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# DEFENSE NUCLEAR FACILITIES SAFETY BOARD

625 Indiana Avenue, NW, Suite 700, Washington, D.C. 20004  
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December 9, 1997

Mr. Mark Whitaker, S-3.1  
Departmental Representative to the  
Defense Nuclear Facilities Safety Board  
Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585-1000

Dear Mr. Whitaker,

This letter forwards the current list of Orders of Interest to the Defense Nuclear Facilities Safety Board (Board) in the following enclosed tables:

- Table 1 - Original List of 51 Orders of Interest to the Board,
- Table 2 - Additions to Original List of 51 Orders of Interest to the Board Due to Expanded Board Jurisdiction to Include Weapons Dismantlement/Fabrication Facilities, and
- Table 3 - Other Additions to Original List of Orders of Interest to the Board.

These tables identify only Orders. The Board is also interested in all the associated directives, such as Rules, Policies, Manuals, Guides, Standards, Handbooks, and other documents relevant to the identified Orders, since these documents clarify and expand upon the Orders proper. In addition, the Board is interested in specific directives system documents that are not necessarily associated with Department of Energy (DOE) Orders. An example is DOE-STD-3013, *Criteria for Preparing and Packaging Plutonium Metals and Oxides for Long-Term Storage*, which is a key element in DOE's Implementation Plan for Board Recommendation 94-1, providing vital requirements for the safe stabilization and storage of plutonium metal and oxide. However, this Technical Standard is not guidance for an Order and is, therefore, not in the Order hierarchy.

The old four-digit Orders provided in Tables 1 and 2 are still of interest to the Board, even though some of these Orders are intended by the DOE to be cancelled or superseded by the issuance of new three-digit Orders or Rules. The Board will continue to consider the old Orders of Interest until the current contracts wherein these Orders are still in force have been renegotiated, amended, or replaced by new contracts, resulting in appropriate incorporation of the new Orders.

Table 3 includes the new three-digit Orders of Interest to the Board that were identified through the Board's public meetings, ending in December 1996, as well as three additional Orders that have been identified through the Board's staff's ongoing reviews of directives system documents that are being coordinated through the Departmental Representative's Office. As the Department develops new or revised Orders and associated directives system documents, we expect to continue to receive these documents for review. Based on these reviews, appropriate additions will be made to the listing of Orders of Interest to the Board and these additions will be identified to DOE.

If you have any questions or comments, please contact me at (202) 208-6409.

Sincerely,

A handwritten signature in cursive script that reads "Ronald W. Barton". The signature is written in black ink and includes a long horizontal flourish extending to the right.

Ronald W. Barton  
DNFSB Directives Lead

Enclosures (3)

**Table 1**  
**Original List of 51 Orders of Interest to the Board**

| Order Number | Title                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| O1300.2A     | Department of Energy Technical Standards Program                                                                            |
| O1360.2B     | Unclassified Computer Security Program                                                                                      |
| O1540.2      | Hazardous Material Packaging for Transport - Administrative Procedures                                                      |
| O1540.3A     | Base Technology for Radioactive Material Transportation Packaging Systems                                                   |
| O4330.4B     | Maintenance Management Program                                                                                              |
| O4700.1      | Project Management System                                                                                                   |
| O5000.3B     | Occurrence Reporting and Processing of Operations Information                                                               |
| O5400.1      | General Environmental Protection Program                                                                                    |
| O5400.2A     | Environmental Compliance Issue Coordination                                                                                 |
| O5400.4      | Comprehensive Environmental Response, Compensation, and Liability Act Requirements                                          |
| O5400.5      | Radiation Protection of the Public and the Environment                                                                      |
| O5440.1E     | National Environmental Policy Act Compliance 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                                                                             |
| O5480.19     | Conduct of Operations Requirements for DOE Facilities                                                                       |
| O5480.1B     | Environment, Safety and Health Program for Department of Energy Operations                                                  |
| O5480.20A    | Personnel Selection, Qualification, Training and Staffing Requirements at DOE Reactor and Non-Reactor Nuclear Facilities    |
| O5480.21     | Unreviewed Safety Questions                                                                                                 |
| O5480.22     | Technical Safety Requirements                                                                                               |
| O5480.23     | Nuclear Safety Analysis Reports                                                                                             |
| 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                                                                                         |
| O5480.3      | Safety Requirements for the Packaging and Transportation of Hazardous Materials, Hazardous Substances, and Hazardous Wastes |
| O5480.30     | Nuclear Reactor Safety Design Criteria                                                                                      |
| O5480.31     | Startup and Restart of Nuclear Facilities                                                                                   |
| O5480.4      | Environment Protection, Safety, and Health Protection Standards                                                             |
| O5480.5      | Safety of Nuclear Facilities                                                                                                |
| O5480.6      | Safety of Department of Energy-Owned Nuclear Reactors                                                                       |
| O5480.7A     | Fire Protection                                                                                                             |
| O5480.8A     | Contractor Occupational Medical Program                                                                                     |

