

Kewaunee Nuclear Power Plant

NO. O-LRQ-TP

REV C

TITLE
LICENSED OPERATOR REQUALIFICATION
TRAINING PROGRAM

TRAINING PROGRAM

DATE 04-22-87

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REVIEWED BY *K.H. [Signature]*
Assistant Manager - Plant
OperationsAPPROVED BY *D. [Signature]*
Vice President - Nuclear PowerREVIEWED BY *Frank B. [Signature]*
Nuclear Training Supervisor-
OperationsAPPROVED BY *[Signature]*
Superintendent - Nuclear
Training/Health PhysicistREVIEWED BY *R. [Signature]*
Nuclear Simulator SupervisorREVIEWED BY *D. [Signature]*
Nuclear Licensing and
Systems Superintendent

1.0 PURPOSE

- 1.1 The Operator Requalification Program is a requirement of 10 CFR 55, designed to ensure that all licensed Reactor Operators and Senior Reactor Operators maintain the proficiency to continue to operate the Kewaunee Nuclear Power Plant safely, efficiently, and within the requirements of the Technical Specifications.

2.0 APPLICABILITY

- 2.1 This program applies to all licensed Reactor Operators and Senior Reactor Operators at Kewaunee Nuclear Power Plant who are required or intend to maintain an NRC license. Individuals are considered participants in this program immediately upon receiving a Reactor Operator or Senior Reactor Operator License.

3.0 DEFINITIONS

- 3.1 Module - A major division of a training program consisting of an ordered arrangement of subject matter designed to instruct personnel in the knowledge and skills required to perform tasks in a designated area of specialization. Modules are separated according to the most effective and appropriate training setting and/or method of instruction to be used. Each module may be divided into one or more units.
- 3.2 Unit - A major division of a module consisting of a lesson or a group of lessons within the same instructional area (i.e., the Mathematics Unit consists of lessons in Algebra, Exponents, Geometry, etc.). Each unit may be divided into one or more lessons.
- 3.3 Lesson - A major division of a unit consisting of information on a specific topic.

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- 3.4 Lesson Plan - An instructor's primary training document that outlines instructor and trainee activities and the resources necessary for conducting the training.
- 3.5 Simulator Exercise Plan (SEP) - A simulator instructor's primary document that outlines the instructor and trainee activities, the resources necessary for conducting training, and the specific items to be entered at the Instructor's Operating Station.
- 3.6 On-Shift Training - structured on-the-job training involving all phases of day-to-day operations under the supervision of appropriately qualified personnel.
- 3.7 On-the-Job Training - A training method which requires active participation by actual performance of job-related tasks and satisfactory demonstration of the necessary knowledge and skills associated with a specific job-position. This training is conducted under the supervision of experienced personnel.
- 3.8 Supervised Study - Self study that requires timely feedback from a qualified individual for an individual to achieve the necessary learning objectives.
- 3.9 Seminar Training - a scheduled group discussion on a specific topic under the direction of an instructor. Subject matter references, individual research assignments, and experiences are utilized in this type of training.
- 3.10 Performance Codes
- 3.10.1 P = Perform and Discuss - to accomplish a task by actual manipulation of the equipment and/or equipment controls either in the plant or on a simulator, with follow-up discussion.
- 3.10.2 W = Walk Through and Discuss - to accomplish a task by initiating and discussing the actual manipulation of the equipment and/or equipment controls.
- 3.10.3 O = Observe and Discuss - to accomplish a task by watching the task being performed and then presenting in a detailed discussion the steps required to perform the task.
- 3.10.4 D = Discuss - to accomplish a task by presenting in a detailed discussion the steps required to perform the task.

