July 16, 2026
ULNRC07026

Chris Harrington
Senior Operations Engineer
U.S. NRC Region IV
Division of Reactor Safety, Operations Branch
1600 East Lamar Boulevard
Arlington, Texas 76011-4511

Callaway Plant, Unit 1
Facility Operating License No. NPF-30
Docket No. STN 50-483

Subject: Submittal of Written Exam Results and Post Exam Items for Initial License Class 2026

Dear Mr. Harrington,

Enclosed you will find the written examination supplemental materials that were administered on 7/15/2026 at Callaway Energy Center.

The exam item analysis performed showed that Questions 13, 21, 46, 57, 59, 63, 65, and 69 were high miss questions (≥ 50% failure rate). The results of the exam item analysis found no question flaws with any of these questions. Training Requests (TR2026319 – TR2026326) were generated to evaluate ILT enhancements based on the above high missed questions.

An exam review was held on July 16, 2026, with the 2026 applicants, resulting in no challenges or comments regarding any of the questions.

CR202603321 was written to address the overall weakness for extrapolating curves in the Tank Data Book as discussed in the 2026 Operational Exam Debrief held on 7/9/2026. This overall weakness will be addressed during GAP training during the week of 7/20/2026 for ILT Class 2026. Additionally, course enhancement 1121 was generated to incorporate a modified version of the Admin JPM given on the ILT 2026 NRC exam during the A-Mod phase for future ILT classes.

In accordance with NUREG-1021, Revision 12, please ensure that these materials are withheld from public disclosure.

Should you have any questions concerning the examination materials, please contact Bryan Pearson [redacted].

Respectfully,

Gregory J. Cizin
Manager, Operations
Callaway Energy Center

Enclosures: All forms are being transmitted electronically.

- 1 Ungraded SRO or RO original answer sheet for each applicant
- 1 Graded SRO or RO answer sheet for each applicant with their associated Form 4.2-3 or Form 4.2-4 Cover Sheet
- Master Written Examinations and Answer Keys (Annotated with changes)
- Applicants' questions and resolutions
- Seating Chart
- Examination Security Agreements (Form 1.3-1)

