



**ATTACHMENT 2  
REDACTED VERSION**

**Changes to Part II of SNM-124 Reflecting Changes Made  
During Calendar Year 2010**

Page Index  
Chapter 9  
Chapter 11



**WHEN DETACHED, HANDLE THIS PAGE AS DECONTROLLED**

[REDACTED]

**SPECIAL NUCLEAR MATERIAL LICENSE**

**SNM-124**

(01/27/2011)

PAGE INDEX (Submitted)

Part II

| SECTION              | PAGE(S) | REVISION | DATE     |
|----------------------|---------|----------|----------|
| Table of Contents    | i-viii  | 16       | 04/15/09 |
| List of Figures      | ix      | 10       | 01/27/09 |
| List of Tables       | x-xi    | 10       | 01/27/09 |
|                      |         |          |          |
| Chapter 9            |         |          |          |
| Section A            | 1-9     | 15       | 01/27/11 |
| Appendix A           | 1-4     | 3        | 01/27/09 |
| Appendix B           | 1-2     | 3        | 01/30/08 |
| Appendix C - DELETED |         |          |          |
|                      |         |          |          |
| Chapter 10           |         |          |          |
| Section A            | 1-5     | 11       | 01/27/09 |
| Appendix 10.1-A      | 1-7     | 0        | 01/30/06 |
| Section B            | 1-4     | 9        | 01/27/09 |
| Section C – RESERVED | 1       | 7        | 01/30/06 |
| Section D – RESERVED | 1       | 5        | 01/30/06 |
| Section E – RESERVED | 1       | 5        | 01/30/06 |
| Section F – RESERVED | 1       | 5        | 01/30/06 |
| Section G – RESERVED | 1       | 3        | 01/30/06 |
| Section H            | 1-4     | 7        | 01/30/06 |
| Section I            | 1-10    | 11       | 01/27/09 |
|                      |         |          |          |
| Chapter 11           |         |          |          |
| Section A            | 1-10    | 10       | 01/27/11 |
| Appendix A - Resumes |         |          | 01/27/11 |
| Section B            | 1-10    | 6        | 01/30/07 |
|                      |         |          |          |
| Chapter 12           |         |          |          |
| Section A            | 1-10    | 7        | 01/27/09 |
| Section B            | 1-4     | 10       | 01/27/09 |
| Section C            | 1-7     | 5        | 01/30/06 |
| Section D            | 1-10    | 10       | 01/27/09 |
| Appendix A           | 1-11    | 16       | 01/27/09 |
| Appendix B           | 1-4     | 0        | 07/06/00 |
| Section E            | 1-8     | 9        | 01/27/09 |
|                      |         |          |          |
| Chapter 13           |         |          |          |
| Section A            | 1-10    | 13       | 01/27/09 |
| Appendix A           | 1-40    | 1        | 01/27/09 |
|                      |         |          |          |

[REDACTED]  
SPECIAL NUCLEAR MATERIAL LICENSE

SNM-124

(01/27/2011)

PAGE INDEX (Submitted)

| SECTION               | PAGE(S) | REVISION | DATE     |
|-----------------------|---------|----------|----------|
| Chapter 14            |         |          |          |
| Section A             | 1-8     | 3        | 01/30/08 |
| Section B             | 1-11    | 2        | 01/30/08 |
| Section C             | 1-8     | 4        | 01/30/08 |
|                       |         |          |          |
| Chapter 15 - RESERVED | 1       | 0        | 01/30/06 |
|                       |         |          |          |
| Chapter 16            | 1       | 0        | 06/23/00 |

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 9**

**GENERAL INFORMATION**

**A. General Information**

**9.1 Corporate Information**

Nuclear Fuel Services, Inc., (NFS) has its principal offices in Erwin, Tennessee. Chapter 11 discusses the relationship and responsibilities of the Corporate organization as it relates to safety.

**9.2 Financial Qualification**

As a result of the indirect transfer of control in 2008 of Nuclear Fuel Services, Inc., from NFS Services, LLC, to NOG-Erwin Holdings, Inc., NFS was required to provide details to the Nuclear Regulatory Commission which demonstrate its financial capability to operate and decommission the Erwin facility. The financial arrangements to assure that decommissioning funds will be available are set forth in Chapter 7 and are reflected in the Contract language provided in Appendices A and B of this Chapter.

