

**2011 DUANE ARNOLD ENERGY CENTER**

**INITIAL EXAMINATION**

**ADMINISTRATIVE FILES**

Facility: Duane Arnold Date of Examination: 06/27/2011Examinations Developed by: Facility / NRC (circle one)

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	CDJ
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	CDJ
-120	3. Facility contact briefed on security and other requirements (C.2.c)	CDJ
-120	4. Corporate notification letter sent (C.2.d)	CDJ
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	N/A
-75	6. Integrated examination outline(s) due, including Forms ES-201-2; ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	CDJ
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	CDJ
-45	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6), and reference materials due (C.1.e, f, g and h; C.3.d)	CDJ
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	CDJ
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	CDJ
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	CDJ
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	CDJ
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	CDJ
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	CDJ
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	CDJ
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	CDJ

\* 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.

**FPLE/DAEC**  
**MASTER SECURITY AGREEMENT**

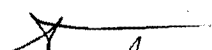



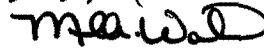
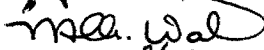

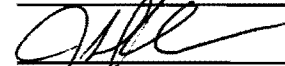
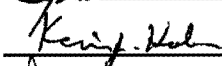
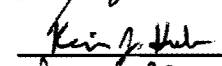



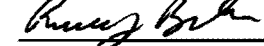
The Master Security Agreement is used for those personnel having both knowledge of Exam Sensitive Material and unrestricted access to Primary and Secondary Containment.

**1. Pre-Examination (Review TDAP 1836, Attachment 1 for pre-job briefing requirements)**

I acknowledge that I have acquired specialized knowledge about the 2011 DAEC ILT Exam examination(s) scheduled for the date(s) of 6/27/11-7-7/8/11 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 an Operations Training Supervisor. I understand that I am not to instruct, evaluate, or provide performance feedback to those individuals scheduled to be administered these examinations from this date until completion of examination administration. Acting as a simulator booth operator or communicator is acceptable if I do not select the training content or provide direct or indirect feedback to an examinee. Furthermore, I am aware of the physical security measures and requirements (as documented in NMC procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against my facility or me. I will immediately report to the Exam Project Manager any indications or suggestions that examination security may have been compromised.

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Steve Brewer	OSM		5/9/11		7/18/11	
2.	Jerry Wehr	NSDE		5/9/11		7/13/11	
3.	Maureen Warner	QPS INSTRUCTOR		5/10/11		7/13/11	
4.	Jeremy Kepler	ANSDE		5/25/11		7/11/11	
5.	Kevin Huber	CPS		6-6-11		7-8-11	
6.	David Mankin	WCC SRO		6-14-11		7-8-11	
7.	Russ Becker	OPS INSTRUCTOR (SRO)		06/27/11		7/8/2011	

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	<u>John Hoagland</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>3/21/11</u>	<u>[Signature]</u>	<u>7/8/11</u>	
2.	<u>Scott Arebaugh</u>	<u>Shift Manager</u>	<u>[Signature]</u>	<u>3/23/11</u>	<u>[Signature]</u>	<u>7/8/11</u>	
3.	<u>George Ludeking</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>3-23-11</u>	<u>[Signature]</u>	<u>7-8-11</u>	
4.	<u>Nancy Patricia</u>	<u>Admin Spec.</u>	<u>[Signature]</u>	<u>4-6-11</u>	<u>[Signature]</u>	<u>7-13-11</u>	
5.	<u>David Gibson</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>4-12-11</u>	<u>[Signature]</u>	<u>7-14-11</u>	
6.	<u>Jeffrey W. Pladsen</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>4-17-11</u>	<u>[Signature]</u>	<u>7-9-11</u>	
7.	<u>Brian Priest</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>4/22/11</u>	<u>[Signature]</u>	<u>7/9/11</u>	

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I acknowledge that I have acquired specialized knowledge about the Zell 1LT EXAM examination(s) scheduled for the date(s) of 6/27 - 7/1 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 an Operations Training Supervisor. I understand that I am not to instruct, evaluate, or provide performance feedback to those individuals scheduled to be administered these examinations from this date until completion of examination administration. Acting as a simulator booth operator or communicator is acceptable if I do not select the training content or provide direct or indirect feedback to an examinee. Furthermore, I am aware of the physical security measures and requirements (as documented in NMC procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against my facility or me. I will immediately report to the Exam Project Manager any indications or suggestions that examination security may have been compromised.

