TABLE OF CONTENTS

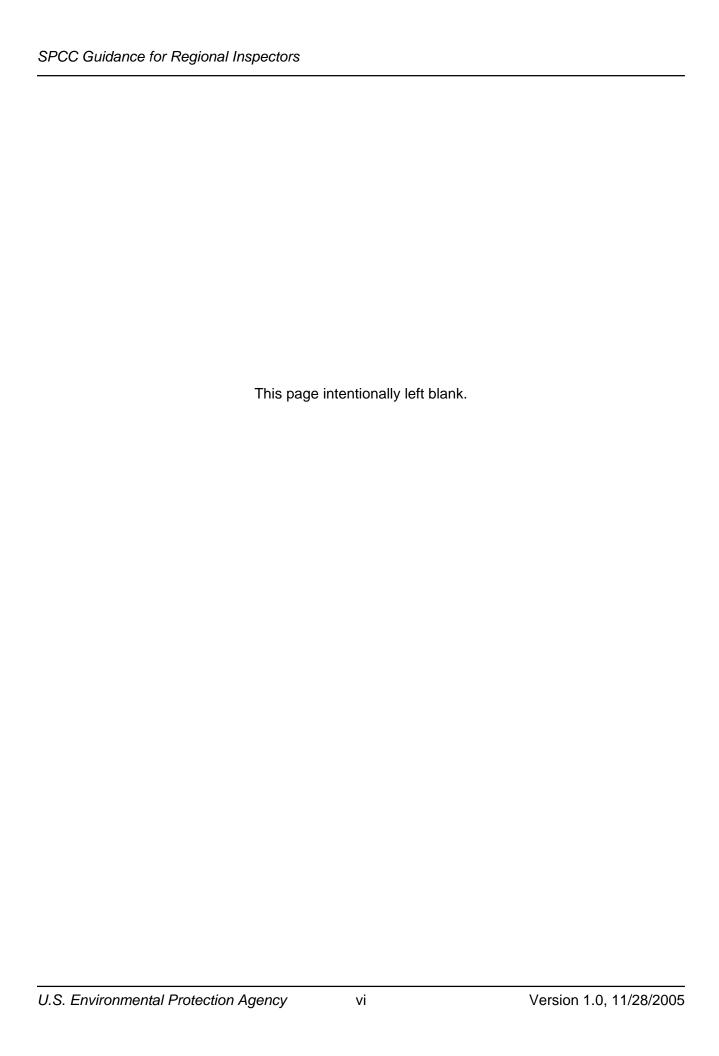
DISCLAIMERvi			
OIL PROGR	M CONTACTS	ix	
ACRONYMS	LIST	c iii	
INTRODUCT	ON 1	-1	
1.1	SPCC Background 1	J -1	
	1.1.1 Purpose and Scope		
	1.1.2 Statutory Framework		
1.2	Regulatory History 1		
	1.2.1 Initial Promulgation		
	1.2.2 SPCC Task Force and GAO Recommendations		
	1.2.3 Proposed Revisions		
	1.2.4 Final Rule Revision		
	1.2.5 Compliance Date Amendments		
1.3	Revised Rule Provisions		
	1.3.1 Rule Organization		
	1.3.2 Summary of Major Revisions		
1.4	Using This Guidance 1-	12	
APPLICABIL	TY OF THE SPCC RULE	2-1	
2.1	Introduction	2-1	
	2.1.1 Summary of General Applicability		
2.2	Definition of Oil and Activities Involving Oil		
	2.2.1 Animal Fats and Vegetable Oils		
	2.2.2 Synthetic Oils		
	2.2.3 Determination of "Oil" for Natural Gas and Hazardous Substances 2		
	2.2.4 Activities Involving Oil	2-5	
2.3	"Non-transportation-related" Facilities – EPA/DOT Jurisdiction	2-6	
	2.3.1 Definition of Facility	2-6	
	2.3.2 Determination of Transportation-related and Non-transportation-related		
		2-8	
	2.3.3 EPA/DOT Jurisdiction Scenarios	2-9	
2.4	Reasonable Expectation of Discharge to Navigable Waters in Quantities That		
	May Be Harmful 2-		
	2.4.1 Definition of "Discharge" and "Discharge as Described in §112.1(b)" 2-		
	2.4.2 Reasonable Expectation of Discharge 2-	13	

