

September 12, 2013

Dr. Sastry Sreepada, Director RCF
Department of Mechanical Aerospace
and Nuclear Engineering,
Rensselaer Polytechnic Institute
110 8th Street
JEC Room 2032
Troy, NY 12181

SUBJECT: EXAMINATION NOTIFICATION LETTER, 50-225/OL-14-01, RENSSELAER
POLYTECHNIC INSTITUTE

Dear Dr. Sreepada:

Arrangements have been made for the administration of an operator licensing examination at the Rensselaer Polytechnic Institute reactor. The operating examination is scheduled for the week of December 9, 2013.

To meet this schedule, please furnish the material listed in Enclosure 1, "Reference Material for Operator Licensing Examinations," at least 45 days before the examination date, in either hard copy to the address below or electronic media format to Taylor.Lichatz@nrc.gov.

ATTN: Taylor Lichatz, Chief Examiner
Mail Stop: OWFN-12D20
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738

Also, a senior reactor operator license application certifying that all training has been completed must be submitted at least 14 days before the examination date. This will allow the chief examiner time to review the training and experience of the applicant, process the medical certification, and process the application. If this review cannot be completed in time to decide an applicant's eligibility, that applicant 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.

The Nuclear Regulatory Commission (NRC) has posted copies of the application forms, "Personal Qualification Statement—Licensee" (NRC Form 398) and "Certification of Medical History by Facility Licensee" (NRC Form 396) on the agency's Web site at www.nrc.gov/reading-rm/docollections/forms/nrc398.pdf and www.nrc.gov/reading-rm/docollections/forms/nrc396.pdf, respectively. These forms are in Adobe Acrobat® format.

This letter contains information collection requirements that are subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). These information collections were approved by the Office of Management and Budget, approval number 3150-0018.

The burden to the public for these mandatory information collections is estimated to average 7.7 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of these information collections, including suggestions for reducing the burden, to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail to INFOCOLLECTS@NRC.GOV; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0018), Office of Management and Budget, Washington, DC 20503.

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid OMB control number.

If you have any questions regarding the examination procedures and requirements, please contact me at (301) 415-7128, or email at Taylor.Lichatz@nrc.gov.

Sincerely,

/RA/

Taylor A. Lichatz, Chief Examiner
Research and Test Reactors Oversight Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-225

Enclosure:
Reference Material for Reactor/Senior Operator Licensing Examinations

cc w/o enclosure: See next page

Rensselaer Polytechnic Institute

Docket No. 50-225

cc:

Mayor of the City of Schenectady
Schenectady, NY 12305

Tim Rice
Chief, Radiation Section
Division of Hazardous Waste and Radiation Management
NY State Dept. of Environmental Conservation
625 Broadway
Albany, NY 12233-7255

Peter F. Caracappa, Ph.D, CHP
Radiation Safety Officer
NES Building, Room 1-10, MANE Department
Rensselaer Polytechnic Institute
110 8th St.
Troy, NY 12180-3590

Mrs. Jessica Berry, RCF Supervisor
NES Building, Room 1-10, MANE Department
Rensselaer Polytechnic Institute
110 8th St.
Troy, NY 12180

Peter Collopy, Director EH&S
Rensselaer Polytechnic Institute
21 Union Street
Gurley Building 2nd Floor
Troy, NY 12180

Alyse Peterson, State Liaison Officer Designee
Senior Project Manager
Radioactive Waste Policy and Nuclear Coordination
New York State Energy Research & Development Authority
17 Columbia Circle
Albany, NY 12203-6399

Test, Research, and Training
Reactor Newsletter
University of Florida
202 Nuclear Sciences Center
Gainesville, FL 32611

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Sincerely,

/RA/

Taylor A. Lichatz, Chief Examiner
Research and Test Reactors Oversight Branch
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

Docket No. 50-288

Enclosure:
Reference Material for Reactor/Senior Operator Licensing Examinations

cc w/o enclosure: See next page

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ADAMS ACCESSION No.: ML13253A046

NRR-079

OFFICE	NRR/DPR/PROB	NRR/DPR/PROB	NRR/DPR/PROB
NAME	TLichatz	CRavelle	GBowman
DATE	9/12/13	9/12/13	9/12/13

OFFICIAL RECORD COPY

REFERENCE MATERIAL FOR REACTOR/ SENIOR REACTOR OPERATOR LICENSING EXAMINATIONS

- 1) Training materials including all substantive written material used to prepare applicants for initial reactor operator and senior reactor operator licensing. The material should include learning objectives, if available, and details presented during lectures, rather than outlines. Training materials should be identified, bound, and indexed. Training materials should include the following:
 - (a) System descriptions including descriptions of all operationally relevant flowpaths, components, controls, and instrumentation. System training material should draw parallels to the actual procedures used for operating an applicable system.
 - (b) Learning objectives, student handouts, and lesson plans (including training manuals, facility orientation manual, system descriptions, reactor theory, thermodynamics).
 - (c) Complete and operationally useful descriptions of all safety-system interactions and secondary interactions under emergency and abnormal conditions, including consequences of anticipated operator error, maintenance error, and equipment failure.
 - (d) 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 facility procedures, normal or general operating procedures, and procedures for experiments.
- 5) All emergency procedures, emergency instructions, and abnormal or 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) A list of all reactor facility surveillances, with copies of all **COMPLETED** surveillances which require the collection of data (e.g., heat balance, rod drop times).
- 8) Fuel-handling and core-loading procedures and initial core-loading procedure (if appropriate).
- 9) Any annunciator/alarm procedures, as applicable.
- 10) Radiation protection manual and radiation control manual or procedures.
- 11) Emergency plan and any emergency plan implementing procedures (EIPs).

ENCLOSURE

- 12) Safety analysis report, technical specifications, and interpretations, if available.
- 13) System operating procedures, including experiments.
- 14) Piping and instrumentation diagrams, electrical single-line diagrams, and flow diagrams.
- 15) Technical data book, and/or facility curve information, as used by operators and facility precautions, limitations, and setpoints.
- 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) Facility modification authorizations, which were authorized since the last revision to the safety analysis report.
- 18) Additional material as requested by the examiners to develop examinations that meet the requirements of the research and test reactor examiner standards and regulations.
- 19) Electronic copies of any or all requested material is appreciated.

The above reference material should be approved, final issues and be 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.