

February 15, 2002

Mr. Paul Gage, Lead Examiner
U. S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

Subject: Initial License Written Examination Results for ANO, Unit 2 (CE)
(NRC Inspection Report 50-368/2002-301)

Dear Mr. Gage:

The examination analysis for the written examination that was administered on February 8, 2002 has been completed. The following summary provides the information as required by ES-403 for post examination activities.

Examination Grading –

All exams were manually reviewed, after machine grading, to check for errors. The Scantron made errors on 4 SROU exams, where a correct answer was marked wrong due to inadequate erasure. The corrections were identified on the individuals' answer sheets and are reflected in the final score.

There were no exam failures and no exams that fell into the $80 \pm 2\%$ criteria. All exam scores were reviewed in detail to ensure proper scoring.

Exam/Question Analysis –

Questions which were missed by half or more of the class (at least three of the six RO candidates or at least five of the ten SRO candidates) were reviewed for question errors and for required program changes. These questions are listed in Attachment 1 with their resolution.

Attachment 2 lists the clarification questions asked by the License candidates and the proctors' responses.

Candidate Review of Exam –

All candidates have reviewed their exams and the questions missed have been discussed.
There are no requested appeals by the candidates on the grading of the written exam.

Please call me at 479/858-6932 or Tom Mayfield at 479/858-6886 if you have any questions.

Sincerely,

Daniel R. Sealock
Facility Representative
Arkansas Nuclear One
Supervisor, Simulator Support

CC (w/o attachments): Sherrie Cotton

Jay Miller
Tom Mayfield
James Hatman
Tim Mitchell
Jody Sigle
Licensing

Attachment 1

Exam Question Analysis

RO Exam (6 candidates)

- QID0356 Question 37. Question and answer are correct as written. This was classified to be a Service Water System knowledge deficiency that has been reviewed with the candidates. No program changes were required.
- QID0357 Question 50. Question and answer are correct as written. This was classified as a recent Industry Experience weakness that has been reviewed with the candidates. This item was added to the Unit Training Evaluation and Action Request database for inclusion in future training. It is being tracked by TEAR ANO-2002-126.
- QID0362 Question 47. Question and answer are correct as written. This was classified to be a Boron Management System knowledge deficiency that has been reviewed with the candidates. No program changes were required.
- QID0384 Question 22. Question and answer are correct as written. This was classified to be a Circulating Water System knowledge deficiency that has been reviewed with the candidates. No program changes were required.
- QID0444 Question 54. Question and answer are correct as written. This was classified to be a Feed Water System knowledge deficiency that has been reviewed with the candidates. No program changes were required.

SRO Exam (10 candidates)

- QID0338 Question 54. Question and answer are correct as written. This was classified to be a Containment Purge System knowledge deficiency that has been reviewed with the candidates. No program changes were required.
- QID0387 Question 64. Question and answer are correct as written. This was classified to be a Shutdown Cooling Technical Specification knowledge

deficiency that has been reviewed with the candidates. No program changes were required.

Attachment 2

Candidate Clarification Questions

Questions to the proctor during the Administration of the written examinations –

1. SRO Question # 9, RO Question # 20 – Candidate asked “Are all the conditions the same during the 2 hours?”

Candidates were informed that “Yes” they were the same.

2. SRO Question # 35 – Candidate asked if the 4th bullet item was “total SDC flow”?

Informed candidate that it **was** total SDC Flow.

3. SRO Question # 47, RO Question # 51 - Candidate inquired “Are all the pumps listed in the answer available?”

Informed candidate that all pumps were to be considered available.

4. SRO Question # 48, RO Question 55 - Candidate wanted the noun name for the switch.

Candidates were informed that the 2nd bullet was the “Make-up Mode Select Switch” for clarification.

5. SRO Question # 90, - Candidate asked whether or not operator action was taken.

Candidate was informed that No Operator Action was stated and that None is implied.

6. RO Question # 12 - Candidate asked for clarification on the position of the Shutdown Banks.

Informed candidates that the stem should state that “**Both** Shutdown Banks CEAs are full out.”

7. RO Question # 47 - Candidate asked, “Was 2CV-2122 opened with the hand-switch?”

Candidate was informed “Yes”.

8. RO Question # 53 - Candidate asked whether the question was only concerned with the SDC flow Tech Spec.

Candidate was directed that the question meant for all requirements.

9. RO Question # 85, SRO Question 32 - 2 RO Candidates asked if they were “to assume the most dose after the accident”.

Candidates informed that if the condition existed at any time, which would cause the most accumulated dose.