		2.4.3	Geographic Scope	2-14		
		2.4.4	Definition of "Navigable Waters"	2-15		
	2.5	Storag	je Capacity	2-16		
		2.5.1	Capacity Thresholds	2-16		
		2.5.2	Storage Capacity Calculation	2-16		
		2.5.3	Definition of Storage Capacity	2-17		
		2.5.4	Tank Re-rating	2-18		
	2.6	Exemp	otions to the Requirements of the SPCC Rule	2-18		
		2.6.1	Facilities Subject to Minerals Management Service Regulations			
		2.6.2	Underground Storage Tanks			
		2.6.3	Wastewater Treatment Facilities			
	2.7	Detern	nination of Applicability by the Regional Administrator	2-21		
	2.8	SPCC	Applicability for Different Types of Containers			
		2.8.1	Bulk Storage Container			
		2.8.2	Oil-filled Equipment			
	2.9		nination of Applicability of Facility Response Plans			
	2.10	Role o	f the EPA Inspector	2-25		
ENVIR	KONME	NIALE	QUIVALENCE	3-1		
	3.1	Introd	uction	3-1		
	3.2	Substa	antive Requirements Subject to the Environmental Equivalence			
		Provision				
	3.3	Policy	Issues Addressed by Environmental Equivalence			
		3.3.1	Security			
		3.3.2	Facility Drainage			
		3.3.3	Corrosion Protection and Leak Testing of Completely Buried Metallic Stor Tanks			
		3.3.4	Overfill Prevention	3-11		
		3.3.5	Piping	3-12		
		3.3.6	Evaluation, Inspection, and Testing			
	3.4	Review	v of Environmental Equivalence			
		3.4.1	SPCC Plan Documentation			
		3.4.2	Role of the EPA Inspector	3-19		
SECO	NDARY	CONT	AINMENT AND IMPRACTICABILITY DETERMINATIONS	4-1		
	4.1	Introdi	uction	4-1		
	4.2	Overview of Secondary Containment Provisions				
		4.2.1	General Secondary Containment Requirement			
		4.2.2	Specific Secondary Containment Requirements			
		4.2.3	Role of the EPA Inspector in Evaluating Secondary Containment			
			Methods	4-11		
		4.2.4	Sufficient Freeboard			

		4.2.5	Role of the EPA Inspector in Evaluating Sufficient Freeboard 4-1	16
		4.2.6	Passive versus Active Measures of Secondary Containment 4-1	16
		4.2.7	Role of the EPA Inspector in Evaluating the Use of Active Measures of Secondary Containment	20
		4.2.8	"Sufficiently Impervious"	22
		4.2.9	Role of the EPA Inspector in Evaluating "Sufficiently Impervious" 4-2	23
		4.2.10	Facility Drainage (Onshore Facilities)	25
		4.2.11	Role of the EPA Inspector in Evaluating Onshore Facility Drainage 4-2	27
	4.3	Overv	iew of the Impracticability Determination Provision 4-2	27
		4.3.1	Meaning of "Impracticable" 4-2	28
	4.4		ed Issues Related to Secondary Containment and Impracticability	
			ninations 4-2	
		4.4.1	General Secondary Containment Requirements, §112.7(c) 4-2	<u> 2</u> 9
		4.4.2	Secondary Containment Requirements for Loading/Unloading Racks, §112.7(h)(1)	33
		4.4.3	Secondary Containment Requirements for Onshore Bulk Storage	
			Containers, §112.8(c)(2)	38
		4.4.4	Secondary Containment Requirements for Mobile/Portable Containers, §112.8(c)(11)	39
		4.4.5	Secondary Containment Requirements for Bulk Storage Containers at Production Facilities, §112.9(c)(2)	‡C
		4.4.6	Secondary Containment Requirements for Onshore Drilling or Workover Equipment, §112.10(c)	11
	4.5	Measu	res Required in Place of Secondary Containment 4-4	12
		4.5.1	Integrity Testing of Bulk Storage Containers	12
		4.5.2	Periodic Integrity and Leak Testing of the Valves and Piping 4-4	13
		4.5.3	Oil Spill Contingency Plan and Written Commitment of Resources 4-4	13
		4.5.4	Role of the EPA Inspector in Reviewing Impracticability Determinations 4-4	ł5
OIL/\	WATER	SEPAR	ATORS 5-	-1
	5.1	Introd	uction 5	-1
	5.2	Overv	iew of Provisions Applicable to Oil/Water Separators 5-	-2
	5.3	Oil/Wa	ater Separators Used in Wastewater Treatment 5-	-5
		5.3.1	Description of Oil/Water Separator Use in Wastewater Treatment 5	-5
		5.3.2	Applicability of the SPCC Rule to Oil/Water Separators Used for Wastewater Treatment	
		5.3.3	Wastewater Treatment Exemption Clarification for Dry Gas Production Facilities	-8
	5.4		ater Separators Used To Meet SPCC Secondary Containment	
		•	rements 5	-8
		5.4.1	Description of Oil/Water Separators Used to Meet SPCC Secondary Containment Requirements	
			Applicability of the SPCC Rule to Oil/Water Separators Used to Meet Specific SPCC Secondary Containment Requirements	-6
	5.5	Oil/Wa	nter Separators Used in Oil Production	1

