

## SECTION X

### DIVISION OF WASTE MANAGEMENT DECOMMISSIONING PROJECT MANAGER/TECHNICAL REVIEWER NRC DECOMMISSIONING PROJECT MANAGER/TECHNICAL REVIEWER QUALIFICATION JOURNAL

#### Applicability

This NRC Decommissioning Project Manager/Technical Reviewer Qualification Journal implements NRC Manual Chapter 1246, Appendix A, Section X, by establishing the minimum training requirements for Division of Waste Management personnel assigned to support waste management decommissioning activities.

The NRC Decommissioning Project Manager/Technical Reviewer Qualification Journal serves as a guideline for the development of a Divisional Qualification Journal, and establishes the minimum training requirements consistent with NRC Manual Chapter 1246. The Division Qualification Journal must provide traceable documentation to show that minimum requirements are met for each project manager/technical reviewer.

The NRC Decommissioning Project Manager/Technical 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 project manager/technical reviewer's qualification. The decommissioning project manager/technical 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 an inspection or licensing discipline. The decommissioning project manager/technical reviewer is expected to demonstrate detailed knowledge of the inspection or licensing discipline specific references.

In order to support the review of upper tier documents, programs, and policies, the project manager/technical reviewer's first line supervisor will assign one or more specific reactor facilities, fuel facilities, non-power reactor facilities and/or material licensees as reference facilities. The selection of a reference facility is intended to provide the decommissioning project manager/technical reviewer's management with the ability to tailor the qualification process to the experience and training level of the project manager/technical reviewer, and to meet the inspection and licensing needs of the NRC. The use of specific real world material will reinforce the qualification process.

DECOMMISSIONING PROJECT MANAGER/TECHNICAL  
REVIEWER QUALIFICATION JOURNAL  
Division of Waste Management

Name	Title	Branch	Section
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To complete your qualification as a Division of Waste Management Decommissioning Project Manager/Technical Reviewer you are to complete the following signature cards. All signoffs shall include the signature of the responsible reviewer and the date. Maintain these cards in a notebook along with any background or written material required by the program. This notebook will comprise your NRC Decommissioning Project Manager/Technical Reviewer Qualification Journal.

		<u>Signature When Complete</u>	<u>Date</u>
1.	NRC Orientation	_____ First Line Supervisor	_____
2.	Code of Federal Regulations	_____ First Line Supervisor	_____
3.	Office Instructions	_____ First Line Supervisor	_____
4.	Regulatory Guidance	_____ First Line Supervisor	_____
5.	NRC Inspection Manual	_____ First Line Supervisor	_____
6.	Industry Codes and Standards	_____ First Line Supervisor	_____
7.	Inspection Accompaniments	_____ First Line Supervisor	_____
8.	NRC Management Directives	_____ First Line Supervisor	_____
9.	Directed Review of selected licensing casework	_____ First Line Supervisor	_____
10.	Formal Training	_____ First Line Supervisor	_____

Qualification Board  
Requirement Met

\_\_\_\_\_  
Second Level Supervisor or  
Board Chairman

\_\_\_\_\_

Recommended as a qualified  
Decommissioning Project Manager  
or Technical Reviewer

\_\_\_\_\_  
Second Level Supervisor

\_\_\_\_\_

Certification Memo Issued

\_\_\_\_\_  
Second Level Supervisor

\_\_\_\_\_

Qualification Card 1  
NRC Orientation

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

Qualification Card 2  
Code of Federal Regulations (CFR)

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	<u>Initials</u>	<u>Date</u>
A. Familiarization with selected CFR parts completed	_____ Employee	_____
B. Discussion completed on CFR parts related to decommissioning	_____ First Line Supervisor	_____

Qualification Card 3  
Office Instructions

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

Qualification Card 4  
Regulatory Guidance

	<u>Initials</u>	<u>Date</u>
A. Review of regulatory guidance		
1. Regulatory Guides	_____ Employee	_____
2. Information Notices /Bulletins	_____ Employee	_____
3. NUREGs	_____ Employee	_____
4. Generic Letters	_____ Employee	_____
5. Federal Register Notices	_____ Employee	_____
6. Policy and Guidance Directives	_____ Employee	_____
7. NRC Branch Technical Position	_____ Employee	_____
8. SECY Papers	_____ Employee	_____
 B. Discussion of regulatory guidance with application to the Division of Waste Management decommissioning Project Manager and Technical Reviewer program	 _____ First Line Supervisor	 _____

Qualification Card 5  
NRC Inspection Manual Chapters (MC)