**9.3 Summary of Operating Objective and Process**

Reference Sections 1.4 and 1.5 of Part I, which provide a summary of special nuclear material possession limits and authorized activities.

**9.4 Site Description**

Reference Chapter 3 of the Environmental Report (December 1996), which was approved by the NRC concurrently with the license renewal dated July 2, 1999.

Reference Chapter 3 of the Supplemental Environmental Report (November 2001) for a description of the plant expansion associated with construction and operation of BLEU Complex, which is comprised of the Uranyl Nitrate Building (UNB), the BLEU Prep. Facility (BPF), the Oxide Conversion Building (OCB), and Effluent Processing Building (EPB). These expanded operations were approved by the NRC in License Amendments #39 (Federal Register Vol. 56, No. 131, p. 45555, dated July 9, 2002), #47 (Federal Register Vol. 68, No. 207, p. 61235, dated October 27, 2003), and #51 (Federal Register Vol. 69, No. 117, p. 34198, dated June 18, 2004), respectively.

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 9**

**9.5 Location of Buildings on Site**

Locations of buildings on the NFS plant site are shown in Figure 9.2 and are discussed in Chapter 10, "Facility Description."

**9.6 Maps and Plot Plans**

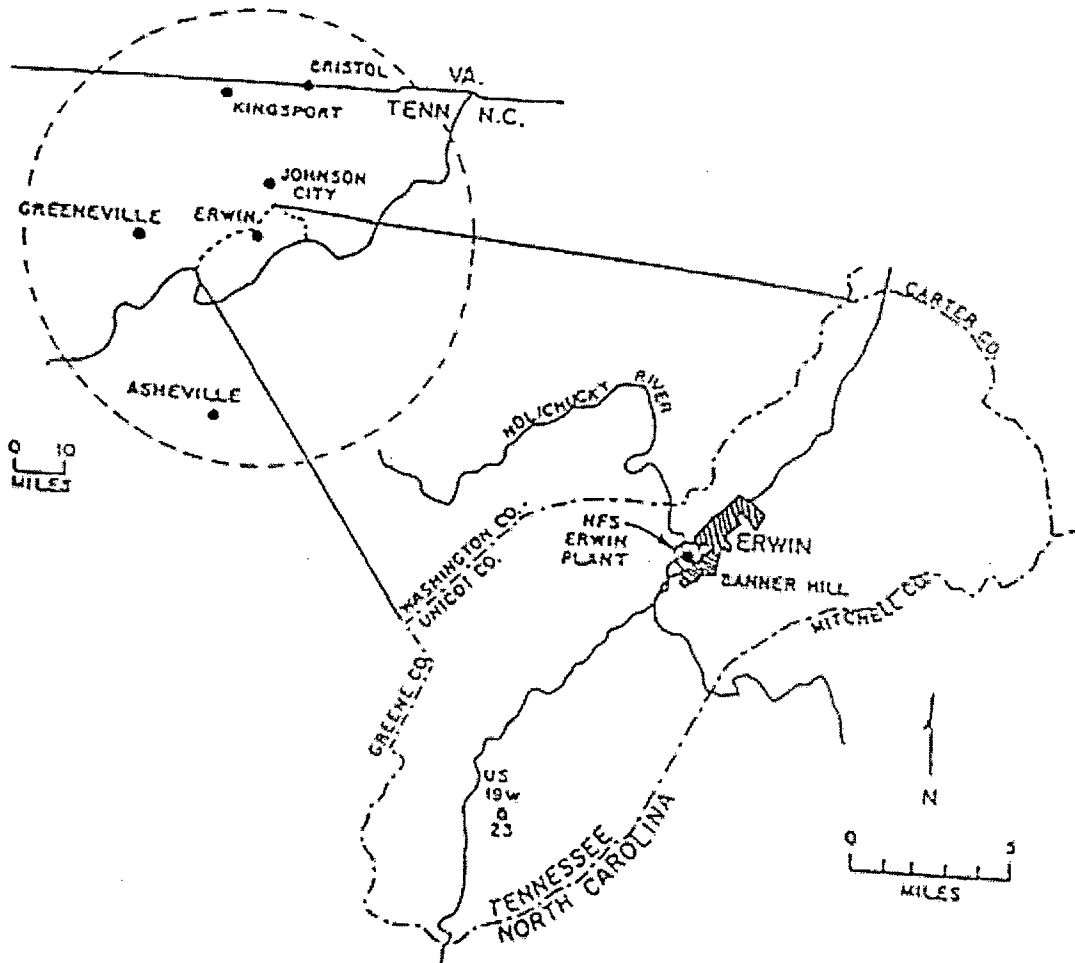
Figure 9.1 shows the location of the NFS plant site in relation to the state, the county, and the general environs. Figure 9.2 shows the plant layout.

