

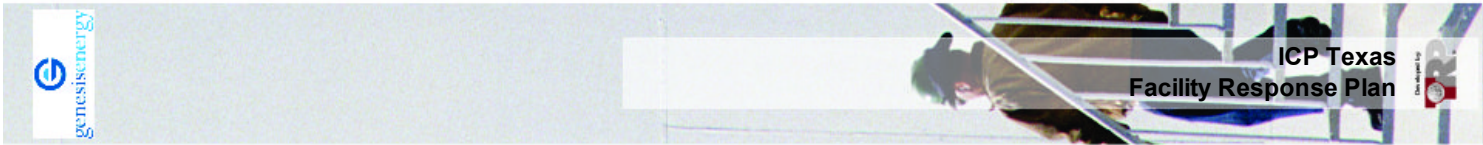


U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety Administration**

1200 New Jersey Avenue, S.E.
Washington, D.C. 20590

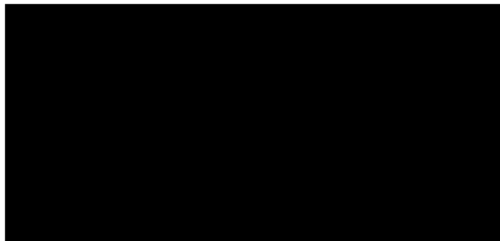
The following Oil Spill Response Plan has been submitted to the Department of Transportation (DOT) Pipeline Hazardous Materials Safety Administration (PHMSA) in HyperText Markup Language (HTML) format, and has since been converted to Portable Document Format (PDF) form. Any hyperlink included in the PDF file is NOT functional, and materials referenced in the links have been attached as an addendum at the end of the document.



The logo for Technical Response Planning Corporation is located at the top of the page. It features a blue background with a white silhouette of a person standing on a set of stairs. The text "TECHNICAL RESPONSE PLANNING" is written in a red, italicized, sans-serif font, and "CORPORATION" is written in a smaller, white, all-caps, sans-serif font below it.

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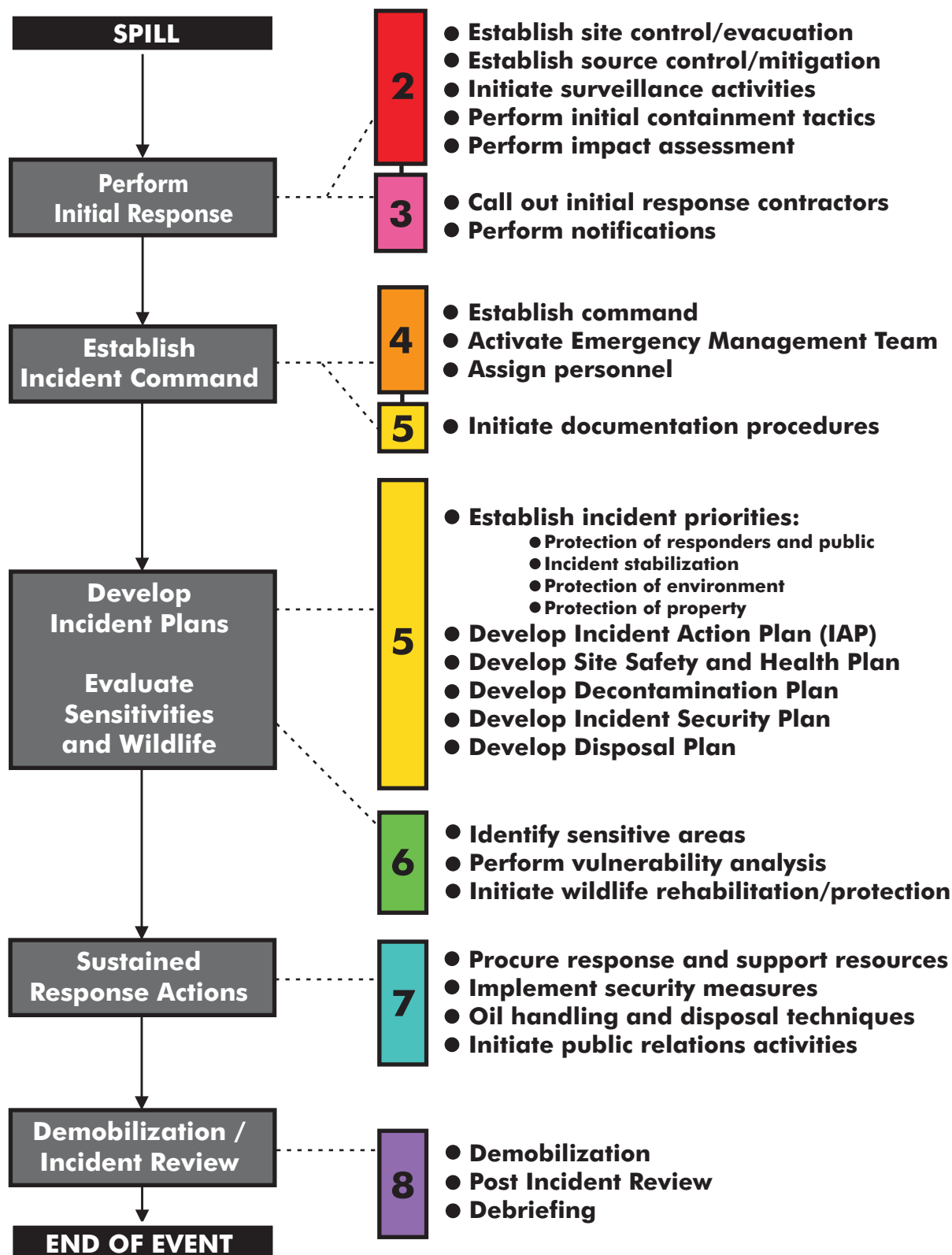
ICP Texas, TX Facility Response Plan