		5.5.1	Description of Oil/Water Separators Used in Oil Production	5-11
		5.5.2	Applicability of the SPCC Rule to Oil/Water Separators Used in Oil	
			Production	5-13
	5.6	Docui	mentation Requirements and the Role of the EPA Inspector	5-15
		5.6.1	Documentation by Owner/Operator	5-15
		5.6.2	Role of the EPA Inspector	5-16
FAC	ILITY D	IAGRAN	ns	6-1
	6.1	Introd	luction	6-1
		6.1.1	Purpose	6-1
		6.1.2	Requirements for a Facility Diagram	6-1
	6.2	Prepa	ring a Facility Diagram	6-2
		6.2.1	Level of Detail	6-3
		6.2.2.	Facility Description	6-3
		6.2.3	Oil Containers	6-3
		6.2.4	Mobile or Portable Containers	6-4
		6.2.5	Completely Buried Storage Tanks	
		6.2.6	Piping and Manufacturing Equipment	6-5
		6.2.7	Use of State and Federal Diagrams	
	6.3	Facili	ty Diagram Examples	
		6.3.1	Example #1: Bulk Storage and Distribution Facility	
		6.3.2	Example #2: Manufacturing Facility	
		6.3.3	Example #3: Oil Production Facility	
	6.4	Revie	w of a Facility Diagram	
		6.4.1	Documentation by Owner/Operator	
		6.4.2	Role of the EPA Inspector	6-16
INSF	PECTIO	N, EVAL	UATION, AND TESTING	7-1
	7.1	Introd	luction	7-1
	7.2	Inspe	ction, Evaluation, and Testing Under the SPCC Rule	
		7.2.1	Summary of Inspection and Integrity Testing Requirements	7-2
		7.2.2	Regularly Scheduled Integrity Testing and Frequent Visual Inspection	
			of Aboveground Bulk Storage Containers	
		7.2.3	Brittle Fracture Evaluation of Field-Constructed Aboveground Containers	
		7.2.4	Inspections of Piping	7-9
		7.2.5	Flowline Maintenance	
		7.2.6	Role of Industry Standards and Recommended Practices in Meeting SPC Requirements	
	7.3	Speci	fic Circumstances	7-16
		7.3.1	Aboveground Bulk Storage Container for Which the Baseline Condition Is Known	
		7.3.2	Aboveground Bulk Storage Container for Which the Baseline Condition Is	
			G	

		Known
	7.3.3	Deviation from Integrity Testing Requirements Based on Environmental Equivalence
	7.3.4	Environmental Equivalence Scenarios for Shop-Built Containers 7-20
7.	4 Docun	nentation Requirements and Role of the EPA Inspector 7-22
7.	5 Summ	ary of Industry Standards and Regulations
		API Standard 653 – Tank Inspection, Repair, Alteration, and Reconstruction
	7.5.2	STI Standard SP-001 – Standard for the Inspection of Aboveground Storage
		Tanks 7-27
	7.5.3	API Recommended Practice 575 – Inspection of Atmospheric and Low-Pressure Storage Tanks
	7.5.4	API Recommended Practice 12R1 – Recommended Practice for Setting, Maintenance, Inspection, Operation, and Repair of Tanks in Production Service
	7.5.5	API 570 – Piping Inspection Code: Inspection, Repair, Alteration, and Rerating of In-service Piping Systems
	7.5.6	API Recommended Practice 574 – Inspection Practices for Piping System Components
	7.5.7	API Recommended Practice 1110 – Pressure Testing of Liquid Petroleum Pipelines
	7.5.8	API Recommended Practice 579, Fitness-For-Service, Section 3 7-33
	7.5.9	API Standard 2610 – Design, Construction, Operation, Maintenance, and Inspection of Terminal & Tank Facilities
	7.5.10	ASME B31.3 – Process Piping
	7.5.11	ASME Code for Pressure Piping B31.4-2002 – Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
		DOT 49 CFR 180.605 – Requirements for Periodic Testing, Inspection, and Repair of Portable Tanks and Other Portable Containers
		FAA Advisory Circular 150/5230-4A – Aircraft Fuel Storage, Handling, and Dispensing on Airports
	7.5.14	FAA Advisory Circular 150/5210-20 – Ground Vehicle Operations on Airports
	7.5.15	Suggested Minimum Requirements for PE-Developed Site-Specific Integrity Testing Program (Hybrid Testing Program)
APPEND	ICES	
A	ppendix A	Text of CWA 311(j)(1)(c)
A	ppendix B	Select Regulations - 40 CFR part 109, 110, and 112
A	ppendix C	Summary of Revised Rule Provisions
A	ppendix D	Sample Bulk Storage Facility SPCC Plan
A	ppendix E	Sample Production Facility SPCC Plan
A	ppendix F	Sample Contingency Plan
A	ppendix G	SPCC Inspection Checklists
Δ.	ppendix H	Other Policy Documents

