#### **APPENDIX E1**

### TRAINING REQUIREMENTS AND QUALIFICATION JOURNAL FOR MATERIALS LICENSE REVIEWER

Note: The Materials License Reviewer is a qualification in the Office of Federal and State Materials Environmental Management Programs. The contents of this Appendix were merged from IMC 1246 Appendix A Section I and Appendix B Section I published on January 5, 2001. No changes were made to the training requirements or qualification journal since they were published on January 5, 2001.

#### **APPENDIX E1**

### TRAINING REQUIREMENTS FOR MATERIALS LICENSE REVIEWER

#### A.APPLICABILITY

The training described below is required for all materials license reviewers assigned to perform radiological safety reviews of nuclear material license applications, except exempt distribution licenses, fuel cycle licenses, and licenses issued by the NMSS Division of Waste Management.

#### **B.TRAINING**

- 1. Required Initial Training
  - a. Self Study and on-the job Training
    - (1) NRC Orientation
    - (2) Code of Federal Regulations
    - (3) Office Instructions/Regional Procedures
    - (4) Regulatory Guidance
    - (5) NRC Inspection Manual
    - (6) Industry Codes and Standards
    - (7) Required Licensing Site Visits to Core Licensees
    - (8) NRC Management Directives
    - (9) Review of significant events at materials licensees
    - (10) Directed Review of Selected Licensing Case Work
  - b. <u>Core Training</u>. These courses establish minimum formal classroom training requirements. Refer to Section 1246-08 for exceptions to these requirements.
    - (1) Health Physics Technology Course (H-201)
    - (2) Diagnostic and Therapeutic Nuclear Medicine Course (H-304)
    - (3) Safety Aspects of Industrial Radiography Course (H-305)
    - (4) Teletherapy and Brachytherapy Course (H-313)
    - (5) Licensing Practices and Procedures Course (G-109)
    - (6) Transportation of Radioactive Materials Course (H-308)

- (7) NMSS Radiation Worker Training (H-102)
- c. <u>Specialized Training</u>. Depending on the materials license reviewer's previous work experience and planned reviewer activities, additional courses may be required in order to gain knowledge necessary for specialized licensing activities. Management will make this determination on an individual basis. For example, if a license reviewer is assigned activities in one of the areas listed below then that reviewer should attend the appropriate training course or have equivalent experience as determined by their management.
  - (1) Fundamentals of Inspection Course (G-101) or Inspection Procedures Course (G-108)
  - (2) Internal Dosimetry & Whole Body Counting Course (H-312)
  - (3) Safety Aspects of Well Logging Course (H-314)
  - (4) Irradiator Technology Course (H-315)
  - (5) Environmental Monitoring for Radioactivity Course (H-111)
  - (6) Air Sampling for Radioactive Material Course (H-119)
  - (7) Site Access Training (H-100)
- 2. <u>Supplemental Training</u>. Additional training beyond that identified as Core Training. This training will be determined by the individual's supervisor and will depend on the individual's previous work experience and planned inspection or licensing activities in specific areas.
- 3. <u>Refresher Training</u>. Refresher training will be conducted every three years following initial certification. Refresher training will include the following course and other courses as determined by management:
  - a. Health Physics Topical Review Course (H-401)

**END** 

### MATERIALS LICENSE REVIEWER NRC LICENSE REVIEWER QUALIFICATION JOURNAL

#### Applicability

This NRC License Reviewer Qualification Journal implements NRC Manual Chapter 1246, by establishing the minimum training requirements for personnel assigned to perform license reviews for materials facilities.

The NRC License Reviewer Qualification Journal serves as a guideline for the development of a Qualification Journal, and establishes the minimum training requirements consistent with NRC Manual Chapter 1246. The Qualification Journal must provide traceable documentation to show that minimum requirements are met for each license reviewer.

The NRC License Reviewer Qualification Journal consists of a series of qualification guides and signature cards. Each signature card is used to document task completion, as indicated by the appropriate signature blocks. The corresponding qualification guide establishes the minimum knowledge levels or areas of study that must be completed for each signature card.

Most of the qualification guides are divided into sections. The review sections of the qualification guides identify references with general application to the license reviewer's qualification. The license reviewer is expected to have a general familiarity with these references. Other sections of the qualification guides identify specific references that have direct application to the license review discipline. The license reviewer is expected to demonstrate detailed knowledge of the license review specific references.

In order to support the review of upper tier documents, programs, and policies, the license reviewer's immediate supervisor will assign one or more specific materials licensees as reference licensees. The selection of reference licensees is intended to provide the license reviewer's management with the ability to tailor the qualification process to the experience and training level of the license reviewer, and to meet the needs of the NRC. The use of specific real world material will reinforce the qualification process.

(Name)	(Title)	(Branch)	(Section)
following signature reviewer and the d	e cards. All sig late. Maintain th quired by the pro	a Materials License Reviewer you gnoffs shall include the signature nese cards in a notebook along with gram. This notebook will compris	of the responsible n any background or
		Signature When Complete	<u>Date</u>
1. NRC Orientation	า	First Line Supervisor	
2. Code of Federa	l Regulations	First Line Supervisor	
3. Office Instruction Procedures	ns/Regional	First Line Supervisor	
4. Regulatory Guid	lance	First Line Supervisor	
5. NRC Inspection Chapter (MC)		First Line Supervisor	
6. Industry Codes Standards	and	First Line Supervisor	
7. Required Licens Visits to Core		First Line Supervisor	
8. NRC Managemo	ent Directives	First Line Supervisor	
9. Review of Signif at Materials L		First Line Supervisor	
10. Directed Revi Licensing Cas		First Line Supervisor	
11. Formal Trainin	ng	First Line Supervisor	

LICENSE REVIEWER QUALIFICATION JOURNAL - Materials License Reviewer

Requirement Met	Second Level Supervisor or Board Chairman
Recommended as a qualified license reviewer	Second Level Supervisor
Certification Memo Issued	Second Level Supervisor

#### Qualification Card 1 NRC Orientation

A.Site Orientation	<u>Initials</u>	<u>Date</u>
New employee processing package completed	Employee	
2. Facility tour and introduction	First Line Supervisor	
B.NRC Organization		
Review of NRC headquarters and regional organization	Employee	
2. Discussion of NRC organization		
	First Line Supervisor	

