

ES&H RESPONSIBILITIES

DATE: 11/14/2008

SUBJECT: FACILITY SAFETY

1. PURPOSE. This document addresses responsibility and accountability and provides administrative guidance to Oak Ridge Office (ORO).
2. APPLICABILITY. The provisions of this document apply to ORO Management and Principal Staff.
3. RESPONSIBILITIES.
 - a. Manager, ORO.
 - (1) Ensures that new and significant modifications of existing Hazard Category 1, 2, and 3 DOE nonreactor nuclear facilities and explosive facilities under his/her jurisdiction and their safety structures, systems, and components (SSCs) are designed and constructed so as to assure adequate protection for the public, workers, and the environment from nuclear and explosive hazards.
 - (2) Ensures that DOE nuclear and non-nuclear facilities under his/her jurisdiction are designed, constructed, maintained, modified, and operated so that the general public, workers, and the environment are protected from the impact of National Phenomena Hazards (NPHs).
 - b. Assistant Manager for Environment, Safety, and Health.
 - (1) Establishes and maintains this document that, along with DOE O 420.1B, and referenced standards and guidelines, form the infrastructure for ORO's Nuclear and Explosive Safety Design and NPH Mitigation Programs.
 - (2) Disseminates requirements, incidents, lessons learned, and applicable information generated by DOE Headquarters (HQ), other agencies, organizations, and facilities among ORO line organizations.
 - (3) Provides support in assessing DOE contractors' Nuclear and Explosive Safety Design and NPH Mitigation Programs and in overseeing their implementation, as requested by ORO line management.
 - (4) Provides support in reviewing facility and SSC designs, constructions, and operations, safety analyses, design bases, and other analyses, assessments, plans, specifications, procedures, etc., for conformance with DOE O 420.1B, applicable building codes, national consensus codes and standards, Executive Orders, contract requirements, safety basis requirements, and other system requirements, as requested by ORO line management.
 - (5) Provides support in determining the appropriate set of requirements for nuclear and explosive safety design, NPH mitigation, Directives, standards, and other requirements to be included in contracts, as requested by ORO line management.

ES&H RESPONSIBILITIES

DATE: 11/14/2008

- c. Assistant Manager for Environmental Management; Assistant Manager for Science; Assistant Manager for Nuclear Fuel Supply; and Assistant Manager for Administration.
 - (1) Ensures that DOE contractors under his/her jurisdiction design and construct new Hazard Category 1, 2, and 3 non-reactor nuclear facilities and explosive facilities and proposed significant modification to them in accordance with the design requirements outlined in DOE O 420.1B, and applicable references in Paragraph 4 of this document.
 - (2) Ensure that DOE contractors under his/her jurisdiction design, construct, maintain, modify, and operate their nuclear and non-nuclear facilities in accordance with the NPH mitigation design requirements specified in DOE O 420.1B, and other applicable documents referenced in Paragraph 4 of this document.

4. REFERENCES.

- a. Executive Order 12699, SEISMIC SAFETY OF FEDERAL AND FEDERALLY ASSISTED OR REGULATED NEW BUILDING CONSTRUCTION, dated January 5, 1990.
- b. Executive Order 12941, SEISMIC SAFETY FOR EXISTING FEDERALLY OWNED OR LEASED BUILDING, dated December 5, 1994.
- c. Executive Order 13286, AMENDMENT OF EXECUTIVE ORDERS, AND OTHER ACTIONS, IN CONNECTION WITH THE TRANSFER OF CERTAIN FUNCTIONS TO THE SECRETARY OF HOMELAND SECURITY, dated February 28, 2003.
- d. DOE G 420.1-1, NONREACTOR NUCLEAR SAFETY DESIGN CRITERIA AND EXPLOSIVES SAFETY CRITERIA FOR USE WITH DOE O 420.1, *FACILITY SAFETY*, dated March 28, 2000.
- e. DOE G 420.1-2, GUIDE FOR THE MITIGATION OF NATURAL PHENOMENA HAZARDS FOR DOE NUCLEAR FACILITIES AND NONNUCLEAR FACILITIES, dated March 28, 2000.
- f. DOE O 433.1, MAINTENANCE MANAGEMENT PROGRAM FOR DOE NUCLEAR FACILITIES, dated June 1, 2001.
- g. DOE O 440.1A, WORKER PROTECTION MANAGEMENT FOR DOE FEDERAL AND CONTRACTOR EMPLOYEES, dated March 27, 1998.
- h. DOE M 440.1-1A, DOE EXPLOSIVES SAFETY MANUAL, dated January 9, 2006.
- i. DOE 5480.20A, Change 1, PERSONNEL SELECTION, QUALIFICATION, AND TRAINING REQUIREMENTS FOR DOE NUCLEAR FACILITIES, dated July 12, 2001.
- j. DOE-STD-1020-2002, NATURAL PHENOMENA HAZARDS DESIGN AND EVALUATION CRITERIA FOR DEPARTMENT OF ENERGY FACILITIES, dated January 2002.

ES&H RESPONSIBILITIES

DATE: 11/14/2008

- k. DOE-STD-1022-94, Change Notice No. 1, Reaffirmed with Errata, NATURAL PHENOMENA HAZARDS CHARACTERIZATION CRITERIA, dated April 2002.
- l. DOE-STD-1023-95, Change Notice No. 1, Reaffirmed with Errata, NATURAL PHENOMENA HAZARDS ASSESSMENT CRITERIA, dated April 2002.
- m. DOE-STD-1073-2003, CONFIGURATION MANAGEMENT, dated October 2003.
- n. DOE-STD-3024-98, CONTENT OF SYSTEM DESIGN DESCRIPTIONS, dated October 1998.
- o. TM5-1300, STRUCTURES TO RESIST THE EFFECTS OF ACCIDENTAL EXPLOSIONS.
- p. DOE/TIC-11268, A MANUAL FOR THE PREDICTION OF BLAST AND FRAGMENT LOADING OF STRUCTURES.