**9.7 License History**

The license history is shown in Table 9.1.

[REDACTED]  
SPECIAL NUCLEAR MATERIAL LICENSE  
SNM-124  
CHAPTER 9

Figure 9.1  
Location Map of the Nuclear Fuel Services Plant, Erwin, Tennessee



[REDACTED]  
SPECIAL NUCLEAR MATERIAL LICENSE


SNM-124

CHAPTER 9

Figure 9.2

**Plant Layout and Property Boundaries**

**This drawing is "Official Use Only" and has been removed.**

  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
CHAPTER 9

**Table 9.1**  
**License History**

SNM-124 was most recently renewed by the NRC on July 2, 1999. The following amendments have been issued subsequent to that renewal.

| Amendment Number | Subject  | Effective Date |
|------------------|--|----------------|
| 1                | Authorization to Operate KAST Fuel Process Areas 100-900, A-C, and Auxiliary Systems   | 08/03/1999     |
| 2                | Authorization to Allow Use of QC Vault and to Delete License Conditions S-6 and S-7  | 02/04/2000     |
| 3                | Authorization to Delay Conducting Physical Inventory Pursuant to 10 CFR 70.34  | 04/03/2000     |
| 4                | Authorization to Delete License Condition S-13   | 04/03/2000     |
| 5                | Authorization to Operate KAST Uranium Recovery Areas D-J   | 05/05/2000     |
| 6                | Revisions to the Fundamental Nuclear Material Control Plan   | 05/16/2000     |
| 7                | Authorization to Delay Conducting Physical Inventory Pursuant to 10 CFR 70.34  | 06/02/2000     |
| 8                | Clarification of Possession Limits for Pu Residual Contamination, Special Air Sampling, and Internal Exposure Assessments                  | 06/13/2000     |
| 9                | Bulk Chemical Storage Tanks Analysis   | 07/03/2000     |
| 10               | Authorization to Adjust Annual Limit on Intake (ALI) and Derived Air Concentration (DAC)   | 08/11/2000     |
| 11               | Addition of Industrial Park Facility   | 09/13/2000     |
| 12               | Authorization to Adjust Liquid Effluent Discharge Limits and NRC Correction of Previous Amendments   | 10/27/2000     |
| 13               | Revision to Fundamental Nuclear Material Control Plan and Change to Safeguard Condition SG-4.16  | 11/30/2000     |
| 14               | Revision of License Conditions S-39 and S-41   | 12/13/2000     |
| 15               | Approval of NFS Site Security Training Plan, Revision 15, Safeguards Contingency Response Plan, Revision 0, and Emergency Plan, Revision 4 | 12/22/2000     |
| 16               | Approval of Request for Time Extension to Conduct a Physical Inventory   | 01/15/2001     |
| 17               | Revision of License Condition SG-6.1   | 01/30/2001     |
| 18               | Revision of License Condition S-28   | 01/30/2001     |




[REDACTED]