#### Qualification Card 2 Code of Federal Regulations (CFR)

	<u>Initials</u>	<u>Date</u>
A.Familiarization with selected CFR parts completed	Employee	
B.Discussion completed on CFR parts related to the materials license review program	First Line Supervisor	

# Qualification Card 3 Office Instructions/Regional Procedures

	<u>Initials</u>	<u>Date</u>
A.Familiarization with office/ regional policies and procedures	Employee	
B.Discussion completed on office/ regional policies and procedures	First Line Supervisor	. —

#### Qualification Card 4 Regulatory Guidance

A. Review of regulatory guidance  1. Regulatory Guides  2. Information Notices /Bulletins  Employee  3. NUREGS  Employee  4. Generic Letters  Employee  5. Federal Register Notices  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  8. Standard Deficiency Paragraphs  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program		<u>Initials</u>	<u>Date</u>
Employee  2. Information Notices /Bulletins  Employee  3. NUREGS  Employee  4. Generic Letters  Employee  5. Federal Register Notices  Employee  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	A.Review of regulatory guidance		
/Bulletins  Employee  3. NUREGS  Employee  4. Generic Letters  Employee  5. Federal Register Notices  Employee  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program  B. Discussion to the materials license review program	1. Regulatory Guides	Employee	
3. NUREGS  4. Generic Letters  Employee  5. Federal Register Notices  Employee  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program		Employee	
Employee  5. Federal Register Notices  Employee  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	3. NUREGs	, ,	
Employee  6. NRC Branch Technical Positions  Employee  7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	4. Generic Letters	Employee	
7. Policy and Guidance Directives  Employee  8. Standard Deficiency Paragraphs  Employee  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	5. Federal Register Notices	Employee	
8. Standard Deficiency Paragraphs  9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	6. NRC Branch Technical Positions	Employee	
9. Standard License Conditions  Employee  10. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program	7. Policy and Guidance Directives	Employee	
To. Licensing Checklists  Employee  11. Standard Review Plans  Employee  12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B.Discussion of regulatory guidance with application to the materials license review program  Employee	, ,	Employee	-
The standard Review Plans  In Standard Review Plans  In Standard Review Plans  In Employee  In Standard Review Plans  In Employee  In E		Employee	
12. Sealed Source and Device Registry  Employee  13. Technical Assistance Requests  Employee  B. Discussion of regulatory guidance with application to the materials license review program  Employee	ŭ	Employee	
Device Registry  Employee  13. Technical Assistance Requests  Employee  B.Discussion of regulatory guidance with application to the materials license review program		Employee	
Employee  B.Discussion of regulatory guidance with application to the materials license review program		Employee	
with application to the materials license review program	13. Technical Assistance Requests	Employee	
First Lina Suparvisor	with application to the materials	First Line Supervisor	

#### Qualification Card 5 NRC Inspection Manual Chapters (MC)

	<u>Initials</u>	<u>Date</u>
A.Review of appropriate portions of NRC MCs completed		
·	Employee	
B.Discussion of NRC MCs and its relation to the materials license review program	First Line Supervisor	

#### Qualification Card 6 Industry Codes and Standards

	<u>Initials</u>	<u>Date</u>
A.Review of selected codes and standards completed	Employee	
B. Discussion of the application of codes and standards in the materials license review program	First Line Supervisor	

# Qualification Card 7 Required (As Appropriate) Licensing Site Visits to Core Licensees

		<u>Initials</u>	<u>Date</u>
A.Sit	te visits completed		
1.	Facility	Employee	
2.	Facility	Employee	
3.	Facility	Employee	
4.	Facility	Employee	
;	eview and discussion by f supervisor of licensing si and their relation to the n license review program	first line te visits naterials	
1.	Facility	First Line Supervisor	
2.			
	Facility	First Line Supervisor	
3.	Facility	First Line Supervisor	
4.	Facility	First Line Supervisor	

#### Qualification Card 8 NRC Management Directives

	<u>Initials</u>	<u>Date</u>
A.Review of selected portions of the NRC Management Directives completed		
	Employee	
B.Discussion of the application of the NRC Management Directives to the materials license review program		
	First Line Supervisor	

# Qualification Card 9 Review of Significant Events at Materials Licensees

	<u>Initials</u>	<u>Date</u>
A.Review of selected significant historical materials events	Employee	
B.Discussion of the importance of these events and lessons learned	First Line Supervisor	

## Qualification Card 10 Directed Review of Selected Licensing Case Work

	<u>Initials</u>	<u>Date</u>
A.Review of selected licensing casework		
1(Case Study)	Employee	
2(Case Study)	Employee	
3(Case Study)	Employee	
4(Case Study)	Employee	
B.Discussion by first line supervisor of directed review of the selected casework and its relation to the materials license review program.		
1 (Case Study)	First Line Supervisor	
2(Case Study)	First Line Supervisor	
3(Case Study)	First Line Supervisor	
4(Case Study)	First Line Supervisor	

#### Qualification Card 11 Formal Training

A.CORE TRAINING:		<u>Ini</u>	<u>tials</u>	<u>Date</u>
1. Health Physics Technology Course (H-201)		Tra	aining Coordinator	
2. Diagnostic and Nuclear Med	l Therapeutic licine Course (		aining Coordinator	
3. Safety Aspects of Industrial Radiography Course (H-305)			aining Coordinator	
4. Teletherapy ar Course (H-3	nd Brachytherap 13)		aining Coordinator	
5. Licensing Prac Course (G-1			aining Coordinator	
6. Transportation Materials Co	of Radioactive burse (H-308)	Tra	aining Coordinator	
7. NMSS Radiation Worker Training Course (H-102)			aining Coordinator	
B.SPECIALIZED	TRAINING:			
Other specialized activities in speci		es required for li	cense reviewers performin	g licensing
Course Title	Course #	<u>Initials</u>	<u>Initials</u>	<u>Date</u>
		Supervisor	Training Coordinator	
		Supervisor	Training Coordinator	
		Supervisor	Training Coordinator	
		Supervisor	Training Coordinator	

#### Qualification Guide 1 NRC Orientation

#### A. Site Orientation

- 1. The qualifying individual should read and complete, as appropriate, the following forms for processing into the NRC:
  - a. Personnel information
  - b. Health insurance elections
  - c. Retirement plan elections
  - d. Savings elections (e.g. U.S. Savings Bonds, TSP, etc.)
  - e. Fitness for Duty requirements and physical examination
  - f. Any other forms which may be required by NRC Office of Human Resources
  - g. Forms for issuance of tagged, controlled NRC equipment
  - h. Payroll forms and time cards
  - i. Regulatory Information Tracking System (RITS)
- 2. The First Line Supervisor should orient the qualifying individual to the facility as follows:
  - a. Tour the facility and introduce the qualifying individual to the staff
  - b. Indicate to the qualifying individual the location of controlled documents, reference material, supplies, office equipment, classrooms, etc.

