

REQUALIFICATION PROGRAM FOR  
LICENSED OPERATORS

OF THE

OREGON STATE TRIGA REACTOR

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Revision ~~4~~2

Approved by the U.S. Nuclear Regulatory Commission on September 30, 2004

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## 12.10—Operator Training and Requalification

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This Reactor Operator training and requalification program is designed to satisfy the requirements of the USNRC's rules contained in 10 CFR 55. It also complies with the requalification program in the ANSI/ANS 15.4-2016, *Selection and Training of Personnel for Research Reactors*.

### 12.10.1. Responsibility

The responsibility for this program rests with the Reactor Supervisor. This responsibility shall cover the following items:

- a. Selection of knowledgeable individuals to give classroom lectures and to supervise retraining operations.
- b. Certification to the Reactor Administrator that each individual has successfully completed the requalification program.
- c. Granting of exemptions to the requalification program as provided for this plan.

### 12.10.2. Schedule

The requalification program shall be conducted on a cycle not to exceed two calendar years. Upon conclusion, it will be promptly repeated.

### 12.10.3. Content

The requalification program shall consist of preplanned lectures, written examinations, and annual operating examination, and routine reactor operations.

### 12.10.4. Annual Lectures

Annually, not to exceed 15 months. Once per , lectures shall be given which cover the following: Reserved

- ~~a. Emergency Response Plan~~
- ~~b. Physical Security Plan~~

### 12.10.5. Biennial Lectures

Once per requalification cycle (i.e., in alternate calendar years) Biennially, not to exceed 30 months, lectures shall be given which cover the following:

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- a. Emergency Response Plan
- b. Physical Security Plan

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~~a-c.~~ Facility Design, Characteristics, Instrument Control and Safety Systems

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- b-d. Reactor Principles
- e-e. Operating Procedures, Technical Specifications, and Administrative Procedures
- d-f. Radiation Protection

#### 12.10.6. Written Examinations

Written examinations shall be given covering the lecture material. Both the written examination and the lecture material shall meet the requirements given in 10 CFR 4455.59(a)(2)(i). The individual giving the lecture on a particular subject shall formulate, administer, and grade the written examination on that subject. Any licensed individual preparing and grading an examination is exempt from taking that examination. All written examinations will be proctored and graded by the individual administering the exam, or by their appointed representative, but shall not be an individual taking the exam.

If an individual receives a Reactor Operator or Senior Reactor Operator license after the lectures have occurred for that calendar year, the written examination requirement will be waived until the following year.

A grade equal to or greater than 70% will constitute a passing grade. Failure to achieve a passing grade will result in an accelerated retraining program in the subject area failed. This accelerated retraining program will be left to the discretion of the Reactor Supervisor.

The Reactor Supervisor may require an operator to participate in an accelerated requalification program when it is deemed needed by virtue of examinations or operating test results.

#### 12.10.7. Quarterly Operating Requirements

To maintain a current license, each calendar quarter, a Reactor Operator and Senior Reactor Operator shall operate the reactor for a minimum of four (4) hours and perform a supervised reactor startup, including a core excess measurement and increase to power.

~~To maintain a current license, each calendar quarter a senior reactor operator shall operate the reactor for a minimum of four (4) hours and perform a supervised reactor startup, including a core excess measurement and increase to power. For Senior Reactor Operators, direct supervision of these operations may be considered equivalent to actual performance. Passing an NRC exam for a Reactor Operator or Senior Reactor Operator license satisfies the licensed hours requirement for that quarter.~~

If a licensed Reactor Operator or Senior Reactor Operator has not met the quarterly operating requirements, then before resumption of licensed duties, the Reactor Operator or Senior Reactor Operator shall:

- a. Satisfactorily perform the annual operating exam.

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- b. Operate the reactor for a minimum of six (6) hours under the direction of a Senior Reactor Operator.

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#### 12.10.8. Annual Operating Exam

To maintain a current license, each calendar year each ~~R~~reactor ~~O~~perator or ~~S~~enior ~~R~~reactor ~~O~~perator shall successfully complete an annual operating exam to be administered by the ~~Reactor Supervisor Duty SRO~~. Passing an NRC exam for a Reactor Operator or Senior Reactor Operator license satisfies the operating exam requirement for that calendar year. ~~Successful complete is left to the discretion of the Reactor Supervisor.~~ ~~The annual operating exam for the Reactor Supervisor shall be administered by a senior reactor operator.~~

The operating test will require the ~~R~~reactor ~~O~~perator or ~~S~~enior ~~R~~reactor ~~O~~perator to demonstrate an understanding of and the ability to perform a comprehensive sample of the applicable tasks required in 10 CFR 55.59(a)(2)(ii).

The operating test will include an actual or simulated response to an abnormal emergency situation. ~~This aspect of the test is deemed appropriate to fully meet the requirements of 10 CFR 55.45(4)(iii) and (iv).~~

The manipulations required during the annual operating test will be such that they will also meet the requirements of the applicable parts of the on-the-job training specified in 10 CFR 55.59(c)(3)(i)(A) through (AA), and the evaluation of the reactor manipulations stated in 10 CFR 55.59(c)(3)(ii).

#### 12.10.9. Medical Certification

All ~~R~~reactor ~~O~~perators and ~~S~~enior ~~R~~reactor ~~O~~perators shall undergo a medical examination by a physician biennially, no later than the last day of the 12<sup>th</sup> month of the second year ~~not to exceed two and a half (2.5) years.~~ The physician should be conversant with the medical requirements of this program. ~~Following the completion of the medical examination, an NRC Form 396 shall be signed by the Radiation Center Director.~~

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#### 12.10.10. Facility Changes

All licensed ~~Reactor Operators and Senior Reactor Operators~~ shall be required to sign all forms relating to the facility changes signifying understanding and notification of the specified change. ~~This includes, but is not limited to, 50.59 Safety Screens and Evaluations Reactor Operation Committee Approval Sheets, and Information Bulletins described in the OSTR operating procedures.~~

#### 12.10.11. Reserved Approval

~~At the conclusion of the annual reactor operator requalification program, the Reactor Operations Committee shall review the results for each operator. Upon approval by the ROC, the operators may resume licensed duties for the next annual cycle.~~

#### ~~12.10.12~~ Records

Required documents and records pertaining to the requalification program for a ~~R~~reactor ~~O~~perator or ~~S~~senior ~~R~~reactor ~~O~~perator shall be maintained until the respective operator's license is renewed or ~~surrendered~~terminated.