

PLANS AND SCHEDULES FOR REVISING NNSA HEADQUARTERS FRAM, SAFETY-RELATED ORDERS, STANDARDS AND DIRECTIVES, AND SUPPLEMENTAL DIRECTIVES ISSUED BY FORMER OPERATIONS OFFICES

1. Background

In a letter of December 8, 2003, to NNSA Administrator, the Defense Nuclear Safety Board (DNFSB) acknowledged that NNSA had completed its HQs FRAM and had directed the Site Offices to develop their FRAMs by February 4, 2004. The letter went on to note that many Orders, Directives, Standards, Supplemental Directives and Site Office procedures have been issued to help ensure the safe operation of NNSA's defense nuclear facilities. Although some of these documents have been or are being revised, many others have not been modified to reflect current roles and responsibilities within NNSA.

The DNFSB requested NNSA to include a plan and schedule for reviewing, as necessary, Safety-Related Orders, Standards, Supplemental Directives and Site Office procedures when forwarding the Site Office FRAMS. In a letter of March 25, 2004, the Deputy Administrator for Defense Programs committed to provide the requested information by May 28, 2004.

2. Plans and Schedules

a. NNSA Headquarters FRAM.

The annual update of FRAM will be completed by October 15, 2004. The update will incorporate quality assurance and software quality assurance responsibilities and authorities to meet the requirements of Action 1.4.4 of the Quality Assurance Improvement Plan and Commitment 4.1.6 of the Implementation Plan for DNFSB Recommendation 2002-1. It will also incorporate all applicable responsibilities and authorities of DOE M 411.1C, Safety Management Functions, Responsibilities and Authorities Manual.

b. NNSA Headquarters Nuclear Explosive and Weapon Safety-Related Directives.

<u>Directive</u>	<u>Plan and Schedule</u>
DOE O 452.1C, Nuclear Explosive and Weapons Surety Program	In complex-wide review process (REVCOM). Projected issue date 09/04.
DOE O 452.2C, Safety of Nuclear Explosive Operations	Initial draft 05/04, REVCOM initiated 06/04, REVCOM closes 08/04. Projected issue date 10/04.
DOE STD-3015, Nuclear Explosive Safety Study Process	In complex-wide review process (REVCOM). Projected issue date 06/04.

QC-1, Rev. 10, Quality Criteria
DOE O 452.X, Management of the DOE
Nuclear Weapons Program and Nuclear
Weapons Complex

Issued March 5, 2004.
In complex-wide review process
(REVCOM). Projected issue date 09/04.

c. DOE Orders and Directives of interest to DNFSB.

The Orders and Directives, listed below, will be reviewed against the NNSA FRAM to identify any inconsistencies. Based on the results of the review, we will make recommendations by October 15, 2004, to the Offices of Primary Interest to make appropriate revisions to the Orders and Directives.

Orders of Interest to the Board

Current as of March 26, 2004

Group 1. Currently Active Orders

Order Number	Title
O151.1B	Comprehensive Emergency Management System
O225.1A	Accident Investigations
O231.1A	Environment, Safety, and Health Reporting
O251.1A	Directives System
O252.1	Technical Standards Program
O341.1	Federal Employee Health Services
O360.1B	Federal Employee Training
O413.3	Program and Project Management for the Acquisition of Capital Assets
O414.1A Chg 1	Quality Assurance
O420.1A	Facility Safety
O425.1C	Startup and Restart of Nuclear Facilities
O430.1B	Real Property Asset Management
O433.1	Maintenance Management Program for DOE Nuclear Facilities
O435.1 Chg 1	Radioactive Waste Management
O440.1A	Worker Protection Management for DOE Federal and Contractor Employees
O442.1A	Department of Energy Employee Concerns Program
O450.1	Environmental Protection Program
O451.1B Chg 1	National Environmental Policy Act Compliance Program
O452.1B	Nuclear Explosive and Weapon Surety Program
O452.2B	Safety of Nuclear Explosive Operations
O460.1B	Packaging and Transportation Safety
O460.2, Chg 1	Departmental Materials Transportation and Packaging Management
O461.1	Packaging and Transfer or Transportation of Materials of National Security Interest
O470.2B	Independent Oversight and Performance Assurance Program
O473.1	Physical Protection Program