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1.	<u>Doug Peterson</u>	<u>Control Room Supervisor</u>	<u>[Signature]</u>	<u>2-24-11</u>	<u>[Signature]</u>	<u>2-11-11</u>	
2.	<u>HALDAN RASMUSSEN</u>	<u>CNS/WCES</u>	<u>[Signature]</u>	<u>2/24/11</u>	<u>[Signature]</u>	<u>2/14/11</u>	
3.	<u>K. SIRONI</u>	<u>RO</u>	<u>[Signature]</u>	<u>3/3/11</u>	<u>[Signature]</u>	<u>7/11/11</u>	
4.	<u>Jeff White</u>	<u>RO</u>	<u>[Signature]</u>	<u>3/3/11</u>	<u>[Signature]</u>	<u>2/14/11</u>	
5.	<u>Wayne Renden</u>	<u>OPS TRNG</u>	<u>[Signature]</u>	<u>3/19/11</u>	<u>[Signature]</u>	<u>7/15/11</u>	
6.	<u>Ken Morgan</u>	<u>RO</u>	<u>[Signature]</u>	<u>3-20-11</u>	<u>[Signature]</u>	<u>7-8-11</u>	
7.	<u>MICHAEL BELZ</u>	<u>RO</u>	<u>[Signature]</u>	<u>3/20/11</u>	<u>[Signature]</u>	<u>7/8/11</u>	

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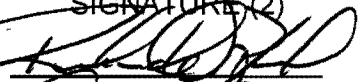









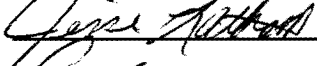
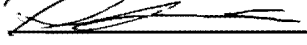
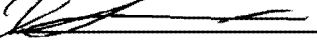
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1.	<u>RICHARD PFEIL</u>	<u>RO</u>		<u>04/25/11</u>		<u>07-21-11</u>	
2.	<u>Teryl L. Subbert</u>	<u>RO</u>		<u>04/26/11</u>		<u>7-21-11</u>	
3.	<u>Mark Gilbert</u>	<u>SRO</u>		<u>4/26/11</u>		<u>7/9/11</u>	
4.	<u>DOUG MUSE</u>	<u>RO</u>		<u>04/29/11</u>		<u>07/11/11</u>	
5.	<u>TODD MORGAN</u>	<u>SRO</u>		<u>4/30/11</u>		<u>7/11/11</u>	
6.	<u>Jesse Latham</u>	<u>RO</u>		<u>5-3-11</u>		<u>7-11-11</u>	
7.	<u>Rhett Linssen</u>	<u>RO</u>		<u>5/9/11</u>		<u>7/11/11</u>	

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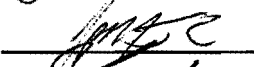


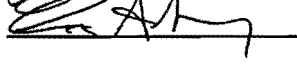
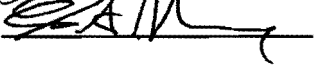
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**2. Post-Examination**

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	GORDON FULLER	ESCORT/SUBROGATE		6/27/11		7/8/11	
2.	Joe Morris	Escort		6/27/11		7/8/11	
3.	Stanley L. Vick	WRITTEN Exam Proctor		7/7/2011		7/8/2011	
4.	Eric Murray	Written Exam Proctor		7/8/11		7/8/11	
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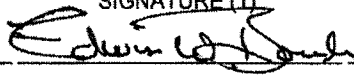
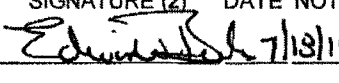
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**1. Pre-Examination**

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 06/27/11 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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. Post-Examination**