**SPECIAL NUCLEAR MATERIAL LICENSE**

**SNM-124**

CHAPTER 9

| Amendment<br>Number | Subject   | Effective<br>Date |
|---------------------|---|-------------------|
| 19                  | Revision of License Condition S-25  | 02/28/2001        |
| 20                  | Amendment to License Condition S-1  | 03/01/2001        |
| 21                  | Approval of Request for Time Extension to Submit the Physical Inventory Summary Report  | 03/26/2001        |
| 22                  | Deletion of License Conditions S-43 and S-44  | 03/26/2001        |
| 23                  | Authorization to Amend License Condition S-41 for Extension of Compensatory Measures from April 30, 2001 to June 30, 2001     | 04/24/2001        |
| 24                  | Deletion of License Condition S-20 and Review of 04/27/2001 Revised Safety Demonstration (S-27)                               | 04/27/2001        |
| 25                  | Amend License Conditions for Safety Related Equipment   | 06/04/2001        |
| 26                  | Revision of License Condition S-22  | 06/04/2001        |
| 27                  | Approval of North Site Decommissioning Plan   | 06/19/2001        |
| 28                  | Revisions to HEU FNMC Plan, License Condition SG-5.1  | 06/27/2001        |
| 29                  | Authorization to Extend Safety Condition S-41 to July 31, 2001  | 06/29/2001        |
| 30                  | Authorization to Extend Deadline for Safety Conditions S-28, S-29, S-31, S-32, S-33, S-34, S-36, and S-37 to November 1, 2001 | 07/18/2001        |
| 31                  | Approval of ISA Plan and Deletion of License Conditions S-28 through S-38   | 10/30/2001        |
| 32                  | Deletion of License Conditions S-41 and S-45  | 02/22/2002        |
| 33                  | Revisions to HEU FNMC Plan, License Condition SG-5.1  | 03/29/2002        |
| 34                  | Approval of Emergency Plan, Revision 5  | 05/03/2002        |
| 35                  | Time Extension to Submit the Physical Inventory Summary Report  | 07/19/2002        |
| 36                  | Revised Fundamental Nuclear Material Control Plan   | 08/30/2002        |
| 37                  | Revised Appendix A to Chapter 5 of North Site Decommissioning Plan  | 03/31/2003        |
| 38                  | Authorization to Reduce Source Term at the Site Through Soil Removal  | 05/07/2003        |
| 39                  | Authorize Use of UNB and Increased Possession Limit   | 07/07/2003        |
| 40                  | Authorize Use of ICRP 68 Values   | 08/21/2003        |
| 41                  | Approve Time Extension to Perform Receipt Measurements  | 08/29/2003        |
| 42                  | Approve Time Extension to perform Receipt Measurements  | 09/15/2003        |
| 43                  | Approve Revision 4 to NFS Physical Protection Plan  | 10/10/2003        |
| 44                  | Approve Time Extension to Perform Independent Assessment of MC&A Program  | 10/24/2003        |

  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 9**

| Amendment<br>Number | Subject   | Effective<br>Date |
|---------------------|---|-------------------|
| 45                  | Approve Exemption from Decommissioning Financial Assurance Requirements for Specific Equipment          | 11/13/2003        |
| 46                  | Approve Time Extension to Perform Receipt Measurements  | 12/31/2003        |
| 47                  | Authorize Use of BLEU Prep. Facility  | 01/13/2004        |
| 48                  | Approve Revisions to FNMC Plan  | 02/19/2004        |
| 49                  | Approve Organizational Changes to Chapter 2   | 03/13/2004        |
| 50                  | Approve Revisions to HEU FNMC Plan  | 05/25/2004        |
| 51                  | Approve Operation of the BLEU OCB/EPB   | 07/30/2004        |
| 52                  | Remove Sampling Requirements for Banner Spring Branch   | 09/13/2004        |
| 53                  | Approve Time Extension to Perform Receipt Measurements  | 10/15/2004        |
| 54                  | Administrative Change – Revision of Physical Protection Plan, Safeguards Contingency Plan, and T&Q Plan | 10/29/2004        |
| 55                  | Approve Modification of Certain Material Inventory Measurements   | 11/05/2004        |
| 56                  | Approve Revision to FNMC Plan   | 12/08/2004        |
| 57                  | Approve Time Extension to Perform Receipt Measurements  | 01/10/2005        |
| 58                  | Approve Administrative Changes to Air Sampling and Bioassay Programs                                    | 01/13/2005        |
| 59                  | Approve Deletion of License Conditions S-2, S-4, and S-5  | 01/28/2005        |
| 60                  | Approve Updated Schedule for North Site Decommissioning   | 02/29/2005        |
| 61                  | Approve Revised Date for Annual Update of Safety Demonstration Section                                  | 06/17/2005        |
| 62                  | Approve Possession Limit Increase   | 06/28/2005        |
| 63                  | Approve Revision 1 of the Physical Protection Plan  | 08/11/2005        |
| 64                  | Approve Changes to Certain Administrative Programs  | 08/24/2005        |
| 65                  | Approve Revisions to FNMC Plan  | 11/16/2005        |
| 66                  | Approve Changes to the Physical Protection Plan   | 11/28/2005        |
| 67                  | Approve Changes to Procedure Reviews by SSRC  | 12/12/2005        |
| 68                  | Approve Changes to FNMC Plan, and Replacement of Table 5.1  | 12/21/2005        |
| 69                  | Approve Final Status Survey Method for Subsurface Soils   | 02/15/2006        |
| 70                  | Approve Extension of Safeguards Condition SG-4.34   | 04/13/2006        |
| 71                  | Approve One-Time Exemption From Physical Inventory Deadline   | 06/06/2006        |