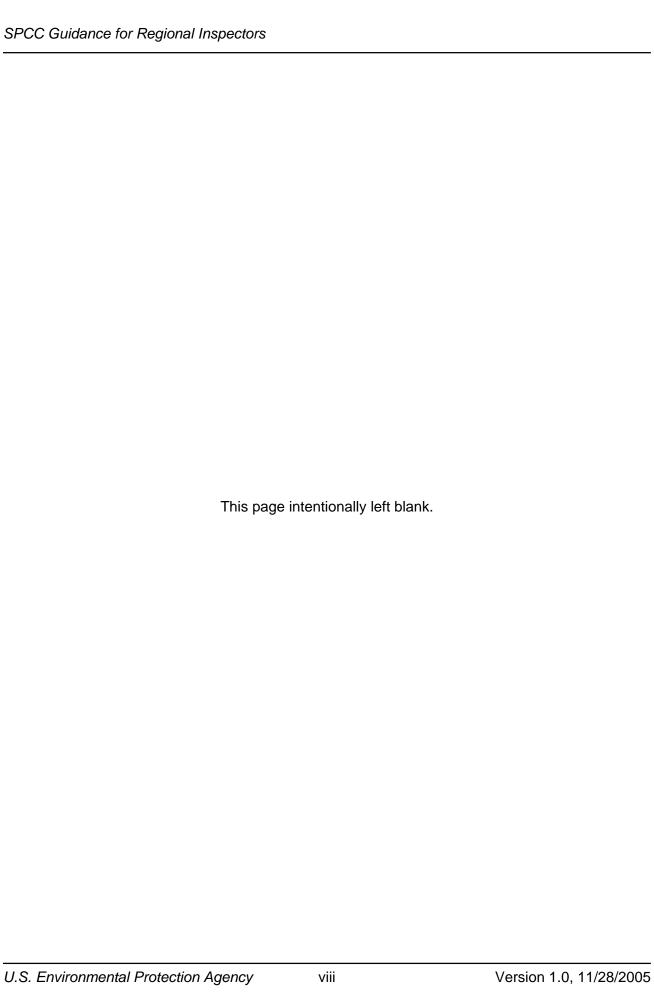


DISCLAIMER

This document provides guidance to EPA inspectors, as well as to owners and operators of facilities that may be subject to the requirements of the Spill Prevention, Control, and Countermeasure (SPCC) rule (40 CFR Part 112) and the general public on how EPA intends the SPCC rule to be implemented. The guidance is designed to implement national policy on these issues.

The statutory provisions and EPA regulations described in this guidance document contain legally binding requirements. This guidance document does not substitute for those provisions or regulations, nor is it a regulation itself. In the event of a conflict between the discussion in this document and any statute or regulation, this document would not be controlling. Thus, it does not impose legally binding requirements on EPA or the regulated community, and might not apply to a particular situation based upon the circumstances. The word "should" as used in this Guide is intended solely to recommend or suggest, in contrast to "must" or "shall" which are used when restating regulatory requirements. Similarly, model SPCC Plans in Appendices D, E, and F, as well as examples of SPCC Plan language in the guidance, are provided as suggestions and illustrations only. While this guidance document indicates EPA's strongly preferred approach to assure effective implementation of legal requirements, EPA decisionmakers retain the discretion to adopt approaches on a case-by-case basis that differ from this guidance where appropriate. Any decisions regarding a particular facility will be made based on the statute and regulations.