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 \_\_\_\_\_. 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
1.	Edwin W. Bowles	Exam Developer		9/20/10		7/13/11	
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1.	STEVEN DENNIS	EXAM DEVELOPER	<i>Steven Dennis</i>	9-20-10	*		*
2.	CURTIS HENSEN	Exam Project Mgr	<i>Curtis Hensen</i>	9/27/11	<i>Curtis Hensen</i>	7/18/11	
3.	Lowell Johnson	Simulator Support	<i>Lowell Johnson</i>	10/29/10	<i>Lowell Johnson</i>	7/11/11	
4.	Kelly Gassman	Simulator Support	<i>Kelly Gassman</i>	10/29/10	<i>Kelly Gassman</i>	7/13/11	
5.	TED C. GASSMAN	Simulator Support	<i>Ted Gassman</i>	12/14/10	<i>Ted Gassman</i>	7-11-11	
6.	Allen Rushworth	ADM-T	<i>Allen Rushworth</i>	2/2/11	<i>Allen Rushworth</i>	7/11/11	

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1.	STEVEN DENNIS	EXAM DEVELOPER	<i>Steven Dennis</i>	9-20-10	<i>Steven Dennis</i>	7/18/11	
2.	Curtis Hansen	Exam Project Mgr	<i>Curtis Hansen</i>	9/27/11	<i>Curtis Hansen</i>	7/18/11	
3.	Lowell Johnson	Simulator Support	<i>Lowell Johnson</i>	10/29/10	<i>Lowell Johnson</i>	7/11/11	
4.	Kelly Gassman	Simulator Support	<i>Kelly Gassman</i>	10/29/10	<i>Kelly Gassman</i>	7/13/11	
5.	TED CASSMAN	Simulator Support	<i>Ted Cassman</i>	12/14/10	<i>Ted Cassman</i>	7-11-11	
6.	Heidi Rushworth	AOM-T	<i>Heidi Rushworth</i>	7/2/11	<i>Heidi Rushworth</i>	7/10/11	

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To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the examinations administered during the date(s) of \_\_\_\_\_. 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 individuals who were administered these examinations.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	<u>CHARLES SIZEMORE</u>	<u>MCR FLEET OPS TRAINING</u>	<u>[Signature]</u>	<u>3/30/11</u>	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____

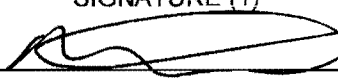
NOTES:

**1. Pre-Examination**

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \_\_\_\_\_ 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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. Post-Examination**

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	MICHAEL PETERSEN	VEL PL. GEN. SUP. TNG.		5/2/11	*		*
2.							
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NOTES:

\* See page 10

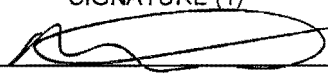
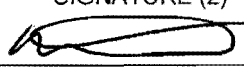
9 12

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \_\_\_\_\_ 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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. Post-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	MICHAEL PETERSEN	VEEL PL. GEN. SUP. TNG.		5/2/11		8/1/11	
2.							
3.							
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NOTES:

**FPLE/DAEC**  
**MASTER SECURITY AGREEMENT**

The Master Security Agreement is used for those personnel having both knowledge of Exam Sensitive Material and unrestricted access to Primary and Secondary Containment.

**1. Pre-Examination (Review TDAP 1836, Attachment 1 for pre-job briefing requirements)**

I acknowledge that I have acquired specialized knowledge about the 2011 DAEC ILT Exam examination(s) scheduled for the date(s) of 6/27/11-7-7/8/11 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 an Operations Training Supervisor. I understand that I am not to instruct, evaluate, or provide performance feedback to those individuals scheduled to be administered these examinations from this date until completion of examination administration. Acting as a simulator booth operator or communicator is acceptable if I do not select the training content or provide direct or indirect feedback to an examinee. Furthermore, I am aware of the physical security measures and requirements (as documented in NMC procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against my facility or me. I will immediately report to the Exam Project Manager any indications or suggestions that examination security may have been compromised.

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	<u>CHARLES SIZEMORE</u>	<u>NYLR FLEET OPS TRAINING</u>	<u>[Signature]</u>	<u>3/30/11</u>	<u>*</u>		<u>*</u>
2.	_____	_____	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____	_____	_____

NOTES:

\* See page 12

<b>FPLE/DAEC</b> <b>MASTER SECURITY AGREEMENT</b>
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The Master Security Agreement is used for those personnel having both knowledge of Exam Sensitive Material and unrestricted access to Primary and Secondary Containment.

