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(2) File an original of NRC Form 398 with the appropriate Regional Administrator specified in §55.5(b).

(3) Provide written evidence of the applicant’s experience under the existing license and the approximate number of hours that the licensee has operated the facility.

(4) Provide a statement by an authorized representative of the facility licensee that during the effective term of the current license the applicant has satisfactorily completed the requalification program for the facility for which operator or senior operator license renewal is sought.

(5) Provide evidence that the applicant has discharged the license responsibilities competently and safely. The Commission may accept as evidence of the applicant’s having met this requirement a certificate of an authorized representative of the facility licensee or holder of an authorization by which the licensee has been employed.

(6) Provide certification by the facility licensee of medical condition and general health on Form NRC–396, to comply with §§ 55.21, 55.23 and 55.27.

(b) The license will be renewed if the Commission finds that—

(1) The medical condition and the general health of the licensee continue to be such as not to cause operational errors that endanger public health and safety. The Commission will base this finding upon the certification by the facility licensee as described in §55.23.

(2) The licensee—

(i) Is capable of continuing to competently and safely assume licensed duties;

(ii) Has successfully completed a requalification program that has been approved by the Commission as required by §55.59; and

(iii) Has passed the requalification examinations and annual operating tests as required by §55.59.

(3) There is a continued need for a licensee to operate or for a senior operator to direct operators at the facility designated in the application.

(4) The past performance of the licensee has been satisfactory to the Commission. In making its finding, the Commission will include in its evaluation information such as notices of violations or letters of reprimand in the licensee’s docket.


§ 55.59 Requalification.

(a) Requalification requirements. Each licensee shall—

(1) Successfully complete a requalification program developed by the facility licensee that has been approved by the Commission. This program shall be conducted for a continuous period not to exceed 24 months in duration.

(2) Pass a comprehensive requalification written examination and an annual operating test.

(i) The written examination will sample the items specified in §§55.41 and 55.43 of this part, to the extent applicable to the facility, the licensee, and any limitation of the license under §55.53(c) of this part.

(ii) The operating test will require the operator or senior operator to demonstrate an understanding of and the ability to perform the actions necessary to accomplish a comprehensive sample of items specified in §55.45(a) (2) through (13) inclusive to the extent applicable to the facility.

(iii) In lieu of the Commission accepting a certificate by the facility licensee that the licensee has passed written examinations and operating tests administered by the facility licensee within its Commission-approved program developed by using a systems approach to training under paragraph (c) of this section, the Commission may administer a comprehensive requalification written examination and an annual operating test.

(b) Additional training. If the requirements of paragraphs (a) (1) and (2) of this section are not met, the Commission may require the licensee to complete additional training and to submit evidence to the Commission of successful completion of this training before returning to licensed duties.

(c) Requalification program requirements. A facility licensee shall have a requalification program reviewed and approved by the Commission and shall, upon request consistent with the Commission’s inspection program needs, submit to the Commission a copy of its...
comprehensive requalification written examinations or annual operating
tests. The requalification program must meet the requirements of para-
graphs (c) (1) through (7) of this section. In lieu of paragraphs (c) (2), (3),
and (4) of this section, the Commission may approve a program developed by
using a systems approach to training.

(1) Schedule. The requalification pro-
gram must be conducted for a contin-
uous period not to exceed two years,
and upon conclusion must be promptly
followed, pursuant to a continuous
schedule, by successive requalification
programs.

