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21G-10-0015  
GOV-01-55-04  
ACF-10-0029  
January 27, 2010

Director, Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

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Contains **Circumvention of Statute**  
Information. Department of Energy approval  
required prior to public release  
Reviewed by: 

Reference: Docket No. 70-143; SNM-124

**Subject: Annual Update to Part II of SNM-124 Reflecting Changes Made During the Calendar Year 2009**

Pursuant to License Condition S-27, Nuclear Fuel Services, Inc. (NFS) hereby submits a copy of the Calendar Year 2009 Annual Update to Part II of the license (Reference), reflecting changes made during 2009. Revised pages to Part II of the license are provided in Attachment 1. Changes are denoted by vertical lines in the margin of affected pages and are summarized below.

License Condition S-27 also requires operational data on environmental releases to be updated. An Environmental Report was submitted on June 30, 2009, to support the Renewal of SNM-124, and it includes updated environmental monitoring data to reflect the time period from 2001 through 2008. Therefore, no further update will be incorporated for Appendix A to either Chapter 12 or 13, which previously contained similar information. In addition, NFS continues to submit, on a semi-annual basis, effluent monitoring reports as required by 10 CFR 70.59.

**Attachment 1 contains sensitive information, is marked "Official Use Only" in accordance with 5 U.S.C. 552, and is not suitable for public release. Attachment 2 contains a redacted version of Attachment 1 that is suitable for public release.**

**Summary of Changes to Part II**

Chapter 9 has been revised to update Table 9.1 to reflect amendments to the license which were issued by the NRC during the Calendar Year 2009 (Section A).

Chapter 11 has been revised to update Table 11.1 to reflect changes in personnel, and provide new resumes as necessary (Section A and Appendix A).

nuclear fuel services, inc., a subsidiary of The Babcock & Wilcox Company

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No changes were made to Chapters 10, 12, 13, 14, or 16.

The drawings enclosed herewith have the following statement affixed:

*"This drawing and all information contained herein is the property of Nuclear Fuel Services, Inc. and shall not be used or disclosed for any purpose other than that for which it has been furnished without the express written consent of NFS."*

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If you or your staff have any questions, require additional information, or wish to discuss this further, please contact me, or Mr. Rik Droke, Licensing and Compliance Director, at (423) 743-1741. Please reference our unique document identification number (21G-10-0015) in any correspondence concerning this letter.

Sincerely,

**NUCLEAR FUEL SERVICES, INC.**



David C. Ward

Interim Director of Safety and Regulatory

DMG/pdj  
Attachment

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Copy:

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**ATTACHMENT 2  
REDACTED VERSION**

**Changes to Part II of SNM-124 Reflecting Changes Made  
During Calendar Year 2009**

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Chapter 9  
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**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.

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**9.5 Location of Buildings on Site**

Locations of buildings on the NFS plant site are shown and 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.