1. **Pre-Examination** (Review TDAP 1836, Attachment 1 for pre-job briefing requirements)

I acknowledge that I have acquired specialized knowledge about the 2011 DAEC ILT Exam examination(s) scheduled for the date(s) of 6/27/11-7-7/8/11 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 an Operations Training Supervisor. I understand that I am not to instruct, evaluate, or provide performance feedback to those individuals scheduled to be administered these examinations from this date until completion of examination administration. Acting as a simulator booth operator or communicator is acceptable if I do not select the training content or provide direct or indirect feedback to an examinee. Furthermore, I am aware of the physical security measures and requirements (as documented in NMC procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against my facility or me. I will immediately report to the Exam Project Manager any indications or suggestions that examination security may have been compromised.

2. **Post-Examination**

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the examinations administered during the date(s) of \_\_\_\_\_. 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 individuals who were administered these examinations.

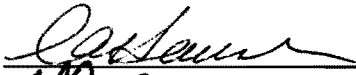

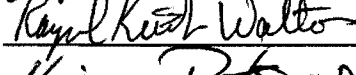
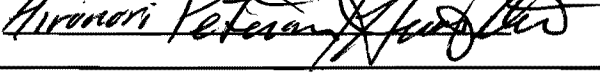
#	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	CHARLES SIZEMORE	MGR FLEET OPS TRAINING	<i>[Signature]</i>	3/3/11	<i>[Signature]</i>	7/19/11	
2.							
3.							
4.							
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7.							

NOTES:

Tier / Group	Randomly Selected KA	Reason for Rejection
2 / 1	203000, K5.01 / 203000, K5.02	RO #10, Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: INJECTION MODE (PLANT SPECIFIC): Testable check valve operation. DAEC does NOT have RHR testable check valves. This K/A was deleted and replaced with K5.02 - Knowledge of the operational implications of the following concepts as they apply to RHR/LPCI: INJECTION MODE (PLANT SPECIFIC): Core cooling methods.
1 / 1	295031, 2.1.23 / 295031, EK1.03	RO #54, Conduct of Operations: Ability to perform specific system and integrated plant procedures during all modes of plant operation. Similar topic area as #16 & #87.  Randomly selected EK1.03 - - Knowledge of the operational implications of the following concepts as they apply to REACTOR LOW WATER LEVEL: Water level effects on reactor power
1 / 1	295016, 2.4.41 / 295016, 2.1.2	RO #57, Emergency Procedures / Plan: Knowledge of the emergency action level thresholds and classifications. This is not performed by the RO license level.  Randomly selected Conduct of Operations - 2.1.2 - Knowledge of operator responsibilities during all modes of plant operation.
1 / 1	295028, EK1.01 / 295028, EK1.02	RO # 58, Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL TEMPERATURE: Reactor water level measurement. Same concept as #38  Randomly selected EK1.02 - Knowledge of the operational implications of the following concepts as they apply to HIGH DRYWELL TEMPERATURE: Equipment environmental qualification
1 / 2	500000, EK2.06 / 500000, EK2.03	RO #60, Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following: Wetwell Spray system. Information is contained in the SAGs  Randomly selected EK2.03, Knowledge of the interrelations between HIGH CONTAINMENT HYDROGEN CONCENTRATIONS the following: Containment Atmosphere Control System
1 / 2	295031, 2.1.20 / 295022, 2.1.20	RO #64, Conduct of Operations: Ability to interpret and execute procedure steps. Similar to #16 and 87, EAPE oversampled. (Reactor Low Level)  Randomly selected 295022, Loss of Control Rod Drive Pumps



2 / 1	259002, A2.03 / 259002, A2.05	RO #16, Ability to (a) predict the impacts of the following on the REACTOR WATER LEVEL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Loss of reactor water level input is the same K/A as question #87. To prevent a double jeopardy situation randomly selected 259002, A2.05 - Ability to (a) predict the impacts of the following on the REACTOR WATER LEVEL CONTROL SYSTEM; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations: Loss of applicable plant air systems
3 / 1	2.1.6 / 2.1.1	RO #66, Ability to manage the control room crew during transient conditions. This is an SRO function.  Randomly selected 2.1.1, Knowledge of conduct of operations requirements
3 / 4	2.4.46 / 2.4.8	RO #74, Ability to verify that the alarms are consistent with the plant conditions. This topic is the same as SRO #98.  Randomly selected 2.4.8, Knowledge of how abnormal operating procedures are used in conjunction with EOPs
3 / 3	2.3.6 / 2.3.11	<del>SRO #97</del> , Ability to approve release permits does not apply to DAEC which does not conduct releases.  96 emj Randomly selected 2.3.11, Ability to control radiation releases

