

PROPOSED EXAMINATION SUBMITTAL AND CHECKLIST(S)

FOR THE DUANE ARNOLD RETAKE EXAM – APRIL 2008



FPL Energy Duane Arnold, LLC
3277 DAEC Road
Palo, Iowa 52324

FPL Energy

Duane Arnold Energy Center

March 28, 2008

NG-08-0236
NUREG 1021

U.S. Nuclear Regulatory Commission, Region III
Attention: Hironori Peterson
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Duane Arnold Energy Center
Docket 50-331
License No. DPR-49

Re-Examination Material for Duane Arnold Energy Center

In accordance with the guidelines of NUREG 1021, "Operating License Examination Standard for Power Reactors," Revision 9, we are sending you the simulator dynamic examination portion of the initial license examination for a Senior Reactor Operator candidate that will be re-examined during the week of April 21, 2008.

NUREG 1021 physical security requirements state that the enclosed examination materials shall be withheld from public disclosure until after the examination is complete.

You may direct any questions or comments regarding this material to Curtis Hansen or Wayne Render at 319-851-7268.

This letter contains no new commitments.

Richard L. Anderson
Vice President, Duane Arnold Energy Center
FPL Energy Duane Arnold, LLC

Enclosures

CC: Chief Operator License Branch, Region III w/o
NRC Resident Inspector w/o

APR 02 2008

BLIND CARBON COPY LIST FOR NG-08-0236
March 28, 2008

D. Curtland w/o
C. Hansen w/o
W. Render w/o
IRMS w/o
S. Catron w/o
J. Morris w/o
Licensing CTS Project w/o

SUBJECT: Re-Examination Material for Duane Arnold Energy Center

FILE CODES: A117a

Facility: DAEC		Date of Examination: 21 April, 2008		Operating Test Number: 2008-301	
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.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.				
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)				
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	N/A	N/A	N/A	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.				
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 	N/A	N/A	N/A	
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.	N/A	N/A	N/A	
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.					
Printed Name / Signature			Date		
a.	Author	Curtis Hansen / <i>Curtis Hansen</i>	3/26/08		
b.	Facility Reviewer(*)	Kevin Steimer / <i>Kevin Steimer</i>	3/27/08		
c.	NRC Chief Examiner (#)	Dell McNeil / <i>Dell McNeil</i>	4/9/08		
d.	NRC Supervisor	Hironori Peterson / <i>Hironori Peterson</i>	4/15/08		
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: DAEC		Date of Exam: 21 April, 2008		Scenario Numbers: 1 / 2 /		Operating Test No.: 2008-301	
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.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
2.	The scenarios consist mostly of related events.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
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) 			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
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.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
5.	The events are valid with regard to physics and thermodynamics.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
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.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
8.	The simulator modeling is not altered.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
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.			<i>DAEC</i>	<i>HS</i>		
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.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
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).			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			<i>DAEC</i>	<i>HS</i>	<i>DM</i>	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes			
1.	Total malfunctions (5–8)			5 / 5 /	<i>DAEC</i>	<i>HS</i>	
2.	Malfunctions after EOP entry (1–2)			2 / 1 /	<i>DAEC</i>	<i>HS</i>	
3.	Abnormal events (2–4)			2 / 1 /	<i>DAEC</i>	<i>HS</i>	
4.	Major transients (1–2)			2 / 1 /	<i>DAEC</i>	<i>HS</i>	
5.	EOPs entered/requiring substantive actions (1–2)			2 / 2 /	<i>DAEC</i>	<i>HS</i>	
6.	EOP contingencies requiring substantive actions (0–2)			0 / 2 /	<i>DAEC</i>	<i>HS</i>	
7.	Critical tasks (2–3)			1 / 2 /	<i>DAEC</i>	<i>HS</i>	

NOTE: Only one applicant being tested. Applicant will only experience 1 Abnormal on scenario 2.

Facility: **DAEC**Date of Examination: **21 April, 2008**Operating Test No.: **2008-301**

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 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 Events and Conditions	2,3,4,7					2,3,4,5,7,8										
Comply With and Use Procedures (1)	ALL					ALL										
Operate Control Boards (2)	1,2,3,5,6,7					N/A										
Communicate and Interact	ALL					ALL										
Demonstrate Supervisory Ability (3)	N/A					ALL										
Comply With and Use Tech. Specs. (3)	N/A					2,4										

Notes:

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions:

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.