O474.1A	Control and Accountability of Nuclear Materials
O541.1A	Appointment of Contracting Officers and Contracting Officer's Representatives
O5400.5, Chg 2	Radiation Protection of the Public and the Environment
O5480.4, Chg 4	Environment Protection, Safety, and Health Protection Standards
O5480.19, Chg 2	Conduct of Operations Requirements for DOE Facilities
O5480.20A, Chg 1	Personnel Selection, Qualification, Training and Staffing Requirements at DOE Reactor and Non-Reactor Nuclear Facilities
O5480.30, Chg 1	Nuclear Reactor Safety Design Criteria
O5530.1A	Accident Response Group
O5530.2	Nuclear Emergency Search Team
O5530.3, Chg 1	Radiological Assistance Program
O5530.4	Aerial Measuring System
O5600.1	Management of the Department of Energy Weapon Program and Weapon Complex
O5660.1B	Management of Nuclear Materials

Group 2. National Nuclear Security Administration Policy Letters

Order Number	Title
TBD	Documents will be added to this table once the NNSA Policy Letter system is established.

Group 3. Archived or Deleted Orders That May Be Cited in Current Contracts

Order Number	Title
O210.1	Performance Indicators and Analysis of Operations Information
O232.1A	Occurrence Reporting and Processing of Operational Information
O1300.2A	Department of Energy Technical Standards Program
O1360.2B	Unclassified Computer Security Program
O1540.2, Chg 1	Hazardous Material Packaging for Transport - Administrative Procedures
O1540.3A	Base Technology for Radioactive Material Transportation Packaging Systems
O3790.1B	Federal Employee Occupational Safety and Health Program
O4330.4B	Maintenance Management Program
O4700.1	Project Management System
O4700.4	Project Manager Certification
O5000.3B, Chg 1	Occurrence Reporting and Processing of Operations Information
O5400.1	General Environmental Protection Program
O5400.2A, Chg 1	Environmental Compliance Issue Coordination
O5400.3	Hazardous and Radioactive Mixed Waste Program
O5400.4	Comprehensive Environmental Response, Compensation, and Liability Act Requirements

O5480.21	Unreviewed Safety Questions
O5480.22, Chg 2	Technical Safety Requirements
O5480.23, Chg 1	Nuclear Safety Analysis reports
O5440.1E	National Environmental Policy Act Compliance Program
O5480.1B, Chg 5	Environmental, Safety and Health Program for DOE Facilities
O5480.3	Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances, and Hazardous Wastes
O5480.5, Chg 2	Safety of Nuclear Facilities
O5480.6	Safety of Department of Energy-Owned Nuclear Reactors
O5480.7A	Fire Protection
O5480.8A, Chg 2	Contractor Occupational Medical Program
O5480.9A	Construction Safety and Health Program
O5480.10	Contractor Industrial Hygiene Program
O5480.11	Radiation Protection for Occupational Workers
O5480.15	Department of Energy Laboratory Accreditation Program for Personnel Dosimetry
O5480.17	Site Safety Representatives
O5480.18B	Nuclear Facility Training Accreditation Program
O5480.24	Nuclear Criticality Safety
O5480.25	Safety of Accelerator Facilities
O5480.26	Trending and Analysis of Operations Information Using Performance Indicators
O5480.28	Natural Phenomena Hazards Mitigation
O5480.29	Employee Concerns Management System
O5480.31	Startup and Restart of Nuclear Facilities
O5481.1B, Chg 1	Safety Analysis and Review System
O5482.1B, Chg 1	Environment, Safety, and Health Appraisal Program
O5483.1A	Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned Contractor-Operated Facilities
O5484.1B	Environmental Protection, Safety and Health Protection Information Reporting Requirements
O5500.1B	Emergency Management System
O5500.2B, Chg 1	Emergency Categories, Classes, and Notification and Reporting Requirements
O5500.3A, Chg	Planning and Preparedness for Operational Emergencies
O5500.4A	Public Affairs Policy and Planning Requirements for Emergencies
O5500.7B	Emergency Operating Records Protection Program
O5500.10	Emergency Readiness Assurance Program
O5610.10	Nuclear Explosive and Weapon Safety Program
O5610.11	Nuclear Explosive Safety
O5610.12	Packaging and Offsite Transportation of Nuclear Components, and Special Assemblies Associated with the Nuclear Explosive and Weapon Safety Program
O5632.1C	Protection and Control of Safeguards and Security Interests
O5632.11	Physical Protection of Unclassified Irradiated Reactor Fuel in Transit
O5700.6C, Chg 1	Quality Assurance
O5820.2A	Radioactive Waste Management
O6430.1A	General Design Criteria

