



Entergy Operations Inc.  
Bald Hill Road  
PO Box 756  
Port Gibson, MS 39150

December 13, 2017

Brian Larson, Chief Examiner  
U.S. Nuclear Regulatory Commission, Region IV  
1600 East Lamar Blvd  
Arlington, TX 76011-4511

SUBJECT: NRC INITIAL EXAMINATION ANALYSIS

GEXO: 2017/00043

Dear Mr. Larson,

Enclosed is the NRC Initial Examination Analysis for the Initial License Written Examination administered on December 11, 2017.

- Graded Written Examination with Applicant Exam Cover Page
- Two clean copies of applicants answer sheet
- Questions asked during the examination
- Justification for Written Exam changes
- Seating Chart
- Completed ES-403-1, Written Examination Grading Quality Checklist
- Examination Results
- Examination performance analysis
- Applicant Comments
- ES-201-3, Examination Security Agreement
- Copies of Condition Reports written

Please contact Mike, David or Steve at (601) 437-2255 (2263) if you have any questions or need any further materials.

Sincerely,

A handwritten signature in black ink, appearing to read "Doug Lauterbur", written over a horizontal line.

Doug Lauterbur  
Manager, Training & Development  
Grand Gulf Nuclear Station

## 12/2017 NRC Exam Analysis

### RO and SRO Exam

> or = 50% miss

#### **Question 33 66.7% (6/9)**

Question was testing the knowledge of resulting actions on the HPCS system with a low CST level.

With the given information the applicant should be able to determine that in the first part of the question the HPCS system does NOT trip on low CST level or no suction path. The Second part of the question describes the logic of the suction valves, as stated in the question the Suppression Pool suction valve must be NOT FULL OPEN before the CST suction will be allowed to open.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

#### **Question 51 55.6% (5/9)**

Question was testing the knowledge of operating a diesel generator and parallel to an offsite power source.

With the given information the applicant should be able to determine which handswitch is to be used for this operation and in what direction the synchroscope should be moving.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

**Question 77 50% (2/4)**

Question was testing the knowledge of with MSIVs closed how should pressure be controlled and at what band.

With the given information the applicant should be able to determine that the MSIVs are closed and SRVs are the only option for controlling reactor pressure. The pressure band is determined by 02-S-01-43, Transient Mitigation Strategy, **IF** level can be maintained **AND** controlled using available systems **AND** manual pressure control is required the use 800 to 1060 psig. If high pressure systems are available (i.e. RCIC and HPCS) then DO NOT reduce pressure band. The question stated there was no LOCA in progress therefore there was no leak and not necessary to reduce the driving head due to un-isolable leak.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

**Question 79 50% (2/4)**

Question was testing the knowledge of what shutdown cooling systems are available with a Group 3 isolation signal present and use of the SOPP to determine risk level.

With the given information the applicant should be able to determine both RHR shutdown cooling system and the ADHR system is unavailable. Using the SOPP determine that the risk level is RED.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

**Question 88 50% (2/4)**

Question was testing the knowledge of a loss of an ESF DC bus and the affects. The second part tests the knowledge of CRS actions.

With the given information the applicant should be able to determine the ability to use the ADS/SRV handswitches on the control room panel but realize that the other division is still available, therefore only the DC tech spec is entered.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

**Question 89 75% (3/4)**

Question was testing the knowledge of performance of surveillance procedures.

With the given information the applicant should be able to determine the actions required when a tech spec required component does not meet the surveillance requirements per site procedure, and will this component being inop prevent a mode change.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

**Question 96 50% (2/4)**

Question was testing the knowledge of actions that require to be controlled as an Identified Infrequently Performed Test or Evolution (IPTE).

With the given information the applicant should be able to determine which actions are required to be controlled by an IPTE. IAW EN-OP-116, Infrequently Performed Test or Evolution, Reactor Head removal is listed.

Question was discussed and verified with applicants and no comments were given.

Question and answers stand as is. Facility training materials are correct.

## Applicant Comments

After post exam review with applicants there were no comments on the written exam.