Interested parties are free to raise questions and objections about the substance of this guidance and the appropriateness of the application of this guidance to a particular situation. This guidance is a living document and may be revised periodically without public notice. This document will be revised, as necessary, to reflect any relevant future regulatory amendments. EPA welcomes public comments on this document at any time and will consider those comments in any future revision of this guidance document.



EPA OIL PROGRAM CONTACTS

For more information on the Spill Prevention, Control, and Countermeasure rule, or to contact U.S. EPA headquarters and regional offices about this guidance or related issues, please refer to the following contact information. Contact information is provided for the National Response Center, the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Superfund, TRI, EPCRA, RMP, and Oil Information Center

The Superfund, TRI, EPCRA, RMP and Oil Information Center is a publicly accessible service that provides up-to-date information on several EPA programs. The Information Center does not provide regulatory interpretations, but maintains up-to-date information on the availability of publications and other resources. The Information Center is open Monday – Friday from 9:00 a.m. - 5:00 p.m. Eastern Time (except federal holidays).

Toll free: (800) 424-9346 In the Washington, DC, area: (703) 412-9810 TDD (800) 553-7672 TDD in the Washington, D.C. area: (703) 412-3323

http://www.epa.gov/superfund/resources/infocenter/index.htm

U.S. EPA Headquarters

The EPA Office of Emergency Management (OEM) is responsible for EPA's emergency prevention, preparedness, and response duties, including the Oil Program.

Office of Emergency Management
Regulatory and Policy Development Division (RPDD)
Ariel Rios Building – Mail Code 5104A
1200 Pennsylvania Avenue
Washington, DC 20460
www.epa.gov/oilspill
oilinfo@epa.gov

U.S. EPA Regional Offices

The Oil Program is administered through EPA headquarters and the ten EPA regions, each of which is responsible for the execution of EPA programs within several states or territories. Contact information for each of the Regional Oil Programs follows.

Region 1 – CT, ME, MA, NH, RI, VT One Congress Street, Suite 1100 Boston, MA 02114-2023 Main Number: (617) 918-1111

Region 2 – NJ, NY, PR, USVI 2890 Woodbridge Avenue Building 209 (MS211) Edison, NJ 08837-3679 Main Number: (732) 321-6654 SPCC Coordinator: (732) 321-6654

Region 3 – DE, DC, MD, PA, VA, WV 1650 Arch Street (3HS32) Philadelphia, PA 19103-2029 Region 3 SPCC/FRP Hotline: 215-814-3452

Region 4 – AL, FL, GA, KY, MS, NC, SC, TN 61 Forsyth Street Atlanta, GA 30365-3415 Main Number: (404) 562-9900 SPCC Coordinator: (404) 562-8705

Region 5 – *IL, IN, MI, MN, OH, WI* 77 West Jackson Boulevard (SE-5J) Chicago, IL 60604-3590 Main Number: (312) 353-2000 SPCC Coordinator: (312) 886-7187

Region 6 – AR, LA, NM, OK, TX 1445 Ross Avenue (6SF-RO) Dallas, TX 75202-2733 Main Number: (214) 665-6444 SPCC Coordinators: (214) 665-6489, (214)665-2785 Region 7 – IA, KS, MO, NE Storage Tanks & Oil Pollution Branch 901 North 5th Street Kansas City, KS 66101 EPA Region 7 Operations Center (913) 551-7050 SPCC Coordinator: (913) 551-7647/ (913) 551-7960

Region 8 – CO, MT, ND, SD, UT, WY 999 18th Street, Suite 300 (8EPR-SA) Denver, CO 80202-2466 Main Number: (800) 227-8917 SPCC Coordinator: (303) 312-6496

Region 9 – AZ, CA, HI, NV, AS, GU 75 Hawthorne Street (SFD9-2) San Francisco, CA 94105 Main Number: (800) 231-3075 SPCC Coordinator: (415) 947-8000

Region 10 – AK, ID, OR, WA 1200 6th Avenue (ECL-116) Seattle, WA 98101 Main Number: (800) 424-4372 SPCC Coordinator: (206) 553-1671

Alaska

U.S. EPA Alaska Operations Office 222 West 7th Ave. #19 Anchorage, AK 99513-7588 SPCC Coordinator: (907) 271-5083