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- 3.11 Contact Hour - A one-hour period of training in which a qualified individual is present or readily available for training or assisting the participant. One hour devoted to any of the following activities is considered a contact hour under this definition: programmed learning, supervised study, lectures, seminars, discussions, problem-solving sessions, quizzes, examinations, on-the-job training, laboratory exercises, and simulator exercises.
- 3.12 Licensed Operator Requalification Guide - a document designed for Licensed Operator use which contains information on Licensed Operator responsibilities, standards of performance, learning objectives, training content, time requirements, training settings, and evaluation and documentation methods.
- 3.13 Period - refers to the time frame corresponding to one rotating shift schedule.
- 3.14 Cycle - a designated time frame associated with the Requalification Program which is divided into Requalification Cycle Year 1 and Requalification Cycle Year 2.
- 3.15 Cycle Year - a designated time frame which consists of one-half of the Requalification Program Cycle.
- 3.15.1 Requalification Time Frame Coding System
- | | |
|-----------------|----------------|
| a. <u>611C1</u> | <u>611S1</u> |
| 6 = cycle VI | 6 = cycle VI |
| 1 = year one | 1 = year one |
| 1 = period one | 1 = period one |
| C = classroom | S = simulator |
| 1 = day one | 1 = day one |
- 3.16 Evaluation - the process of collecting, analyzing, and applying the results of measurement data (e.g., from tests, performance measures) to assess the performance of a participant or a training system.

4.0 REFERENCES

- 4.1 10 CFR 50.54 (i) (i-1)
- 4.2 10 CFR 55, Appendix A - Requalification Programs for Licensed Operators of Production and Utilization Facilities.
- 4.3 NUREG 0737, item I.A.2.1
- 4.4 INPO GPG-02-10-80 Nuclear Power Plant Requalification Program for Licensed Personnel.

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4.5 Kewaunee Nuclear Power Plant Technical Specifications, Section 6.3 and 6.4.

5.0 RESPONSIBILITIES

5.1 The Vice President, Nuclear Power is responsible for the approval of this training program. Additionally, the Vice President, Nuclear Power shall:

5.1.1 Provide written approval of all changes to this program made in accordance with 10 CFR 50.54 (i) (i-1).

5.1.2 Appoint, as necessary, qualified individuals from the Plant Staff, Corporate Nuclear Engineering Staff, or outside organizations to observe and evaluate licensed personnel during plant evolutions and operational examinations.

5.1.3 Appoint two (2) SRO licensed individuals (at least one from the Nuclear Training Department) to be responsible for the preparation and grading of the written examination. Of the two (2) SRO licensed individuals appointed, one shall be designated as the examination author and the other will become its reviewer.

5.1.4 Determine whether licensed personnel in remedial or accelerated training be returned for additional remedial or accelerated training, or become the subject of special action when the required examination standards of performance are not met.

5.1.5 Determine the special action to be taken when licensed personnel do not achieve the required standards of performance.

5.1.6 Appoint at least two (2) SRO licensed individuals (at least one from the Nuclear Training Department) to administer Accelerated Training oral examinations as needed.

5.2 The Superintendent - Nuclear Training/Health Physicist is responsible for the approval of this program and all modules in this program.

5.3 The Nuclear Licensing and Systems Superintendent is responsible for the review of this program's regulatory requirements.

5.4 The Assistant Manager - Plant Operations is responsible for the review of this program, all program modules, the Requalification Guide associated with this program, and the periodic review of individuals within this program.

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- 5.5 The Nuclear Simulator Supervisor is responsible for the review of this program and the periodic review of individuals within this program; the review, administration, design, development, scheduling, documentation, and implementation of the simulator program module.
- 5.6 The Nuclear Training Supervisor - Operations responsibilities include the:
- 5.6.1 Review, administration, design, development, scheduling, documentation, and implementation of this program.
 - 5.6.2 Approval of the Requalification Guide associated with this program.
 - 5.6.3 Review of all non-simulator program modules.
 - 5.6.4 Periodic review of the individuals within this program.
 - 5.6.5 Submission of each participant's license renewal and applicable documentation to the Nuclear Licensing and Systems Superintendent when appropriate.
- 5.7 All licensed individuals in the Requalification Program are responsible for attending all requalification training sessions as scheduled. However, anyone scoring higher than the 80% overall and 80% in a general subject category on the Licensed Operator Requalification written examination may, at the discretion of the Nuclear Training Supervisor - Operations, be excused from attendance at the Pre-Planned Classroom Series on this subject area.
- Note: All individuals excused from attendance will be given training materials associated with these subject areas.
- 5.8 During the course of the Requalification Program, each licensed person is responsible for pursuing individual study.
- 5.9 The Nuclear Training Supervisor - Operations shall assign a member of the Operations Training staff to assist in program implementation as follows:
- 5.9.1 Coordinate program scheduling and allow for schedule inclusion of the following general and specialized training requirements:
 - a. General Employee Training Program
 - b. Radiation Protection Training
 - c. Control of Heavy Loads Training
 - d. Quality Assurance/Quality Control Training