#### B.NRC Organization

- 1. The qualifying individual should review and become familiar with:
  - a. Organizational charts of division, NMSS, regions and headquarters and overall NRC organization (NUREG 0325)
  - b. Role of Headquarters in policy and interpretation of regulations
  - c. Role of NRC General Counsel
  - d. Role of NRC Inspector General
  - e. Role of NRC Public Affairs
  - f. Role of NRC Office of Investigations
  - g. Role of NRC Office of Enforcement
  - h. Physical location of NRC offices and regions

Issue Date: 10/26/11 E1-18 1246

- i. Role of NRC as a regulatory agency
  - (1) 10 CFR Part 1 (Organization)
  - (2) Atomic Energy Act of 1954, as amended
  - (3) Energy Reorganization Act of 1974, as amended
  - (4) NRC Enforcement Policy (NUREG 1600)
  - (5) Incident Response Plan (NUREGs 0728 and 0845)
  - (6) Energy Policy Act of 1992
- 2. The First Line Supervisor should discuss NRC organization and role with the qualifying individual to ensure the qualifying individual has a full understanding of NRC's organization and mission and the role of the license reviewer in that mission.

Issue Date: 10/26/11 E1-19 1246

#### Qualification Guide 2 Code of Federal Regulations (CFR)

A. A selection of currently applicable CFR Parts should be made by the First Line Supervisor. The selection should include the references listed below and be documented. The qualifying individual should be expected to have a general knowledge of the topics addressed in the references. This review may be accomplished by self-study, study-quizzes, briefings, or discussions.

1.	10 CFR Part 1	Statement of organization and general information
2.	10 CFR Part 2	Rules of practice for domestic licensing proceedings and issuance of orders
3.	10 CFR Part 9	Public Records
4.	10 CFR Part 19	Notices, instructions and reports to workers; inspections
5.	10 CFR Part 20	Standards for protection against radiation (includes selected Questions and Answers, Q & As)
6.	10 CFR Part 21	Reporting of defects and noncompliance
7.	10 CFR Part 30	Rules of general applicability to domestic licensing of byproduct material
8.	10 CFR Part 31	General domestic licenses for byproduct material
9.	10 CFR Part 32	Specific domestic licenses to manufacture or transfer certain items containing byproduct material
10.	10 CFR Part 33	Specific domestic licenses of broad scope for byproduct material
11.	10 CFR Part 34	Licenses for radiography and radiation safety requirements for radiographic operations
12.	10 CFR Part 35	Medical use of byproduct material
13.	10 CFR Part 36	Licenses and radiation safety requirements for irradiators
14.	10 CFR Part 39	Licenses and radiation safety requirements for well logging
15.	10 CFR Part 40	Domestic licensing of source material
16.	10 CFR Part 61	Licensing requirements for land disposal of radioactive waste
17.	10 CFR Part 70	Domestic licensing of special nuclear material
18.	10 CFR Part 71	Packaging and transportation of radioactive material
19.	10 CFR Part 150 agre	Exemptions and continued regulatory authority in ement states and in offshore waters under section 274

20.	10 CFR Part 170	Fees for facilities, materials, import and export licenses and other regulatory services under the Atomic Energy Act of 1954, as amended
21.	10 CFR Part 171	Annual fees for reactor operating licenses, and fuel cycle licenses and materials licenses, including holders of certificates of compliance, registrations, and quality assurance program approvals and government agencies licensed by NRC
22.	29 CFR Part 1910	Occupational Safety and Health Standards
23.	40 CFR Part 61	National Emission Standards for Hazardous Air
	Polit	(emphasis on Subpart I)
24.	40 CFR Part 141	National Primary Drinking Water Regulations
25.	49 CFR Parts 171 through 180	Transportation
26.	40 CFR Part 190	Environmental Radiation Protection for Nuclear Power Operations (Uranium Fuel Cycle Standards)
27.	10 CFR Part 110	Export and Import of Nuclear Material and Equipment

B. Following completion of the qualifying individual's self study of the listed 10 CFR Parts, a discussion will be held with the qualifying license reviewer by the First Line Supervisor to test the qualifying license reviewer's knowledge of these Parts. To the extent possible, recent application of various sections, new regulatory initiatives, and current industry issues should be emphasized.

### Qualification Guide 3 Office Instructions/Regional Procedures

#### A. Office/Region Policies and Procedures

- 1. Read the Region Policy and Procedures Manual
- 2. The qualifying individual should review the division/NRC policies and practices on:
  - a. Travel, including Management Directive 14.1 Official Temporary Duty Travel
  - b. Telephone use
  - c. Policies on use of annual leave and sick leave and excused leave, including Bulletin 4135, Leave Administration
- d. Work schedule, including NRC Appendix 4136, Hours of Work and Premium Pay
  - e. Use of government equipment, including computers (ADAMS & NUDOCS) and Management Directive 13.1, Property Management
  - f. Union activities, including Management Directive 10.102, Lqabor-Management Relations Program for Federal Employees
  - g. Communications outside NRC
  - h. Policies on outside employment and acceptance of gifts
  - i. Participation in political activities
  - j. Routing of mail and procedures for sending mail and materials (via U.S. Mail, Federal Express, etc.), including Management Directive 3.23, Mail Management
  - k. Ordering of documents (e.g NUREGs)
  - I. Division emergency and evacuation procedures
  - m. Employee appraisal system and Individual Development Plan (IDP)
    - (1) Employee trial period (Management Directive 10.14 Employment and Staffing)
    - (2) Employee appraisals (Management Directive 10.67, Non-SES Performance Appraisal System)
  - n. Differing Professional Views or Opinions (Management Directive 10.159, General Personnel Management Provisions)

Issue Date: 10/26/11 E1-22 1246

B.The First Line Supervisor should discuss these policies and practices with the qualifying individual to ensure that the qualifying individual has a full and complete understanding.