(2) Lectures. The requalification pro-
gram must include preplanned lectures
on a regular and continuing basis
throughout the license period in those
areas where operator and senior oper-
ator written examinations and facility
operating experience indicate that em-
phasis in scope and depth of coverage is
needed in the following subjects:
(i) Theory and principles of oper-
ation.
(ii) General and specific plant oper-
atting characteristics.
(iii) Plant instrumentation and con-
trol systems.
(iv) Plant protection systems.
(v) Engineered safety systems.
(vi) Normal, abnormal, and emer-
gency operating procedures.
(vii) Radiation control and safety.
(viii) Technical specifications.
(ix) Applicable portions of title 10,
chapter I, Code of Federal Regulations.
(3) On-the-job training. The requali-
fication program must include on-the-
job training so that—
(i) Each licensed operator of a utili-
fication facility manipulates the plant
controls and each licensed senior oper-
ator either manipulates the controls or
directs the activities of individuals
during plant control manipulations
during the term of the licensed oper-
ator’s or senior operator’s license. For
reactor operators and senior operators,
these manipulations must consist of
the following control manipulations
and plant evolutions if they are appli-
cable to the plant design. Items de-
scribed in paragraphs (c)(3)(i) (A)
through (L) of this section must be per-
formed annually; all other items must
be performed on a two-year cycle. How-
ever, the requalification programs
must contain a commitment that each
individual shall perform or participate
in a combination of reactivity control
manipulations based on the avail-
ability of plant equipment and sys-
tems. Those control manipulations
which are not performed at the plant
may be performed on a simulator. The
use of the Technical Specifications
should be maximized during the simu-
lator control manipulations. Senior op-
erator licensees are credited with these
activities if they direct control manip-
ulations as they are performed.

(A) Plant or reactor startups to in-
clude a range that reactivity feedback
from nuclear heat addition is notice-
able and heatup rate is established.
(B) Plant shutdown.
(C) Manual control of steam genera-
tors or feedwater or both during start-
up and shutdown.
(D) Borations or dilution during power
operation.
(E) Significant (≥10 percent) power
changes in manual rod control or recir-
culation flow.
(F) Reactor power change of 10 per-
cent or greater where load change is
performed with load limit control or
where flux, temperature, or speed con-
trol is on manual (for HTGR).
(G) Loss of coolant, including—
(I) Significant PWR steam gener-
ator leaks
(2) Inside and outside primary con-
tainment
(3) Large and small, including lead-
rate determination
(4) Saturated reactor coolant re-
sponse (PWR).
(H) Loss of instrument air (if simu-
lated plant specific).
(I) Loss of electrical power (or de-
graded power sources).
(J) Loss of core coolant flow/natural
circulation.
(K) Loss of feedwater (normal and
emergency).
(L) Loss of service water, if required
for safety.
(M) Loss of shutdown cooling.
(N) Loss of component cooling sys-
tem or cooling to an individual com-
ponent.
(O) Loss of normal feedwater or nor-
mal feedwater system failure.
(P) Loss of condenser vacuum.
(Q) Loss of protective system channel.
(R) Mispositioned control rod or rods (or rod drops).
(S) Inability to drive control rods.
(T) Conditions requiring use of emergency boration or standby liquid control system.
(U) Fuel cladding failure or high activity in reactor coolant or offgas.
(V) Turbine or generator trip.
(W) Malfunction of an automatic control system that affects reactivity.
(X) Malfunction of reactor coolant pressure/volume control system.
(Y) Reactor trip.
(Z) Main steam line break (inside or outside containment).
(AA) A nuclear instrumentation failure.
(ii) Each licensed operator and senior operator has demonstrated satisfactory understanding of the operation of the apparatus and mechanisms associated with the control manipulations in paragraph (c)(3)(i) of this section, and knows the operating procedures in each area for which the operator or senior operator is licensed.
(iii) Each licensed operator and senior operator is cognizant of facility design changes, procedure changes, and facility license changes.
(iv) Each licensed operator and senior operator reviews the contents of all abnormal and emergency procedures on a regularly scheduled basis.
(v) A simulator may be used in meeting the requirements of paragraphs (c)(3)(i) and (3)(ii) of this section, if it reproduces the general operating characteristics of the facility involved and the arrangement of the instrumentation and controls of the simulator is similar to that of the facility involved. If the simulator or simulation device is used to administer operating tests for a facility, as provided in §55.45(b)(1), the device approved to meet the requirements of §55.45(b)(1) must be used for credit to be given for meeting the requirements of paragraphs (c)(3)(i) (G through AA) of this section.
(4) Evaluation. The requalification program must include—
(i) Comprehensive requalification written examinations and annual operating tests which determine areas in which retraining is needed to upgrade licensed operator and senior operator knowledge.
(ii) Written examinations which determine licensed operators’ and senior operators’ knowledge of subjects covered in the requalification program and provide a basis for evaluating their knowledge of abnormal and emergency procedures.
(iii) Systematic observation and evaluation of the performance and competency of licensed operators and senior operators by supervisors and/or training staff members, including evaluation of actions taken or to be taken during actual or simulated abnormal and emergency procedures.
(iv) Simulation of emergency or abnormal conditions that may be accomplished by using the control panel of the facility involved or by using a simulator. When the control panel of the facility is used for simulation, the actions taken or to be taken for the emergency or abnormal condition shall be discussed; actual manipulation of the plant controls is not required. If a simulator is used in meeting the requirements of paragraph (c)(4)(iii) of this section, it must accurately reproduce the operating characteristics of the facility involved and the arrangement of the instrumentation and controls of the simulator must closely parallel that of the facility involved. After the provisions of §55.46 have been implemented at a facility, the Commission approved or plant-referenced simulator must be used to comply with this paragraph.
(v) Provisions for each licensed operator and senior operator to participate in an accelerated requalification program where performance evaluations conducted pursuant to paragraphs (c)(4) (i) through (iv) of this section clearly indicated the need.
(5) Records. The requalification program documentation must include the following:
(i) The facility licensee shall maintain records documenting the participation of each licensed operator and senior operator in the requalification program. The records must contain copies of written examinations administered, the answers given by the licensee, and the results of evaluations and documentation of operating tests.
and of any additional training administered in areas in which an operator or senior operator has exhibited deficiencies. The facility licensee shall retain these records until the operator’s or senior operator’s license is renewed.

