

Appendix D-2:
Operator Licensing Examiner Training
and Qualification Program

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Introduction

This Appendix establishes the Advanced-Level Training and Qualification Program for initial qualification and certification of operator licensing (OL) examiners and chief examiners through self-study, formal classroom instruction, and on-the-job training (OJT) activities. It also establishes requirements for maintaining examiner proficiency and certification through periodic performance observations, continuing, and refresher training.

Pursuant to Section 04.05 of IMC 1245, the Chief of the NRR OL Program Branch is responsible for developing and maintaining this Advanced-Level Training and Qualification Program. The NRR OL Branch Chief (BC) evaluates proposed changes in the OL program for impacts on examiner training, periodically reviews and assesses the effectiveness of examiners in implementing the OL program to identify needed refresher and continuing training topics, and assesses the examiner training and qualification program effectiveness to identify areas in which the program needs to be revised.

In accordance with Section 06.02.d of IMC 1245, the need for this advanced training will be determined by the regional OL BC (in coordination with the individual's BC, as appropriate). Pursuant to Section 05.01 of IMC 1245, full-time OL examiner candidates must complete the training requirements in this appendix within 24 months after assignment to the position. Sub-assigned examiners who administer operating tests on a reserve or part-time basis and will never be used to prepare or review written examinations may be certified on a limited basis by completing those training requirements identified with an (L) on the Examiner Signature and Certification Card (page D2-39). Full-time examiners may be similarly certified only to administer operating tests on an interim basis until they complete the remaining items on the Examiner Signature and Certification Card. Full-time examiners who initially qualify under this appendix are generally expected to qualify as Operations Inspectors (by completing Appendix C1 of IMC 1245) on a schedule to be determined by the regional OL BC. Only those individuals who have completed both qualifications can be assigned to lead requalification inspections.

Chief examiner certifications can be completed at the discretion of the regional OL BC. Sub-assigned or part-time examiners will generally not be certified or assigned duties as a chief examiner.

At the regional OL BC's discretion, the advanced-level requirements specified herein may be performed prior to or in parallel with the Basic and Full Inspector training requirements. All examiner candidates must complete Appendix A in its entirety before they can be certified as an OL examiner. However, pursuant to Section 05.02 of IMC 1245, the individual's division director has the authority to accept alternate methods for meeting the requirements in Appendices A, B, and C.

Although regional OL BCs are encouraged to complete the OL examiner certification program, it is not required.

Training Courses

The Power Plant Engineering Directed Self-Study Course (E-110S) may be required, as determined by the regional OL BC, depending on the individual's prior training and experience.

The Examination Techniques Course (G-107), which includes instruction on both operating test and written examination techniques, is scheduled and conducted as needed by the NRR Operator Licensing Program Office. The operating test techniques portion of the course, which is conducted at the NRC's Technical Training Center, is required for all OL examiners (including those with limited certification). The written techniques portion of the course, which is generally conducted separately at NRC Headquarters in Rockville, MD, is required for all full-time examiners.

The Reactor Technology Series (Basic, Advanced, and Simulator) should normally be completed before attending the Examination Techniques Course. Examiner candidates should also complete Study Activities (5) and (7) before attending the written portion of the course, and they should additionally complete Study Activity (8) and one initial examination observation trip (OJT Activity (1)) before attending the operating test techniques training.

Document completion of the reactor technology courses on the Signature Card on Page D2-40 as well as the Signature Card in Appendix C1, "Reactor Operations Inspector Technical Proficiency Training and Qualification Journal."

Chief Examiner Training

In addition to the training identified above for OL examiners, chief examiners must also complete the team leader training specified in Appendix D4, "Team Leader Training and Qualification Program," within one year of being qualified as a chief examiner. The completion of that training shall be documented on the Signature Card on Page D2-42 as well as the Signature Card in Appendix D4.

Individual Study Activities

The Individual Study Activities outline the operator licensing program reference materials that will enable examiner candidates to develop the specialized knowledge required to become certified OL examiners and chief examiners. Reference materials that can be accessed via the OL web site are identified with a (W).

Some of the Individual Study Activities required for certification as an OL examiner duplicate guides contained in Appendix C1, "Reactor Operations Inspector Technical Proficiency Training and Qualification Journal." Document completion of those activities on the Signature Card on Page D2-40 as well as the Signature Card in Appendix C1.

The following general guidance applies as you complete the OL Examiner Individual Study Activities:

- The activities should generally be completed in the order in which they are presented, unless otherwise directed by the regional OL BC.
- All parts of each activity must be completed. However, the Director, Division of Reactor Safety (DRS), can approve alternate methods for meeting the training and

experience requirements in this Appendix. Justifications for accepting alternate methods must be documented and filed in the individual's training record and are subject to review by the OL program office. Only the OL program office can authorize waivers or exceptions (e.g., not preparing a complete written examination) from the requirements in this Appendix; waiver or exception requests can be submitted to the program office via email or memorandum.

- The regional OL BC will act as a resource as you complete each activity. Discuss any questions you may have about how a task must be done or how the guidance is applied. The OL BC may also designate a qualified chief examiner to work with you as you complete the various activities.
- You are responsible for keeping track of what tasks you have completed. Be sure that you have completed all aspects of an activity before you meet with the regional OL BC for evaluation.

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-1) Navigating the NRC's Operator Licensing Web Pages

PURPOSE: The purpose of this activity is to familiarize you with the navigation and content of the NRC's operator licensing web pages. OL Examiners must routinely access and review a variety of documents to support their work activities. This individual study activity will familiarize you with the web locations of those documents.

COMPETENCY AREA: INFORMATION TECHNOLOGY

LEVEL OF EFFORT: 2 hours

REFERENCES:

1. <http://www.nrc.gov/NRC/REACTOR/OL/OLhome.html>
2. <http://www.nrc.gov/NRR/GFE/index.html>

EVALUATION CRITERIA: There are no specific evaluation criteria for this activity. Use the regional OL BC or another OL examiner as a resource as you complete this activity.

TASKS:

1. Open your web browser and go to the Operator Licensing Home Page (the first URL referenced above). Add a bookmark for future reference.
2. Familiarize yourself with the general layout. Navigate through each of the five pages accessible from the home page: General Information, Regulations, Guidance Documents, Commission Papers, and Schedules. Try out some of the hyperlinks to the various documents related to the OL program.
3. Make a mental note of the document locations as you will need to refer to many of them while completing the remainder of the OL examiner training and qualification program and after you are certified as an OL examiner.
4. Be sure to check out the hyperlink to the OL frequently asked questions (FAQ) page - it's accessible from the Table of Contents on the General Information page.
5. Go to the Generic Fundamentals Examination (GFE) home page by using the hyperlink in the General Information table of contents or by entering the second URL referenced above. Familiarize yourself with its contents. You will spend more time here when you work on Study Activity No. 5.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-2) History and Organization of the Operator Licensing Program

PURPOSE: The purpose of this activity is to familiarize you with the evolution of the OL program and the statutory / regulatory framework under which it functions.