Developed by:






Response Procedures Flow Chart



1. Introduction

2. Initial
Response
Actions3. Notifications
Phone
Numbers4. Response
Team
Organization5. Incident
Planning6. Sensitive
Areas
Response Tactics7. Sustained
Response
Actions8. Demobilization
Post Incident
Review

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11/28/2011 11:33:44 AM	PHMSA F - Additional Information Additional Information	
12/2/2011 11:08:50 AM	PHMSA F - Additional Information Additional Information	
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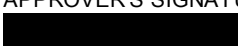
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2/9/2012 12:15:45 PM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Facility Response Team	
2/9/2012 3:20:25 PM	PHMSA 1 - Introduction 1.3 Certification of Adequate Resources	
5/21/2012 3:49:33 PM	PHMSA 1 - Introduction Figure 1-2 - Information Summary Line Sections	
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11/5/2012 8:08:37 AM	PHMSA 1 - Introduction Figure 1-1 - Distribution List	
11/6/2012 8:53:09 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	

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11/6/2012 8:55:07 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	
11/6/2012 8:56:04 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	
11/6/2012 8:56:24 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency	

	Response Personnel and Business Unit Notifications	
11/6/2012 8:56:41 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	
11/6/2012 8:56:51 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	
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11/6/2012 9:01:32 AM	PHMSA 3 - Notifications / Telephone Numbers 3.1 Emergency Information and Notification Procedures Figure 3.1-4 - Internal Notifications and Telephone Numbers Emergency Response Personnel and Business Unit Notifications	
11/6/2012 9:04:59 AM	PHMSA 3 - Notifications / Telephone	

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11/15/2012 3:27:08 PM	PHMSA Header	
6/4/2013 10:53:41 AM	PHMSA C - Hazard Evaluation and Risk Analysis C.4 Spill Volume Calculations	



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7/25/2013 1:42:51 PM	PHMSA 1 - Introduction Figure 1-2 - Information Summary Line Sections	
12/17/2013 9:04:33 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
12/17/2013 9:05:05 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
12/17/2013 9:46:51 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
12/17/2013 9:47:21 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
12/17/2013 9:47:55 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
12/17/2013 9:48:20 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.8 Pipeline Sensitivity Maps	
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	Locations	
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12/17/2013 9:59:59 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.6 Valve Locations	
12/17/2013 10:00:59 AM	PHMSA 6 - Sensitive Areas / Response Tactics 6.6 Valve Locations	

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2/7/2014 1:11:48 PM	PHMSA F - Additional Information Additional Information	

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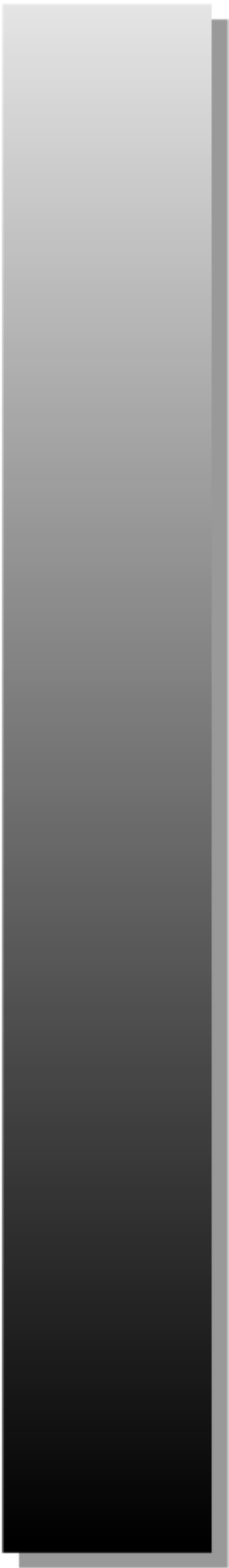
SECTION 1

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INTRODUCTION

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Figure 1-1 - Distribution ListFigure 1-2 - ICP Texas Information SummaryFigure 1-3 - ICP Texas Overview MapFigure 1-4 - Pipeline System Overview Map1.1 Purpose / Scope of Plan1.2 Plan Review and Update Procedure1.3 Certification of Adequate Resources1.4 Agency Submittal / Approval Letters



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FIGURE 1-1 - DISTRIBUTION LIST