Group 4. Related Documents Setting Forth Safety-Related Requirements

Document Number	Title
SEN-35-91	Nuclear Safety Policy
M140.1-1B	Interface with the Defense Nuclear Facilities Safety Board
P141.2	Public Participation and Community Relations
G151.1-1 series	Emergency Management Guide Volumes 1 through 7
G200.1-1 series	Software Engineering Methodology Guide Chapters 1 through 10
G225.1A-1	Implementation Guide for Use with DOE Order 225.1 Accident Investigations
M231.1-1, Chg 2	Environment, Safety and Health Reporting Manual
G231.1-1	Occurrence Reporting and Performance Analysis Guide
M231.1-2	Occurrence Reporting and Processing of Operations Information
G231.1-2	Occurrence Reporting Causal Analysis Guide
P251.1	Directives System Policy
M251.1-1A	Directives System Manual
G252.1-1	Technical Standards Program Guide
G341.1-1	Guide on Federal Employee Occupational Medical Programs
G341.1-2	Guide on Federal Employee Assistance Programs
M360.1-1B	Federal Employee Training Manual
P410.1A	Promulgating Nuclear Safety Requirements
N411.1	Safety Software Quality Assurance Functions, Responsibilities, and Authorities for Nuclear Facilities and Activities
P411.1	Safety Management Functions, Responsibilities, and Authorities Policy
M411.1-1C	Safety Management Functions, Responsibilities, and Authorities Manual
P413.1	Program and Project Management Policy for the Planning, Programming, Budgeting, and Acquisition of Capital Assets
M413.3-1	Project Management for the Acquisition of Capital Assets
G414.1-1A	Management Assessment and Independent Assessment Guide
G414.1-2	Quality Assurance Management System Guide for Use with 10 CFR 830.120 and DOE Order 414.1
G420.1-1	Nonreactor Nuclear safety Design Criteria and Explosive Safety Criteria Guide for Use with DOE Order 420.1 Facility Safety
G420.1-2	Guide for the Mitigation of Natural Phenomena Hazards for DOE Nuclear Facility and Non-Nuclear Facilities
G421.1-1 series	Criticality Safety Good Practices Program Guide for DOE Nonreactor Nuclear Facilities
G421.1-2	Implementation Guide for Use in Developing Documented Safety Analyses to Meet Subpart B of 10 CFR 830
G423.1-1	Implementation Guide for use in Developing Technical Safety Requirements
G424.1-1	Implementation Guide for use in Addressing Unreviewed Safety Question Requirements
P426.1	Federal Technical Capability Policy for Defense Nuclear Facilities