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e. Emergency Preparedness Training

f. New Fuel Handling Training

- 5.9.2 Allow the appropriate amount of preparation time to review and revise, as necessary, the lesson plans and supporting material prior to implementation. (Note: Revisions to be recorded for annual program review/upgrade.)
- 5.9.3 Perform and/or provide for classroom instruction including the necessary training materials and assistance to the participants.
- 5.9.4 Monitor and assist in evaluation of individual progress. Prepare and implement remedial/accelerated training as prescribed in section 6.8.
- 5.9.5 Maintain a current schedule for program completion.
- 5.9.6 Maintain other documentation as directed by the Nuclear Training Supervisor - Operations.

6.0 REQUIREMENTS

- 6.1 Each Requalification Program is established to span a two-year cycle. Promptly upon termination of one program, a successive program shall commence consistent with the time of year and operational status of the plant at the time of program termination.
- 6.1.1 If a Licensed Reactor Operator is participating in or has recently completed the Senior Reactor Operator Training Program and is scheduled to take a NRC upgrade license examination within six (6) months prior to or following the next scheduled Licensed Operator Requalification Examinations (written and/or operational), then:
- a. This individual shall not be required to participate in the Licensed Operator Requalification Training Program until the commencement of the next Requalification cycle year.
- 6.2 A Licensed Operator Requalification written and operational examination, comparable to an NRC examination for the type of license held (RO or SRO), shall be administered on a frequency stipulated by and in accordance with 10 CFR 55. The purpose of these examinations include:
- 6.2.1 Verifying that the requalification program is effectively maintaining the knowledge level of licensed personnel consistent with the license they hold.
- 6.2.2 Determining areas of weakness in the requalification program.

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- 6.2.3 Determining the need for individual participation in Remedial/Accelerated Training.
- 6.2.4 Utilizing it as an assessment mechanism for determining the contents and emphasis of the next requalification cycle and/or year.
- 6.3 The Licensed Operator Requalification written examination shall be administered in its entirety to all licensed individuals during a single, consecutive fourteen (14) day period that conforms most conveniently to the established rotating shift schedule. The Licensed Operator Requalification operational examination shall be administered to all licensed individuals in a time period that conforms most conveniently to the established rotating shift schedule. The following EXCEPTIONS apply:
- 6.3.1 The above time requirement for the Licensed Operator Requalification written exam may be waived when separate examinations, sufficiently different in content, are prepared and approved for use.
- 6.3.2 If an individual passes an NRC initial or upgrade license examination within six (6) months prior to the next scheduled Licensed Operator Requalification Examinations (written and/or operational) then:
- a. This individual shall not be required to participate in the Licensed Operator Requalification Training Program until the commencement of the next Requalification cycle year.
- AND
- b. This individual shall not be required to participate in the next scheduled Licensed Operator Requalification Examinations (written and/or operational).
- 6.3.3 If a Licensed Reactor Operator is scheduled to take an NRC upgrade license examination within six (6) months following the next scheduled Licensed Operator Requalification Examinations (written and/or operational) then:
- a. This individual shall not be required to participate in the next scheduled Licensed Operator Requalification Examinations (written and/or operational).

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This individual shall, if unsuccessful on the NRC upgrade license examination, be required to participate in a Licensed Operator Requalification Examination which covers, as a minimum, those related areas where the individual was unsuccessful. This examination shall be administered within thirty (30) days of official notification of failure on the NRC upgrade license examination.

6.3.4 The selection process associated with the written and operational examination administrators shall be in accordance with Section 5.1 of this program and the following:

- a. The Licensed Operator Requalification written examination author shall be an SRO licensed individual selected from the Training Department.
- b. The Licensed Operator Requalification written examination reviewer shall be an SRO licensed individual selected from the Operations Department.
- c. The selected examination author and reviewer shall, of necessity, be exempt from taking their respective examination except for the following limitations.
 1. No individual will be exempted from two (2) successive written examinations.
 2. The selected authors and reviewers shall comply with all other provisions of the Licensed Operator Requalification Program.
- d. The operational examination shall be selected from the operational exam bank. The operational exam evaluators shall be SRO licensed individuals selected from the Training Department.