Initials

Date

A. Review of appropriate NRC  
MC completed

\_\_\_\_\_  
Employee

B. Discussion of NRC MC  
and their relation to the  
Division of Waste Management  
decommissioning 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 decommissioning inspection program	_____ First Line Supervisor	_____

Qualification Card 7  
Inspection Accompaniments

	<u>Initials</u>	<u>Date</u>
A. Inspections completed		
1. _____ (Facility)	_____ Employee	_____
B. Discussion of inspection and employee's role		
1. _____ (Facility)	_____ First Line Supervisor	_____

Qualification Card 8  
NRC Management Directives

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Initials

Date

A. Review of selected portions of  
the NRC Management Directives  
completed

\_\_\_\_\_  
Employee

B. Discussion of the application  
of the NRC Management Directives  
to the Division of Waste  
Management decommissioning Project  
Managers Technical Reviewer program

\_\_\_\_\_  
First Line Supervisor

Qualification Card 9  
Directed Review of Selected Licensing Casework

	<u>Initials</u>	<u>Date</u>
A. Review of selected licensing casework	_____ Employee	_____
B. Discussion of the importance of these licensing casework	_____ First Line Supervisor	_____

Qualification Card 10  
Formal Training

A. <u>CORE TRAINING:</u>	<u>Initials</u>	<u>Date</u>
1. Fundamentals of Inspection Course (G-101)	_____ Training Coordinator	_____
2. OSHA Indoctrination Course (G-111)	_____ Training Coordinator	_____
3. The Regulatory Process	_____ Training Coordinator	_____
4. Confident Public Speaking	_____ Training Coordinator	_____
5. Site Access Training (H-100)	_____ Training Coordinator	_____
6. Introduction to Health Physics Course (H-117) or Health Physics Technology Course (H-201)	_____ Training Coordinator	_____
7. Licensing Practices and Procedures Course (G-109)	_____ Training Coordinator	_____
8. Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) Course (H-121)	_____ Training Coordinator	_____
9. Environmental Monitoring for Radioactivity (H-111)	_____ Training Coordinator	_____

B. SPECIALIZED TRAINING

Other courses required for decommissioning project managers/technical reviewers performing inspection or licensing activities in specific areas:

<u>Course Title</u>	<u>Course #</u>	<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, etc.

B. NRC Organization

1. The qualifying individual should review and become familiar with:
  - a. Organizational charts of region, NMSS, 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
- 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 inspector or license reviewer in that mission.

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 30  | Rules of general applicability to domestic licensing of byproduct material  |
| 7.  | 10 CFR Part 40  | Domestic licensing of source material   |
| 8.  | 10 CFR Part 50  | Domestic licensing of production and utilization facilities   |
| 9.  | 10 CFR Part 51  | Environmental protection regulations domestic for licensing and related regulatory functions  |
| 10. | 10 CFR Part 60  | Disposal of high level radioactive wastes in geologic repositories  |
| 11. | 10 CFR Part 61  | Licensing requirements for land disposal of radioactive waste   |
| 12. | 10 CFR Part 70  | Domestic licensing of special nuclear material  |
| 13. | 10 CFR Part 71  | Packaging and transportation of radioactive material  |
| 14. | 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  |
| 15. | 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 |
| 16. | 40 CFR Part 141 | National Primary Drinking Water Regulations   |

B. Following completion of the qualifying individual's self study of the listed 10 CFR Parts, a discussion will be held with the qualifying decommissioning Project Managers or Technical reviewer by the First Line Supervisor to test the qualifying individual'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

A. NMSS Office Policies and Procedures

1. Read the NMSS Policy and Procedures Letters

- 1-3 Handling Request for 10 CFR 2.206 Action
- 1-8 Differing Professional Views and Opinions
- 1-11 Communications with Licensees
- 1-19 Notification of Regional Administrators
- 1-22 Quality Assurance
- 1-23 Open Meetings
- 1-24 Office of Investigation and the release of information on investigations/inspections
- 1-27 Management of Allegations
- 1-30 Ensuring the availability, security, and integrity of official docket files for material licenses
- 1-33 Responding to the Commission/OGC for Technical Assistance
- 1-40 Legislative and Regulatory Review Requirements for the Office of the Inspector General
- 1-46 Preparing Federal Register Notices for Site Decommissioning Management Plan Licensing Actions
- 1-48 Preparing Environmental Assessments
- 1-50 Environmental Justice in NEPA Documents

2. The qualifying individual should review the NMSS 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 (NUDOCS and ADAMS) and Management Directive 13.1, Property Management
- f. Union activities, including Management Directive 10.102, Labor-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)
- l. NMSS 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)

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 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. Study of corresponding and subtier codes and standards is recommended.