M426.1-1	Federal Technical Capability Manual
G426.1-1	Recruiting, Hiring, and Retaining High-Quality Technical Staff
P430.1	Land and Facility Use Planning
G430.1-2	Implementation Guide for Surveillance and Maintenance During Facility Transition Disposition
G430.1-3	Deactivation Implementation Guide
G430.1-4	Decommissioning Implementation Guide
G430.1-5	Transition Implementation Guide
G433.1-1	Nuclear Facility Maintenance Management Program Guide for Use with DOE Order 433.1
M435.1-1 Chg 1	Radioactive Waste Management Manual
G435.1-1 series	Implementation Guide for Use with DOE Manual 435.1-1 Chapters 1 through 4
M440.1-1	DOE Explosives Safety Manual
G440.1-1 series	Guides for Use with DOE Order 440.1 Volumes 1 through 7
P441.1	DOE Radiological Health and Safety Policy
G441.1-1 series	Guides for Use with 10 CFR 835 Volumes 1 through 13
G442.1-1	DOE Employee Concerns Program Guide
P450.1	Environment, Safety, and Health Policy for the Department of Energy Complex
G450.1-1 series	Implementation Guide for Use with DOE Order 450.1 Volumes 1, 4
P450.2A	Identifying, Implementing, and Complying with ES&H Requirements
P450.3	Authorizing Use of the Necessary and Sufficient Process for Standards-Based Environment, Safety and Health Management
M450.3-1	DOE Closure Process for Necessary and Sufficient Sets of Standards
G450.3-1 series	Documentation for Work Smart Standards Applications Volumes 1 through 3
P450.4	Safety Management System Policy
G450.4-1B series	Integrated Safety Management System Guide Volumes 1 through 2
P450.5	Line Environment, Safety and Health Oversight
P450.6	Secretarial Policy Statement on Environment, Safety, and Health
P454.1	Use of Institutional Controls
P455.1	Use of Risk-Based End States
G460.1-1 series	Implementation Guide for Use with DOE Order 460.1A, Packaging and Transportation Safety
G460.2-1	Implementation Guide for Use with DOE Order 460.2 Departmental Materials Transportation and Packaging Management
M460.2-1	Radioactive Material Transportation Practices Manual
M461.1-1	Packaging and Transfer of Materials of National Security Interest Manual
M474.1-1B	Manual for Control and Accountability of Nuclear Materials
M474.1-2A	Nuclear Materials Management and Safeguards System Reporting and Data Submission Manual
10 CFR 820	Procedural Rules for DOE Nuclear Activities
10 CFR 830, Subpart A	Quality Assurance Requirements
10 CFR 830, Subpart B	Nuclear Safety Management

10 CFR 835	Occupational Radiation Protection
48 CFR	Laws, Regulations, and DOE Directives
970.5204-2	
48 CFR	Conditional Payment of Fee, Profit, and other Incentives—Facility
970.5215-3	Management Contracts
48 CFR	Integration of Environment, Safety, and Health Into Work
970.5223-1	Planning and Execution
Various	DOE Handbooks and Technical Standards cited in Orders and related documents of interest to the Board as listed in the tables, above.

d. Supplemental Directives Issued by Former Operations Offices

The plans and schedules for dispositioning and/or revising former Oakland, Nevada, Oak Ridge and Savannah River supplemental directives are provided in the enclosures for Livermore, Nevada, Y-12 and Savannah River Site Offices. The plans and schedules for dispositioning former Albuquerque Operations Office supplemental directives are provided below in Section e.

e. Disposition of Former Albuquerque Operations Office (AL) Supplemental Directives, Manuals and Guides