6.4 The Licensed Operator Requalification Program consists of three (3) modules:

Module 1 - Pre-Planned Classroom Series

Module 2 - Simulator Training

Module 3 - On-Shift Training

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6.5 Module 1 - Pre-Planned Classroom Series

6.5.1 This module is intended to employ either the seminar or lecture format as appropriate for each of the Requalification Program Classroom Series.

- a. The specific subject matter of each session to be covered in the Pre-Planned Classroom Series Module will be determined by the results of the previous Licensed Operator Requalification examination and the Nuclear Training Supervisor - Operations, Nuclear Simulator Supervisor, and Assistant Manager - Plant Operations. The general subject categories are as follows:
 1. Reactor Theory and Principles of Plant Operation
 2. Major Plant Fluid Systems (includes Engineered Safety Systems) and Facility Design.
 3. Instrumentation, Control, and Protection Systems
 4. Electrical Distribution and Control Systems
 5. Plant Operating Characteristics
 6. Normal, Abnormal, and Emergency Operating Procedures
 7. Heat Transfer, Fluid Flow, and Thermodynamics
 8. Technical Specifications and Administrative Directives
 9. Radiation Monitoring and Health Physics
 10. Applicable Portions of Title 10, Chapter 1, Code of Federal Regulations
 11. Training in the use of installed plant systems to control or mitigate an accident in which the core is severely damaged
- b. During this Module, the background and reasons behind design, procedure, and facility license changes will be discussed. This will supplement individual study and help to insure that licensed personnel have a thorough understanding of these changes.

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- 6.5.2 Staff licensed personnel will participate in the Pre-Planned Classroom Series Module as scheduled. Normally, licensed personnel on each operating crew will participate in the Pre-Planned Classroom Series Module while on their relief or designated training shift. Each session will, therefore, be repeated for each operating crew. Special provisions to make up sessions which have been missed will be established.
- 6.5.3 The sessions will normally be conducted during the months of September through May. The months of June, July, and August are reserved for vacations; therefore no sessions will be scheduled in this time, although individual study will be encouraged. No more than one-fourth of this module will consist of videotapes or other films.
- 6.5.4 It is expected that the material to be covered in this module be reviewed by individual study in advance and after training as necessary. Individual study affords each licensed person the opportunity to concentrate on specific areas of weakness.
- 6.5.5 Evaluations
- Daily evaluation assessments should be conducted and used to evaluate the effectiveness of the training and to reinforce training for specific learning objectives where each individual may be having difficulties.
 - Weekly, or as directed by the Nuclear Training Supervisor - Operations, quizzes shall be administered, graded, and documented. The results of the quizzes should be used to improve the training process and/or indicate the need for individual self-study emphasis.
 - The Licensed Operator Requalification written examination shall be administered on a frequency stipulated by and in accordance with 10 CFR 55. An overall grade of 80% or greater and a minimum of 70% in each examination section is required for successful completion of the Licensed Operator Requalification written examination.

Note: Refer to Item 6.8 for Failure to Meet Performance Standards.

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6.6 Module 2 - Simulator Training

6.6.1 The purpose of this module is to provide the Licensed Operator with training to maintain an acceptable level of skill and familiarity associated with Kewaunee Nuclear Plant systems, controls, and operating procedures, while participating in various plant evolutions. To maintain these skills, licensed operators shall actually manipulate the controls while licensed senior operators may either manipulate or actively supervise manipulation of the controls.

a. The simulator may be used to augment the requalification program in the following areas:

1. Reactivity Control Manipulations required by the On-Shift Training Module.

Note: See item 6.7.1 of this program.

2. Plant operation during minor emergencies.
3. Plant operation during major emergencies.
4. Normal control manipulations, such as plant or reactor startups.
5. Performance Observation and Evaluation as required by the On-Shift Training Module.

Note: See item 6.7.4 of this program.

6.6.2 The actual time spent on each topic will be dictated by the individual needs of the group, but the total time for this module shall be a minimum of 56 hours of direct interaction with the simulator control panels.

6.6.3 The operators will be evaluated daily using the performance standards in the simulator exercise plans and documented using the session evaluation form attached to each simulator exercise plan. Reactivity control manipulations and procedures reviewed shall be documented using the Reactivity Control Manipulations Record and Procedures Review Record.