COMPETENCY AREA: REGULATORY FRAMEWORK

LEVEL OF EFFORT: 16 hours

REFERENCES:

1. Section 107 of the Atomic Energy Act of 1954 (W)
2. Section 306 of the Nuclear Waste Policy Act of 1982 (W)
3. 10 CFR Part 55 (W)
4. 1987 final rule; NUREG-1262
5. 10 CFR 50.54(i) - (m) (W)
6. OL Program Chronology and History 1979 - 1994 (W)
7. OL Program Fact Sheet (W)
8. NRC Organization Charts and Delegation of Authority
9. OL Manual Chapters

EVALUATION CRITERIA:

Upon completing this activity, you will be asked to demonstrate your understanding of the OL program history and regulatory framework as follows:

1. Discuss the statutory requirements for the OL program as stated in the Atomic Energy Act of 1954.
2. Discuss the statutory and regulatory changes put into effect by the Nuclear Waste Policy Act of 1982, including the 1987 final amendment to 10 CFR 55.
3. Discuss the layout and major Subparts of 10 CFR Part 55.
4. Outline the major offices having OL responsibilities and briefly describe the functioning of the following: the NRR Operator Licensing Program Office; the Director, Division of Inspection Program Management; the Atomic Safety and Licensing Board; the NRC Regional Offices.
5. Describe the Region's OL organization and its relationship to and interaction with the NRR OL Program Office.

TASKS:

1. On the OL Website, locate and review the statutory requirements for the OL program (i.e., references 1 and 2).

2. Locate and read a copy of 10 CFR Part 55 (it's on the web, but a hard copy might be useful). Become familiar with its overall layout and format.
3. Locate and review the FRN for the 1987 amendment to Part 55, which implemented Section 306 of the NWPA of 1982. A copy of the FRN is located in NUREG-1262. Briefly review some of the questions and answers in the NUREG to get a sense for its content, as it will be a useful reference in the future. (Note that NUREG-1262 provides a useful historical perspective but that some of the answers have been overtaken by changes in the operator licensing regulations, policies, and guidance.)
4. Locate a copy of Part 50 (it's also on the web) and review the license conditions applicable to the OL program.
5. Find the OL program history / chronology on the OL web site and familiarize yourself with the major events since the accident at TMI, which initiated a round of changes in the OL and training areas.
6. Review the Office of Public Affairs' OL Program Fact Sheet on the web site. This provides a brief overview of the major program changes since 1995.
7. Locate and review an NRC organization chart, with emphasis on the regional operator licensing organization and how it fits into the NRR OL program.
8. Locate and review the NRR OL Program Office manual chapters that describe the regional audit and oversight functions including the Report on Interaction (ROI) process.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-3) License Eligibility Requirements and Guidelines

PURPOSE: The purpose of this activity is to familiarize you with the regulatory requirements, regulatory guidelines, and industry standards related to NRC reactor operator and senior operator license eligibility. It also provides exposure to the Operator Licensing Tracking System (OLTS) and docket files.

COMPETENCY AREA: REGULATORY FRAMEWORK

LEVEL OF EFFORT: 16 hours

REFERENCES:

1. Subparts B, C, and D of 10 CFR 55; 55.47 (W)
2. NRC Forms 398 and 396 (W)
3. Licensing Basis Documents (TS and FSAR)
4. Regulatory Issue Summary 2001-01 (W)
5. Regulatory Guide 1.8 (W)
6. ANSI/ANS 3.1
7. National Academy for Nuclear Training Document 00-003
8. Regulatory Guide 1.134 (W)
9. IN 98-37 (W)
10. ANSI/ANS 3.4
11. ES-202 and ES-204 of NUREG-1021 (W)
12. OLTS Users' Guide
13. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory requirements for operator license eligibility, including medical fitness, waivers and exemptions, the license application process, and facility licensing basis (TS and FSAR) documents.
2. Discuss the background documents (ANSI, ACAD, and RG) that provide guidance regarding licensed operator experience and training.
3. Discuss the background documents (ANSI and RG) that provide guidance regarding licensed operator medical qualifications.
4. Discuss the implementation of the license application and waiver processes, including applicant and regional

responsibilities, the handling of forms, establishment of docket files, and the making of OLTS entries.

5. Discuss the types of waivers, who has the authority to approve them, and how they are documented.

TASKS:

1. Review Subparts B, C, and D of Part 55, which cover the regulatory requirements for operator license eligibility, including medical fitness, exemptions, and the license application process. Also review Section 55.47 regarding examination waivers.
2. Review IN 98-37 and RIS 2001-01 on the OL web site. Obtain a copy of and review the background documents (ANSI 3.1, ACAD 00-003, and RG 1.8) that provide guidance regarding licensed operator experience and training. Familiarize yourself with the guidelines for other staff positions, but focus primarily on licensed operators and senior operators. Although you should focus primarily on the current version of each document, peruse previous versions (i.e., ANSI 18.1-1971 and 3.1-1981, and RG 1.8, Rev. 2) to get a sense of the evolutionary changes affecting licensed operators.
3. Obtain and review copies of the background documents (ANSI 3.4-1996 and RG 1.134, Rev. 3) that provide guidance regarding licensed operator medical qualifications. Many licensees are still using the previous version of each document, so be sure to review them as well.
4. Review the license application process in ES-202 and the waiver process in ES-204 of NUREG-1021. Familiarize yourself with the applicants' and regional office's responsibilities, the handling of forms, establishment of docket files, making of OLTS entries, and the approval and documentation of waivers.
5. Obtain an OLTS system demonstration from the operator licensing assistant and, by reviewing the OLTS users' guide, familiarize yourself with the data that is stored in the system and the reports that it is capable of generating.
6. Review a sample of docket files to familiarize yourself with their contents.
7. Review the OL web site for FAQs related to license eligibility and review any related ROIs issued since the last revision of NUREG-1021 was published.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-4) Initial Operator Licensing Process

PURPOSE: The purpose of this activity is to familiarize you with the initial operator licensing process, including examination scheduling and coordination, and post-examination activities.

COMPETENCY AREA: INSPECTION
ASSESSMENT AND ENFORCEMENT

LEVEL OF EFFORT: 16 hours

REFERENCES:

1. 10 CFR 55.40; 55.49 (W)
2. SECY-98-266 (W)
3. ES-201 and ES-501 of NUREG-1021 (W)
4. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
5. Summary of examination security incidents; IN 98-15 (W)
6. Latest Regulatory Issue Summary (RIS) Requesting Schedule Inputs (e.g., RIS 2001-17) (W)
7. Operator Licensing Schedules (RPS and W)
8. Latest Annual SECY Report on the Status of OL Programs (e.g., SECY-01-038) (W)

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory requirements regarding the implementation of facility-prepared exams (55.40 and 55.49) and the associated vulnerabilities.
2. Discuss the NRC's expectations regarding examination security.
3. Enumerate and describe the major tasks associated with scheduling, coordinating, and developing an initial licensing examination.
4. Enumerate and describe the major tasks associated with documenting an initial licensing examination, such as processing the licensing actions and proposed denials, writing the examination report, and maintaining the associated examination records.

