

November 1, 1995

Tennessee Valley Authority  
ATTN: Mr. Oliver D. Kingsley, Jr.  
President, TVA Nuclear and  
Chief Nuclear Officer  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Gentlemen:

SUBJECT: REACTOR OPERATOR AND SENIOR REACTOR OPERATOR LICENSING EXAMINATIONS  
EXAMINATION REPORT NO. 50-390/96-300

The purpose of this letter is to confirm arrangements made in a telephone conversation on October 12, 1995, between Mr. Sam McNair, Operations Training Manager, and Mr. Jonathan Bartley, License Examiner, NRC Region II Operator Licensing Section, for the administration of licensing examinations at the Watts Bar Nuclear Plant. The examination preparation visit is scheduled for the week of February 12, 1996. The written examinations are scheduled for February 23, 1996, and the operating examinations are scheduled for February 26-March 1, 1996. Your staff will be given an opportunity to review the licensing examinations in accordance with the guidelines in Revision 7 of NUREG-1021, "Operator Licensing Examiner Standards," (ES-201, Attachment 4) during the week of February 5, 1996.

To prepare the examinations and meet the above schedule, it will be necessary for your staff to furnish the reference materials specified in the enclosed List of Reference Materials by November 6, 1995. Any delay in receiving approved and indexed reference material or the submittal of inadequate or incomplete reference material may result in the examinations being rescheduled.

The NRC will prepare and administer the written examinations in accordance with ES-401 and ES-402 of NUREG-1021. In order to conduct the requested examinations, it will be necessary for your staff to provide adequate space and accommodations on the date noted above. The NRC's guidelines for administering the written examinations are described in ES-402, Attachment 1.

The NRC will prepare and administer the operating tests in accordance with ES-301 and ES-302 of NUREG-1021. In order to conduct the requested operating tests, it will be necessary for your staff to make the simulation facility available on the dates noted above. Your staff should retain the original simulator performance data (e.g., system pressures, temperatures, and levels) generated during the dynamic operating tests until the examination results are final.

ES-402, Attachment 2, and ES-302, Attachment 1, contain a number of NRC policies and guidelines that will be in effect while the written examination and operating tests are being administered.

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Your staff should submit preliminary reactor operator and senior reactor operator license applications and waiver requests at least 30 days before the first examination date so that the NRC will be able to review the applications and the medical certifications and evaluate any requested waivers. If the applications are not received at least 30 days before the examination date, a postponement may be necessary. Final, signed applications certifying that all training has been completed should be submitted at least 14 days before the first examination date.

This request is covered by Office of Management and Budget (OMB) Clearance Number 3150-0101, which expires October 31, 1995. The estimated average burden is 7.7 hours per response, including gathering, xeroxing, and mailing the required material. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Information and Records Management Branch, T-6 F33, Division of Information Support Services, Office of Information Resources Management, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555; and to the Paperwork Reduction Project (3150-0101), Office of Information and Regulatory Affairs, NEOB-10202, Office of Management and Budget, Washington, D. C. 20503.

From the requested reference materials identified in the enclosure, we would appreciate retaining your EOPs and AOPs for reference use in our Incident Response Center. If you have any concerns about this proposed use, please contact me at (404) 331-5541.

Thank you for your cooperation in this matter. Mr. McNair has been advised of the policies and guidelines referenced in this letter. If you have any questions regarding the NRC's examination procedures and guidelines, please contact me at (404) 331-5541.

Sincerely,

ORIGINAL SIGNED BY T. A. PEEBLES

Thomas A. Peebles, Chief  
Operator Licensing and Human  
Performance Branch  
Division of Reactor Safety

Docket Nos. 50-390, 50-391  
License Nos. CPPR-91, CPPR-92

Enclosure: List of Reference Materials

cc w/encl: (See page 3)

Distribution w/encl:

- S. D. Ebnetter, ORA/RII
- E. W. Merschoff, DRP/RII
- A. F. Gibson, DRS/RII
- B. S. Mallett, DRSS/RII
- J. P. Jaudon, DRP/RII
- A. P. Hodgdon, OGC
- B. K. Keeling, GPA/CA
- RII Coordinator, OEDO
- P. S. Tam, NRR
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NRC Resident Inspector  
 U.S. Nuclear Regulatory Commission  
 1260 Nuclear Plant Road  
 Spring City, TN 37381

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## List of Reference Materials

1. Materials used by the facility licensee to ensure operator competency:
  - a. The following types of materials used to train applicants for initial RO and SRO licensing should be provided. The material should be complete, comprehensive, and of sufficient detail to support the development of accurate and valid examinations without being redundant.
    - learning objectives, student handouts, and lesson plans
    - system descriptions of all operationally relevant flow paths, components, controls, and instrumentation
    - material used to clarify and strengthen understanding of normal, abnormal, and emergency operating procedures
    - complete, operationally useful descriptions of all safety system interactions and, where available, balance-of-plant system interactions under emergency and abnormal conditions, including consequences of anticipated operator errors, maintenance errors, and equipment failures
  - b. Questions and answers specific to the facility training program that may be used in the written examinations or operating tests (voluntary by facility licensee).
  - c. Copies of facility-generated simulator scenarios that expose the applicants to abnormal and emergency conditions, including degraded pressure control, degraded heat removal capability, and containment challenges, during all modes of operation, including low power conditions. A description of the scenarios used for the training class may also be provided (voluntary by facility licensee).
  - d. All job performance measures (JPMs) used to ascertain the competence of the operators in performing tasks within the control room complex and outside the control room (i.e., local operations) as identified in the facility JTA. JPMs should evaluate operator responsibilities during normal, abnormal, and emergency conditions and events and during all modes of operation, including cold shutdown, low, and full power.
2. Complete index of procedures (including all categories sent).
3. All administrative procedures applicable to reactor operation or safety.
4. All integrated plant procedures (normal or general operating procedures).

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5. All emergency procedures (emergency instructions, abnormal or special procedures).
6. Standing orders (important orders that are safety-related and may modify the regular procedures).
7. Surveillance procedures that are run frequently (i.e., weekly) or that can be run on the simulator.
8. Fuel handling and core loading procedures (if SRO applicants will be examined).
9. All annunciator and alarm procedures.
10. Radiation protection manual (radiation control manual or procedures).
11. Emergency plan implementing procedures.
12. Technical Specifications (and interpretations, if available) for all units for which licenses are sought. (If merits Tech Specs, include all removed programs such as ODCM, etc.)
13. System operating procedures.
14. Technical data book, and plant curve information as used by operators, and facility precautions, limitations, and set points document.
15. The following information pertaining to the simulation facility:
  - a. List of all initial conditions.
  - b. List of all malfunctions with identification numbers.
  - c. Malfunction cause and effect information and a concise description of the expected result or range of results that will occur upon initiation, including an indication of which annunciators will be actuated.
  - d. A description of the simulator's failure capabilities for valves, breakers, indicators, and alarms.
  - e. The range of severity of each variable malfunction (e.g., the size of a reactor coolant or steam leak or the rate of a component failure such as a feed pump, turbine generator, or major valve).
  - f. A list of modeling conditions (e.g., simplifications, assumptions, and limits) and problems that may affect the examination.
  - g. A list of any known performance test discrepancies not yet corrected.

- h. A list of differences between the simulator and the reference plant's control room.
  - i. Simulator instructors' manual.
16. Any additional plant-specific material that has been requested by the examiners to develop examinations that meet the guidelines of these Standards and the regulations.