

Management System Description: Environment Safety & Health

Subject Area: Packaging and Transportation Safety

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Issue Date: 08/03/2012

CBCMS Revision: Rev 0.0

1.0 Introduction

This subject area describes how Packaging and Transportation Safety activities supporting the Environmental Management Consolidated Business Center (EMCBC) Small Sites missions are performed in a safe and compliant manner. This subject area provides information regarding requirements for offsite shipment of radiological and hazardous materials and waste. It also provides guidance for performing oversight of contractor Packaging & Transportation Programs.

Each Department of Energy (DOE) Site/Project is required to be in compliance with Department of Transportation Regulations 49 CFR 171-180 and must comply with DOE Orders 460.1C and 460.2A. The Federal Regulation and DOE Orders provide the framework for ensuring the health and safety of workers, the public, and the environment as it relates to packaging and transportation safety. The objective of the Procedures is to achieve an effective integration of requirements into packaging and transportation management programs that provides appropriate, effective and efficient operations and use of resources.

Normally, EMCBC supported small Sites/Projects will ensure contractor compliance with packaging and transportation requirements through effective DOE oversight processes. EMCBC resources may be utilized to support the properly delegated line management oversight of DOE Site/Project Offices. In rare circumstances, the DOE line management may be required to implement special precautions during certain security conditions.

2.0 Contents

The table below represents specific Packaging and Transportation program elements that the EMCBC or the small Site/Project Field Element Manager or Federal Project Director may become involved with and defines EMCBC procedures that will be utilized to support small Sites/Projects in performing their packaging and transportation activities safely and effectively.

Procedure	Procedure Content
1. Procedure 1 , Approving	<ul style="list-style-type: none">• Process to perform oversight and if necessary, obtain

Contractor Packaging and Transportation Quality Assurance Programs	approval of contractor Packaging Quality Assurance and Transportation Programs.
2. Procedure 2 , Obtaining and Using Special Permits and Obtaining a Certification of Compliance (CoC) Packaging Approval from the DOE	<ul style="list-style-type: none"> • Process to obtain Department of Transportation (DOT) special permits. • Process to obtain DOE CoC.
3. Procedure 3 , Approving Radiological Material Shipments Under Security Conditions. (Contains OOU)	<ul style="list-style-type: none"> • Details how to obtain approval of specified radioactive and hazardous materials shipments under specific Security Condition (SECON) levels.

3.0 Exhibits and Forms

- [Federal Register, Volume 67, Number 31](#), “Advisory Notice: Enhancing the Security of Hazardous Materials in Transportation”, dated 2/14/2002

4.0 Related Information

- [DOE O 414.4.1D](#), Quality Assurance
- [DOE Guide 460.1-1](#), *Implementation Guide for Use with DOE 460.1A, Packaging and Transportation Safety*, and Attachments
- [DOE Manual 460.2-1A](#), *Radioactive Materials Transportation Practices Manual*
- RAMPAC (Radioactive Material Packaging) [Web Site](#)
- DOE Environmental Management Packaging & Transportation [Web Page](#).
- [Updated Environmental Management Headquarters Notification and Oversight Procedure](#)
- [Memorandum](#), EM DAS for Safety Management & Operations , Transportation Compliance Reviews dated 3/25/2009

5.0 Requirements

Document	Title
10 CFR 71	Packaging and Transportation of Radioactive Material
10 CFR 830	Nuclear Material Safety
49 CFR 105	Transportation; Hazardous Material Program Definitions and General Procedures
49 CFR 106	Transportation; Rulemaking Procedures
49 CFR 107	Transportation; Hazardous Materials Program Procedures
49 CFR 130	Transportation; Oil Spill Prevention and Response Plans
49 CFR 171	Transportation; General Information, Regulations and Definitions
49 CFR 172	Transportation; Hazardous Materials Table, Special provisions, Hazardous Materials Communications Emergency Response Information, Training Requirements and Security Plans
49 CFR 173	Transportation; Shippers--General Requirements for Shipments and Packaging's
49 CFR 174	Transportation; Carriage by Rail
49 CFR 175	Transportation; Carriage by Aircraft
49 CFR 176	Transportation; Carriage by Vessel
49 CFR 177	Transportation: Carriage by Public Highway
49 CFR 178	Transportation: Specifications for Packaging's
49 CFR 179	Transportation: Specifications for Tank Cars
49 CFR 180	Transportation: Continuing Qualification and Maintenance of Packaging's
49 CFR 350-397	Federal Motor Carrier Safety Regulations
DOE O 150.1	Continuity Programs

DOE O 151.1C	Comprehensive Emergency Management System
DOE O 226.1B	Implementation Of Department Of Energy Oversight Policy
DOE P 226.1B	Department Of Energy Oversight Policy
DOE O 227.1	Independent Oversight Program
DOE O 414.1D	Quality Assurance
DOE M 441.1-1	Nuclear Material Packaging Manual
DOE 460.1C	Packaging and Transportation Safety
DOE 460.2A	Departmental Materials Transportation and Packaging Management
DOE O 470.4B	Safeguards & Security Programs
DOE O 471.3	Identifying and Protecting Official Use Only Information
DOE M 471.3-1	Manual for Identifying and Protecting Official Use Only Information
EM-QA-001	EM Quality Assurance Program (QAP)
NQA-1 2008 with Addenda thru 2009	ASME NQA-1-2008, Quality Assurance Requirements for Nuclear Facility Applications, and addenda through 2009
E.O. 13423	Strengthening Federal Environmental, Energy and Transportation Management
Memorandum	EM DAS for Safety Management & Operations , Transportation Compliance Reviews dated 3/25/2009

6.0 Definitions

None