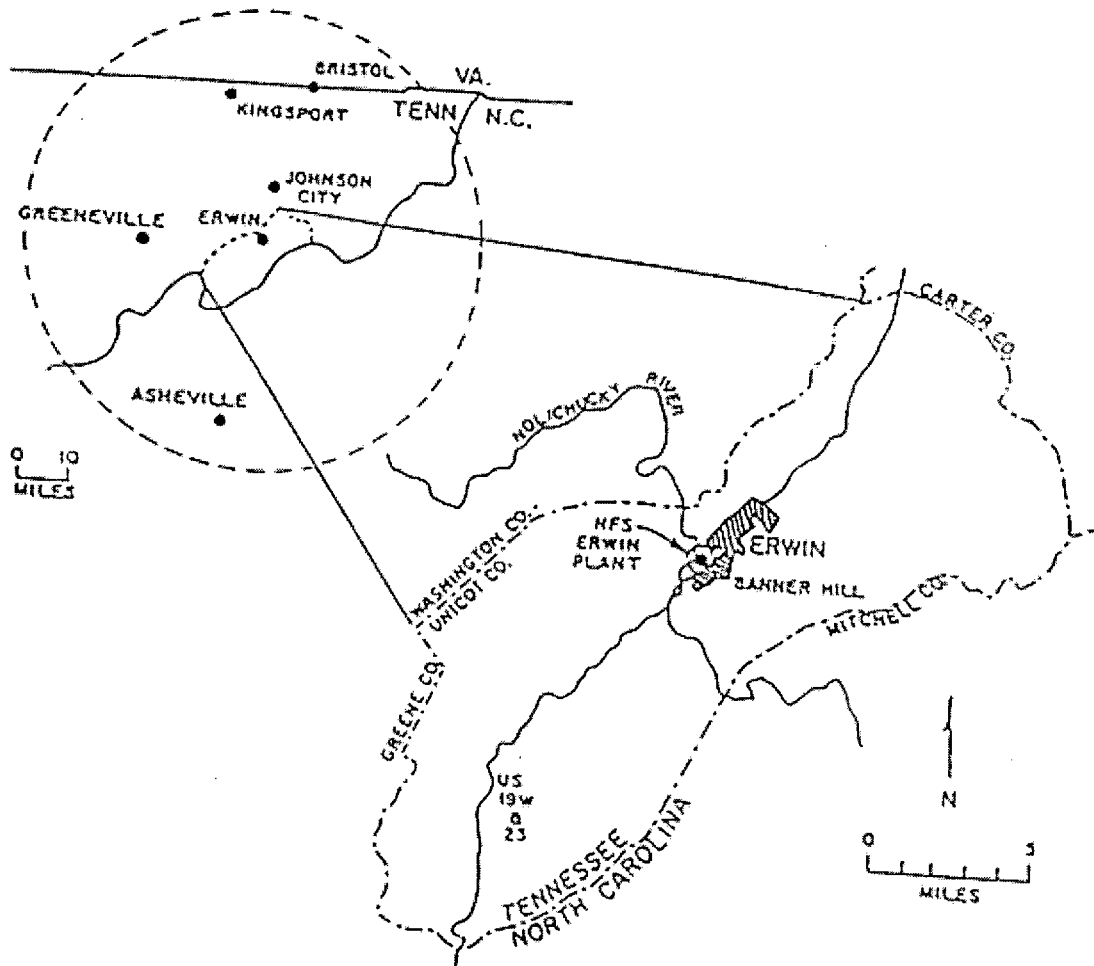
**9.7 License History**

The license history is shown in Table 9.1.



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



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**Figure 9.2**  
**Plant Layout and Property Boundaries**

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

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**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

  
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Amendment Number	Subject	Effective 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

  
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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

  
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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

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**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 current NFS functional organization. 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, process engineering, 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,

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obtains any special equipment and/or facilities needed for decommissioning, and assures 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 maintenance and process engineering 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 is responsible for configuration management.

#### **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.



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#### **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, and material control and accountability.

The production discipline vice presidents/directors are responsible for the safe and efficient implementation of activities affecting site operations, including quality assurance, security, engineering, research and development, uranium operations, maintenance, decommissioning, transportation, waste management, training, and laboratory operations. The production discipline vice president has the overall responsibility and authority for the configuration management program.

##### **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.

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#### **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.

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#### **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

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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

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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.

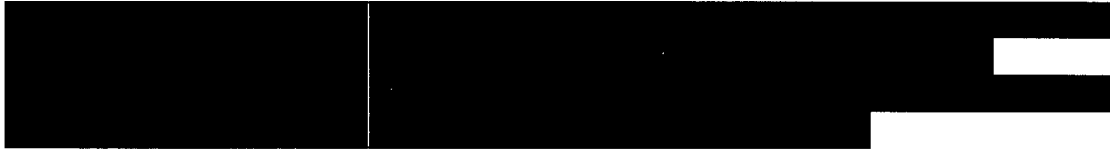
An environmental scientist function is administratively independent of production responsibilities and performs analyses and evaluations of proposed changes in facility, process, or equipment changes as they relate to environmental protection. The environmental scientist function provides authoritative 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.

