

2011 DAVIS-BESSE NUCLEAR POWER STATION

INITIAL EXAMINATION

OUTLINE SUBMITTAL

Barry S. Allen
Vice President - Nuclear

- OPERATOR LICENSE EXAMINATION MATERIAL -
- WHEN SEPARATED FROM ENCLOSURE, HANDLE THIS
DOCUMENT AS UNRESTRICTED -

419-321-7676
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September 9, 2011

10 CFR 55

L-11-280

Mr. Keith Walton
Chief Examiner, Region III
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Subject:
Davis-Besse Nuclear Power Station, Unit 1
Docket Number 50-346, License Number NPF-3
Operator License Examination Outline

Enclosed is the operator license examination outline required to support the operator license examinations being administered at the Davis-Besse Nuclear Power Station (DBNPS) during the weeks of December 5 and December 12, 2011. These outlines are submitted in accordance with NUREG 1021, Operator Licensing Examination Standards for Power Reactors (Revision 9, Supplement 1).

The unsigned Form ES-301-4, Simulator Scenario Quality Checklist, is being sent to support Form ES-201-2, Examination Outline Quality Checklist. A signed version of this form will be sent with the exam materials.

The Westinghouse developed PWROG Random Generator software was used to generate both the RO and SRO written examination outlines. This software follows the selection process described in ES-401, Attachment 1, Example Systematic Sampling Methodology and the K/A Elimination Guidance provided in ES-401. Replacement K/As were manually selected utilizing this same guidance. Rejected K/As were documented on Form ES-401-4, Record of Rejected K/As.

The expected additions to the Exam Security Agreement are additional Operations Validation Team members.

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We request these materials be withheld from public disclosure until after the completion of the exam.

Richard Brooks, Fleet Exam Development – Lead, can respond to questions with regard to submitted operator license examination outline, at (724) 682-5723.

There are no regulatory commitments in this letter. If there are any questions or if additional information is required, please contact Mr. Anthony Stallard, Superintendent – Nuclear Operations, at (419) 321-7161.

Sincerely,

Handwritten signature of Barry S. Allen in black ink.

Barry S. Allen

vaw

Enclosure: NUREG 1021 Forms and Operator License Examination Outline

cc: Regional Administrator, NRC Region III (w/o Enclosure)
Chief, Operations Branch, NRC Region III (w/o Enclosure)
DB-1 NRC/NRR Senior Project Manager (w/o Enclosure)
DB-1 Senior Resident Inspector (w/o Enclosure)
USNRC Document Control Desk (w/o Enclosure)
Utility radiological Safety Board (w/o Enclosure)

- OPERATOR LICENSE EXAMINATION MATERIAL -
- SHALL BE WITHHELD FROM PUBLIC DISCLOSURE UNTIL AFTER THE
SCHEDULED EXAMINATIONS ARE COMPLETE -

Davis-Besse Nuclear Power Station, Unit 1
L-11-280
Enclosure

List of Enclosed NUREG Forms

Form ES-201-2, Examination Outline Quality Checklist
Form ES-201-3, Examination Security Agreement (Copy)
Form ES-301-1, Administrative Topics Outline RO – Rev. 0
Form ES-301-1, Administrative Topics Outline SRO – Rev. 0
Form ES-301-2, Control Room/In-Plant Systems Outline RO – Rev. 0
Form ES-301-2, Control Room/In-Plant Systems Outline SRO-I – Rev. 0
Form ES-301-2, Control Room/In-Plant Systems Outline SRO-U – Rev. 0
Form ES-301-4, Simulator Scenario Quality Checklist – Rev. 0
Form ES-301-5, Transient and Event Checklist – Rev. 0
Form ES-301-6, Competencies Checklist – Rev. 0

RO Written Outline:

Form ES-401-2, PWR Examination Outline – RO – Rev. 0
Form ES-401-3, Generic Knowledge and Abilities Outline Tier 3 – RO – Rev. 0

SRO Written Outline:

Form ES-401-2, PWR Examination Outline – SRO – Rev. 0
Form ES-401-3, Generic Knowledge and Abilities Outline Tier 3 – SRO – Rev. 0

Form ES-401-4, Record of Rejected K/As – Rev. 0
Form ES-D-1, Scenario Outline – Rev. 0

Additional Materials Enclosed

In addition to the materials required by NUREG 1021, Operator Licensing Examination Standards for Power Reactors, the following materials are also enclosed:

The RO and SRO written outlines used for the Audit examination.

A JPM matrix for both the Audit and NRC examinations that identifies the JPMs used on the examinations and those used on the last 2 NRC examinations.

A Scenario matrix for both the Audit and NRC examinations that identifies the events used on both examinations.

Facility: Davis-BesseDate of Exam Weeks of 12/5 & 12/12 2011

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 per ES-401.	RJB	ms	2
	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.	RJB	ms	02
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	RJB	ms	02
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RJB	ms	02
2. S I M	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.	RJB	ms	02
	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 applicant's audit test(s), and scenarios will not be repeated on subsequent days.	RJB	ms	2
	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.	RJB	ms	2
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 applicant's 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.	RJB	ms	① 02
	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.	RJB	ms	02
	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.	RJB	ms	02
	d. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	RJB	ms	02
	e. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	RJB	ms	02
	f. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RJB	ms	02
4. G E N E R A L	d. Check for duplication and overlap among exam sections.	RJB	ms	
	e. Check the entire exam for balance of coverage.	RJB	ms	2
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RJB	ms	02

Printed Name / Signature

Date

a. Author

Richard J. Brooks / *RJB*

9/8/11

b. Facility Reviewer (*)

Anthony R. Stallard / *AS*

9/8/11

c. NRC Chief Examiner (#)

David W. Reeser / *DWR*

9/15/11

① See attached comments.

d. NRC Supervisor

Hironori Peterson / *HP*

9/15/11

Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.
* Not applicable for NRC-prepared examination outlines