1. Regulatory Guides (use latest revision)

1.86	Termination of Operating Licenses for Nuclear Reactors
3.65	Standard Format and Content of Decommissioning Plans for Licensees Under 10 CFR Parts 30, 40, and 70
3.66	Standard Format and Content of Financial Assurance Mechanisms Required for decommissioning Under 10 CFR Parts 30, 40, 70, and 72
4.18	Standard Format and Content of Environmental Reports for Near Surface Disposal of Radioactive Waste
4.19	Guidance for Selecting Sites for Near Surface Disposal of Low Level Radioactive Waste
8.13	Instruction Concerning Prenatal Radiation Exposure
8.29	Instruction Concerning Risks from Occupational Radiation Exposure
DG-1006	Records Important for Decommissioning of Nuclear Reactors (Draft for Comment)
DG-1071	Standard Format and Content for Post Shutdown Decommissioning Activities Report
DG-3014	Proposed Revision 1 to Regulatory Guide 3.66, Standard Format and Content of Financial Assurance Mechanisms Required for decommissioning Under 10 CFR Parts 30, 40, 70, and 72

2. Information Notices(IN) and Bulletins (BL)

IN 80-024	Low-Level Radioactive Waste Burial Criteria
IN 83-005	Obtaining Approval for Disposing of Very-Low-Level Radioactive Waste - 10 CFR Section 20.302
IN 85-092	Surveys of Wastes Before Disposal From Nuclear Reactor Facilities
IN 86-090	Requests to Dispose of Very Low-Level Radioactive Waste Pursuant to 10 CFR 20.302
IN 87-003	Segregation of Hazardous and Low-Level

Radioactive Wastes

IN 88-008	Chemical Reactions with Radioactive Waste Solidification Agents
IN 88-016	Identifying Waste Generators in Shipments of Low-Level Waste to Land Disposal Facilities
IN 89-013	Alternate Waste Management Procedures in Case of Denial of Access to Low-Level Waste Disposal Sites
IN 89-027	Limitations on the Use of Waste Forms and High Integrity Containers for the Disposal of Low-Level Radioactive Waste
IN 90-009	Extended Interim Storage of Low-Level Radioactive Waste by Fuel Cycle and Materials Licensees
IN 90-031	Update on Waste Form & High Integrity Container ... Review Status, Identification of Problems With Cement Solidification
IN 90-075	Denial of Access to Current Low-Level Radioactive Waste Disposal Facilities
IN 91-003	Management of Wastes Contaminated With Radioactive Materials ("Red Bag" Waste and Ordinary Trash)
IN 91-065	Emergency Access to Low-Level Radioactive Waste Disposal Facilities
IN 94-07	Solubility Criteria for Liquid Effluent Releases to Sanitary Sewage under the Revised 10 CFR 20
IN 94-023	Guidance to hazardous, Radioactive and Mixed Waste Generators on the Elements of a Waste Minimization Program
IN 96-047	Record keeping, Decommissioning Notifications for Disposals of Radioactive Waste by Land Burial Authorized Under 10 CFR 20.304, 20.302, 20,2002
BL 79-019	Packaging of Low-Level Radioactive Waste for Transport and Burial
BL 79-020	Packaging, Transport and Burial of Low-Level Radioactive Waste

Others as selected by the First Line Supervisor

3. NUREGs (latest revision, where applicable)

NUREG 1330, Rev. 1	Manual for the Review of Financial Assurance Mechanisms for Decommissioning Under 10 CFR 30, 40, 70, and 72
NUREG 1444, Sup. 1	Site Decommissioning Management Plan
NUREG-1549	(Draft) Decision Methods for Dose Assessment to Comply with Radiological Criteria for License Termination
NUREG 1575	Multi-Agency Radiation Site Survey and Investigation