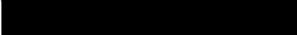
  
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**11.3 Responsibilities, Education, and Experience of Key Personnel**



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

Functional Position	Responsible NFS Position*	Responsible Individual*
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]

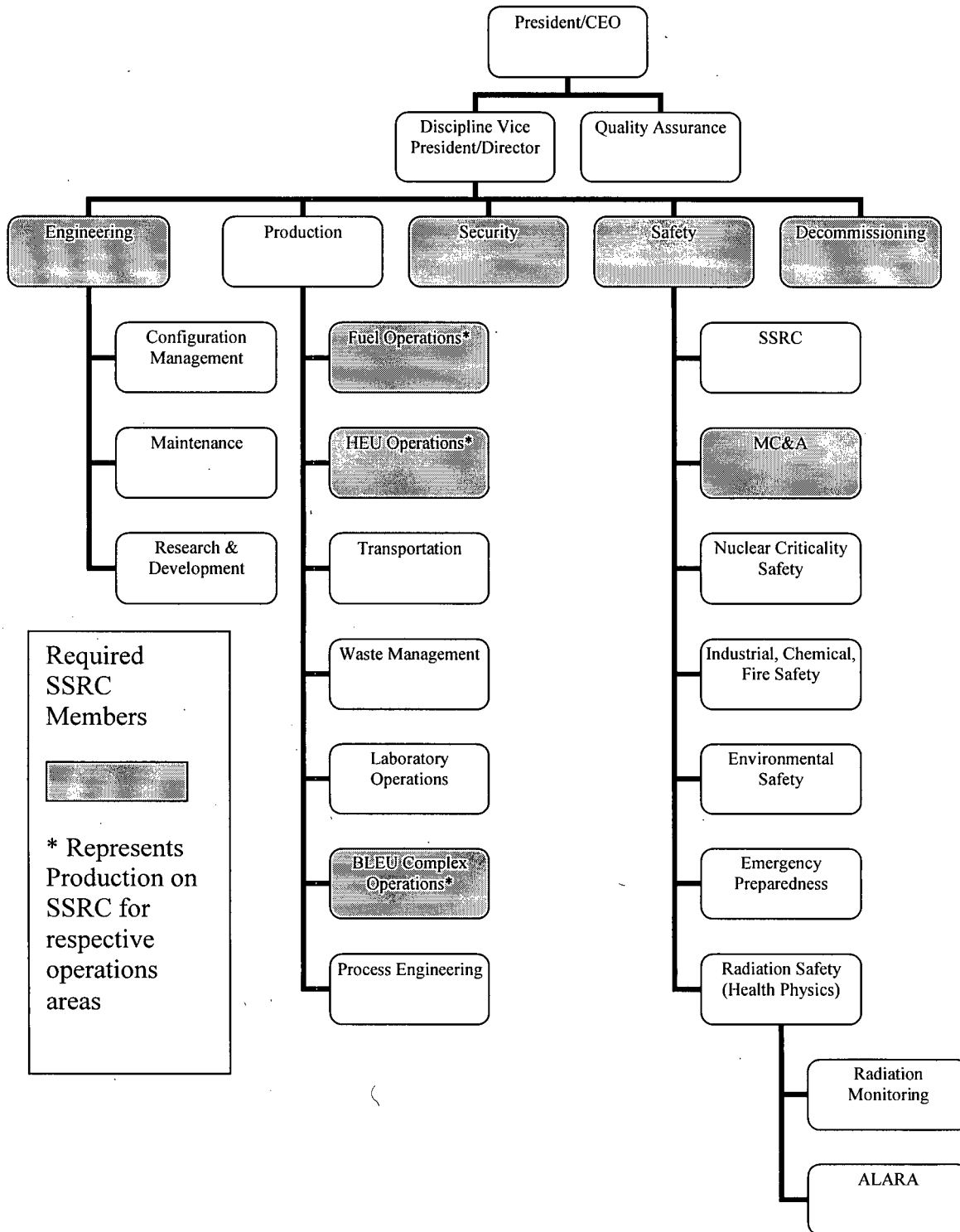
  
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Functional Position	Responsible NFS Position*	Responsible Individual*
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]

\* Some NFS positions and/or individuals may be responsible for more than one functional position.

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**Figure 11.1: Functional Organization Chart**





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RESUMES

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**ATTACHMENT 1**

**Changes to Part II of SNM-124 Reflecting Changes Made  
During Calendar Year 2009**

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