[REDACTED]

**SPECIAL NUCLEAR MATERIAL LICENSE**

**SNM-124**  
**CHAPTER 9**

| Amendment Number | Subject  | Effective Date |
|------------------|--|----------------|
| 72               | Approve Change to Required Experience of Discipline Vice-President                               | 07/03/2006     |
| 73               | Approve Exemption of Low-Level Waste Shipments From Certain Physical Security Requirements       | 07/17/2006     |
| 74               | Authorize Use of Shipper's Quantities to Resolve Shipper-Receiver Difference                     | 08/08/2006     |
| 75               | Incorporate Changes to Chapter 3   | 01/05/2007     |
| 76               | Approve Extension of Safeguards Condition SG-4.34  | 04/11/2007     |
| 77               | Approve Administrative Changes to Part I of SNM-124  | 05/09/2007     |
| 78               | Partial Approval of Changes to Physical Protection Plan for Category I, High-Enriched Uranium    | 10/18/2007     |
| 79               | Approve Increase in Possession Limit   | 11/23/2007     |
| 80               | Approve Changes to Physical Protection Plan for Category I, High-Enriched Uranium                | 04/01/2008     |
| 81               | Approve Extension of Safeguards Condition SG-4.34 for Receipt Verification                       | 04/28/2008     |
| 82               | Approve Changes to Configuration Management Program  | 05/22/2008     |
| 83               | Approve Physical Protection Plan for Special Nuclear Material of Moderate Strategic Significance | 07/25/2008     |
| 84               | Approve Changes to Physical Protection Plan for Category I, High-Enriched Uranium                | 11/10/2008     |
| 85               | Consent to the Indirect Transfer of Control of License SNM-124                                   | 12/31/2008     |
| 86               | Approve Changes to FNMC Plan for High Enriched Uranium   | 02/04/2009     |
| 87               | Approve Extension of Safeguards Condition SG-4.34 for Receipt Verification                       | 04/14/2009     |
| 88               | Authorization to Process Uranium Fluoride Compounds in the CD Line                               | 05/11/2009     |
| 89               | Approve Site Security Training and Qualification Plan, Revision 2                                | 08/31/2009     |
| 90               | Approve Extension of Safeguards Condition SG-4.34 for Receipt Verification                       | 5/4/2010       |
| 91               | Approve One-Time Exemption from Physical Inventory Deadline                                      | 5/17/2010      |

[REDACTED]  
SPECIAL NUCLEAR MATERIAL LICENSE  
SNM-124  
CHAPTER 9

| Amendment<br>Number | Subject  | Effective<br>Date |
|---------------------|--|-------------------|
| 92                  | Approval of Changes to Chapter 3 Regarding Ventilation<br>Requirements | 12/21/2010        |

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 11**

**ORGANIZATION AND PERSONNEL**

**A. Functional Organization**

**11.1 Organizational Responsibilities**

Nuclear Fuel Services, Inc. (NFS), owner and operator of the nuclear fuel manufacturing facility located in Erwin, Tennessee, is a subsidiary of NFS Holdings Inc. The NFS corporate organization provides the management, administrative, and technical capabilities to direct the development and operational aspects of the Erwin plant. The site organization has responsibility for operating the plant in a safe and efficient manner. This responsibility is implemented through the functional disciplines of production, decommissioning, engineering, safety, material control and accountability, security, and quality assurance, which are described in the sections which follow. Table 11.1 identifies the NFS senior managerial positions and individuals that have been assigned the responsibilities of President, Discipline Vice President/Director, and Discipline Manager, as described in Chapter 2 within these functional discipline descriptions. Figure 11.1 shows the NFS functional organization as it existed at the end of the most recent calendar year. Table 11.1 provides a cross-reference between the functional positions described in Figure 11.1, the NFS organizational position responsible for each function, and the individuals currently assigned responsibility for each function. The qualifications for the individuals provided in Table 11.1 are included in Appendix A of this chapter.