#### Qualification Guide 4 Regulatory Guidance

- A. A selection of currently applicable regulatory guidance should be identified by the First Line Supervisor. These references should include those listed below (documents marked by an asterisk must be selected as a minimum) and should be documented. The qualifying individual should be expected to have a general knowledge of the topics addressed in the references. The review may be accomplished by self-study, study-quizzes, briefings, or discussions. Note that many Regulatory Guides reference or endorse industry codes and standards listed in Qualification Guide 6. Study of corresponding and subtier codes and standards is recommended.
  - 1. Regulatory Guides (use latest revision)
    - 4.6 Measurements of Radionuclides in the Environment Strontium-89 and Strontium-90 Analyses
    - 4.13 Performance, Testing and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications
    - 4.15 Quality Assurance for Radiological Monitoring Programs
    - 4.20 Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees other than Power Reactors.
    - \*6.1 Leak Testing Radioactive Brachytherapy Sources
    - 6.2 Integrity and Test Specifications
    - 6.3 Design, Construction, and Use of Radioisotopic Power Generators for Certain Land and Sea Applications
    - 6.4 Classifications of Containment Properties of Sealed Radioactive Sources
    - \*6.5 General Safety Standard for Installations Using Nonmedical Sealed Gamma Ray Sources
    - 6.6 Acceptance Sampling Procedures for Exempted and Generally Licensed Items Containing Byproduct Material
    - 6.7 Preparation of an Environmental Report to Support a Rule Making Petition Seeking an Exemption for a Radionuclide-Containing Product
    - 6.8 Identification Plaque for Irretrievable Well-Logging Sources
    - 6.9 Establishing Quality Assurance Programs for the Manufacture and Distribution of Sealed Sources and Devices containing Byproduct Material
    - 7.1 Administrative Guide for Packaging and Transporting Radioactive Material
    - \*7.2 Packaging and Transportation of Radioactively Contaminated Biological Materials

Issue Date: 10/26/11 E1-24 1246

7.3	Procedures for Picking Up and Receiving Packages of Radioactive Material
7.4	Leakage Tests on Packages for Shipment of Radioactive Materials
7.5	Administrative Guide for Obtaining Exemptions from Certain NRC Requirements over Radioactive Material Shipments
*7.7	Administrative Guide for Verifying Compliance with Packaging Requirements for Shipments of Radioactive Materials
7.10	Establishing Quality Assurance Programs for Packaging Used in the Transport of Radioactive Material
*8.1	Radiation Symbol
*8.2	Guide for Administrative Practices in Radiation Monitoring
*8.4	Direct Reading and Indirect Reading Pocket Dosimeters
8.5	Criticality and Other Interior Evacuation Signals
*8.6	Standard Test Procedure for Geiger Muller Counters
*8.7	Instructions for Recording and Reporting Occupational Radiation Exposure Data
*8.9	Acceptable Concepts, Models, Equations and Assumptions for a Bioassay Program
*8.10	Operating Philosophy for Maintaining Occupational Radiation Exposures As Low As Is Reasonably Achievable
8.11	Applications of Bioassay Uranium
*8.13	Instruction Concerning Prenatal Radiation Exposure
*8.14	Personnel Neutron Dosimeters
*8.15	Acceptable Programs for Respiratory Protection
*8.18	Information Relevant to Ensuring that Occupational Radiation Exposures at Medical Institutions Will be As Low As Reasonably Achievable
*8.20	Applications of Bioassay for I-125 and I-131
*8.21	Health Physics Surveys for Byproduct Material at NRC Licensed Processing and Manufacturing Plants
8.22	Bioassay at Uranium Mills
*8.23	Radiation Safety Surveys at Medical Institutions
8.24	Health Physics Surveys During Enriched Uranium 235 Processing and Fuel Fabrication

*8.25	Air Sampling in the Workplace	
8.26	Applications of Bioassay for Fission and Activation Products	
*8.28	Audible Alarm Dosimeters	
*8.29	Instruction Concerning Risks form Occupational Radiation Exposure	
8.30 8.31	Health Physics Surveys in Uranium Mills Information Relevant to Ensuring that Occupational Radiation Exposures at Uranium Mills Will Be As Low As Reasonably Achievable	
*8.32	Criteria for Establishing a Tritium Bioassay Program	
*8.33	Quality Management Program	
*8.34	Monitoring Criteria and Methods to Calculate Occupational Radiation Doses	
*8.35	Planned Special Exposures	
*8.36	Radiation Doses to the Embryo/Fetus	
*8.37	ALARA Levels For Effluents From Materials Facilities	
*8.39	Release of Patients Administered Radioactive Materials	
*10.4	Guide for the Preparation of Applications for Licenses to Process Source Material	
10.12	Preparation of Petitions for Rulemaking Under 10 CFR 2.802 and Preparation and Submission of Proposals for Regulatory Guidance Documents	
2. Information Notices (IN) and Bulletins (BL)		
IN 91-002	Brachytherapy Source Management	
IN 91-003	Management of Wastes Contaminated With Radioactive Materials ("Red Bag" Waste and Ordinary Trash)	
IN 91-014	Recent Safety-Related Incidents at Large Irradiators	
IN 91-023	Accidental Radiation Overexposures to Personnel Due to Industrial Radiography Accessory Equipment Malfunctions	
IN 91-030	Inadequate Calibration of TLDs Utilized to Monitor Extremity Dose at Uranium Processing and Fabrication Facilities	
IN 91-035	Labeling Requirements for Transporting Multi-Hazard Radioactive Materials	
IN 91-049	Enforcement of Safety Requirements for Radiographers	