Facility: <u>DAEC</u>		Date of Exam: <u>7/8/11</u>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>RLW</u>	<u>u</u>	<u>RLW</u>		
2. Answer key changes and question deletions justified and documented	<u>RLW</u>	<u>u</u>	<u>RLW</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>RLW</u>	<u>u</u>	<u>RLW</u>		
4. Grading for all borderline cases (80 $\pm$ 2% overall and 70 or 80, as applicable, $\pm$ 4% on the SRO-only) reviewed in detail	<u>RLW</u>	<u>u</u>	<u>RLW</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>D/A</u>	<u>N/A</u>	<u>N/A</u> <u>RLW</u>		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>RLW</u>	<u>u</u>	<u>RLW</u>		
Printed Name/Signature		Date			
a. Grader	<u></u>	<u>7/11/11</u>			
b. Facility Reviewer(*)	<u></u>	<u>7/11/11</u>			
c. NRC Chief Examiner (*)	<u></u>	<u>7/18/2011</u>			
d. NRC Supervisor (*)	<u></u>	<u>7/18/11</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					



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

July 12, 2011  
NG-11-0264

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

Subject: Duane Arnold Energy Center  
Docket No. 50-331  
Op License No: DPR-49  
Examination Material for DAEC Initial Examination Week of July 4, 2011

References: NUREG 1021, "Operating License Examination Standard for Power Reactors,"  
Revision 9, Supplement 1

Dear Mr. Zoia:

In accordance with the guidelines of NUREG 1021, "Operating License Examination Standard for Power Reactors," Revision 9, we are sending you the completed Written Exam material for the initial license examinations held at our facility the week of July 4, 2011.

We have reviewed the one question missed by more than half of the applicants and have written an Action Request to revise one of our System Descriptions to enhance an explanation. The candidates had no comments on the written exam.

The signed-off Exam Security agreement will be forwarded to you as soon as it has been completed.

You may direct any questions or comments regarding this material to Curtis Hansen at 319-851-7268 (or 7632).

Sincerely,

A handwritten signature in black ink, appearing to read "William L. Simmons".

William L. Simmons  
Training Manager, DAEC

JUL 13 2011

	<b>WRITTEN/ORAL EXAMINATION COVERSHEET</b>
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<b>Trainee Name:</b>	
<b>Employee Number:</b>	<b>Site:</b> DAEC
<b>Examination Number/Title:</b> <i>Series A, Rev. 0, 2011 NRC Reactor Operator Initial License Exam</i>	
<b>Training program:</b> <i>Initial License Training</i>	
<b>Course/Lesson Plan Number(s):</b> <i>50007 / Various</i>	
<b>Total Points Possible:</b> 75	<b>PASS CRITERIA:</b> $\geq 80\%$
<b>Grade:</b> ____ / <u>75</u> = ____ %	
<b>Graded by:</b>	<b>Date:</b>
<b>Co-graded by (if necessary):</b>	
<b>Date:</b>	

**EXAMINATION RULES**

- |  |
|--|
| 1. References may not be used during this examination, unless otherwise stated.  |
| 2. Read each question carefully before answering. If you have any questions or need clarification during the examination, contact the examination proctor. |
| 3. Conversation with other trainees during the examination is prohibited.  |
| 4. Partial credit will not be considered, unless otherwise stated. Show <b>all</b> work and state <b>all</b> assumptions when partial credit may be given. |
| 5. Rest room trips are limited and only one examinee at a time may leave.  |
| 6. For exams with time limits, you have <b>360 (6 Hours)</b> minutes to complete the examination.  |
| 7. Feedback on this exam may be documented on QF-1040-13, Exam Feedback Form. Contact Instructor to obtain a copy of the form.                             |
| 8. Once the examination is completed, you are <b>NOT</b> to discuss the contents of the examination outside the controlled examination environment.        |

**EXAMINATION INTEGRITY STATEMENT**

Cheating or compromising the exam will result in disciplinary actions up to and including termination.

"I acknowledge that I am aware of the Examination Rules stated above. Further, I have not given, received, or observed any aid or information regarding this examination prior to or during its administration that could compromise this examination."