	Manual (MARSSIM)
NUREG-1600	General Statement of Policy and Procedures for NRC Enforcement Actions
NUREG 1700	Standard Review Plan for Evaluating Nuclear Power Reactor License Termination Plans
NUREG/BR-0241	NMSS Handbook for Decommissioning Fuel Cycle and Materials Licenses
NUREG/CR-1496	Generic Environmental Impact Statement in Support of Rulemaking on Radiological Criteria for Decommissioning of NRC - Licensed Nuclear Facilities
NUREG/CR-1500	Working Draft Regulatory Guide on Release Criteria for Decommissioning: NRC Staff's Draft for Comment
NUREG/CR-1501	Background as a Residual Radioactivity Criterion for Decommissioning
NUREG/CR-1505	A Nonparametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys
NUREG/CR-1506	Measurement Methods for Radiological Surveys in Support of New Decommissioning Criteria
NUREG/CR-1507	Minimum Detectable Concentrations with Typical Radiation Survey Instruments for Various Contaminants and Field Conditions
NUREG/CR-5512 (Vols 1-4)	Residual Radioactive Contamination from Decommissioning
NUREG/CR-5849	Manual for Conducting Radiological Surveys in Support of License Termination
NUREG/CR-6232	Assessing the Environmental Availability of Uranium in Soils and Sediments

Others as selected by the First Line Supervisor

4. Generic Letters (GL)

GL 80-009	Low Level Radioactive Waste Disposal
GL 80-051	On-Site Storage Of Low-Level Waste
GL 81-038	Storage of Low Level Radioactive Wastes at Power Reactor Sites
GL 83-007	The Nuclear Waste Policy Act of 1982
GL 85-014	Commercial Storage At Power Reactor Sites Of Low Level Radioactive Waste Not Generated By The Utility

Others as selected by the First Line Supervisor.

5. Federal Register Notices

April 16, 1992 (57 FR 13389) Action Plan to Ensure Cleanup of Site Decommissioning Management Plan Sites

July 15, 1994 (59 FR 36026) Timeliness in Decommissioning of Materials Facilities

August 22, 1994 (59 FR 43200) Radiological Criteria for Decommissioning

July 26, 1995 (60 FR 38235) Clarification of Decommissioning Funding Requirements

July 21, 1997 (62 FR 39057) Radiological Criteria for License Termination

March 19, 1997 (62 FR 13176) Disposition of Cesium-137 Contaminated Emission Control Dust and Other Incident-Related Material; Final Staff technical Position

November 18, 1998 (63 FR 64132) Supplemental Information on the Implementation of the Final Rule on Radiological Criteria for License Termination

December 7, 1999 (64 FR 39057) Supplemental Information on the Implementation of the Final Rule on Radiological Criteria for License Termination

Others as selected by the First Line Supervisor.

6. Policy and Guidance Directives (PGD)

PGD 8-01 Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Byproduct, Source, and Special Nuclear Material Licensees, November 1983

PGD 8-05 Standard Review Plan for Evaluating Compliance with Decommissioning Requirements for Source, Byproduct, and Special Nuclear Material Applications, April 1991

PGD 8-07 Standard review Plan: Evaluating Decommissioning Plans for Licensees Under 10 CFR Parts 30, 40, and 70

PGD 8-10 Disposal of Incinerator Ash as Ordinary Waste

Others as selected by the First Line Supervisor.

7. Branch Technical Position

Disposal or Onsite Storage of Thorium and Uranium (Either as Natural Ores or Without Daughters present) from Past Operations (SECY 81-576), dated October 5, 1981

Branch Technical Position on Site Characterization for Decommissioning, November 1994

"When to Remediate Inadvertent Contamination of the Terrestrial Environment", October 1994.

"Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material", August 1987.

Others as selected by the First Line Supervisor.

8. SECY Papers

- 90-316 Decommissioning Records Plan, Records Management Guidelines (RMG)
- 92-01 Decommissioning Records
- 92-106 Action Plan to Ensure Timely Remediation of Sites Listed in the Site Decommissioning Management Plan
- 94-145 Increase of Tritium and Iron-55 Unrestricted Use Limits for Surface Contamination at Shoreham and Fort St. Vrain
- 97-237 Memorandum of Understanding with the Department of Energy
- 99-035 Status of Decommissioning Program and Site Decommissioning Plan Sites

Others as selected by the First Line Supervisor.

9. Draft Documents

Preliminary Guidelines for Evaluating Dose Assessments in Support of Decommissioning

Draft Standard Review Plan for Licensee Requests to Delay Initiation of Decommissioning Plan

Draft Standard Review Plan for Decommissioning

10. Other Documents

National Environmental Policy Act of 1969

A. A selection of currently applicable NRC MC and Inspection Procedure (IP) references with direct application to the Division of Waste Management Project Manager/Technical Reviewers program should be identified by the First Line Supervisor. The application of the specific references to the Project Manager/Technical Reviewer program should be studied in detail by the qualifying individual.