		Count	Score	R5		R3		R2		R4		R1		I2		I1		
		18 - A's	(Avg)	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	
	RO	26 - B's		62	82.7%	63	84.0%	66	88.0%	63	84.0%	60	80.0%	62	82.7%	66	88.0%	
	SRO	27 - C's												23	92.0%	21	84.0%	
	Combined	29 - D's												85	85.0%	87	87.0%	
	Question #	KEY		RESPONSE	RESULT	RESPONSE	RESULT	RESPONSE	RESULT			RESPONSE	RESULT	RESPONSE	RESULT	RESPONSE	RESULT	% CORRECT
1	RO 01	A		A		A		A		A		A		A		A		100.0%
2	RO 02	B		B		B		B		B		D		D		B		71.4%
3	RO 03	B		B		B		B		B		B		B		C		85.7%
4	RO 04	A		A		A		A		A		A		A		A		100.0%
5	RO 05	C		D		C		C		C		D		C		C		71.4%
6	RO 06	C		C		C		C		C		C		C		C		100.0%
7	RO 07	B		B		B		B		B		B		B		B		100.0%
8	RO 08	D		D		D		D		D		D		D		D		100.0%
9	RO 09	B		D		B		D		D		B		B		B		57.1%
10	RO 10	A		D		A		A		A		A		A		C		71.4%
11	RO 11	A		A		A		A		A		C		A		A		85.7%
12	RO 12	D		D		D		D		D		D		D		D		100.0%
13	RO 13	D		B		B		D		B		B		B		B		14.3%
14	RO 14	C		C		C		C		D		C		C		C		85.7%
15	RO 15	B		B		B		B		B		B		B		B		100.0%
16	RO 16	C		C		C		C		C		C		C		C		100.0%
17	RO 17	C		C		A		C		C		C		C		C		85.7%
18	RO 18	D		D		D		D		D		D		D		D		100.0%
19	RO 19	D		D		D		D		D		D		D		D		100.0%
20	RO 20	C		C		C		C		C		C		C		C		100.0%
21	RO 21	D		A		B		A		D		D		C		D		42.9%
22	RO 22	B		B		B		A		B		A		A		B		57.1%
23	RO 23	C		C		C		C		C		C		C		C		100.0%
24	RO 24	B		B		B		B		B		A		B		B		85.7%
25	RO 25	D		D		D		D		D		D		D		D		100.0%
26	RO 26	A		A		A		A		A		A		A		A		100.0%
27	RO 27	D		D		D		D		D		D		D		D		100.0%
28	RO 28	D		D		D		D		D		D		D		D		100.0%
29	RO 29	C		C		C		C		C		C		A		C		85.7%
30	RO 30	A		A		A		A		A		B		A		A		85.7%
31	RO 31	D		D		D		D		D		D		D		D		100.0%
32	RO 32	D		D		D		D		C		C		D		D		71.4%
33	RO 33	D		D		D		D		D		D		D		D		100.0%
34	RO 34	A		A		A		A		B		B		A		A		71.4%
35	RO 35	B		B		A		B		B		A		B		B		71.4%
36	RO 36	C		C		C		C		C		C		C		C		100.0%
37	RO 37	A		A		A		D		A		A		A		A		85.7%
38	RO 38	C		C		C		C		C		C		C		C		100.0%
39	RO 39	C		C		C		C		C		C		C		C		100.0%
40	RO 40	C		C		C		A		A		C		A		C		57.1%
41	RO 41	B		B		B		B		B		B		B		B		100.0%
42	RO 42	A		C		B		A		A		A		A		A		71.4%
43	RO 43	D		D		D		D		D		D		D		D		100.0%
44	RO 44	D		D		D		D		D		D		D		D		100.0%
45	RO 45	B		B		B		C		B		B		B		B		85.7%
46	RO 46	A		B		C		A		C		A		C		A		42.9%
47	RO 47	C		C		C		C		C		C		C		C		100.0%
48	RO 48	C		C		C		C		C		C		C		C		100.0%
49	RO 49	D		D		D		D		D		D		D		D		100.0%
50	RO 50	D		D		D		C		D		D		D		D		85.7%
51	RO 51	B		B		B		B		B		B		B		B		100.0%

