	mber: :	2013	-01		
					Initials			
		1. General Criteria		а	b*	c#		
 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). 					W	RES		
b. T	 There is no day-to-day repetition between this and other operating tests to be administered during this examination. 							
c. T	he operating test sha	all not duplicate items from the applicants' audit test(s)	. (see Section D.1.a.)	w	00	ķ		
	 d. Overlap with the written examination and between different parts of the operating test is within acceptable limits. 							
	appears that the ope pplicants at the desig	erating test will differentiate between competent and le gnated license level.	ess-than-competent	pr	N	Bride		
		2. Walk-Through Criteria						
 a. Each JPM includes the following, as applicable: 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: 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. 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. 					00	Kul E OFF		
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.					00	Euß		
c. NRC	or ity Reviewer(*) Chief Examiner (#) Supervisor	Printed Name / Signature Ray Torres Dave O'Donnell Michael E. Biello, Muhal Bellin Myangin Petagan 1/12/13	Date $ \frac{12/12/12}{12 \cdot (3 \cdot (2 - 1/18/13 + 2/2)/13} $					
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.								

* will review following completion of DUDIT BXAM DOUFTURMENT/ADMINISTRATION. FIBEL-

Facility: P	erry Date of Exam: Feb. 2013 Scer	nario Numbers: 1 / 2 / 3 Operating T	est No.: 2	013-01	
QUALITATIVE ATTRIBUTES					
			а	b*	c#
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.				al	Z6S)
2.	The scenarios consist mostly of related events.		m	QP	KUS
3.	Each event description consists of			1	
	the point in the scenario when it is to be initia	ted			
	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	on)		$ \wedge \rangle$	
	the event termination point (if applicable)		m	W	RUS
4.	No more than one non-mechanistic failure (e.g., pipe scenario without a credible preceding incident such a	break) is incorporated into the s a seismic event.	w	QÒ	SiB
5.	The events are valid with regard to physics and therm	nodynamics.	m	00	258
6.	6. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.				Engs
 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. 					
8.	The simulator modeling is not altered.		m	100	[243]
9. The scenarios have been validated. Pursuant to 10 CFR 55.46(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.				QQ	₽£S
 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. 					
 All individual operator competencies can be evaluated, as verified using Form ES- 301-6 (submit the form along with the simulator scenarios). 				00	5rZ)
12.	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).			00	E183
 The level of difficulty is appropriate to support licensing decisions for each crew position. 				00	FLAS
TARGET Q	UANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)	Actual Attributes		A 4	40
1.	Total malfunctions (5-8)	5 / 6 / 7	m		स्य
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 3	m	(1)	Ka)
3.	Abnormal events (2-4)	5 / 3 / 2	m	00	E313
4.	Major transients (1-2)	1 / 1 / 1	Mr	(M)	POB
5.	EOPs entered/requiring substantive actions (1-2)	1 / 1 / 0	m	M	K&3
6.	EOP contingencies requiring substantive actions (0-2)	1 / 2 / 2	m	W	Sign
7.	Critical tasks (2-3)	3 / 4 / 6	m	(Ž)	PAR?

Fac	ility: Perry	Date of Exam: Fe	bruary 201	3 E	xam Leve	el: RO [⊠ SR	0 🛛
Item Description						Initial	1	
	•					а	b*	C#
1.	Questions and answers are technical	ally accurate and applicable to t	the facility.			W	W	Mag
2.	a. NRC K/As are referenced for allb. Facility learning objectives are re	•				m	OH	Mes
3.	SRO questions are appropriate in ac	ccordance with Section D.2.d o	f ES-401			m	40	1193
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 exams, consult the NRR OL program office). 							MG
5.	5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: X the audit exam was systematically and randomly developed; or X the audit exam was completed before the license exam was started; or the examinations were developed independently; or X the licensee certifies that there is no duplication; or other (explain)					m	QQ	rhqq
6.		e meets limits (no more than 75 percent		Modified	New		\	MGP
	from the bank, at least 10 percent no new or modified); enter the actual R question distribution(s) at right.		37.3% / 20.0%	29.3% / 28.0%	33.3% / 52.0%	m	90	ms
7.	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					
			45.3% / 12.0% 54.7% / 88.0%			M	00	MGB
References/handouts provided do not give away answers or aid in the elimination of distractors.					m	Q'P	MGB	
 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. 					m	00	mag	
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.				m	W	Maz	
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.					w	91	MGS	
. ^	uthor	Printed Name	00-1				Date 2/12/1	2
a. Author Ray Torres								
b. F	b. Facility Reviewer (*) Dave O'Donnell				12-13-12			
c. NRC Chief Examiner (#) Michael E. Bielby / Mulaul Gully				1/18/13				
d. NRC Regional Supervisor Agriphys					_ ~_	12/11	3	
Note	e: * The facility reviewer's initials.	/signature are not applicable fo						