Supplemental Directive, Manual, Guide	Site Office to Determine by July 30,2004								ADA for Program Integration (NA-13) Recommendations for Disposition by August 30, 2004	HQ/Site Office Disposition by December 3, 2004	Comments and Status
	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
AL M 140.1-1B (AIOrd, 12/01/2001) Interface with the Defense Nuclear Facilities Safety Board supplemental directive (SD) to DOE Manual 140.1-1B											
AL 2.QC (AIOrd, 02/22/1990) Quality Criteria Quality principles and criteria for research, design, development, and associated test activities within the nuclear weapons program											
AL 3790.1A (AIOrd, 01/05/1988) Federal Employee Occupational Safety and Health Program supplemental directive (SD) to DOE Order 3790.1A											
AL SD 414.1A (AIOrd, 06/27/2001) Corrective Action Tracking System Supplemental Directive (SD) to DOE Order 414.1A, QUALITY ASSURANCE (Attachment 2)											
AL 425.1A Rev 0 (AIOrd, 08/31/1999) Startup and Restart of AL ActivitiesThis SD replaces AL 425.1, Rev. 0, Startup and Restart of AL Facilities, dated April 1998. Supplemental Directive (SD) to DOE ORDER 425.1A											
AL 425.1B Rev 1 (AIOrd, 04/13/2001) Startup and Restart of AL Facilities/Activities Supplemental Directive (SD) to DOE O 425.1B											
AL 430.1 (AIOrd, 08/12/1996) Life-Cycle Asset Management Supplemental Directive (SD) to DOE Order 430.1, Life Cycle Asset Management (LCAM)											

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	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
AL G 442.1-1 (AIOrd, 03/16/1999) Employee Concerns Program Guide AL Guide for the Employee Concerns Program supplemental guide to DOE O 442.1											
AL 450.4-1A (AIOrd, 10/19/2000) Maintaining Approved Integrated Safety Management System Descriptions Supplemental Directive (SD) to DOE Policy 450.4, SAFETY MANAGEMENT SYSTEM POLICY											
AL 450.7 (AIOrd, 12/16/2001) The Safe Handling, Transferring, and Receiving of Etiologic Agents at Albuquerque Operations (AL) Contractor Facilities (AL Biosurety Program) Supplemental Directive (SD) establishes the Department of Energy (DOE)/National Nuclear Security Administration (NNSA)/Albuquerque Operations Office (AL) Biosurety Program and contractor requirements for the safe handling, transferring, and receiving of etiologic agents											
AL 452.1A (AIOrd, 05/10/1999) Nuclear Explosive and Weapon Surety Program Supplemental Directive (SD) includes clarifications, extra details, and additional requirements, in addition to those in DOE O 452.1A											

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	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
AL 452.1B (AIOrd, 11/01/2001) Nuclear Explosive and Weapon Surety Program establishes requirements and attendant roles and responsibilities applicable to the Department of Energy (DOE)/National Nuclear Security Administration (NNSA)/Albuquerque Operations Office (AL) activities necessary to implement DOE O 452.1B, Nuclear Explosive and Weapon Surety Program.											
AL 452.2A Chg 1 (AIOrd, 06/30/1999) Safety of Nuclear Explosive Operations Supplemental Directive (SD) includes clarifications, extra details, and additional requirements, in addition to those in DOE O 452.2A,											
AL 452.2B (AIOrd, 03/22/2002) Safety of Nuclear Explosive Operations Supplemental Directive (SD) establishes requirements and attendant roles and responsibilities applicable to the Department of Energy (DOE)/National Nuclear Security Administration (NNSA)/Albuquerque Operations Office (AL) activities necessary to implement DOE O 452.2B, Safety of Nuclear Explosive Operations.											
AL SD 452.4 (AIOrd, 06/28/2001) Control of Nuclear Explosives During Pantex Plant Operations Supplemental Directive (SD) provides additional requirements and attendant roles and responsibilities applicable to the Department of Energy (DOE)/National											