**11.1.1 Production**

The Production Discipline is responsible for production related activities involving the handling and processing of special nuclear material, including developing operating procedures and maintaining facilities and equipment in a safe operating condition. This function includes activities associated with product research and development, research and development laboratory operations, analytical laboratory operations, maintenance, enriched uranium processing, transportation and waste management, and nuclear fuel production equipment installation and start-up. This function manages a majority of the hourly work force, and has line management responsibility for implementation of the safety programs and systems for conducting an active ALARA Program.

**11.1.2 Decommissioning**

The Decommissioning Discipline develops plans for the decommissioning of facilities and equipment, writes and obtains approval of procedures to conduct decommissioning, obtains any special equipment and/or facilities needed for decommissioning, and assures

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 11**

that decommissioning activities are conducted in accordance with approved documents and in the spirit and intent of ALARA.

**11.1.3 Engineering**

The Engineering Discipline designs and installs new and modified facilities and equipment; supplies process engineering and research and development support, and will assure that all equipment and facilities have appropriate safety controls and have been evaluated within the spirit and intent of ALARA. The Engineering Discipline has the overall responsibility and authority for the configuration management program.

**11.1.4 Safety**

The Safety Discipline provides programs, procedures, and reviews to oversee and assure site safety in the areas of nuclear criticality safety, radiation safety and protection, industrial safety, chemical safety, fire safety, environmental protection, and ALARA, and to monitor operations to ensure they are conducted in compliance with federal, state, and local regulations. The Safety Discipline is responsible for the Safety and Safeguards Review Council (SSRC).

**11.1.5 Material Control and Accountability**

The Material Control and Accountability Discipline maintains programs to assure that SNM is received, processed, stored, and transferred in accordance with federal regulations, and implements these functions through the areas of SNM safeguards, SNM accountability, shipping, receiving, and warehousing.

**11.1.6 Security**

The Security Discipline provides on-site security forces which control access to protected and material access areas; administers facility and personnel security clearance programs and protects against material and equipment theft and unauthorized personnel entry.

**11.1.7 Quality Assurance**

The Quality Assurance Discipline approves systematic programs for indoctrination and training of personnel performing quality-related safety activities, for specifying during the design phase the extent of quality assurance or confidence necessary for quality-related safety structures, systems, and components, and for validation of computer software used to calculate or develop data or process control of safety-related items.

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**

**SNM-124**

**CHAPTER 11**

**11.2 Functions of Key Personnel**

Key personnel are those individuals who are responsible for safety and for safe operation of the site. Key personnel include the president, the senior managers of the disciplines described in Section 11.1, and the individuals responsible for the safety functions described below. Company policy requires written delegation of authority when senior managers are unavailable to perform their duties. The emergency plan delineates responsible management personnel and reporting relationships for handling site emergency situations.

**11.2.1 President and/or CEO**

The president and/or CEO have overall responsibility for the safety, security, quality, and operational aspects of all activities conducted at the NFS site.

**11.2.2 Discipline Vice President/Director**

The discipline vice president/director functions have the delegated responsibility for plant safety and for compliance with conditions of this license and NRC regulations in order to maintain a safe work place for all employees.

The safety discipline vice president/director is responsible for ensuring that plant operations comply with all regulatory requirements of governmental agencies and good practices in the areas of safety, material control and accountability, security, and quality assurance.

The production discipline vice presidents/directors are responsible for the safe and efficient implementation of activities affecting site operations, including engineering, research and development, uranium operations, maintenance, decommissioning, transportation, waste management, training, and laboratory operations.

**11.2.3 Discipline Manager**

The discipline manager function is responsible for the safe operation, control, and quality of activities in their designated areas, and for the safety of the environs as influenced by the activities conducted therein. The discipline manager function establishes written operating procedures, incorporating safety and quality controls and limits commensurate with the particular operations involved. Discipline managers are assigned to each of the disciplines described in Section 11.1.

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**

**SNM-124**

**CHAPTER 11**

**11.2.4 Safety Functions**

The following sections describe the responsibilities of key personnel within the safety disciplines, specifically those individuals with responsibilities in the areas of licensing and compliance, nuclear safety, radiation safety and protection, environmental safety, industrial safety, chemical safety, and fire protection.