IN 91-060	False Alarms of Alarm Ratemeters Because of Radiofrequency Interference
IN 91-071	Training and Supervision of Individuals Supervised by an Authorized User
IN 92-010	Brachytherapy Incidents Involving Iridium-192 Wire Used in Endobronchial Treatments
IN 92-034	New Exposures Limits for Airborne Uranium and Thorium
IN 92-062	Emergency Response Information Requirements for Radioactive Material Shipments
IN 92-072	Employee Training and Shipper Registration Requirements for Transporting Radioactive Materials
IN 92-084	Release of Patients Treated With Temporary Implants
IN 93-004	Investigation and Reporting of Misadministrations by the Radiation Safety Officer
IN 93-005	Locking of Radiography Exposure Devices
IN 93-006	Potential Bypass Leakage Paths Around Filters Installed in Ventilation Systems
IN 93-007	Classification of Transportation Emergencies
IN 93-010	Dose Calibrator Quality Control
IN 93-014 Mate	Clarification of 10 CFR 40.22, Small Quantities of Source erial
IN 93-018 Field	Portable Moisture-Density Gauge User Responsibilities During Operations
IN 93-030	NRC Requirements for Evaluation of Wipe Test Results; Calibration of Count Rate Survey Instruments
IN 93-031	Training of Nurses Responsible for the Care of Patients With Brachytherapy Implants
IN 93-036	Notifications, Reports, and Records of Misadministrations
IN 93-060	Reporting Fuel Cycle and Materials Events to the NRC Operations Center
IN 93-069	Radiographic Events At Operating Power Reactors
IN 93-100	Reporting Requirements for Bankruptcy
IN 94-007	Solubility Criteria For Liquid Effluent Releases to Sanitary Sewerage Under the Revised 10 CFR Part 20
IN 94-009	Release of Patients With Residual Radioactivity From Medical Treatment and Control Areas Revised 10 CFR Part 20

IN 94-015 Gau	Radiation Exposures During an Event Involving a Fixed Nuclear ge
IN 94-016	Recent Incidents Resulting in Offsite Contamination
IN 94-017	Strontium-90 Eye Applicators: Submission of Quality Management Plan (QMP), Calibration, and Use
IN 94-037	Misadministration Caused By a Bent Interstitial Needle During Brachytherapy Procedure
IN 94-039	Identified Problems in Gamma Stereotactic Radiosurgery
IN 94-047	Accuracy of Information Provided to NRC During the Licensing Process
IN 94-065	Potential Error in Manual Brachytherapy Dose Calculations Generated Using a Computerized Treatment Planning System
IN 94-070	Issues Associated with the Use of Strontium-89 and Other Beta Emitting Radiopharmaceuticals
IN 94-074	Facility Management Responsibilities for Purchased or Contracted Services for Radiation Therapy Programs
IN 94-081	Accuracy of Bioassay and Environmental Sampling Results
IN 95-007	Radiopharmaceutical Vial Breakage During Preparation
IN 95-025	Valve Failure During Patient Treatment with Gamma Stereotactic Radiosurgery Unit
IN 95-039	Brachytherapy Incidents Involving Treatment Planning Errors
IN 95-050	Safety Defect in Gammamed 12I Bronchial Catheter Clamping Adapters
IN 95-051	Recent Incidents Involving Potential Loss of Control of Licensed Material
IN 96-004	Incident Reporting Requirements for Radiography Licensees
IN 96-035	Failure of Safety Systems on Self-Shielded Irradiators Because of Inadequate Maintenance and Training
IN 96-047	Recordkeeping, Decommissioning Notifications for Disposals of Radioactive Waste by Land Burial Authorized under Former 10 CFR 20.304, 20.302, and Current 20.2002
IN 96-057	Incident-reporting Requirements Involving Intakes During a 24-hour Period That May Cause a Total Effective Dose Equivalent in Excess of 0.05 SV (5 rems)
IN 96-066	Recent Misadministrations Caused by Incorrect Calibrations of Strontium-90 Eye Applicators

IN 96-072	Undetected Failures That May Occur During Patient Treatments with Teletherapy Devices
IN 97-030	Control of Licensed Material During Reorganizations, Employee-Management Disagreements, and Financial Crises
IN 97-042	Management Weaknesses Resulting in Failure to Comply With Shipping Requirements for Special Nuclear Material
IN 97-043	License Condition Compliance
IN 97-055	Calculation of Surface Activity for Contaminated Equipment and Material
IN 97-065	Failures of High-Dose-Rate Remote Afterloading (HDR) Device Source Guide Tubes, Catheters, and Applicators
IN 97-075	Enforcement Sanctions Issued as a Result of Deliberate Violations of NRC Requirements
IN 97-091	Recent Failures of Control Cables Used on Amersham Model 660 Posilock Radiography Systems
IN 98-001	Thefts of Portable Gauges
IN 98-004	Enforcement Sanctions for Deliberate Violations of NRC Employee Protection Requirements
IN 98-005	Criminal History Record Information
IN 98-006 IN 98-010	Unauthorized Use of License to Obtain Radioactive Materials, and its Implications under Expanded Title 18 of the U.S.Code Probable Misadminstrations Occurring During Intravascular Brachytherapy with Novoste Beta-Cath System
IN 98-012	Licensee's Responsibilities Regarding Reporting and Follow-Up Requirements for Nuclear-Powered Pacemakers
IN 98-018	Recent Contamination Incidences Resulting From Failure to Perform Adequate Surveys
IN 99-004	Unplanned Radiation Exposures to Radiographers, Resulting from Failures to Follow Proper Radiation Safety Procedures
IN 99-009	Problems Encountered When Manually Editing Treatment Data on the Nucletron Microselectron-HDR (New) Model 105.999
IN 99-11	Incidents Involving the Use of Radioactive Iodine-131
IN 99-24	Broad-Scope Licensees' Responsibilities for Reviewing and Approving Unregistered Sealed Sources and Devices
IN 99-27	Malfunction of Source Retraction Mechanism in Cobalt-60 Teletherapy Treatment Units
BL 86-004 Trea	Defective Teletherapy Timer That May Not Terminate tment Dose

