

February 26, 2003

Mr. Stephen J. LaFlamme, Director  
Nuclear Reactor Facility  
Worcester Polytechnic Institute  
100 Institute Road  
Worcester, MA 01609-2280

Dear Mr. LaFlamme:

I made arrangements with you, for the administration of operator licensing examinations at the Worcester Polytechnic Institute reactor. The examinations are scheduled for the week of April 14, 2003.

I will use the material you supplied for the last examination to prepare this examination. Enclosure 1 contains a list of the material the NRC normally requests to prepare an examination. If you have any updates to this material, furnish the updates as soon as possible to the following address:

(U.S. Postal Service)  
U.S. Nuclear Regulatory Commission  
ATTN: Patrick Isaac  
Mail Stop O12-G13  
Washington, D.C. 20555

(Overnight Delivery)  
U.S. Nuclear Regulatory Commission  
ATTN: Patrick Isaac  
Mail Stop O12-G13  
11555 Rockville Pike  
Rockville, MD 20852-2738

Final, signed senior reactor operator license applications certifying that all training has been completed must be submitted at least 14 days before the first examination dates so that we will be able to review the training and experience of the candidates, process the medical certifications, and process the applications. 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 3150-0018, which expires April 30, 2003. 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 Records Branch, (T-6 E-6), U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001; or by Internet electronic mail to <bjs1@nrc.gov>, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0018), Office of Management and Budget, Washington, D.C. 20503.

Mr. S. LaFlamme

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If you have any questions regarding the examination procedures and requirements, please contact me at 301-415-1019, or Internet e-mail [pxi@nrc.gov](mailto:pxi@nrc.gov).

Sincerely,

***/RA/***

Patrick Isaac, Chief Examiner  
Research and Test Reactors Section  
Operating Reactor Improvements Program  
Division of Regulatory Improvement Programs  
Office of Nuclear Reactor Regulation

Docket No. 50-134

Enclosure: Reference Material for NRC Operator  
Licensing Examinations

Mr. S. LaFlamme

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Sincerely,

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**ADAMS ACCESSION #: ML030560549**

**TEMPLATE #: NRR-079**

OFFICE	R&TR:CE		IEHB:LA		R&TR:SC	
NAME	PIsaac:rdr		EBarnhill		PMadden	
DATE	02/ 24 /2003		02/ 25 /2003		02/ 26 /2003	

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REFERENCE MATERIAL FOR REACTOR/SENIOR REACTOR OPERATOR  
LICENSING EXAMINATIONS

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 and 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 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. Applicable procedures (procedures that are run frequently).
8. Fuel-handling and core-loading procedures and initial core-loading procedure, when appropriate.
9. Any annunciator/alarm procedures, as applicable.