6.6.4 Ongoing critiques are performed during and after each session to reinforce the skills and knowledge gained and to aid the operators in areas where they have exhibited weaknesses.

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6.6.5 Each operator shall be required to satisfactorily attain each performance objective in the individual exercise plans and must satisfactorily complete the Licensed Operator Requalification Operational Examination in Unit 5. The Operational Examination shall be administered at the completion of each Requalification Cycle Year in accordance with 10 CFR 55.

Note: Refer to Item 6.8 for Failure to Meet Performance Standards.

6.6.6 An overall evaluation shall be provided and documented using the overall Operational Training Evaluation Form.

6.7 Module 3 - On-Shift Training

6.7.1 On-Shift Training is conducted continuously. Reactivity control manipulations during the course of the Requalification Program will be required as specified in NUREG 0737, item I.A.2.1. Using this requirement as a minimum, the following activities are considered to be reactivity control manipulations within this Module:

- * a. Plant or reactor startup through the point of adding heat and establishing a heatup rate.
- * b. Plant shutdown.
- * c. Manual control of steam generators and/or feedwater during startup.
- * d. Manual control of steam generators and/or feedwater during shutdown.
- * e. Boration and/or dilution during power operation.
- * f. Power changes of > 10% with manual rod control.
- * g. Reactor power change of > 10% using the turbine electro-hydraulic control system.
- * h. Residual heat removal system operation.
- * i. Control room calculations including heat balance, coolant inventory balance, and reactivity balance.
- * j. Large S/G tube rupture.
- * k. Large leak inside primary containment (including leak-rate determination).

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- * l. Small leak outside containment (including leak-rate determination).
- * m. Small leak in containment (including leak-rate determination).
- * n. Saturated reactor coolant loop response.
- * o. Pressurizer leak.
- * p. Loss of instrument air
- * q. Loss of electrical power and/or degraded power sources.
- * r. Loss of core coolant flow/natural circulation.
- * s. Loss of condenser vacuum.
- * t. Loss of safety related service water.
- * u. Turbine trip without Reactor trip - ATWS.
- * v. Loss of shutdown cooling.
- w. Loss of component cooling system or cooling to an individual component.
- x. Loss of normal feedwater or feedwater system failure.
- * y. Loss of all feedwater (normal and emergency).
- z. Loss of protective system channel.
- aa. Mispositioned control rod(s) or rod drops.
- bb. Inability to drive control rods.
- cc. Initiation of emergency/immediate boration.
- dd. Fuel cladding failure or high activity in reactor coolant or off-gas systems
- * ee. Turbine or generator trip.
- ff. Malfunction of automatic control system(s) which affects reactivity.
- gg. Malfunction of reactor coolant pressure/ volume control systems.

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* hh. Reactor trip.

ii. Main steam line break (inside or outside containment).

jj. Nuclear instrumentation failure(s).

kk. Non-nuclear instrumentation failure(s).

* - DENOTES REQUIRED ANNUAL PERFORMANCE

NOTE: All other items (those without an asterisk) shall be performed on a two-year cycle.

- 6.7.2 Each licensed reactor operator shall be required to perform at least ten (10) reactivity control manipulations during the course of each two year requalification cycle. Each senior licensed operator shall be required either to manipulate the plant controls or direct the activities of licensed operators during at least ten (10) reactivity control manipulations during the course of each two-year requalification cycle. (This requirement may be augmented by the simulator training module, see item 6.6.1 of this program).
- 6.7.3 Non-shift (staff) licensed personnel should obtain twenty-four (24) hours per three months of watchstanding proficiency in the position(s) for which they are licensed/qualified.
- 6.7.4 Each licensed person shall be individually observed and evaluated to determine his overall ability to perform activities for which he is licensed. Each individual will be observed performing, walking through, and/or discussing as many abnormal and emergency situations as is practically consistent with actual plant operation and the availability of qualified observers. As a minimum, each licensed person shall be observed and evaluated once per year. (This requirement may be augmented by the simulator training module, see item 6.6.1 of this program).
- 6.7.5 Each licensed individual is responsible to review changes to operating procedures and technical specifications which are located in the Current Revision book and all applicable design changes.
- 6.7.6 Each licensed individual shall review all abnormal and emergency operating procedures on a two year cycle.

