

**2013 DUANE ARNOLD ENERGY CENTER**

**INITIAL LICENSE EXAMINATION**

**OUTLINE SUBMITTAL**



November 20, 2012

NG-12-0476  
NUREG 1021

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

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

Examination Material for Duane Arnold Energy Center Initial License  
Examination Week of April 8, 2013

In accordance with the guidelines of NUREG 1021, "Operating License Examination Standard for Power Reactors," Revision 9, we are sending you the integrated examination outlines for the initial license examinations to be administered at our facility the week of April 8, 2013.

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 Eric Murray at 319-851-7203.

This letter contains no new commitments.

A handwritten signature in black ink that reads "Richard L. Anderson".

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

Enclosure

CC: Chief Operator License Branch, Region III  
NRC Resident Inspector  
NRC Document Control Desk

Facility:		Date of Examination:		
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.	EM	BP	BP
	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.	EM	BP	BP
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	EM	BP	BP
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	EM	BP	BP
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.	EM	BP	BP
	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 that scenarios will not be repeated on subsequent days.	EM	BP	BP
	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.	EM	BP	BP
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.	EM	BP	BP
	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	EM	BP	BP
	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.	EM	BP	BP
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 sections.	EM	BP	BP
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	EM	BP	BP
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	EM	BP	BP
	d. Check for duplication and overlap among exam sections.	EM	BP	BP
	e. Check the entire exam for balance of coverage.	EM	BP	BP
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	EM	BP	BP
a. Author	Eric S. Murray		Date: 11/19/2012	
b. Facility Reviewer (*)	Tim Erger		11/19/12	
c. NRC Chief Examiner (#)	Bruce Palagi		12/3/12	
d. NRC Supervisor	Hironen Peterson		12/4/12	
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines			