



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

JUN 01 1994

Docket No. 50-407

Dr. Dietrich K. Gehmlich  
2202 MEB  
University of Utah  
Salt Lake City, Utah 84112

Dear Dr. Gehmlich:

In a telephone conversation on June 1, 1994, between Dr. David M. Slaughter, Reactor Supervisor, and myself, arrangements were made for the administration of operator licensing retake examinations at the University of Utah reactor. The written and operating examinations are scheduled for June 29, 1994.

In order for us to meet this schedule, please furnish *one* set of the reference material listed in Enclosure 1, as applicable, "Reference Material for Reactor/Senior Reactor Operator Licensing Examinations" immediately to the following address:

U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555  
ATTN: Noel F. Dudley, Mail Stop 0 10D22

Final signed applications certifying that all training has been completed must be submitted at least 14 days before the examination date in order to process the license application. If our review cannot be completed in time to make a determination of applicant eligibility, the candidate may not be permitted to sit for the examination. Therefore, it is recommended that license applications be provided as soon as possible to ensure an appropriate level of review.

This request is covered by Office of Management and Budget (OMB) Clearance Number 3150-0101, which expires October 31, 1995. This 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, MNBB-7714, 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-3019, Office of Management and Budget, Washington, D.C. 20503.

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Dr. Dietrich K. Gehmlich

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If you have any questions regarding the examination procedures and requirements, please contact me at (301) 504-1042.

Sincerely,

Original signed by:

Noel F. Dudley, Chief  
Nonpower Reactor Section  
Operator Licensing Branch  
Division of Reactor Controls  
and Human Factors  
Office of Nuclear Reactor Regulation

Enclosures:  
As stated

cc w/encls:  
Dr. David M. Slaughter, Reactor Supervisor

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6/1/94

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Dr. David M. Slaughter, Reactor Supervisor

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Sincerely,



Noel F. Dudley, Acting Chief  
Nonpower Reactor Section  
Operator Licensing Branch  
Division of Reactor Controls  
and Human Factors  
Office of Nuclear Reactor Regulation

Enclosures:  
As stated

cc w/encls:  
Dr. David M. Slaughter, Reactor Supervisor

## ENCLOSURE 1

### REFERENCE MATERIAL FOR REACTOR/SENIOR REACTOR OPERATOR LICENSING EXAMINATIONS (NON-POWER)

1. Existing learning objectives, students handouts and lesson plans (including training manuals, plant orientation manual, system descriptions, reactor theory, thermodynamics, etc.)

Training materials should include all substantive written material used for preparing applicants for initial RO and SRO licensing. The written material should include learning objectives if available and the details presented during lectures, rather than outlines. Training materials should be identified, bound, and indexed. Training materials which include the following should be provided:

System descriptions including descriptions of all operationally relevant flow paths, components, controls and instrumentation. System training material should draw parallels to the actual procedures used for operating an applicable system.

Complete and operationally useful descriptions of all safety-system interactions, secondary interactions under emergency and abnormal conditions, including consequences of anticipated operator error, maintenance error, and equipment failure.

Training material used to clarify and strengthen understanding of emergency operating procedures.

2. Complete Procedure Index (including temporary procedures).
3. All administrative procedures as applicable to reactor operation or safety.
4. All integrated plant procedures, normal or general operating procedures, and procedures for experiments.
5. All emergency procedures, emergency instructions, abnormal procedures, and special procedures.
6. Standing orders or procedures changed by reactor supervision, and important orders or changes that are safety related and may supersede the regular procedures.
7. Applicable procedures (procedures that are run frequently).
8. Fuel-handling, core-loading, and initial core-loading procedures.
9. Any annunciator/alarm procedures.
10. Radiation protection manual, radiation control manual, and radiological control procedures.
11. Emergency plan implementing procedures.

12. Safety Analysis Report and Technical Specifications.
13. System operating procedures, including experiments.
14. Piping and instrumentation diagrams, electrical single-line diagrams, and flow diagrams.
15. Technical Data Book, plant curve information as used by operators, and precautions, limitations, and set points for the facility.
16. Questions and answers specific to the facility training program which may be used in the written or operating examinations (voluntary by facility licensee).
17. Additional material as requested by the examiners to develop examinations that meet the requirements of the Non-power Reactor Examiner Standards and Regulations.

The above reference material should be approved final issues and so marked. If a facility has not finalized some of the material, the Chief Examiner should verify with the facility that the most complete, up-to-date material is available and that agreement has been reached with the licensee for limiting changes before the administration of the examination.