**11.2.4.1 Safety Discipline Manager**

The Safety Discipline Manager function has senior safety management responsibilities in the areas of radiation safety and protection, industrial safety, chemical safety, fire safety, environmental protection, nuclear criticality safety, and emergency preparedness, and for performance of safety and hazards analyses associated with new and re-started equipment, systems, and operations. The Safety Discipline Manager is responsible to ensure programs and procedures are developed and implemented to assure effective implementation of a safety program that is protective of the workers and the general public, that is in keeping with the ALARA principle, and which complies with the license and applicable federal, state, and local regulations. The safety discipline manager function is also a member of the Safety and Safeguards Review Council.

**11.2.4.2 Nuclear Safety**

The Nuclear Safety manager function oversees the performance of criticality safety analyses to establish safe batches, geometries, concentrations, and spacing of special nuclear materials and equipment. The Nuclear Safety manager function provides authoritative, professional advice and counsel to discipline managers on matters of control against accidental criticality, and develops and establishes a criticality safety control program and measures the effectiveness of the program by reviewing the application of methods and data to actual plant situations derived through audits and inspections. The Nuclear Safety manager function approves new and changed equipment and facilities with criticality safety implications during the design phase and the installation thereof prior to operation, and has responsibility for conducting educational programs in criticality control matters. Within this function, separate and independent dual criticality safety reviews of new and modified operations, equipment, and facilities are performed. The Nuclear Safety manager function has authority to immediately suspend any operation which involves nuclear safety practices believed to threaten the health and safety of employees or the public. The Nuclear Safety manager function reviews criticality safety analyses performed by junior and senior members of the function, and reports to the Safety Discipline Manager function.



[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 11**

**11.2.4.3 Nuclear Safety Senior Member**

The nuclear safety senior member is administratively free of production responsibilities and performs criticality safety analyses to establish safe batches, geometries, concentrations, and spacing of special nuclear materials and equipment. The nuclear safety senior member provides authoritative, professional advice and counsel to discipline managers on matters of control against accidental criticality, and performs inspections and audits of operations to determine compliance with operating procedures and the criticality safety limits and controls imposed therein. The nuclear safety senior member reviews criticality safety analyses performed by junior members of the function, instructs other members of the safety function in methods used in criticality safety audits and inspections and may serve as an ISA team member. The nuclear safety senior member function reports to the Nuclear Safety manager function.

**11.2.4.4 Nuclear Safety Junior Member**

The nuclear safety junior member is administratively free of production responsibilities and performs criticality safety analyses to establish safe batches, geometries, concentrations, and spacing of special nuclear materials and equipment. The criticality safety reviews performed by the nuclear safety junior member are reviewed by either the Manager or the Senior Member of the function. The nuclear safety junior member performs inspections of operations to determine compliance with operating procedures and the criticality safety limits and controls imposed therein and may serve as an ISA team member. The nuclear safety junior member reports to the Nuclear Safety manager function.

**11.2.4.5 Industrial Safety**

The Industrial Safety manager function is responsible for establishing safety programs for non-radiological hazards work place monitoring, including industrial safety, industrial hygiene, chemical safety, fire prevention and protection, and respiratory protection. The Industrial Safety manager function performs analyses of new, changed, or existing systems, equipment, and operations as they related to non-radiological hazards, and provides assistance in employee training in general safety and non-radiological material hazards matters. The Industrial Safety manager function reports to the Safety Discipline manager function.

An Industrial Safety specialist function supervises the conduct of the respiratory protection, fire protection, chemical safety, and industrial safety surveys, audits, inspections, and measurements. The Industrial Safety specialist function provides advice and counsel to discipline managers and their staffs on matters of industrial safety and control. The Industrial Safety specialist function performs inspections and audits of operations to determine compliance with the limitations and controls established for

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 11**

industrial safety purposes, and may serve as an ISA team member, providing fire protection and chemical safety expertise. The Industrial Safety specialist function reports to the Industrial Safety manager function.

**11.2.4.6 Health Physics**

The Health Physics manager function establishes a radiological safety program which includes formulation of radiation protection criteria; analyses of new, changed, or existing systems, equipment, and operations; and recommendations for improvements. Health Physics manager function is responsible for the ALARA program. The Health Physics manager function designs programs to gather timely information on the adequacy of material containment as it relates to contamination and airborne radiological hazards, and audits plant conformance with radiological safety criteria to assure compliance with the license and applicable state and federal regulations. The Health Physics manager function reports to the Safety Discipline manager function.