(ii) Each record required by this part must be legible throughout the retention period specified by each Commission regulation. The record may be the original or a reproduced copy or a microform provided that the copy or microform is authenticated by authorized personnel and that the microform is capable of producing a clear copy throughout the required retention period.

(iii) If there is a conflict between the Commission’s regulations in this part, and any license condition, or other written Commission approval or authorization pertaining to the retention period for the same type of record, the retention period specified for these records by the regulations in this part apply unless the Commission, pursuant to §55.11, grants a specific exemption from this record retention requirement.

(6) Alternative training programs. The requirements of this section may be met by requalification programs conducted by persons other than the facility licensee if the requalification programs are similar to the program described in paragraphs (c) (1) through (5) of this section and the alternative program has been approved by the Commission.

(7) Applicability to research and test reactor facilities. To accommodate specialized modes of operation and differences in control, equipment, and operator skills and knowledge, the requalification program for each licensed operator and senior operator of a research reactor or test reactor facility must conform generally but need not be identical to the requalification program outlined in paragraphs (c) (1) through (6) of this section. Significant deviations from the requirements of paragraphs (c) (1) through (6) of this section will be permitted only if supported by written justification and approved by the Commission.

§55.61 Modification and revocation of licenses.

(a) The terms and conditions of all licenses are subject to amendment, revision, or modification by reason of rules, regulations, or orders issued in accordance with the Act or any amendments thereto.

(b) Any license may be revoked, suspended, or modified, in whole or in part:

(1) For any material false statement in the application or in any statement of fact required under section 182 of the Act,

(2) Because of conditions revealed by the application or statement of fact or any report, record, inspection or other means that would warrant the Commission to refuse to grant a license on an original application,

(3) For willful violation of, or failure to observe any of the terms and conditions of the Act, or the license, or of any rule, regulation, or order of the Commission, or

(4) For any conduct determined by the Commission to be a hazard to safe operation of the facility.

(5) For the sale, use or possession of illegal drugs, or refusal to participate in the facility drug and alcohol testing program, or a confirmed positive test for drugs, drug metabolites, or alcohol in violation of the conditions and cut-off levels established by §55.53(j) or the consumption of alcoholic beverages within the protected area of power reactors or the controlled access area of non-power reactors, or a determination of unfitness for scheduled work as a result of the consumption of alcoholic beverages.

Subpart H—Enforcement

§55.71 Violations.

(a) The Commission may obtain an injunction or other court order to prevent a violation of the provisions of—

(1) The Atomic Energy Act of 1954, as amended;