**Examinee's Signature:****Date:****REVIEW ACKNOWLEDGEMENT**

"I acknowledge that the correct answers to the exam questions were indicated to me following the completion of the exam. I have had the opportunity to review the examination questions with the instructor to ensure my understanding.

**Examinee's Signature:****Date:**

Retention: 6 years

Retain in: Training Records

	<b>WRITTEN/ORAL EXAMINATION COVERSHEET</b>
--	--

<b>Trainee Name:</b>		
<b>Employee Number:</b>	<b>Site:</b> DAEC	
<b>Examination Number/Title:</b> <i>Series A, Rev. 0, 2011 NRC Senior Reactor Operator Initial License Exam</i>		
<b>Training program:</b> <i>Initial License Training</i>		
<b>Course/Lesson Plan Number(s):</b> <i>50007 / Various</i>		
<b>Total Points Possible:</b> 25	<b>PASS CRITERIA:</b> $\geq 80\%$	<b>Grade:</b> ____ / <u>25</u> = ____ %
<b>Graded by:</b>		<b>Date:</b>
<b>Co-graded by (if necessary):</b>		<b>Date:</b>

### EXAMINATION RULES

- |  |
|--|
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| 2. Read each question carefully before answering. If you have any questions or need clarification during the examination, contact the examination proctor. |
| 3. Conversation with other trainees during the examination is prohibited.  |
| 4. Partial credit will not be considered, unless otherwise stated. Show <b>all</b> work and state <b>all</b> assumptions when partial credit may be given. |
| 5. Rest room trips are limited and only one examinee at a time may leave.  |
| 6. For exams with time limits, you have <b>120 (2 Hours)</b> minutes to complete the examination.  |
| 7. Feedback on this exam may be documented on QF-1040-13, Exam Feedback Form. Contact Instructor to obtain a copy of the form.                             |
| 8. Once the examination is completed, you are <b>NOT</b> to discuss the contents of the examination outside the controlled examination environment.        |

### EXAMINATION INTEGRITY STATEMENT

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"I acknowledge that I am aware of the Examination Rules stated above. Further, I have not given, received, or observed any aid or information regarding this examination prior to or during its administration that could compromise this examination."

**Examinee's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

### REVIEW ACKNOWLEDGEMENT

"I acknowledge that the correct answers to the exam questions were indicated to me following the completion of the exam. I have had the opportunity to review the examination questions with the instructor to ensure my understanding.

**Examinee's Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

Retention: 6 years

Retain in: Training Records

**Duane Arnold**  
**2011 NRC Initial License Written Examination**  
**Written Examination Outline Methodology**

The written examination outline was developed using a proprietary electronic random outline generator developed by Western Technical Services, Inc.

The software was designed to provide a written examination outline in accordance with the criteria contained in NUREG 1021, Revision 9, Supplement 1.

The application was developed using Visual Basic code, relying on a true random function based on the PC system clock. The random generator selects topics in a Microsoft Access Database containing Revision 2, Supplement 1 of the BWR K&A catalogue. The selected data is then written to a separate data table. The process for selection of topics is similar to the guidance in ES-401, Attachment 1.

The attached outline report and plant specific suppression profile report is written directly from the data tables created by the software. Electronic copies of the data tables are on file.

The process used to develop the outlines is as follows:

- For Tier 1 and Tier 2 generic items, only the items required to be included in accordance with ES-401, section D.1.b are included in the generation process.
- Outline is generated for all topics with KA importance  $\geq 2.5$ .
- 25 SRO topics are randomly selected from Tier 1 A2 and required generic items, Tier 2 A2 and required generic items, (including all System 034 topics) and Tier 3 generic items (All with ties to 10CFR55.43). 75 RO topics are randomly selected to complete the outline, 100 topics total.
- The exam report generated lists the topic (Question) number in the far right column. RO topics are numbered 1-75, and SRO topics are numbered 76-100. The SRO topics are written in red ink for ease of identification.
- Items that are rejected after the initial generation process are placed on the rejected items page. Replacement topics are either randomly generated or are inserted upon direction of the Chief Examiner.
- Disposition of any item randomly selected but not included in the outline is documented and included.
- A report of items suppressed is included with the outline submittal documentation.