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6.8 Failure to Meet Performance Standards

6.8.1 An overall grade of 80% or greater and a minimum of 70% in each examination section is required for successful completion of the Licensed Operator Requalification written examination. An overall grade of satisfactory on the Licensed Operator Requalification operational examination is required for successful completion of this examination.

6.8.2 If an individual fails to meet the established performance standards within this program, the Superintendent - Nuclear Training/Health Physicist, Assistant Manager - Plant Operations, Plant Manager, and the Vice President - Nuclear Power shall be notified.

6.8.3 With the concurrence of the Vice President - Nuclear Power, the following action shall be taken:

a. An initial Accelerated Training oral examination in specific subject areas will be given to each individual who receives an overall grade on the Licensed Operator Requalification written examination of less than 80% or less than 70% in any section, or unsatisfactory on the Licensed Operator Requalification operational examination.

b. Until the oral examination has been completed with satisfactory results, the affected individual shall not be placed in a position where he is performing licensed duties.

1. This oral examination, on the deficient subject areas, shall be given as soon as possible.

i) The oral examination shall be administered by at least two SRO licensed individuals appointed by the Vice President, Nuclear Power.

2. If the results of the oral exam show that the individual is capable of safely operating the reactor, he shall immediately commence Remedial Training. During Remedial Training this individual may continue to perform duties for which he is licensed.

Note: See item 6.8.3.c.

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3. If the results of the oral examination indicate that the individual is not capable of safely operating the reactor, he SHALL commence Accelerated Training and not be allowed to perform his license duties.
 - i) Using the results of the individual's examinations, an Accelerated Training Program shall be developed to serve the needs of the individual involved.
 - ii) The normal Requalification Program may be considered a part of accelerated training if the subject matter matches the needs of the individual(s).
4. Upon completion of Accelerated Training, the individual shall be given a written and/or operational examination, and an oral examination in the deficient subject areas. An overall grade of 80% on the written examination, satisfactory on any needed operational examination, and satisfactory results on the oral examination are required to restore the person's qualification to perform licensed duties.
5. Failure to achieve a grade of $> 80\%$ on an accelerated training written re-examination; or an overall grade of satisfactory on an accelerated training oral or operational re-examination will mandate an overall comprehensive review of the individual's abilities. This review will involve individuals appointed by the Vice President - Nuclear Power. The results of the comprehensive review and recommendations shall be forwarded to the Vice President - Nuclear Power.
6. Corporate Management shall be advised and involved in the review process and final resolution.
- c. Remedial Training in specific subject areas will be required of each individual who has received an initial Accelerated Training oral examination and meets the stipulation of 6.8.3.b.2 above.
 1. Remedial Training shall be developed to serve the needs of the individual. Normally, training will take the form of supervised study in the weak areas while participating in the normal Requalification Program.

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2. At the completion of Remedial Training, the individual shall be given a written examination and/or operational examination (as applicable) on the subject(s) studied. A grade of 80% or greater on the written, or satisfactory on the operational shall signify satisfactory completion of this training.
3. Failure to achieve a grade of $> 80\%$ on a remedial training written re-examination or an overall grade of satisfactory on a remedial training operational re-examination will mandate the individual's assignment to the accelerated training level.
4. Remedial training and examination followup shall be completed within two (2) shift rotations (not to exceed 12 weeks) of the date the individual's Licensed Operator Requalification written and/or operational examination was graded.

6.9 Program Evaluation

6.9.1 Program evaluation shall be conducted utilizing NTP-8.

7.0 DOCUMENTATION

7.1 The following records of the Requalification Program will be maintained as required by 10 CFR 55:

- 7.1.1 Licensed Operator Requalification Training Program Schedule.
- 7.1.2 All lesson plans implemented.
- 7.1.3 All quiz results.
- 7.1.4 Licensed Operator Requalification Written Exams and answers given.
- 7.1.5 Training Record (all), Form NTP-6A.
- 7.1.6 NRC Licensed Non-Shift Individual On-Shift Time Record (Accumulated Hours), KNTC Form 4-6.
- 7.1.7 Remedial/Accelerated Training Assignment Documentation (any utilized), KNTC 5-10.
- 7.1.8 Licensed Operator Requalification Exam Results, KNTC Form 4-1.

