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January 24, 1997

Mr. Howard Bundy  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX. 76011-8064

Dear Howard:

This letter accompanies the material for the Callaway Plant Initial License Exam scheduled for February 24, 1997. The following areas of discussion are included for some background on the methodology used during the examination preparation.

- 1) **Written Exam**
  - **Question Origin**
  - **SRO Only Questions**
  - **Cross Reference Instructions**
- 2) **Topic Overlap JPM - Admin Topics - Simulator Scenarios**
- 3) **Callaway Plant Individual Plant Evaluation (IPE) / Probabilistic Risk Assessment (PRA) Insights**
- 4) **Simulator Scenario Content/Difficulty**
- 5) **Exam Security**

#### WRITTEN EXAM

##### Question Origin

Four questions on the exam were taken from the Callaway Plant Exam Bank, none of which were used on the final audit exam or the last 2 NRC exams. The remaining questions were written new. Development of the new questions used industry examples, lesson plans, plant procedures, plant events, modifications, Callaway Plant IPE/PRA, etc. The questions were developed per the submitted sample plan outline, and have been verified to satisfy the requirements of 10CFR55.41 and 10CFR55.43.

##### SRO Only Questions

The SRO exam contains 27 questions that are different from the RO exam. These questions were verified to test at the SRO level as defined by 10CFR55.43b. Areas that are examined include: Emergency Response Guideline Bases, Technical Specification Bases, Technical Specification Interpretations and Bases, Emergency Plan, Administrative Limitations, and Plant Vulnerabilities identified in the Callaway Plant IPE/PRA.

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### Cross Reference Instructions

Each written exam sample plan K/A topics are numbered from 1 to 100. These are identified on the bottom of each written question as SR0 or RO followed by that number, ie SR0#44.

Both the RO and SRO exams were generated in a random sequence and numbered from 1 to 100 at the top of each question. To tie a specific exam question back to the sample plan K/A use the cross reference provided in attachment (7).

### Topic Overlap JPM - Admin Topics - Simulator Scenarios

The simulator scenarios, administrative, and job performance measures (JPM) topics were selected to avoid overlap. A review was conducted after completion to ensure no single area was overemphasized. The results from the Knowledge, Skills, and Abilities cross check are included in attachment (8).

### Callaway Plant Individual Plant Evaluation (IPE) / Probabilistic Risk Assessment (PRA)

The IPE/PRA was used as a source of reference for topics during the sample plan development. Emphasis was placed on the top core damage frequency events and plant vulnerabilities.

- Effects on Electric Systems from Internal Flooding
- Station Blackout / Loss of Offsite Power
- RCS LOCAs / Seal Induced LOCAs
- Loss of CCW effect on SI Systems

### Simulator Scenario Content/Difficulty

The three submitted simulator scenarios were evaluated against ES303, Competency Grading Worksheets. The instrument, component, and major malfunctions were determined to provide the situations that will allow discrimination between an incompetent versus competent operator. In all cases, inaction on the part of the candidate will result in adverse consequences to plant safety.

### Exam Security

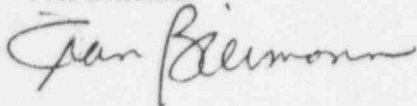
All personnel gaining knowledge of the exam were required to read and sign the security agreement. The number of personnel was kept to the minimum necessary for the development and validation of exam material. Three personnel from the plant were used for exam validation at which time it was stressed to them that they have no contact with the candidates from that point on until the exam is completed.

ATTACHMENTS

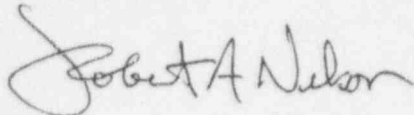
- (1) NRC QA Forms
- (2) RO Written Exam
- (3) SRO Written Exam
- (4) Simulator Scenarios
- (5) JPM and Questions
- (6) Admin Topics
- (7) Written Exam K/A Cross Reference
- (8) Operating Test K/A Overlap Check

Sincerely,

Fran Biermann

A handwritten signature in cursive script that reads "Fran Biermann".

Robert A. Nelson

A handwritten signature in cursive script that reads "Robert A. Nelson".