TASKS:

1. Review SECY-98-266 (including all attachments) and 10 CFR 55.40 and 55.49 to familiarize yourself with the regulatory basis for the most recent Part 55 rule change that gave facility licensees the option of preparing their own examinations. Pay

particular attention to the discussion of vulnerabilities associated with the new examination process.

2. Review ES-201 of NUREG-1021 to familiarize yourself with the responsibilities and major tasks associated with an initial licensing examination. Pay particular attention to the personnel restrictions and examination security guidelines in Attachment 1. (Don't spend a lot of time on the Outline Quality Checklist (Form ES-201-2) because that will be covered in later activities.)
3. Obtain and review a summary of the recent examination security incidents.
4. Review the latest RIS requesting examination schedule information and the regional examination schedules on RPS and the OL web site.
5. Review ES-501 of NUREG-1021 to familiarize yourself with the responsibilities and major tasks associated with documenting an initial licensing examination, such as processing the licensing actions, the proposed denials, the examination report and the associated examination records.
6. Locate and review a facility examination file to familiarize yourself with its contents; match the contents with the list in Section F.1 of ES-501. Note which items are available to the public and which ones are protected by the Privacy Act.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-5) Overview of Generic Concepts Related to Examination Development

PURPOSE: The purpose of this activity is to familiarize you with the concepts of examination validity and reliability and other generic psychometric principles.

COMPETENCY AREA: INSPECTION
TECHNICAL AREA EXPERTISE

LEVEL OF EFFORT: 4 hours

REFERENCES:

1. Appendices A and B of NUREG-1021 (W)
2. NUREG-1122 / 1123 (W)

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Explain the three principle aspects of examination validity and the techniques that the NRC uses to maintain the validity of its examinations.
2. Explain the concept of examination reliability and how it is maintained on NRC examinations.
3. Explain the generic psychometric principles that examination authors should observe when preparing NRC examinations.

TASKS:

1. Review Appendix A of NUREG-1021 to familiarize yourself with the concepts of examination validity and reliability.
2. Review Appendix B of NUREG-1021 to familiarize yourself with the generic psychometric principles that help enhance the validity of NRC examinations.
3. Review Section 1 of NUREG-1122 or 1123 (depending on the type of reactor on which you will be certifying) to familiarize yourself with the organization of the catalog. Briefly review the remainder of the catalog to get a sense for the types of knowledge and abilities covered in the generic, plant systems, emergency and abnormal plant evolutions, components, and theory sections.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-6) Generic Fundamentals Examination (GFE) Program

PURPOSE: The purpose of this activity is to familiarize you with the generic fundamentals section of the written licensing examination.

COMPETENCY AREA: INSPECTION
TECHNICAL AREA EXPERTISE

LEVEL OF EFFORT: 4 hours

REFERENCES:

1. 10 CFR 55.41 (W)
2. ES-205 of NUREG-1021 (W)
3. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
4. Sections 5 and 6 of NUREG-1122 (or 1123) (W)
5. GFE Web Site

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory basis for the GFE.
2. Discuss the design, development, and administration of the GFE, including the responsibilities and authorities of the individuals and organizations involved with the GFE program.
3. Differentiate the types of knowledge and ability that are appropriate for testing on the GFE.

TASKS:

1. Review 10 CFR 55.41 and identify those items that are appropriate for testing on a generic fundamentals examination.
2. Review ES-205 of NUREG-1021 and familiarize yourself with the responsibilities of the parties involved in the GFE program.
3. Review ES-205, the "General Information" page of the GFE website, and Sections 5 and 6 of NUREG-1122 (or 1123 as applicable) and familiarize yourself with the scope and structure of the GFE.
4. Review the last GFE on the web site and sample the questions in the BWR or PWR (as appropriate) question bank to familiarize yourself with the types of questions used on a GFE.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-7) Operator Licensing Written Examinations

PURPOSE: The purpose of this activity is to familiarize you with the development, administration, and grading of the written site-specific initial licensing examination.

COMPETENCY AREA: INSPECTION
TECHNICAL AREA EXPERTISE

LEVEL OF EFFORT: 40 hours

REFERENCES:

1. 10 CFR 55.41 and 43 (W)
2. ES-401, ES-402, ES-403, and ES-501 of NUREG-1021 (W)
3. Form ES-201-2 (W)
4. IN 98-28 (W)
5. Appendices B and E of NUREG-1021 (W)
6. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
7. Sections 1 - 4 of NUREG-1122 (or 1123) (W)
8. ES-701 of NUREG-1021 (W)
9. National Examination Bank

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Explain the regulatory basis for the site-specific written examination and the content differences between the RO and SRO exams.
2. Explain the breakdown in responsibilities for the parties involved in developing, administering, and grading the written examinations.
3. Explain how the written examination is prepared, including development of the examination outline, the selection / development of questions, and measures taken to maintain validity and quality.
4. Explain the principles and policies for developing psychometrically sound multiple choice questions.
5. Explain the procedures and policies regarding administration of the written examination, including measures to protect exam security and integrity.

6. Explain the procedures for grading the written examinations, including quality reviews and the resolution of post-examination comments.

TASKS:

1. Review 10 CFR 55.41 and 55.43 to familiarize yourself with the regulatory basis for the site-specific written examination (in contrast to the GFE) and the content differences between the RO and SRO exams.
2. Review the written examination development guidance in ES-401 of NUREG-1021 to gain an understanding of the requirements for preparing a valid and unbiased examination outline, implementing the outline using a combination of bank, modified, and new questions, and reviewing the outline and the draft examination to ensure quality.
3. Review Appendix B of NUREG-1021 to reinforce the principles and guidelines for developing psychometrically sound multiple choice questions.
4. Review ES-402 of NUREG-1021 and Parts A and B of Appendix E to gain an understanding of the procedures and policies regarding administration of the written examination, including measures to protect exam security and integrity.
5. Review ES-403 and ES-501 of NUREG-1021 to familiarize yourself with the procedures for grading the written examinations, including quality reviews, the resolution of post-examination comments, and making licensing recommendations.
6. Locate and review a recently completed RO and SRO written examination for the type of facility on which you plan to certify, including copies of the facility licensee's submittal, the reviewing examiners' comments, the final examination, all the associated quality checklists, and any post-exam comments / resolutions. Pay particular attention to the types of technical and psychometric issues that were identified and corrected by the reviewing examiner(s) and the differences between the RO and SRO examinations. Discuss any questions you might have with the responsible chief examiner.
7. Review ES-701 of NUREG-1021 to familiarize yourself with the differences between a regular SRO written examination and the one that is used to license SROs whose responsibilities are limited to fuel handling.
8. Review the remaining reference materials for additional background information.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-8) Operator Licensing Operating Tests

PURPOSE: The purpose of this activity is to familiarize you with the development, administration, and grading of initial operator licensing operating tests.