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Supplemental Directive, Manual, Guide	Site Office to Determine by July 30,2004								ADA for Program Integration (NA-13) Recommendations for Disposition by August 30, 2004	HQ/Site Office Disposition by December 3, 2004	Comments and Status
	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
Nuclear Security Administration (NNSA)/Albuquerque Operations Office (AL) activities necessary to implement DOE Order 452.4. SD establishes the processes for designing use control (UC) measures into Pantex Plant nuclear explosive operations, and for conducting Deliberate Unauthorized Use (DUU) evaluations of Pantex Plant operations											
AL 5400.2A (AIOrd, 07/13/1993) Environmental Compliance Issue Coordination Supplemental Directive (SD) to DOE Order 5400.2A, ENVIRONMENTAL COMPLIANCE ISSUE COORDINATION											
AL 56XB Rev 1 (AIOrd, 02/01/1992) Nuclear Weapon Development and Production establish policies and procedures for the development, production, modification, repair, stockpile support and retirement disposal of nuclear weapons											Rev 2 issued on March 31,2004. Rev 3 and 4 including new chapters from AL SDs and will be issued within 120 days after O452.1C and O 452.2C are

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Supplemental Directive, Manual, Guide	Site Office to Determine by July 30,2004								ADA for Program Integration (NA-13) Recommendations for Disposition by August 30, 2004	HQ/Site Office Disposition by December 3, 2004	Comments and Status
	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
AL 5610.12 (AIOrd, 08/17/1995) Packaging and Offsite Transportation of Nuclear Components, and Special Assemblies Associated with the Nuclear Explosive and Weapon Safety Program Supplemental Directive (SD) to the Department of Energy (DOE) Order 5610.12, PACKAGING AND OFFSITE TRANSPORTATION OF NUCLEAR COMPONENTS, AND SPECIAL ASSEMBLIES ASSOCIATED WITH THE NUCLEAR EXPLOSIVES AND WEAPON SAFETY PROGRAM											DOE O 461.1A Packaging and Transportation of Materials of National Security Interest issued on April 26, 2004
AL 5610.13 (AIOrd, 09/23/1991) Joint Department of Energy/Department of Defense Nuclear Weapon System Safety, Security, and Control Activities Supplemental Directive to the DOE Order 5610.13, JOINT DEPARTMENT OF ENERGY/DEPARTMENT OF DEFENSE NUCLEAR WEAPON SYSTEM SAFETY, SECURITY, AND CONTROL ACTIVITIES											Expect to be replaced by NNSA Policy letter, NNSA Nuclear Weapon System Safety, Security and Control (S2C) interface with Department of Defense.
AL 5610.14 Chg 1 (AIOrd, 12/15/1994). Transportation Safeguards System Program Supplemental Directive (SD) to DOE Order 5610.14, TRANSPORTATION SAFEGUARDS SYSTEM (TSS) PROGRAM OPERATIONS											DOE O 461.1A Packaging and Transportation of Materials of National Security Interest issued on April 26, 2004

e. Disposition of Former Albuquerque Operations Office (AL) Supplemental Directives, Manuals and Guides

Supplemental Directive, Manual, Guide	Site Office to Determine by July 30,2004								ADA for Program Integration (NA-13) Recommendations for Disposition by August 30, 2004	HQ/Site Office Disposition by December 3, 2004	Comments and Status
	If in Contract (Yes/No)				If in Use (Yes/No)						
	KCSO	LASO	PXSO	SSO	KCSO	LASO	PXSO	SSO			
AL 5650.2B Rev 2 (AIOrd, 07/05/1994) Identification of Classified Information Supplemental Directive (SD) implements and supplements DOE Order 5650.2B, IDENTIFICATION OF CLASSIFIED INFORMATION - procedures and responsibilities for managing the DOE programs to identify classified information, documents, or materials											
AL 57XB Rev 1 Chg 3 (AIOrd, 05/31/1994) Suspect Parts Plan Supplemental Directive (SD) describes the quality controls to be placed on General Operations Quality Assurance (QA) functions - to provide AL-wide guidance in an effort to eliminate and prevent introduction of counterfeit/suspect parts into AL's nonweapons equipment and facilities											