

Mr. Setzer,

Please find enclosed the post-examination package for the Limerick ILT 21-1 NRC Exam, as required by NUREG-1021 ES-4.4. Included are the following.

- the graded written examinations (i.e., each applicant's original answer and examination cover sheets) plus a clean copy of each applicant's answer sheet
- any questions asked by the applicants and the answers given to the applicants during the written examination (ES-4.3)
- all examination administration or postexamination review comments made by the facility licensee and the applicants after the written examination and operating tests (ES-4.3)
- the seating chart for the written examination (ES-4.3)
- the results of any performance analysis for the written examination, with recommended substantive changes

The following are not included in this package, per our discussion on 12/19/2022. If you find you do need this or other information, please do not hesitate to ask either Seth Mitten or Chris Bihl.

- the master written examinations and answer keys, annotated to indicate any changes made while administering and grading the examinations, because no changes were made between the final submittal and as-administered examination.
- Form 1.3-1, "Examination Security Agreement," with a pre- and post-examination signature by every individual who had detailed knowledge of any part of the operating tests or written examinations before they were administered, due to being in-progress in collecting postexamination signatures. The final Form 1.3-1 will be emailed upon completion.

This letter serves as documentation (through a cover letter or other correspondence) of facility licensee management or supervisor concurrence, as described in ES-4.4.

Again, if you need any additional information, please reach out to either Seth Mitten or Chris Bihl.

Respectfully,



Jeffrey Weaver
Manager Operations Services
Limerick Generating Station
Facility Representative for ILT 21-1

BACK OF ROOM

JORDAN GALL

KEVIN FLOREK

CODY SAVAGE

SETH BAKES

KAITLYN WAGNER

JOHN YOUNG

PATRICK MURPHY

ANDREW WAGES

MELISSA PISTON

**ORLANDO
CREDEDINO**

DAVE HOLCOMB

NEIL PATEL

FRONT OF ROOM

FORM 9 – EXAM ITEM ANALYSIS

Exam ID# ILT 21-1 NRC Exam

Date Evaluation Instrument Administered: 12/15/22

Number of Trainees Evaluated: 9 SRO / 3 RO (12 Total)

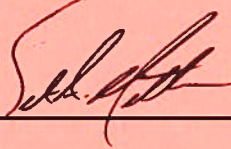
Section A – Any question receiving greater than 50% failure rate <input type="checkbox"/> N/A


List each question receiving greater than 50% failure rate.

Question Number	Question Failure Rate (%)	Review Conclusion*	Corrective Action
44	58%	G	Editorial change for readability
87 (SRO)	66%	G	Editorial change for readability
99 (SRO)	55%	G	No changes required
*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 <input checked="" type="checkbox"/> N/A

Conclusion Summary	Corrective Action

Review performed by:  Date: 12/19/22

Approved by:  Date: 12/19/22
Training Supervision

Exam Comment Sheet

 Date: 12/19/22

 Submitted By: Summary (Seth Mitten)
 RO SRO

 Exam Section(s): Written / Walk-Through / Simulator Scenario

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Question #7	Enhance wording to stress <i>immediate</i> effect on 125VDC Loads	Remove the words "continue to" from column 2 of all answers	NA	Complete
Question #44	Enhance wording to clarify "floor grating" refers to the 201' Elevation grating	Change ", as seen from" to "of the" 201' Elevation	NA	Complete
Question #69	Ensure printed graph is not blurry	Print graph separately on full sheet (printer issue, not a problem with embedded graph).	NA	NA
Question #75	When no significant figures are used, the unrounded value is above 77.2%	No change. Significant figures should be used.	NA	NA
Question #87	Ensure distractor B is sufficiently different from answer C. To the novice candidate, B and C appear similar.	This is a proficiency comment. Recommend using the question for requal candidates instead of initial candidates, since it validated well (80%) with the requal population.	NA	NA

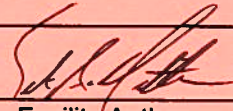
Exam Comment Sheet

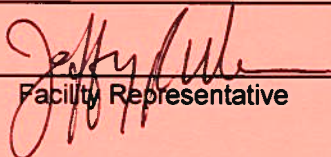
Question #90	Clarify in distractors A and C that the <i>exhaust</i> will pressurize the containment.	Added the word exhaust to distractors A and C	NA	Complete
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 Additional comments: None

 Exam Analyzer comments: None

 Final Resolution: As documented

 Reviewed by:  12/19/22
 Facility Author Date

 Approved by:  12/19/22
 Facility Representative / Date

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: _____

D. id

Time: 0905

Question #: 26

Question: Should we have ON-122 For Phase 2

Resolution: YOU HAVE ALL REQUIRED
INFORMATION TO ANSWER
THE QUESTION

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name _____

Time: 1202

Question #: 7

Question: Battery 1B42 is being discharged. The stem of the question does not indicate any undervoltage alarms. This means that the battery has adequate capacity to continue supplying loads until it is exhausted. The battery's capacity is 1500 Ah. Its mission time is 4 hours. 1 hour has elapsed in the stem of the question. The current discharge rate is not excessive. Upon considering all of these facts over →

Resolution: You HAVE ALL THE INFORMATION NEEDED TO ANSWER THE QUESTION

I can make the argument that the immediate effect is that "All of the loads will continue to function" and "Approximately half of the loads will continue to function," are both correct statements.

How long is the duration of time that the word "continue" refers to?

Is the word "immediate" meant to imply more than one effect?

How

I know that the battery will eventually discharge and $\frac{1}{2}$ of the loads will be lost.

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: _____

Time: 11:09

Question #: 76

Question: Part 1 of the question — are we considering
indication OR Tech Specs entered when

Tech Specs immediately entered and the part loses the
position)? OR

Resolution: You have all the information needed
to answer the question

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: John Doe

Time: 1530

Question #: 63

Question: are the level indicators in any
alternate mode or are they as indicated in the
given chart?

Resolution: You HAVE ALL THE INFORMATION
You NEED TO ANSWER THE QUESTION

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: _____

Time: 1114 _____

Question #: 53 _____

Question: What does "1UD-AF100, 1CLOB
AF100 failure" mean?

Resolution: You have all the information needed
to answer the question.

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: _____

Time: 11:50 _____

Question #: 25 _____

Question: ~~With level +6" up fast prior to the 45 minute time, is R/C~~

~~Capable of maintaining level alone or is HPCI required to maintain level at the t=45 min mark?~~

With RPV Level +6" up fast with HPCI and R/C injecting at $t=0$, is HPCI required for level control at $t=45$ or is R/C able to maintain level alone? The trend up fast doesn't differentiate what is needed to maintain level.

Resolution: You HAVE ALL INFORMATION
NEEDED TO ANSWER QUESTION

Test: 21-1 ILT WRITTEN EXAM

Date: 12/15/22

Name: _____

Time: 13:44 _____

Question #: 83 _____

Question: Has the HPS signal become elliptical due to the atmosphere at 24.25'

Or is HPS aligned to its initial source?

Resolution: You Have All INFORMATION NEEDED

TO ANSWER THE QUESTION.