		Count	Score	R5		R3		R2		R4		R1		I2		I1		
		18 - A's	(Avg)	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	Score #	Score %	
	RO	26 - B's		62	82.7%	63	84.0%	66	88.0%	63	84.0%	60	80.0%	62	82.7%	66	88.0%	
	SRO	27 - C's												23	92.0%	21	84.0%	
	Combined	29 - D's												85	85.0%	87	87.0%	
	Question #	KEY		RESPONSE	RESULT	RESPONSE	RESULT	RESPONSE	RESULT			RESPONSE	RESULT	RESPONSE	RESULT	RESPONSE	RESULT	% CORRECT
52	RO 52	D		D		D		D		D		D		D		D		100.0%
53	RO 53	A		A		A		A		A		A		A		A		100.0%
54	RO 54	B		B		B		B		B		A		B		B		85.7%
55	RO 55	C		C		A		C		C		C		C		C		85.7%
56	RO 56	C		C		C		C		C		C		C		C		100.0%
57	RO 57	C		C		D		C		D		D		D		D		28.6%
58	RO 58	B		A		B		B		B		B		B		B		85.7%
59	RO 59	D		B		B		A		D		D		A		B		28.6%
60	RO 60	C		C		C		C		C		C		C		C		100.0%
61	RO 61	B		B		B		B		B		B		B		D		85.7%
62	RO 62	B		B		B		B		B		B		B		B		100.0%
63	RO 63	C		D		D		C		C		C		D		D		42.9%
64	RO 64	A		A		A		A		A		A		A		A		100.0%
65	RO 65	B		B		A		B		A		B		A		A		42.9%
66	RO 66	B		B		B		B		A		D		B		B		71.4%
67	RO 67	C		D		C		C		C		C		C		C		85.7%
68	RO 68	D		D		D		D		D		D		D		D		100.0%
69	RO 69	C		C		B		C		D		D		D		C		42.9%
70	RO 70	D		D		D		B		D		A		D		D		71.4%
71	RO 71	D		C		D		D		D		D		D		C		71.4%
72	RO 72	B		C		B		B		D		B		B		B		71.4%
73	RO 73	B		B		B		B		B		B		B		B		100.0%
74	RO 74	B		B		B		B		B		B		B		B		100.0%
75	RO 75	C		C		C		C		C		C		B		C		85.7%
76	SRO 1 / 76	D												D		C		50.0%
77	SRO 2 / 77	D												C		D		50.0%
78	SRO 3 / 78	C												C		C		100.0%
79	SRO 4 / 79	C												C		C		100.0%
80	SRO 5 / 80	B												B		B		100.0%
81	SRO 6 / 81	A												A		A		100.0%
82	SRO 7 / 82	B												B		A		50.0%
83	SRO 8 / 83	A												A		A		100.0%
84	SRO 9 / 84	D												D		D		100.0%
85	SRO 10 / 85	B												B		B		100.0%
86	SRO 11 / 86	A												A		A		100.0%
87	SRO 12 / 87	A												B		A		50.0%
88	SRO 13 / 88	B												B		B		100.0%
89	SRO 14 / 89	D												D		D		100.0%
90	SRO 15 / 90	C												C		C		100.0%
91	SRO 16 / 91	D												D		D		100.0%
92	SRO 17 / 92	B												B		B		100.0%
93	SRO 18 / 93	D												D		B		50.0%
94	SRO 19 / 94	D												D		D		100.0%
95	SRO 20 / 95	C												C		C		100.0%
96	SRO 21 / 96	C												C		C		100.0%
97	SRO 22 / 97	A												A		A		100.0%
98	SRO 23 / 98	B												B		D		50.0%
99	SRO 24 / 99	D												D		D		100.0%
100	SRO 25 / 100	A												A		A		100.0%

EXAM ITEM ANALYSIS

Exam ID#: ILT 2026 NRC EXAM

Date Evaluation Instrument Administered: 7/15/2026

Number of Applicants Evaluated: 5 RO / 2 SRO

Section A – Any question receiving greater than 50% failure rate ☐ N/A

List each question receiving greater than 50% failure rate.

Question Number	Question Failure Rate (%)	Review Conclusion*	Corrective Action
13	85.7%	G	Initiated TRRQ / Enhancement for ILT Program (TR2026319)
21	57.1%	A	Initiated TRRQ / Enhancement for ILT Program (TR2026320)
46	57.1%	B	Initiated TRRQ / Enhancement for ILT Program (TR2026321)
57	71.4%	A	Initiated TRRQ / Enhancement for ILT Program (TR2026322)
59	71.4%	A	Initiated TRRQ / Enhancement for ILT Program (TR2026323)
63	57.1%	A	Initiated TRRQ / Enhancement for ILT Program (TR2026324)
65	57.1%	G	Initiated TRRQ / Enhancement for ILT Program (TR2026325)
69	57.1%	A	Initiated TRRQ / Enhancement for ILT Program (TR2026326)

*Review Conclusion

A. Insufficient training for the learning objective tested
B. Learning objectives not adequately covered in the lesson plan
C. Poorly worded or invalid learning objective
D. Poorly worded or invalid test item or answer
E. Incorrect answer in the exam key
F. More than one correct answer
G. Question acceptable
H. Other (state reason in table or on additional sheet)

Section B – Greater than 25% overall exam failure ☒ N/A

Conclusion Summary	Corrective Action
N/A	N/A

Review performed by: Travis McKenna (13223) Date: 7/16/2026

Approved by: Bryan Pearson (160696) Date: 7/16/2026
Training Supervision

CONDITION REPORT

AMEREN	CONDITION REPORT	202603321

Type	Category	Status	Start Date	End Date	Description
NCAQ	OTHER	COMP		July 22, 2026	Extrapolating Tank Data Book curves was recognized by the NRC during license 2026 evaluation debrief

Initiated Date: July 16, 2026
Due Date: August 13, 2026
Business Tracker: N
DiscoveryDate:
Original Due Date: August 13, 2026
Responsible Department: 80Y

	Name	Department	QID
Initiator:	Pearson, Bryan A	80Y	E173253
Shift Manager:			
CR Owner:	Turner, Robert G	80Y	E34125

Condition Details:

Extrapolating Tank Data Book curves was recognized as a general weakness by the NRC during license 2026 evaluation debrief.