**COMPETENCY
AREA:**

INSPECTION
ASSESSMENT AND ENFORCEMENT
TECHNICAL AREA EXPERTISE

**LEVEL OF
EFFORT:**

40 hours

REFERENCES:

1. 10 CFR 55.45 (W)
2. ES-301, ES-302, ES-303 and ES-501 of NUREG-1021 (W)
3. Appendices C, D, and E of NUREG-1021 (W)
4. ES-701 of NUREG-1021 (W)
5. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
6. Sections 1 - 4 of NUREG-1122 (or 1123) (W)
7. NUREG-1291

**EVALUATION
CRITERIA:**

At the completion of this activity you should be able to:

1. Explain the regulatory basis for the operating test.
2. Explain the breakdown in responsibilities for the parties involved in developing, administering, and grading the operating tests.
3. Explain how the walk-through and dynamic simulator operating tests are prepared, including development of the test outline, the selection / development of test items, and measures taken to maintain validity and quality.
4. Describe the components of a job performance measure (JPM) and the characteristics of an alternate path JPM.
5. Describe the qualitative and quantitative attributes used to establish a basis for simulator scenario validity, including the elements of a critical task.
6. Describe the competencies and rating factors that are used to evaluate the performance of RO and SRO applicants on the dynamic simulator operating test.

7. Explain the procedures and policies regarding administration of the walk-through and dynamic simulator operating tests, including measures to protect exam security and integrity.
8. Explain the procedures for grading the walk-through and dynamic simulator operating tests, including quality reviews and licensing recommendations.

TASKS:

1. Review 10 CFR 55.45 to familiarize yourself with the regulatory basis for the operating test.
2. Review the operating test development guidance in ES-301 of NUREG-1021 to gain an understanding of the requirements for preparing the walk-through and simulator operating test outline, implementing the outline using a combination of bank, modified, and new test items, and reviewing the outline and the draft operating tests to ensure quality.
3. Review Appendices C and D of NUREG-1021 to familiarize yourself with the principles and policies for developing valid JPMs and dynamic simulator scenarios.
4. Review ES-302 of NUREG-1021, Section D of Appendix C, Section F of Appendix D, and Parts C, D, and E of Appendix E to gain an understanding of the procedures and policies regarding administration of the operating tests, including measures to protect test security and integrity.
5. Review ES-303 and ES-501 of NUREG-1021 to familiarize yourself with the procedures for grading the walk-through and dynamic simulator operating tests, including quality reviews and making licensing recommendations.
6. Locate and review the operating test documentation (Form ES-303-1) for an applicant who failed at least one category of the operating test.
7. Locate and review a recently completed operating test for the type of facility on which you plan to certify, including copies of the facility licensee's submittal, the reviewing examiners' comments, the final approved test, and all the associated quality checklists. Pay particular attention to the types of technical and psychometric issues that were identified and corrected by the reviewing examiner(s). Discuss any questions you might have with the responsible chief examiner.
8. Review ES-701 of NUREG-1021 to familiarize yourself with the differences between a regular SRO operating test and the one that is used to license SROs whose responsibilities are limited to fuel handling.

9. Review the remaining reference materials for additional background information.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPICS:

(ISA-OLE-9)	Technical Specifications	Refer to Appendix C1, ISA-OPS-2
(ISA-OLE-10)	Operability	Refer to Appendix C1, ISA-OPS-3
(ISA-OLE-11)	Shutdown Operations	Refer to Appendix C1, ISA-OPS-8

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-12) Operator Licensing Appeals and Hearings

PURPOSE: The purpose of this activity is to familiarize you with the procedures for conducting informal administrative reviews and formal hearings in response to applicant appeals of proposed license denials.

COMPETENCY AREA: REGULATORY FRAMEWORK

LEVEL OF EFFORT: 6 hours

REFERENCES:

1. 10 CFR 2.103 and Subpart L (W)
2. ES-202, ES-501, and ES-502 of NUREG-1021 (W)
3. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
4. OL Manual Chapter 500
5. NRR Process Standard for Administrative Reviews and Hearings

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory basis for the appeal and hearing process.
2. Explain the responsibilities of the various parties involved in the appeal and hearing process.
3. Describe the informal administrative review procedures for application denials and proposed examination failures.
4. Describe the operator licensing appeal hearing process used by the Atomic Safety and Licensing Board (ASLB).

TASKS:

1. Review 10 CFR 2.103 and Subpart L to familiarize yourself with the regulatory basis for the appeal / hearing process.
2. Review ES-202, ES-501, and ES-502 of NUREG-1021 to familiarize yourself with the proposed denial and appeal process and the responsibilities of the parties involved.
3. Review OL Manual Chapter 500 and the NRR Process Standard for Administrative Reviews and Hearings to familiarize yourself with the NRR OL Program Office and ASLB procedures for handling appeals.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

- TOPIC:** (ISA-OLE-13) Systems Approach to Training (SAT)
- PURPOSE:** The purpose of this activity is to familiarize you with the training rule and the systems approach to training.
- COMPETENCY AREA:** ASSESSMENT AND ENFORCEMENT
REGULATORY FRAMEWORK
INSPECTION
- LEVEL OF EFFORT:** 8 hours
- REFERENCES:**
1. Section 306 of the Nuclear Waste Policy Act of 1982 (W)
 2. 10 CFR 50.120 (W)
 3. 10 CFR 55.4 (W)
 4. Training Rule History (W)
 5. "Commission Policy Statement(s) on Training and Qualification of Nuclear Power Plant Personnel," published in Federal Register, Vol. 50, March 20, 1985, pp. 11147-48, and Vol. 53, November 18, 1988, pp. 46603-05.
 6. IP-41500 (W)
 7. NUREG-1220
- EVALUATION CRITERIA:** At the completion of this activity you should be able to:
1. Explain the statutory and regulatory bases for the systems approach to training.
 2. Describe the five elements of a systems approach to training.
 3. Discuss the major events in the development of the NRC's policy on the training and qualification of nuclear power plant workers.
- TASKS:**
1. Review Section 306 of the NWPA, 10 CFR 50.120, and 55.4 to familiarize yourself with the statutory and regulatory bases for the systems approach to training.
 2. Review the history of the training rule on the OL web site and the Commission Policy Statements on Training and Qualification of Nuclear Power Plant Personnel to gain an understanding of the significant events that shaped the NRC's current training policy.
 3. Review NUREG-1220 and IP 41500 to familiarize yourself with the five elements of a systems approach to training and the

guidance to the staff for reviewing nuclear power training programs to verify compliance with the regulations.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-14) Licensed Operator Requalification and Other License Conditions

PURPOSE: The purpose of this activity is to familiarize you with the NRC's program for overseeing licensed operator requalification training programs and monitoring and enforcing operators' compliance with other license conditions.