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- 7.1.9 In-Training Evaluation Course and Instructor Evaluation (any utilized), Form NTP-8A.
- 7.1.10 Operations Training Request (any utilized), KNTC Form 5-12.
- 7.1.11 "On-Shift" Requalification Reactivity Control Manipulations Record, Form O-LRQ-RCM.
- 7.1.12 Record of Reactivity Control Manipulations, Form LRQ-MD2-2.
- 7.1.13 Licensed Operator Requalification Procedure Review, Form LRQ-MD2-3.
- 7.1.14 Licensed Operator Requalification Operational Examination.
- 7.1.15 Licensed Operator Requalification Overall Evaluation, Form LRQ-MD2-5.
- 7.1.16 Remedial/Accelerated Examinations and answers (any utilized).
- 7.1.17 Current Revision Book Sign-off Documentation.

8.0 PROGRAM CONTENT OUTLINE

8.1 Module 1 - Pre-Planned Classroom Series

Note: Lessons will be selected and/or developed in accordance with item 6.5.1 of this program.

UNIT 1 - Principles and Theory of Nuclear Power Plant Operations, Thermodynamics, Heat Transfer, and Fluid Flow

UNIT 2 - Plant Systems (including Safety and Emergency Systems) Design and Instrumentation and Control

UNIT 3 - Procedures and Requirements - Operating, Administrative, Radiological Control, and Emergencies

8.2 Module 2 - Simulator Training

UNIT 1 - Normal/Abnormal Operations

Simulator Exercise Plans

1. O-LRQ-SEP 2.1.1 Plant heatup from cold shutdown to 350°F with minor malfunctions.

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2. O-LRQ-SEP 2.1.2 Plant heatup from 350°F to hot shutdown and reactor startups to the point of adding heat and establishing a heatup rate with minor malfunctions.
3. O-LRQ-SEP 2.1.3 Plant startup from point of adding heat to 15% power and plant operation from 15% to > 50% power with minor malfunctions.
4. O-LRQ-SEP 2.1.4 Plant shutdown from 15% power to hot shutdown and plant cooldown from hot shutdown to cold shutdown with minor malfunctions.

UNIT 2 - Abnormal/Emergency Operations

Simulator Exercise Plans

- O-LRQ-SEP 2.2.1 Perform simulator exercises increasing in
 through severity and complexity. Malfunctions per-
 O-LRQ-SEP 2.2.8 formed may not have been reviewed prior to
 the exercise.

UNIT 3 - Accident and Transient Analysis

Note: This unit is optional and should be conducted based on the needs of the individual.

Lesson Plans

1. O-R0-LP 4.6.1 Symptom Based Accident Classification
2. O-R0-LP 4.6.2 Increased Secondary Heat Removal Events
3. O-R0-LP 4.6.3 Decreased Secondary Heat Removal Events
4. O-R0-LP 4.6.4 Increased Reactor Coolant Inventory Events
5. O-R0-LP 4.6.5 Decreased Reactor Coolant Inventory Events
6. O-R0-LP 4.6.6 Decreased Reactor Coolant Flow Events
7. O-R0-LP 4.6.7 Anticipated Transient Without Trip
8. O-R0-LP 4.6.8 Reactivity and Power Distribution Anomalies

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Simulator Exercise Plans

1. O-LRQ-SEP 2.3.1 Perform simulator exercises for increased and decreased heat removal events and events leading to pressurized thermal shock conditions.
2. O-LRQ-SEP 2.3.2 Perform simulator exercises for decreased reactor coolant flow events and decreased reactor coolant inventory events.
3. O-LRQ-SEP 2.3.3 Perform simulator exercises for reactivity and power distribution anomalies and anticipated transients without scram (ATWS).

UNIT 4 - Operational Exam Preparation

Simulator Exercise Plans

SEP's shall be selected from the Operational Exam Bank.

UNIT 5 - Operational Examination

Simulator Exercise Plan

SEP's shall be selected from the Operational Exam Bank and shall be different from those SEP's selected in Unit 4 of this module.

8.3 Module 3 - On-Shift Training

UNIT 1 - Operational Review

UNIT 2 - Operational Performance

ATTACHMENT 1

LICENSED OPERATOR REQUALIFICATION FLOWCHART

