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# DEFENSE NUCLEAR FACILITIES SAFETY BOARD

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March 29, 2004

Mr. Mark B. Whitaker, Jr., DR-1  
Departmental Representative to the  
Defense Nuclear Facilities Safety Board  
Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585-1000

Dear Mr. Whitaker:

In March 2002, Matthew B. Moury transmitted to the Department of Energy (DOE) a list of DOE Orders of Interest to the Defense Nuclear Facilities Safety Board (Board). Since that time, a number of Orders have been revised, and pertinent new Directives have been identified as a result of reviews by the Board's staff. In view of these changes, it is appropriate to update the list of Orders of Interest to the Board as indicated in the enclosed tables.

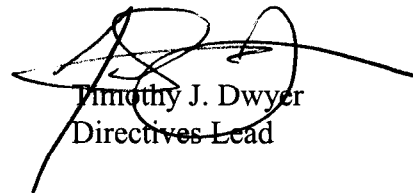
The enclosed list of Orders of Interest is divided into four groups: (1) currently active Orders; (2) a placeholder for the pending National Nuclear Security Administration Policy Letter system; (3) archived or deleted Orders that may still be cited in existing contracts; and (4) other documents setting forth safety-related requirements.

The list of Guides and Manuals cited in group (4) has been made more explicit in this update. However, as noted in previous correspondence, the Board remains interested in all associated documents, such as Standards, Handbooks, and other documents relevant to the identified Orders, since these documents clarify and expand upon the Orders. In addition, the Board is interested in specific documents that are not necessarily associated with hierarchical orders, such as DOE-STD-3013-2000 (Change Notice #1), *Criteria for Preparing and Packaging Plutonium Metals and Oxides for Long-Term Storage*, and DOE-STD-3009-94 (Change Notice #2), *Preparation Guide for U.S. DOE Nonreactor Nuclear Facility Safety Analysis Reports*.

As also noted in previous correspondence, the Orders identified in the archived list are still of interest to the Board, even though some of these Orders have been, or may be, cancelled or superseded by new Orders or Rules. The Board will continue to consider these to be Orders of Interest until all the contracts governing defense nuclear facilities that specify these Orders have been renegotiated, amended, or replaced by new contracts, resulting in appropriate incorporation of the new Orders.

If you have any questions or comments, please contact me at (202) 694-7148.

Sincerely,



Timothy J. Dwyer  
Directives Lead

Enclosure: as stated

## Orders of Interest to the Board

### Group 1. Currently Active Orders

Current as of March 26, 2004

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

## Orders of Interest to the Board

### Group 1. Currently Active Orders

Current as of March 26, 2004

Order Number	Title
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

**Orders of Interest to the Board**

**Group 2. National Nuclear Security Administration Policy Letters**

**Current as of March 26, 2004**

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

## Orders of Interest to the Board

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

Current as of March 26, 2004

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

## Orders of Interest to the Board

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

Current as of March 26, 2004

Order Number	Title
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 1	Planning and Preparedness for Operational Emergencies
O5500.4A	Public Affairs Policy and Planning Requirements for Emergencies

## Orders of Interest to the Board

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

Current as of March 26, 2004

Order Number	Title
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



## Orders of Interest to the Board

### Group 4. Related Documents Setting Forth Safety-Related Requirements

Current as of March 26, 2004

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

## Orders of Interest to the Board

### Group 4. Related Documents Setting Forth Safety-Related Requirements

Current as of March 26, 2004

Document Number	Title
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

## Orders of Interest to the Board

### Group 4. Related Documents Setting Forth Safety-Related Requirements

Current as of March 26, 2004

Document Number	Title
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

## Orders of Interest to the Board

### Group 4. Related Documents Setting Forth Safety-Related Requirements

Current as of March 26, 2004

Document Number	Title
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 970.5204-2	Laws, Regulations, and DOE Directives
48 CFR 970.5215-3	Conditional Payment of Fee, Profit, and other Incentives—Facility Management Contracts
48 CFR 970.5223-1	Integration of Environment, Safety, and Health Into Work 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.