1. REPORTS/COMMUNICATIONS/FOLLOW-UP

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

2. INSPECTIONS

- MC 0300 Announced and Unannounced Inspections
- MC 0312 Technical Assistance for Radiation Safety Inspections at Nuclear Fuel Cycle Facilities and Materials Licensees' Sites
- MC 1246 Formal Qualification Programs in Nuclear Material 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
  
- IP 87103 Inspection 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
- MC 6500 Low-Level Radioactive Waste Storage Facilities

MC 8400 Radioactive Waste Management

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. RADIATION PROTECTION

MC 8300 Radiation Protection

IP 83726 Control of Radioactive Materials and Contamination, Surveys, and Monitoring

IP 83728 Maintaining Occupational Exposures ALARA

IP 83750 Occupational Radiation Exposure

IP 83822 Radiation Protection

IP 83890 Closeout Inspection and Survey

IP 83895 Radiation Protection - Followup on Expired Licenses

7. 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

8. OTHER

MC 1010 Independent Assessment and Analysis

MC 1100 Notification of Significant Meetings

MC 1201 Conduct of Employees

MC 2900 Performance Appraisal Program

MC 3500 Quality Assurance

MC 3700 Design, Design Changes, Modifications

IP 30800 Initial Management Meeting

- 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 references to the Division of Waste Management Project Manager/Technical Reviewer's program.

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 N13.7                      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 N42.14                     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 N323                        Radiation Protection Instrumentation Test and Calibration

ANSI Z88.2                        Practices for Respiratory Protection

ANSI Standards as selected and documented by the First Line Supervisor

2. NRC Accepted HP Computer Codes

RESRAD  
PC-DOSE  
RASCAL  
D&D

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

NCRP Reports No. 30, 46, 57, 58, 59, 65, 76, 77, 87, 93, 94, 106

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

BEIR Reports (As selected by supervisor)

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

Qualification Guide 7  
Inspection Accompaniments

- A. Each project manager/technical reviewer should accompany certified inspectors on at least one inspection.
  
- B. The following is a guide for material that should be studied and discussed with the inspector in charge during the inspection accompaniment. The First Line Supervisor will discuss these items, as appropriate, following each inspection accompaniment.
  - 1. The Inspection Program
    - MC 2800 Materials Inspection Program
    - IP 86718 Periodic Maintenance of Packaging
  - 2. Scheduling and Preparation for Inspections
    - MC 0300 (Announced and Unannounced Inspections)
  - 3. Scope of Inspection
  - 4. Entrance/Exit Interviews
  - 5. Conduct of Inspection, Accumulation of Data
  - 6. Post-inspection Activities of Inspectors
    - MC 0610 Inspection Reports
    - MC 0620 Inspection Documents and Records
    - MC 1100 Notification of Significant Meetings
  - 7. Morning Reports
    - IM Chapter 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
  - 10. Allegations and Investigations

Management Directive 8.8 Management of Allegations

11. Communication outside NRC

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

Management Directive 5.5 Public Affairs Program

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 decommissioning project manager/technical 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 Protection of NRC Employees Against Ionizing Radiation)
8. NRC MD 10.159 Differing Professional Views or Opinions
9. NRC MD 10.42 Hours of Work and Premium Pay
10. NRC MD 10.43 Time and Attendance Reporting
11. NRC MD 10.67 Non-SES Performance Appraisal System)
12. NRC MD 10.101 Employee Grievances
13. NRC MD 8.3 NRC Incident Investigation Procedures
14. NRC MD 8.8 Management of Allegations
15. NRC MD 4.6 License Fee Management Program
16. NRC MD 5.1 Intergovernmental Consultation
17. NRC MD 5.2 Memorandum of Understanding With States
18. NRC MD 5.5 Public Affairs Program
19. NRC MD 8.11 Review Process for 10 CFR 2.206 Petitions
20. NRC MD 10.160 Open Door Policy

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

Qualification Guide 9  
Directed Review of selected licensing casework

- A. A selection of licensing casework should be identified by the First Line Supervisor. These events should be documented and studied in detail by the qualifying decommissioning project manager/technical reviewer.
1. New License Issuance - SCA
  2. License Renewal - Molycorp-York
  3. Amendment Authorizing Decommissioning and Approving Site Decommissioning Plan - Cintichem
  4. Termination of License - UNC Wood River Junction
- B. The First Line Supervisor should discuss the licensing casework in detail with the qualifying individual. The relevance of the casework to the decommissioning project manager/technical reviewer program should be stressed.

Qualification Guide 10  
Formal Training

The standards for each Training Course are provided in the NRC Technical Training Division Syllabus of Courses and will not be duplicated in the Qualification Guide.