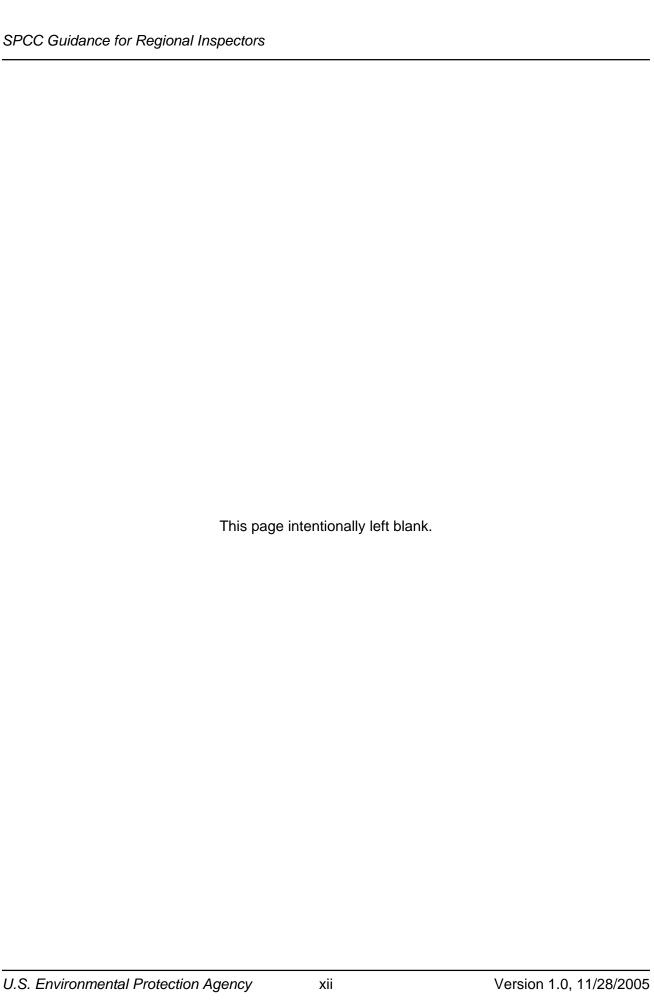
National Response Center

The National Response Center (NRC) is the sole federal point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. The NRC operates 24 hours a day, 7 days a week, 365 days a year.

United States Coast Guard (G-OPF) - Room 2611 2100 2nd Street, SW Washington, DC 20593-0001 (800) 424-8802 (202) 267-2675

> Fax: 202-267-1322 TDD: 202-267-4477

http://www.nrc.uscg.mil



ACRONYMS LIST

AC Advisory Circular

AFVO Animal Fat and/or Vegetable Oil
API American Petroleum Institute

ASME American Society of Mechanical Engineers
ASNT American Society for Non-Destructive Testing

AST Aboveground Storage Tank

ASTM American Society for Testing and Materials

BMP Best Management Practice

BOP Blowout Preventer

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

CRDM Continuous Release Detection Method

CWA Clean Water Act of 1972 (Federal Water Pollution Control Act)

DOI U.S. Department of Interior

DOT U.S. Department of Transportation

EO Executive Order

EORRA Edible Oil Regulatory Reform Act

E&P Exploration and Production

EPA U.S. Environmental Protection Agency
ERNS Emergency Response Notification System

FDA Food and Drug Administration
FAA Federal Aviation Administration

FR Federal Register

FRP Facility Response Plan
GAO General Accounting Office

GPR General Pretreatment Regulations

IBC Intermodal Bulk Container
ICP Integrated Contingency Plan

IM Intermodal

MIC Microbial Influenced Corrosion

MMS Minerals Management Service

MOU Memorandum of Understanding

NACE National Association of Corrosion Engineers

NCP National Contingency Plan

SPCC Guidance for Regional Inspectors

NDE Non-Destructive Examination

NFPA National Fire Protection Association

NRC National Response Center

NPDES National Pollutant Discharge Elimination System

OPA Oil Pollution Act of 1990

OSHA U.S. Occupational Safety and Health Administration

PE Professional Engineer

PMAA Petroleum Marketers Association of America

POTW Publicly Owned Treatment Work
PSM Process Safety Management

RA Regional Administrator
RBI Risk-Based Inspection
RP Recommended Practice

RCRA Resource Conservation and Recovery Act

RMS Release Management Systems

SCADA Supervisory Control and Data Acquisition

SPCC Spill Prevention, Control, and Countermeasure

STI Steel Tank Institute

SWANCC Solid Waste Agency of Northern Cook County

UIC Underground Injection Control

UL Underwriters Laboratory

USCG U.S. Coast Guard

UST Underground Storage Tank

UT Ultrasonic Thickness

UTS Ultrasonic Thickness Scans
UTT Ultrasonic Thickness Testing