BL 88-006	Actions To Be Taken for the Transportation of Model No. SPEC 2-T Radiographic Exposure Device
BL 92-002	Safety Concerns Related to "End of Life" of Aging Theratronics Teletherapy Units
BL 92-003	Release of Patients After Brachytherapy
BL 93-001	Release of Patients After Brachytherapy Treatment With Remote Afterloading Devices
BL 95-001	Quality Assurance Program For Transportation of Radioactive Material
BL 97-001	Potential for Erroneous Calibration, Dose Rate, or Radiation Exposure Measurements with Certain Victoreen Model 530 and 530SIElectrometer/Dose-Meters
Others as	selected by the First Line Supervisor
3. NUREGs (late	est revision, where applicable)
NUREG 14	400 Air Sampling in the Workplace
NUREG 14	Guide to NRC Reporting and Recordkeeping Requirements
NUREG 15	Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions
NUREG 1	Consolidated Guidance About Materials Licenses
Vol. 1:	Program-Specific Guidance About Portable Gauge Licenses
Vol. 2:	Program-Specific Guidance About Industrial Radiography Licenses
Vol. 3:	Applications for Sealed Source and Device Evaluation and Registration
Vol. 4:	Program-Specific Guidance About Fixed Gauge Licenses
Vol. 5:	Program-Specific Guidance About Self-Shielded Irradiator Licenses
Vol. 6:	Program-Specific Guidance About 10 CFR Part 36 Irradiator Licenses
Vol. 7:	Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope
Vol. 8:	Program-Specific Guidance About Exempt Distribution Licenses
Vol. 9:	Program-Specific Guidance About Medical Use Licenses
Vol. 10:	Program-Specific Guidance About Master Material Licenses

Vol. 11: Program-Specific Guidance About Licenses of Broad Scope

Vol. 12:	Program-Specific Guidance About Possession Licenses for Manufacturing and Distribution
Vol. 13:	Program-Specific Guidance About Commercial Radiopharmacy Licenses
Vol. 14:	Program-Specific Guidance About Well Logging, Tracer, and Field Flood Study Licenses
Vol. 15:	Program-Specific Guidance About About Changes of Control and About Bankruptcy Involving Byproduct, Source, or Special Nuclear Material Licenses
Vol. 16:	Program-Specific Guidance About Licenses Authorizing Distribution to General Licensees
Vol. 17:	Program-Specific Guidance About Service Provider Licenses
Vol. 18:	Program-Specific Guidance About Special Nuclear Material of Less than Critical Mass Licenses
Vol. 19:	Guidance For Agreement State Licensees About NRC Form 241, Report of Proposed Activities in Non-Agreement States, Areas of Exclusive Federal Jurisdiction, or Offshore Waters, and Guidance for NRC Licensees Proposing to Work in Agreement State Jurisdiction (Reciprocity)
Vol. 20:	Program-Specific Guidance About Administrative Licensing Procedures
NUREG 1575	Multi-Agency Radiation Site Survey and Investigation Manual (MARSSIM)
NUREG 1600	General Statement of Policy and Procedures for NRC Enforcement Actions
NUREG/BR 0	NRC Enforcement Manual
NUREG/BR 0	216 Radioactive Waste: Production, Storage, Disposal
NUREG/BR 0	240 Reporting Safety Concerns
NUREG/BR 0	NMSS Handbook for Decommissioning Fuel Cycle and Materials Licenses
NUREG/CR 4	1884 Interpretation of Bioassay Measurements
NUREG/CR 5	Manual for Conducting Radiological Surveys in Support of License Termination
Others as sele	ected by the First Line Supervisor
4. Generic Lette	e <u>rs</u>

Issue Date: 10/26/11 E1-31 1246

Distribution of Products Irradiated in Research Reactors

GL 86-011

GL 88-004	Distribution of Gems Irradiated In Research Reactors
GL 94-004	Voluntary Reporting of Additional Occupational Radiation Exposure Data
GL 95-09	Monitoring and Training of Shippers and Carriers of Radioactive Material
GL 99-001	Recent Nuclear Materials Safety and Safeguards Decision on Bundling Exempt Sources

Others as selected by the First Line Supervisor

- 5. Federal Register Notices
  - U. S. Nuclear Regulatory Commission, "Decommissioning, Recordkeeping and License Termination: Documentation Additions Final Rule," *Federal Register* 58 (No. 141), 39628-39635, July 26, 1993
  - U. S. Nuclear Regulatory Commission, "General Requirements for Decommissioning Nuclear Facilities Final Rule, *Federal Register* 53 (No. 123), 24018-24056, June 27, 1988

Others as selected by the First Line Supervisor

6. NRC Branch Technical Positions

Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material, April 1993

- 7. Policy and Guidance Directives
- 8. Standard Deficiency Paragraphs
- 9. Standard License Conditions
- 10. Licensing Checklists
- 11. Standard Review Plans
- 12. Sealed Source and Device Registry
- 13. Technical Assistance Requests
- 7. Through 13. as selected by the First Line Supervisor
- B. The application of these guidance documents to the materials license review program should be studied in detail by the qualifying individual and covered by the First Line Supervisor in discussions, interviews, or oral quizzes.

#### Qualification Guide 5 NRC Inspection Manual Chapters(MC)

A. A selection of currently applicable NRC MC and Inspection Procedure (IP) references with direct application to the materials license review program should be identified by the First Line Supervisor. The application of the specific sections to the materials license review program should be studied in detail by the qualifying individual.