COMPETENCY AREA: ASSESSMENT AND ENFORCEMENT
REGULATORY FRAMEWORK
INSPECTION

LEVEL OF EFFORT: 16 hours

REFERENCES:

1. Subparts F, G, and H of 10 CFR 55 (W)
2. ES-501 of NUREG-1021 (W)
3. IP-71111.11 (W)
4. Associated FAQs (W), additional guidance (W), and ROIs issued since the last NUREG-1021 revision
5. Significance Determination Process (Appendix I to NRC Inspection Manual Chapter 0609) (W)
6. ES-600 Series of NUREG-1021 (W)
7. Regulatory Guide 1.114

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory conditions with which licensed operators must comply, including expiration, renewal, and requalification.
2. Discuss the conditions under which the NRC could revoke, modify, or suspend an operator's license and those under which it could take enforcement action.
3. Describe the NRC's program for overseeing licensed operator requalification training programs, including periodic inspections and NRC-conducted examinations and the conditions under which each would be performed.
4. Describe the NRC's guidance on acceptable methods of complying with the regulations that require operators to be present at the controls.

TASKS:

1. Review 10 CFR 55.53, Attachment 3 of ES-501, Section C of ES-605, and the list of special license conditions available from

- the operator licensing assistant to familiarize yourself with the license conditions applicable to nuclear power plant operators.
2. Review 10 CFR 55.55, 55.57, and Section D of ES-605 to familiarize yourself with the requirements related to the expiration and renewal of operators' licenses.
 3. Review 10 CFR 55.59 to familiarize yourself with the requirements for licensed operator requalification programs.
 4. Review IP-71111.11 and the associated Significance Determination Process (SDP) to familiarize yourself with the NRC's procedure for evaluating licensed operator requalification training programs at power reactor facilities.
 5. Review ES-601, ES-602, ES-603, ES-604, and Section E of ES-605 to familiarize yourself with the procedures that the NRC would use to conduct for-cause requalification examinations.
 6. Review RG 1.114 to gain an understanding of the NRC's expectations regarding being an operator at the controls of a nuclear power plant.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner Individual Study Activity

TOPIC: (ISA-OLE-15) Power Plant Simulators

PURPOSE: The purpose of this activity is to familiarize you with the NRC's regulations and policies regarding the use of simulation facilities for the administration of operating tests and plant-referenced simulators to meet experience requirements for operator and senior operator licenses.

COMPETENCY AREA: ASSESSMENT AND ENFORCEMENT
INSPECTION
REGULATORY FRAMEWORK

LEVEL OF EFFORT: 8 hours

REFERENCES:

1. 10 CFR 55.4 and 55.46 (W)
2. SECY-01-0125 (W)
3. Regulatory Guide 1.149 (W)
4. Rule change implementation guidance (pending)
5. ES-302, ES-501, and Appendix D of NUREG-1021 (W)
6. FAQs related to simulators (W)
7. ANSI/ANS 3.5

EVALUATION CRITERIA: At the completion of this activity you should be able to:

1. Discuss the regulatory basis for the NRC's policies regarding the use of simulation facilities.
2. Discuss the methods acceptable to the NRC staff for complying with the regulations associated with the use of simulation facilities in operator training and license examinations.
3. Discuss the guidance to examiners regarding simulator operability and security while administering operating tests.

TASKS:

1. Review 10 CFR 55.4, 55.46 and SECY-01-0125 to familiarize yourself with the regulatory basis behind the NRC's policies regarding the use of power plant simulation facilities.
2. Review RG 1.149 (Revisions 2 and 3) and ANSI/ANS 3.5 (1985 and 1998) to familiarize yourself with acceptable methods for complying with the regulations regarding the use of simulation facilities for operator training and examinations.

3. Review the guidance to examiners in NUREG-1021 for ensuring that facility licensees are complying with 10 CFR 55.46.
4. Review Section D.3.o of ES-302 and Section F of Appendix D to familiarize yourself with possible indications of an inoperable simulator and security considerations for administering simulator tests.
5. Review Section E.3.c and Attachment 2 of ES-501 to familiarize yourself with the requirements for documenting simulator fidelity problems in the examination report.

DOCUMENTATION: OL Examiner Signature and Certification Card

On-the-Job Training (OJT) Activities

The OJT activities require OL examiner candidates to conduct examination-related work, under supervision, at reactor facilities and in the regional office. These activities are designed to allow examiner candidates to observe and perform key examiner tasks under controlled circumstances. Like the individual study activities, each of the OJT activities indicates why the activity is important, how much time it might take to complete the assignment, and what is expected to be completed successfully during the activity.

Participation in a licensed operator requalification program inspection (IP 71111, Attachment 11) pursuant to Basic-Level OJT Activity (4), "Inspection Activities," also satisfies the criteria of OL examiner OJT Activity (4), "Requalification Inspection." Examiner candidates who did not participate in a requalification program inspection as part of their Basic Inspector Qualification must repeat Basic-Level OJT Activity (4) during a requalification inspection.

OJT Activity (2), "Conduct of Operations," duplicates an activity contained in Appendix C1, "Reactor Operations Inspector Technical Proficiency Training and Qualification Journal." Document completion of this activity on the Signature Card on Page D2-40 as well as the Signature Card in Appendix C1.

The following general guidance applies as you complete the OL Examiner OJT Activities:

- The activities should generally be completed in the order in which they are presented, unless otherwise directed by the regional OL BC.
- All parts of each activity must be completed. However, the Director, Division of Reactor Safety (DRS), can approve alternate methods for meeting the training and experience requirements in this Appendix. Justifications for accepting alternate methods must be documented and filed in the individual's training record and are subject to review by the OL program office. Only the OL program office can authorize waivers or exceptions (e.g., not preparing a complete written examination) from the requirements in this Appendix; waiver or exception requests can be submitted to the program office via email or memorandum.
- The regional OL BC will act as a resource as you complete each activity. Discuss any questions you may have about how a task must be done or how the guidance is applied. The OL BC may also designate a qualified chief examiner to work with you as you complete the various activities.
- You are responsible for keeping track of what tasks you have completed. Be sure that you have completed all aspects of an OJT activity before you meet with the regional OL BC for evaluation.