During the 2026 Initial License Training Operational Exam, 4 of the 5 RO applicants failed an Admin JPM that involved finding a point on a curve located in the Tank Data Book.

Initial Actions Taken:

Created training enhancement 1121 to incorporate a modified JPM into ILT A-Mod phase of training.

Additionally, included class time during upcoming GAP training phase of the program to perform a modified version of the JPM administered during the ILT 2026 NRC exam.

Discussed actions with the NRC chief examiner, Exam STS, and ILT STS.

Suggested Solution:

Complete Admin JPM for the current 2026 license class during GAP training which will be conducted from 7/20/2026 - 7/31/2026.

Incorporate modified Admin JPM into A Mod phase during future ILT classes.

Locations & Assets

Locations	Location Description	Crit	SPV	MR

No Locations? Y
Operations Review Required? N

Operations Review:

Immediate Reportability?
Ops Determination?
DNCR?
SM Notified?

Value	Comments

Operability Comments:

Reportable?
N

POD Required?
N

Does Condition have the potential to Impact Operability?
N

Related Condition Reports:

CR Number	Description	Status	Type	Category	Class

Related Activity:

Activity Number	Description	Status	Activity Type	Class

Solution Details

Problem Statement:
Extrapolating Tank Data Book curves was recognized as a general weakness by the NRC during license 2026 evaluation debrief.

Extent of Condition:

Cause:
During the 2026 Initial License Training Operational Exam, 4 of the 5 RO applicants failed an Admin JPM that involved finding a point on a curve located in the Tank Data Book.

Action Plan:
Created training enhancement 1121 to incorporate a modified JPM into ILT A-Mod phase of training.

Additionally, included class time during upcoming GAP training phase of the program to perform a modified version of the JPM administered during the ILT 2026 NRC exam.

Discussed actions with the NRC chief examiner, Exam STS, and ILT STS.

Extent of Cause:

Executive Summary:

Effectiveness Review Criteria:

Resolution:
Enhancement created 1121 that will incorporate a modified JPM for using tank data book into ILT A-Mod of training. COMPLETE.

Completed remediation during GAP training covering missed JPM and practiced a modified JPM for use of tank data book. COMPLETE.

No further actions needed.

Additional Information:

Operating Experience:

CR Number	Description	Status	Type	Category

MRC Review

MRC Required?
MRC Review Complete?
MRC Reviewed By?
MRC Reviewed Date:
MRC Review Comments:

MRC Brief

MRC Brief By:
MRC Brief Date:
MRC Brief Comments:

Screening

Screening Comments:

Keywords

Keywords	
TRAINING	
TRNG ILT	

Trend Codes

Event Trend Codes

Trend Code	Description

Cause Trend Codes

Trend Code	Description

Assignment History

	Assignee Name	QID	Memo
NuclearN Hold	MAXADMIN	MAXADMIN	WFREJECT

Closure Reason:

Attachments

Documents	Description	Print?	URL

References

Number	Title	Link

Addtional Fields

Performance Code: OUTSIDE IDENTIFIED
Report Attached? N
Detection Method:
ORC Meerting Number:
Boric Acid Leak? N

Status History

Status	Change By	QID	Change Date	Memo
DRAFT	Pearson, Bryan A	E173253	2026-07-16 17:40:19 -05:00	
WAPPR	Pearson, Bryan A	E173253	2026-07-16 17:57:36 -05:00	
MRCSCRNRVW	PRIESS, Cindy M	E36779	2026-07-20 12:54:55 -05:00	
EVAL	Smith, Dana L	C47453	2026-07-21 20:13:51 -05:00	
COMP	Turner, Robert G	E34125	2026-07-22 11:56:44 -05:00	