#### 1. REPORTS/COMMUNICATIONS/FOLLOW-UP

MC 0230 MC 0610 MC 0620 MC 0720 MC 0801 MC 1120	Morning Report Inspection Reports Inspection Documents and Records NRC Bulletins and Information Notices Inspector Feedback Preliminary Notifications
IP 92701 IP 92703	Followup Followup of Confirmatory Action Letters

#### 2. INSPECTIONS

MC 0300	Announced and Unannounced I	nspections		
MC 0312	Technical Assistance for Rad	diation Safety	Inspection	is at
	Nuclear Fuel Cycle Facilities and			
MC 1246	Formal Qualification Programs	in Nuclear Ma	terial Safety	/ and
	Safeguards Program Area			
MC 2800	Materials Inspection Program	(Inspection	Priorities	and
	Scheduling)			

#### 3.INTERACTIONS WITH OTHER FEDERAL AGENCIES

MC 1007	Interfacing Activities between Regional Offices of NRC and OSHA
IP 87102	Maintaining Effluents from Materials Facilities As Low As Is Reasonably Achievable (ALARA) [EPA] <sup>1</sup>

#### **4.INCIDENT RESPONSE**

MC 1300	Incident Response Actions - Responsibility and Authority
MC 1301	Response to Radioactive Material Incidents that Do Not
	Require Activation of the NRC Incident Response Plan
MC 1302	Action Levels for Radiation Exposures and Contamination
	Associated with Materials Events Involving Members of the
	Public
MC 1330	Response to Transportation Accidents Involving Radioactive
	Materials
MC 1360	Use of Physician and Scientific Consultants in the Medical
	Consultant Program

<sup>&</sup>lt;sup>1</sup> Required for non-sealed source licensees.

Issue Date: 10/26/11 E1-33 1246 IP 87103 Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing

#### 5.LOW-LEVEL WASTE/WASTE MANAGEMENT

MC 2401	Near-Surface Low-Level Radioactive Waste Disposal Facility Inspection Program
IP 84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring
IP 84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR Part 20 and 10 CFR Part 61
IP 84900	Low-Level Radioactive Waste Storage

#### 6. MATERIALS SAFETY PROGRAM

MC 1220	Processing of NRC Form 241, Inspection of Agreement State
	Licensees Operating under the Reciprocity Provisions of 10 CFR
	150.20

MC 2800Materials Inspection Program

MC 2810 Materials Inspection Programs for Multisite, and Multiregional Broad Licenses

MC 2815 Construction and Preoperational Inspection of Panoramic, Wet-Source

Storage Gamma Irradiators

IP 87101 Performance Evaluation Factors

IP 87102 Maintaining Effluents from Materials Facilities As Low As Is Reasonably

Achievable (ALARA)

IP 87103 Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing

3
ams

#### 7. RADIATION PROTECTION

MC 8300	Radiation Protection
IP 83726 Mon	Control of Radioactive Materials and Contamination, Surveys, and itoring
IP 83728 IP 83750	Maintaining Occupational Exposures ALARA Occupational Radiation Exposure

IP 83822	Radiation Protection
IP 83890	Closeout Inspection and Survey
IP 83895	Radiation Protection - Followup on Expired Licenses

#### 8. TRANSPORTATION

MC 1330 Response to Transportation Accidents Involving Radioactive Materials

IP 86721 Transportation (Basic)
IP 86740 Inspection of Transportation Activities

IP 86750 Solid Radioactive Waste Management and Transportation of Radioactive Materials

#### 9. OTHER

MC 0700	Communication with Licensees
MC 1010	Independent Assessment and Analysis
MC 1201	Conduct of Employees
MC 2900	Performance Appraisal Program

B. The First Line Supervisor will hold discussions, interviews, or oral quizzes to test the qualifying individual's knowledge and understanding of the application of the selected sections to the materials license review program.

Issue Date: 10/26/11 E1-35 1246

#### Qualification Guide 6 Industry Codes and Standards

- A. A selection of currently applicable industry codes and standards should be identified by the First Line Supervisor. These references should include those listed below and be documented. The qualifying individual should be expected to have a general knowledge of the topics addressed in the references. This review may be accomplished by self study, study quizzes, briefings, or discussions.
  - 1. American National Standards Institute (ANSI)

ANSI N13.1	Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities
ANSI N13.2	Guide for Administrative Practices in Radiation Monitoring
ANSI N13.5	Performance Specifications for Direct Reading and Indirect Reading Pocket Dosimeters for X and Gamma Radiation
ANSI N13.7	Criteria for Photographic Film Dosimeter Performance
ANSI N13.27	Performance Requirements for Pocket Sized Alarm Dosimeters and Alarm Ratemeters
ANSI N42.12	Calibration and Usage of Sodium Iodide Detection Systems
ANSI N42.13	Calibration and Usage of Dose Calibrator Ionization Chambers for the Assay of Radionuclides
ANSI N42.14	Calibration and Use of Germanium Spectrometers for the Measurement of Gamma Ray Emission Rates of Radionuclides
ANSI N42.15	Performance Verification of Liquid Scintillation Counting Systems
ANSI N43.3	General Radiation Safety - Installations Using Non-Medical X-Ray and Sealed Gamma-Ray Sources, Energies up to 10 MeV
ANSI 43.7	Safe Design and Use of Self Contained Dry Source Storage Gamma Irradiators (Category I)
ANSI N43.8	Classification of Industrial Ionizing Radiation Gaging Devices
ANSI N43.10	Safe Design and Use of Panoramic Wet Source Storage Gamma Irradiators (Category IV)
ANSI N44.1	Integrity and Test Specifications for Selected Brachytherapy Sources
ANSI N44.2	Leak Testing Radioactive Brachytherapy Sources

Issue Date: 10/26/11 E1-36 1246

ANSI N44.3	Thyroid Radioiodine Uptake Measurements Using a Neck Phantom
ANSI N319	Personnel Neutron Dosimeters
ANSI N322	Inspection and Test Specifications for Direct and Indirect Reading Quartz Fiber Pocket Dosimeters
ANSI N323	Radiation Protection Instrumentation Test and Calibration
ANSI N449	Guidelines for Maintaining Cobalt-60 and Cesium-137 Teletherapy Equipment
ANSI N449.1	Procedures for Periodic Inspection of Cobalt-60 and Cesium-137 Teletherapy Equipment
ANSI N542	Sealed Radioactive Sources Classification
ANSI Z88.2	Practices for Respiratory Protection

ANSI Standards as selected and documented by the First Line Supervisor

2. NRC Accepted HP Computer Codes

PC-DOSE Varskin RASCAL REMIT

3. National Council on Radiation Protection and Measurements (NCRP)

NCRP Reports No. 8, 30, 37, 40, 41, 47, 49, 50, 57, 58, 59, 61, 65, 69, 70, 71, 84, 87, 93, 94, 95, 99, 100, 101, 102, 105, 107, 110, 111, 112, 114, 115, 116, 117, 121, 122, 123, 124, 125, 127, 129