**Table 1**  
**Original List of 51 Orders of Interest to the Board**

| Order Number | Title                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------------|
| O5480.9A     | Construction Safety and Health Program                                                                                 |
| O5481.1B     | Safety Analysis and Review System                                                                                      |
| O5482.1B     | 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                              |
| O5500.10     | Emergency Readiness Assurance Program                                                                                  |
| O5500.1B     | Emergency Management System                                                                                            |
| O5500.2B     | Emergency Categories, Classes, and Notification and Reporting Requirements                                             |
| O5500.3A     | Planning and Preparedness for Operational Emergencies                                                                  |
| O5500.4A     | Public Affairs Policy and Planning Requirements for Emergencies                                                        |
| O5500.7B     | Emergency Operating Records Protection Program                                                                         |
| O5632.1C     | Protection and Control of Safeguards and Security Interests                                                            |
| O5700.6C     | Quality Assurance                                                                                                      |
| O5820.2A     | Radioactive Waste Management                                                                                           |
| O6430.1A     | General Design Criteria                                                                                                |

**Table 2**  
**Additions to**  
**Original List of 51 Orders of Interest to the Board**  
**Due to Expanded Board Jurisdiction to Include**  
**Weapons Dismantlement/Fabrication Facilities**

| Order Number | Title                                                                                                                                              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| O5530.1A     | Accident Response Group                                                                                                                            |
| O5530.2      | Nuclear Emergency Search Team                                                                                                                      |
| O5530.3      | Radiological Assistance Program                                                                                                                    |
| O5530.4      | Aerial Measuring System                                                                                                                            |
| O5600.1      | Management of the Department of Energy Weapon Program and Weapon Complex                                                                           |
| 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 |

**Table 3**  
**Other Additions to**  
**Original List of Orders of Interest to the Board**

| Order Number | Title                                                                 | Basis for Board Interest                                                                                                                                                                                                                                                                                                                |
|--------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O151.1       | Comprehensive Emergency Management System                             | Replaces significant elements of 5500 series of 4-digit orders (which are among the original 51) addressing Emergency Preparedness and response. Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                               |
| O210.1       | Performance Indicators and Analysis of Operations Information         | Replaces significant elements of 5480.26 (which is one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                                    |
| O225.1       | Accident Investigations                                               | Replaces significant elements of 5484.1 (which is one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                                     |
| O231.1       | Environment, Safety, and Health Reporting                             | Replaces significant elements of 5400.1; 5400.2A; 5400.5; 5440.1E; 5480.3; 5480.26; 5483.1A; 5484.1; 5630.12A; and 5634.1B (which are among the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                  |
| O232.1       | Occurrence Reporting and Processing of Operational Information        | Replaces significant elements of 5000.3B (which is one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                                    |
| O251.1       | Directives System                                                     | New Order covering the new "Directives System." Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                                                                |
| O252.1       | Technical Standards Program                                           | Replaces significant elements of 1300.2A (which is one of the original 51). Issued since 5/30/97, but clearly belongs on the expanded list.                                                                                                                                                                                             |
| O360.1       | Training                                                              | Replaces significant elements of 3410.1B (which was not on original list of 51); related to R93-3 and R93-5 issues).                                                                                                                                                                                                                    |
| O3790.1A     | Federal Employee Occupational Safety and Health Program               | Describes DOE OSHA-type Program.                                                                                                                                                                                                                                                                                                        |
| O420.1       | Facility Safety                                                       | Replaces significant elements of 5480.7A; 5480.24; 5480.28; and Division 13 of 6430.1A (which are among the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                      |
| O425.1       | Startup and Restart of Nuclear Facilities                             | Replaces significant elements of 5480.31 (which is one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                                    |
| O430.1       | Life Cycle Asset Management                                           | Replaces significant elements of 4330.4B; 4700.1; and 6430.1A (which are among the original 51); as well as 1332.1A; 4010.1A; 4300.1C; 4320.1B; 4320.4B; 4330.5; 4640.1C; 4700.3; 4700.4; and 5700.2D (none of which were on the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51. |
| O440.1       | Worker Protection Management for DOE Federal and Contractor Employees | Replaces significant elements of 5480.7A; 5480.8A; 5480.9A; 5480.10; and 5483.1A (which are among the original 51); as well as 3790.1B; and 5480.16A (neither of which were on original list of 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                           |

**Table 3**  
**Other Additions to**  
**Original List of Orders of Interest to the Board**

| Order Number | Title                                                          | Basis for Board Interest                                                                                                                                                                                                                    |
|--------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O451.1       | National Environmental Policy Act Compliance Program           | Replaces significant elements of 5440.1E (which is one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                        |
| O452.1       | Nuclear Explosive and Weapon Surety Program                    | Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                    |
| O452.2       | Safety of Nuclear Explosive Operations                         | Identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                                                    |
| O460.1A      | Packaging and Transportation Safety                            | Updates 460.1, which was identified during 5/30/97 public meeting as an order to be added to original list of 51.                                                                                                                           |
| O460.2       | Departmental Materials Transportation and Packaging Management | Replaces significant elements of 1540.2; and 1540.3A (which are among the original 51); as well as 1540.1A (which was not one of the original 51). Identified during 5/30/97 public meeting as an order to be added to original list of 51. |