**11.2.4.7 Health Physicist**

The Health Physicist function performs radiation safety analyses and evaluations of processes and equipment within the facility. The Health Physicist function daily reviews radiation monitoring data and consults with the appropriate discipline managers' staffs on problem areas and the corrective action required, and provides authoritative, professional advice and counsel to discipline managers on matters of the control of radiation exposure. The Health Physicist function performs inspections and audits of operations to determine compliance with operating procedures and the controls established for radiation safety purposes, and serves as an ISA team member. The Health Physicist function reports to the Health Physics manager function.

**11.2.4.8 Radiation Monitoring**

The Radiation Monitoring manager function manages the radiation monitoring function and is responsible for implementing and overseeing the conduct of the radiation monitoring and surveillance program. The Radiation Monitoring manager function is responsible for ensuring that: qualified personnel are assigned to perform radiation surveys and that radiation monitoring and surveillance is conducted in accordance with approved procedures; radiation survey meters and counting instruments used in the radiation monitoring program are properly maintained and calibrated; and radiation monitoring records are properly maintained. The Radiation Monitoring manager function reports to the Health Physics manager function.

A Radiation Technician supervisor function is responsible for the assignment of technicians on each shift who conduct radiation measurements and surveys and perform scheduled safety inspections. The radiation technician supervisor function is responsible

[REDACTED]  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
**CHAPTER 11**

for the maintenance and calibration of radiation survey meters and counting instruments, and reports to the Radiation Monitoring manager function.


**11.2.4.9 Environmental Safety**

The Environmental Safety manager function establishes an environmental protection program which includes formulation of environmental protection criteria and a measurement system; analyzes new, changed, or existing systems, equipment, and operations as they related to gaseous or liquid effluents; and, provides and implements a liquid and gaseous effluent monitoring program. The Environmental Safety manager function audits conformance with environmental protection criteria; interprets and determines applicability of federal, state, and local regulations to plant operations with respect to environmental protection concerns; provides advice and counsel to discipline managers on environmental matters; and provides assistance in employee training in environmental matters. The Environmental Safety manager function reports to the Safety Discipline manager function.

An environmental scientist function is administratively independent of production responsibilities and performs analyses and evaluations of proposed changes in facility, process, or equipment changes as they relate to environmental protection. The environmental scientist function provides authoritative professional advice and counsel to discipline managers and their staffs on matters of environmental protection. The environmental scientist function performs reviews of environmental monitoring data to determine compliance with the limitations and controls established for regulatory compliance purposes, and may serve as an ISA team member. The environmental scientist function reports to the Environmental Safety manager function.

**11.2.5 Quality Assurance**










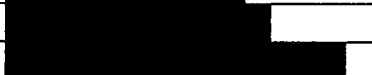





































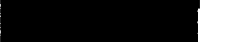
The Quality Assurance manager function is responsible for the management and implementation of the quality assurance program. The quality assurance program provides for the planning and accomplishment of quality-related safety activities under suitable controlled conditions, including the use of appropriate equipment, suitable environmental conditions for accomplishing the activity, and assurance that prerequisites for a given activity have been satisfied. The quality assurance organization oversees the quality assurance program to provide additional assurance that specified quality-related safety activity requirements have been met, accomplished through audits, surveillance, and assessment of quality-related safety activities. The Quality Assurance manager function has direct access to the President/Chief Executive Officer.

  
**SPECIAL NUCLEAR MATERIAL LICENSE**  
**SNM-124**  
CHAPTER 11

**11.3 Responsibilities, Education, and Experience of Key Personnel**



**Table 11.1**  
**Cross Reference of Functional Positions to NFS Organization and Individuals**

| Functional Position   | Responsible NFS Position*  | Responsible Individual*   |
|---|--|---|
|    |    |    |
|    |    |    |
|    |    |    |
|    |    |    |
|   |   |   |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |





[REDACTED]  
SPECIAL NUCLEAR MATERIAL LICENSE

SNM-124  
APPENDIX A  
CHAPTER 11

RESUMES

This information is "Official Use Only" and has been removed.