OL Examiner On-the-Job Activity

- TOPIC:** (OJT-OLE-1) Observe Initial Licensing Examinations (2)
- PURPOSE:** The purpose of this activity is to familiarize you with the on-site activities performed by operator license examiners. This on-the-job training will prepare you to conduct initial operator licensing examinations in accordance with NUREG-1021.
- COMPETENCY AREA:** INSPECTION
- LEVEL OF EFFORT:** 160 hours
- REFERENCES:**
1. NUREG-1021
 2. Proposed examinations and operating tests
 3. Individual operating test reports
 4. The examination report
- EVALUATION CRITERIA:** Complete the activities outlined in this guide and meet with the regional OL BC to discuss any questions you may have. Upon completion of the tasks in this guide, you should be able to:
1. Describe the procedure for reviewing / validating draft operator licensing examinations with the facility licensee.
 2. Describe the miscellaneous on-site activities associated with the administration of operator licensing examinations, including the entrance and exit meetings, applicant briefings, and proctoring the written examination.
 3. Describe the policies and procedures for conducting, documenting, and evaluating all aspects of the operating test.
- TASKS:**
1. In preparation for the on-site activities, review ES-302, ES-303, ES-402, Appendix E, Section D of Appendix C, and the proposed examinations and operating tests, including the NRC's review comments.
 2. Participate in at least two written examination and operating test reviews / validations with the facility licensee. At least one of these must include a preparatory site visit to the facility. Discuss any observations and questions you may have with the chief examiner or OL BC.
 3. Participate in at least two examination site visits, with different chief examiners; observation trips to exams in other regions are encouraged. Observe all significant on-site activities

including the entrance briefing (if one is requested), the applicant briefings, all examination team discussions, and the exit meeting. Discuss any observations and questions you may have with the chief examiner or OL BC.

4. While on-site, observe as many complete operating test administrations as possible, including at least one RO, one instant SRO, and one upgrade SRO, administered by as many different examiners as possible. During each test, try to anticipate the need for follow-up questions based on the applicant's performance of the task. Discuss any observations and questions you may have with the examiner of record after the test is complete.
5. For the worst-performing applicant you observed during each exam assignment, independently evaluate and document the applicant's performance in accordance with ES-303. Discuss your writeup with the chief examiner. Also, review the operating test documentation for each applicant whose test you observed, and discuss the results with the examiner of record.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner On-the-Job Activity

TOPIC:

(OJT-OLE-2) Conduct of Operations

Refer to Appendix C1, OJT-OPS-2

DOCUMENTATION:

OL Examiner Signature and Certification Card

OL Examiner On-the-Job Activity

- TOPIC:** (OJT-OLE-3) Prepare, Administer, and Grade an Operating Test
- PURPOSE:** The purpose of this activity is to familiarize you with the procedures for preparing, administering, and grading a complete operating test in accordance with NUREG-1021.
- COMPETENCY AREA:** INSPECTION
ASSESSMENT AND ENFORCEMENT
- LEVEL OF EFFORT:** 200 hours
- REFERENCES:**
1. ES-201, ES-301, ES-302, and ES-303 of NUREG-1021
 2. NUREG-1122 or 1123
 3. Facility reference materials
- EVALUATION CRITERIA:** Complete the activities outlined in this guide and meet with the regional OL BC to discuss any questions you may have. Upon completion of the tasks in this guide, you will have:
1. Demonstrated your understanding of the operating test development procedures by preparing a complete operating test that meets the requirements of NUREG-1021 and obtaining approval from the regional OL BC to administer the test.
 2. Demonstrated your understanding of operating test administration procedures and techniques by satisfactorily administering a complete RO or instant SRO operating test.
 3. Demonstrated your understanding of the operating test grading and documentation procedures by satisfactorily grading and documenting your applicant's performance during the audited operating test and obtaining your auditor's and the regional OL BC's concurrence with your licensing recommendation.
- TASKS:**
1. Using ES-201, ES-301, Appendices C and D, and the reference material provided by the facility licensee, prepare a complete RO or instant SRO operating test outline, including the administrative topics, control room and facility walk-through, and dynamic simulator operating test categories. Submit the outline and all the forms and checklists required by the ES to the designated chief examiner for review and approval, then incorporate whatever changes are necessary prior to seeking supervisory approval to proceed with test development.

2. Upon approval by the regional OL BC, use ES-301, Appendices C and D, and the reference material provided by the facility licensee to prepare all the test items (job performance measures, prescribed questions, and dynamic simulator scenarios) and quality checklists required to implement the approved test outline. Submit all the test items and checklists required by the ES to the designated chief examiner for review and approval, then incorporate whatever changes are necessary prior to seeking supervisory approval to review the proposed test with the facility licensee.
3. In accordance with ES-201, upon approval by the regional OL BC, and with the assistance of the designated chief examiner, review and validate the proposed operating test materials with the facility licensee.
4. Review the facility licensee's comments, incorporate changes in the test materials, as appropriate, and submit the final operating test and associated checklists to the designated chief examiner and regional OL BC for review and approval.
5. In coordination with the designated chief examiner, administer a complete RO or instant SRO operating test in accordance with ES-302. Note that the entire operating test must be audited by a certified chief examiner (preferably the regional OL BC if he or she is certified on the technology in question), who will step in if necessary to ensure that a valid licensing decision can be made. The auditor will provide verbal and written feedback regarding your test administration but should NOT discuss information that might bias your independent assessment of the applicant's performance.
6. As soon as possible after administering the operating test, evaluate and document your applicant's performance and make an independent licensing recommendation in accordance with ES-303. Submit Form ES-303-1 and any supporting documentation to your auditor for review and approval.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner On-the-Job Activity

TOPIC: (OJT-OLE-4) Prepare, Administer, and Grade a Written Examination

PURPOSE: The purpose of this activity is to familiarize you with the procedures for preparing, administering, and grading an initial operator licensing written examination in accordance with NUREG-1021.

**COMPETENCY
AREA:**

INSPECTION
ASSESSMENT AND ENFORCEMENT

**LEVEL OF
EFFORT:**

500 hours

REFERENCES:

1. ES-201, ES-401, ES-402, and ES-403 of NUREG-1021
2. NUREG-1122 or 1123
3. Facility reference materials

**EVALUATION
CRITERIA:**

Complete the activities outlined in this guide and meet with the regional OL BC to discuss any questions you may have. Upon completion of the tasks in this guide, you will have:

1. Demonstrated your understanding of the written examination development procedures by preparing a written examination that meets the requirements of NUREG-1021 and obtaining approval from the regional OL BC to administer the examination. (Note that partial or shared examinations will be approved by the OL program office on a case-by-case basis.)
2. Demonstrated your understanding of written examination administration procedures.
3. Demonstrated your understanding of the written examination grading procedures by satisfactorily grading and documenting the applicants' performance on the written examination you prepared and obtaining the regional OL BC's concurrence with your licensing recommendations.

