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Russellville, AR 72802  
Tel 479-858-5000

July 26 , 2006

ANO-2006-2-00046

Mr. Thomas McKernon, Chief Examiner  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Subject: INITIAL EXAMINATION – Completion of post examination analysis and transmittal of final examination material for ANO, Unit 2 (CE)

Dear Mr. McKernon:

The post examination analysis and final examination material for ANO, Unit 2 (CE) was delivered to you at the end of the operating examination week on July 21, 2006. The material included the graded written examinations with each applicant's original answer and examination cover sheet plus a clean copy of each applicant's answer sheet, the master examination and answer key annotated to indicate the change made during the grading of the examination, the questions asked by and answers given to the applicants during the written examination, the written examination seating chart, the completed Form ES-403-1, "Written Examination Grading Quality Checklist", and the results of the written examination performance analysis per guidance from ES-501 C.1.a. The original Forms of ES-201-3, "Examination Security Agreement" are attached with this letter.

Please call me at 479-858-7873 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert D. Byford".

Robert Byford  
Facility Representative  
Arkansas Nuclear One  
Supervisor, Operations Training

Attachments

CC w/o attachments:

J. Browning  
S. Cotton  
R. Carter  
T. Mayfield  
R. Martin

C. Simpson  
M. Blanchard  
Licensing CMS File  
ANO-DCC

2006 Initial RO/SRO Exam Analysis Comments

<b>Exam Q#</b>	<b>Bank QID</b>	<b>Comment:</b>
94	0633	<p><b>Question has no correct answer.</b> Distractor 'B' is mostly correct except for the reference to entering the Remote Shutdown Panel action statement. This question was originally a duplicate of an ANO exam bank question(QID ANO-OPS2-3498) that referenced the 'B' excore instrument but was modified during final validation due to similarities with a failure on the operating exam. 'B' excore is the applicable remote shutdown instrumentation channel.</p> <p><i>Recommend deleting the question from this exam.</i> The reference to entering the remote shutdown instrumentation LCO will be deleted from the distractors of QID# 0633 for final entry into the NRC exam bank.</p>
11	0572	<p><b>Question had a 54% (7/13) failure rate.</b> There were no student comments logged for this question during the exam. The question relates generic fundamentals of stress limits on the reactor vessel wall to an Excess Steam Demand event. Six of seven of the students that missed the question properly identified that the total stress for this event would be <i>closer to the total allowable stress</i> (distractor B). The level of detail for selecting between tensile and compressive stresses may be beyond the scope of this exam (especially for the upgrades).</p> <p><i>Recommend modifying question</i> to the appropriate level of detail (within the bounds of the KA statement) before final submittal into the NRC exam bank. No changes to this exam will be made.</p>
33	0559	<p><b>Question had a 54% (7/13) failure rate.</b> There were no student comments logged for this question during the exam. The question involves details with drawing a pressurizer bubble. The question is fair and technically accurate. The high failure rate may be attributed to a training gap. 6 of the 7 failures were candidates with little or no control room experience (ROs and SROI) while the experienced operators chose the correct answer.</p> <p><i>Recommend reviewing RO program</i> for content to ensure training on this topic is weighted properly during the course. No changes will be made to the exam or QID.</p>
38	0610	<p><b>Question had a 54% (7/13) failure rate.</b> There was only 1 out of 13 students with a question logged for this QID during the exam. The question deals with the ability to obtain and use graphs and charts related to monitoring operation of the ESF systems. All students that missed this question selected the same 'wrong' answer (RAS verification vs HPSI verification). The high failure rate appears to be related to unfamiliarity with the scope and purpose of all of the EOP attachments and exhibits.</p> <p><i>Recommend reviewing the RO program</i> and adjust as necessary to ensure knowledge of the EOP standard attachments is included in the course at the proper level of detail. No changes will be made to the exam or QID.</p>