NCRP Commentaries No. 9, 11

4. International Commission on Radiological Protection (ICRP)

ICRP 19, 23, 25, 26, 27, 28, 30 and Supplements, 35, 44, 51, 52, 53, 54, 56, 60, 61

5. U.S. Environmental Protection Agency (EPA)

**EPA Federal Guidance Report No.11** 

6. Committee on the Biological Effects of Ionizing Radiation (BEIR)

BEIR Reports (As selected by supervisor)

7. International Commission on Radiological Units (ICRU)

ICRU 12, 18, 20, 22, 24, 32, 38

8. International Atomic Energy Agency (IAEA)

IAEA Safety Series No. 1, 25, 33, 38

B. The First Line Supervisor should test the qualifying individual's knowledge of application of these codes and standards to the materials license review program by discussions, interviews, or oral quizzes.

# Qualification Guide 7 Required (As Appropriate) Licensing Site Visits to Core Licensees

- A. Each license reviewer shall (as appropriate) accompany certified license reviewers on at least four site visits to core licensees.
- B. The following is a guide for material that should be studied and discussed with the license reviewer in charge during these site visits. The First Line Supervisor will discuss these items, as appropriate, following each site visit.
  - 1. The Inspection Program (as it relates to review of licenses)

MC 2800 Materials Inspection Program

2. Scheduling and Preparation for Site Visits

MC 0300 Announced and Unannounced Inspections

- 3. Scope of Site Visit
- 4. Entrance/Exit Interviews
- 5. Conduct of Site Visit. Accumulation of Data
- 6. Post-Site Visit Activities (as they relate to review of licenses)

MC 0610 Inspection Reports

MC 1100 Notification of Significant Meetings

7. Morning Reports

MC 0230 Morning Report

8. Non-routine Licensee Events

MC 1110 Potential Abnormal Occurrences

Management Directive 8.3 NRC Incident Investigation Program

Management Directive 8.10 NRC Medical Event Assessment Program

Management Directive 8.9 Accident Investigation

9. Preliminary Notification

MC 1120 Preliminary Notifications

Bulletins/Information Notices

MC 0720 NRC Bulletins and Information Notices

Issue Date: 10/26/11 E1-39 1246

#### 11. Use of Consultants of NRC

MC 1360 Use of Physician and Scientific Consultants in the Medical Consultant Program

Management Directive 10.6 Use of Consultants & Experts

#### 12. Allegations and Investigations

Management Directive 8.8 Management of Allegations

#### 13. Communication outside NRC

Management Directive 5.5 Public Affairs Program

Management Directive 3.6 Distribution of Unclassified NRC staff/Contractor-Generated Reports

### Qualification Guide 8 NRC Management Directives

A. A selection of currently applicable NRC Management Directive (MD)references should be identified by the First Line Supervisor. These references should include those listed below and be documented. The qualifying license reviewer should be expected to have a general knowledge of the topics addressed in the references. This review may be accomplished by self-study, study-quizzes, briefings, or discussions. The selection should include:

1.	NRC MD 9.1	Organization Management
2.	NRC MD 9.29	Organization and Function of Regional Offices
3.	NUREG 0325	USNRC Functional Organization Chart
4.	NRC MD 3.2	Privacy Act
5.	NRC MD 3.1	Freedom of Information Act
6.	NRC MD 10.130	Safety and Health Program Under the Occupational Safety and Health Act
7.	NRC MD 10.131	Standards for Protection Against Ionizing Radiation
8.	NRC MD 14.1	Official Temporary Duty Travel
9.	NRC MD 10.159	Differing Professional Views or Opinions
10.	NRC MD 10.42	Hours of Work and Premium Pay
11.	NRC MD 10.43	Time and Attendance Reporting
12.	NRC MD 10.67	Non-SES Performance Appraisal System
13.	NRC MD 10.101	Employee Grievances
14.	NRC MD 8.3	NRC Incident Investigation Program
15.	NRC MD 8.8	Management of Allegations
16.	NRC MD 8.10	NRC Medical Event Assessment Program

B. Application of the selected NRC Management Directives to the materials license review program will be discussed with the qualifying individual by the First Line Supervisor to test the qualifying individual's knowledge.

Issue Date: 10/26/11 E1-41 1246

### Qualification Guide 9 Review of Significant Events at Material Licensees

Α.	A selection of significant h	istorical materials	related events	should be i	dentified by
	the First Line Supervisor.	These events sho	uld be documer	ited and stud	died in detaíl
	by the qualifying individual	•			

B. The First Line Supervisor should discuss the selected events in detail with the qualifying license reviewer and go over recommendations made, lessons learned, and changes identified to prevent recurrence. The relevance of the event to the overall materials license review program should be stressed.

### Qualification Guide 10 Directed Review of Selected Licensing Case Work

- A. The First Line Supervisor will select documents from the file of a licensed facility and direct their review by the qualifying individual. The qualifying individual will study in detail the selected documents. The selection should be documented. Such documents would include:
  - 1. Initial license application and facility description
  - 2. Associated licensing correspondence (NRC staff comments and licensee responses)
  - 3. License renewal applications and associated NRC correspondence
  - 4. Copy of the license
  - 5. Inspection reports related to that licensee's activities
- B. The First Line Supervisor will discuss in detail with the qualifying individual the selected documents and their relation to the overall material license review program.

Issue Date: 10/26/11 E1-43 1246

#### Qualification Guide 11 Formal Training

The standards for each Training Course are provided in the NRC Technical Training Center Course Catalog and will not be duplicated in the Qualification Guide.

Issue Date: 10/26/11 E1-44 1246

#### Attachment 1 Revision History for IMC 1246, Appendix E1

Commitment Tracking Number	Document Accession Number and Issue Date	Description of Change	Training Needed	Training Completion Date	Comment Resolution Accession Number
N/A	ML112350968 10/26/11 CN 11-022	Revision history sheet added. Merged with Appendix A01 and renamed as Appendix E1. Added "Training Requirements" Section from Appendix A01	None	N/A	ML112350982