TASKS:

1. Using ES-201, ES-401, Appendix B, and the reference material provided by the facility licensee, prepare an RO or SRO written examination outline. Submit the outline and all the forms and checklists required by the ES to the designated chief examiner for review and approval, then incorporate whatever changes are necessary prior to seeking supervisory approval to proceed with examination development.
2. Upon approval by the regional OL BC, use ES-401, Appendix B, and the reference material provided by the facility licensee

to select or prepare questions to implement the approved exam outline. Submit the proposed examination and checklists required by the ES to the designated chief examiner for review and approval, then incorporate whatever changes are necessary prior to seeking supervisory approval to review the proposed exam with the facility licensee.

3. In accordance with ES-201, upon approval by the regional OL BC, and with the assistance of the designated chief examiner, review the proposed examination with the facility licensee.
4. Review the facility licensee's comments, incorporate question changes, as appropriate, and submit the final examination and associated checklists to the designated chief examiner and regional OL BC for review and approval.
5. In coordination with the designated chief examiner, administer the written examination in accordance with ES-402. If the facility licensee will be conducting the exam, review the proctoring instructions with the facility contact as specified in Section C.3.k of ES-201, and, per Section C.2 of ES-402, inspect the exam facilities and act as point of contact in the regional office while the exams are in progress.
6. Grade the examinations in accordance with ES-403. Develop and document proposed resolutions for any post-examination comments received from the facility licensee, complete the grading quality checklist, and forward the examination package to the chief examiner for review and approval.

DOCUMENTATION: OL Examiner Signature and Certification Card

OL Examiner On-the-Job Activity

TOPIC:

(OJT-OLE-5) Requalification Inspection

Refer to Appendix A, OJT-OPS-4

DOCUMENTATION:

OL Examiner Signature and Certification Card

Additional Chief Examiner OJT Activities

These additional OJT activities require chief examiner candidates to oversee examination-related work at reactor facilities and in the regional office. These activities are designed to allow chief examiner candidates to observe and perform key tasks under controlled circumstances.

The following general guidance applies as you complete the chief examiner OJT activities:

- The activities should generally be completed in the order in which they are presented, unless otherwise directed by the regional OL BC.
- All parts of each activity must be completed. However, the Director, Division of Reactor Safety (DRS), can approve alternate methods for meeting the training and experience requirements in this Appendix. Justifications for accepting alternate methods must be documented and filed in the individual's training record and are subject to review by the OL program office. Only the OL program office can authorize waivers or exceptions (e.g., not preparing a complete written examination) from the requirements in this Appendix; waiver or exception requests can be submitted to the program office via email or memorandum.
- The regional OL BC will act as a resource as you complete each activity. Discuss any questions you may have about how a task must be done or how the guidance is applied. The OL BC may also designate a qualified chief examiner to work with you as you complete the various activities.
- You are responsible for keeping track of what tasks you have completed. Be sure that you have completed all aspects of an OJT activity before you meet with the regional OL BC for evaluation.

OL Chief Examiner On-the-Job Activity

TOPICS: (OJT-OLE-6) Participate on at Least Two Licensing Examination Teams (as a fully-qualified OL examiner)

PURPOSE: This OJT Activity is intended to increase the chief examiner candidate's proficiency in implementing the operator licensing examination procedures.

COMPETENCY AREA: INSPECTION
ASSESSMENT AND ENFORCEMENT

LEVEL OF EFFORT: 300 hours

REFERENCES: 1. NUREG-1021

EVALUATION CRITERIA: Candidates should be engaged in and satisfactorily perform all aspects of the assigned examinations as determined by the regional OL BC. No detailed evaluation criteria have been developed.

TASKS: Candidates should be engaged in and satisfactorily perform all aspects of the assigned examinations as determined by the regional OL BC. No detailed activities have been developed.

DOCUMENTATION: OL Chief Examiner Signature and Certification Card

OL Chief Examiner On-the-Job Activity

TOPIC: (OJT-OLE-7) Lead an Initial Examination Team (under instruction)

PURPOSE: The purpose of this activity is to familiarize you with the procedures for coordinating and leading an initial operator licensing examination assignment in accordance with NUREG-1021.

COMPETENCY AREA: INSPECTION
ASSESSMENT AND ENFORCEMENT

LEVEL OF EFFORT: 200 hours

REFERENCES: NUREG-1021

EVALUATION CRITERIA: Complete the activities outlined in this guide and meet with the regional OL BC to discuss any questions you may have. Upon completion of the tasks in this guide, you should be able to:

1. Coordinate all the administrative activities involved in preparing for an initial examination assignment.
2. Coordinate all on-site activities with the examination team members, the resident inspectors, and the facility contact.
3. Coordinate all the administrative activities associated with documenting and issuing the examination results.

TASKS:

1. In accordance with Sections C.2 and C.3 of ES-201 and under the direction of a certified chief examiner, coordinate all administrative activities associated with preparing for an initial examination assignment. These activities should include completing the 120-day phone call, preparing the official examination confirmation letter to the facility licensee, coordinating review and approval of the examinations and tests, reviewing the license applications, resolving any waiver requests, preparing the assignment sheet, preparing the operating test administration schedule, and coordinating the travel arrangements.
2. In accordance with ES-302 and 402 and under the direction of a certified chief examiner, oversee all on-site activities associated with the administration of the written examinations and operating tests. This should include coordinating all interactions between the examination team members, the resident inspectors, and the facility contact, such as making arrangements for reviewing and validating the examination,

scheduling the entrance and exit meetings, ensuring that examination security is maintained, implementing the operating test schedule, ensuring that the written examination is properly administered, and keeping the regional OL BC informed of any problems.

3. In accordance with ES-303, 403, and 501, and under the direction of a certified chief examiner, coordinate all the administrative activities associated with documenting and issuing the examination results. This should include resolving the facility comments, grading and reviewing the written exams and operating tests, preparing the license, denial, and notification letters, preparing the examination report, and ensuring that the required examination files are generated.

DOCUMENTATION: OL Chief Examiner Signature and Certification Card

OL Examiner Signature and Certification Card

Full-time OL examiners must complete all of the Training Courses, Individual Study Activities, and On-the-Job Training (OJT) Activities listed below within 24 months after assignment to the Regional (or Program Office) OL Branch. Part-time (i.e., reserve) OL examiners who will be used only to assist with the administration of operating tests may be certified on a limited basis after completing those courses and activities identified with an (L). Full-time examiners may also be certified on a **temporary** limited basis pending completion of the remaining courses and activities.

Although a qualification board is **not** required, every OL examiner must satisfactorily administer a complete operating test pursuant to OL Examiner OJT Activity (3) prior to limited certification. This certification test must be audited by a certified chief examiner (preferably the regional OL BC) who will assess and document the examiner candidate's performance on all the individual attributes identified in Section 02.02 of IMC 0102, "Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities." The auditor will provide a written recommendation whether or not to certify the examiner candidate, including the need for any remedial training, to the Chief of the Regional OL Branch with a copy to the individual's BC, as appropriate.

The Chief of the Regional (or Program Office) OL Branch and the Director of the Regional Division of Reactor Safety (or NRR Division of Inspection Program Management) will document their concurrence in the auditor's recommendation by signing the individual's OL Examiner Certification Card. Consistent with Section 04 of IMC 1245, the Regional Administrator (or Director NRR) shall certify that OL examiners are qualified to independently administer operating tests (i.e., limited certification). Completion of the remaining items for full examiner qualification shall be certified by the Division Director.

OL examiner candidates who completed Entry-Level OJT Activity (4), "Inspection Activities," by participating in a licensed operator requalification program inspection (Inspection Procedure 71111, Attachment 11), may, pursuant to Section 03.02 of IMC 1245, be assigned limited scope requalification program inspection activities, under the supervision of a fully qualified examiner/inspector, before they complete their examiner training and qualification.

An examiner's certification will automatically extend to multiple reactor technologies upon satisfactorily completing the full course series or the cross-training course for the applicable reactor technology.

OL Examiner Signature and Certification Card

Employee's Name: _____	Employee Initials/ Completion Date	OL Branch Chief's Signature/Date
A. Training Courses		
(1) Power Plant Engineering Directed Self-Study (E-110S) (As determined necessary by the regional OL BC.)		
(2) (L) Reactor Technology Full Series (Basic, Advanced, and Simulator) for: • Westinghouse • General Electric • Combustion Engineering • Babcock and Wilcox	_____ _____ _____	_____ _____ _____
(3) Examination Techniques Course (G-107) • Written • (L) Operating	_____ _____	_____ _____
B. Individual Study Activity		
(1) (L) Navigating the NRC's Operator Licensing Web Pages		
(2) (L) History and Organization of the Operator Licensing Program		
(3) License Eligibility Requirements and Guidelines		
(4) (L) Initial Operator Licensing Process		
(5) (L) Overview of Generic Examination Concepts		
(6) Generic Fundamentals Examination (GFE) Program		
(7) Operator Licensing Written Examinations		
(8) (L) Operator Licensing Operating Tests		
(9) (L) Technical Specifications		
(10) (L) Operability		
(11) (L) Shutdown Operations		
(12) (L) Operator Licensing Appeals and Hearings		
(13) Systematic Approach to Training (SAT)		
(14) Licensed Operator Requalification and Other License Conditions		
(15) (L) Power Plant Simulators		
C. On-the-Job Training Activity		
(1) (L) a. Observe Initial Licensing Examination		
(L) b. Observe Initial Licensing Examination		
(2) (L) Conduct of Operations		

(3)	(L) Prepare, Administer, and Grade an Operating Test		
(4)	Prepare, Administer , and Grade a Written Examination		
(5)	Requalification Inspection		

OL Examiner Certification

Has successfully completed all of the requirements
to become an

Operator Licensing Examiner

Limited

Full

OL Branch Chief Signature: _____

Date: _____

Director, DRS, Signature: _____

Date: _____

RA Signature: _____

Date: _____

OL Chief Examiner Signature and Certification Card

The chief examiner certification is based on a written recommendation by the Chief of the Regional OL Branch; a qualification board is **not** required. The Regional OL BC (or the designated chief examiner during OJT Activities (8) and (9)) will assess and document the chief examiner candidate's performance on all the individual attributes identified in Section 02.02 of IMC 0102, "Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities." The regional OL BC will provide a written recommendation whether or not to certify the chief examiner candidate, including the need for any remedial training, to the Director of the Regional Division of Reactor Safety for concurrence. Consistent with Section 04.03 of IMC 1245, the Regional Administrator shall certify that chief examiners are fully qualified in accordance with this Appendix.

OL Chief Examiner Signature and Certification Card

Employee's Name: _____	Employee Initials/ Completion Date	OL Branch Chief's Signature/Date
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A. Additional, Chief Examiner Training Courses		
(6) Team Leader Training (per Appendix D4) (Must be completed within 1 year after certification.)		
C. Additional, Chief Examiner OJT Activities		
(6) a. Participate on an Examination Team		
b. Participate on an Examination Team		
(7) Lead an Initial Examination Team (under instruction)		

OL Chief Examiner Certification

Has successfully completed all of the requirements
to become an

Operator Licensing Chief Examiner

OL Branch Chief Signature: _____	Date: _____
Director, DRS, Signature: _____	Date: _____
RA Signature: _____	Date: _____

Refresher and Continuing Training; Maintaining Proficiency

All qualified OL examiners are required to complete refresher training as follows:

1. To maintain their technical proficiency, OL examiners must complete the periodic refresher training specified in Appendix C1, "Reactor Operations Inspector Technical Proficiency Training and Qualification Journal." The due date will be determined based on the individual's Full Inspector Qualification or OL Examiner qualification date, whichever came first. Examiners who are certified on more than one reactor technology should alternate their attendance among the vendors for which they are certified during successive refresher training periods. However, the regional OL BC should consider and assign additional technical refresher training based on the examiner's job performance.
2. To maintain their examination skills, OL examiners shall complete some form of examination techniques refresher training every three years. The options include: (1) attending the nominal 2-day refresher training class presented by the NRR OL Program Office in conjunction with the national operator licensing examiners' training conference (which are generally scheduled every 18 months); (2) attending an examination techniques refresher course scheduled by special arrangement with the NRR OL Program Office; or (3) making arrangements with the NRR OL Program Office to attend either the written examination or the operating test techniques portion of the Initial Examination Techniques (G-107) Course.
3. To keep up-to-date on changes in the OL program, examiners should attend every national operator licensing examiners' training conference and other special continuing training program presented by the NRR OL Program Office.

The Regional OL BCs shall oversee their examiners' field activities in accordance with Inspection Manual Chapter 0102, "Oversight and Objectivity of Inspectors and Examiners at Reactor Facilities."

Every OL examiner should administer at least one complete operating test every 12 (and not to exceed 15) months in order to maintain proficiency. Any examiner who fails to maintain proficiency must be audited (as described above) by a certified chief examiner (preferably the regional OL BC) during the satisfactory administration of a complete operating test on any reactor technology in which the examiner has maintained technical proficiency (by attending the required refresher training discussed above). Any examiner who has been inactive for more than two years shall also complete some form of examination techniques refresher training, as discussed above, in order to reactivate their examiner certification.

Examiners assigned to the OL program office and certified regional OL BCs are generally exempt from the proficiency and observation requirements by virtue of their day-to-day involvement in program development and oversight, including the administration of operating test audits and/or teaching the operating test portion of the Examination Techniques (G-107) Course. The Chief of the NRR Operator Licensing Section will determine the need for proficiency testing and observations on a case-by-case basis.