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U.S. Department of Transportation - Office of Pipeline Safety Attn: Melanie Barber	1200 New Jersey Avenue, S.E. - Room 22-210 Washington, D.C. 20590	0		1	
U.S. EPA Region VI (6SF-RO), Attn: FRP Coordinator	1445 Ross Avenue Dallas, TX 75202-2733				
Texas Railroad Commission - Pipeline Safety Division Attn: Director Mary McDonald	P.O. Box 12967 Austin, TX 78711	0		1	
Mr. Steve Addkison, Texas Pipeline Manager	20004 Hwy 3 South Webster, TX 77598				
Michael A. Moore, VP/GM Pipelines and Transportation	Genesis Energy, L.P. 919 Milam St., Suite 2100				

	Houston, TX 77002				
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FIGURE 1-2 - INFORMATION SUMMARY

Owner/Operator:	Genesis Energy, L.P. 919 Milam, Suite 2100 Houston, TX 77002	
Owner/Operator Telephone/Fax:	(713) 860-2500 / (713) 860-2640	
Zone Name:	ICP Texas	
Zone Mailing Address:	17411 Village Green Dr. Houston, TX 77040	
Zone Telephone/Fax:	(713) 860-2754, (800) 806-5463, (800) 280-7076 (Control Center) / (713) 860-2775	
Qualified Individuals:		Work
	Steve Addkison Pipeline Operations Manager TX Local Responder Primary Qualified Individual (713) 860-2795 (Office) (832) 603-9937 (Mobile)	20004 Hwy 3 South Webster, TX. 77598
	Tom Boyd Pipeline Operations Manager (USA) MS Alternate Qualified Individual (601) 729-3587 (Office) (b) (6) (Home) (601) 319-4004 (Mobile)	1984 Highway 28 Taylorsville, MS 39168
	Clint Murray Port Hudson Supervisor (FSO) IC Alternate Qualified Individual (225) 654-0085 (Office) (b) (6) (Home) (225) 993-2364 (Mobile)	769 Port Hudson Cemetery Road Zachary, LA 70791

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FIGURE 1-2 - INFORMATION SUMMARY, CONTINUED

Line Sections/ Products Handled: (Refer to Product Characteristic and Hazards, FIGURE C.6-1)	SECTION	COUNTIES	PRODUCTS
	West Columbia to Webster: 8?		Crude Oil
	Webster to Texas City: 6? / 8? / 10? / 12?		Crude Oil
	Webster to Lyondell: 8?		Crude Oil
	Jacintoport: 4?		Natural Gas
	Parker County: 8?		Natural Gas
	Peveto: 3?		Natural Gas
	Texas City to Eastman: 12"		Crude Oil
	Webster to Texas City: 18"	Harris/Galveston	Crude Oil


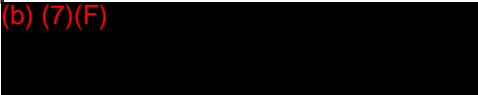
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FIGURE 1-2 - INFORMATION SUMMARY, CONTINUED

Description of Zone:	The pipeline carries Crude Oil in the areas shown in FIGURE 1-3 and FIGURE 1-4
Response Zone Consists of the Following Counties:	Texas: Brazoria, Galveston, Harris
Alignment Maps (Piping, Plan Profiles):	Maintained at: GeoFields on the Company Server
Worst Case Discharge:	(b) (7)(F) 
Spill Detection and Mitigation Procedures:	Refer to SECTION 2 and APPENDIX C .
Statement of Significant and Substantial Harm:	The response zones in this system all contain pipelines greater than 2 inches and are longer than ten miles. At least one section of pipeline in each response zone crosses a major waterway or comes within five miles of a public drinking water intake. Therefore, in accordance with 49 CFR 194.103(c), each entire response zone described in this Plan will be treated as if expected to cause significant and substantial harm.
PHMSA Approval#:	GTX1
Date Prepared:	

The information contained in this Plan is intended to be used as guidelines for the spill responder. Actual circumstances will vary and will dictate the procedures to be followed, some of which may not be included in this manual.

NOTE: For further information on the Qualified Individuals' training and qualifications, refer to **SECTION 4.5** and **APPENDIX A.2** in this Plan.

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Figure 1-3 - PHMSA Overview Map

[Click to view/print Line Segment Overview Map](#)

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FIGURE 1-4 - PIPELINE SYSTEM OVERVIEW MAP

[Click to view/print System Overview Map](#)


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1.1 PURPOSE / SCOPE OF PLAN

The purpose of this Spill Response Plan (Plan) is to provide guidelines to quickly, safely, and effectively respond to a spill. The Pipeline is owned and operated by Genesis Energy, L.P. , herein referred to as "Company."

This Plan is intended to satisfy the requirements of the Oil Pollution Act of 1990 (OPA 90), and has been prepared in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and applicable Area Contingency Plans (ACP), EPA Region VI Regional Contingency Plan, Houston/Galveston ACP (USCG). Specifically, this Plan is intended to satisfy:

- Pipeline and Hazardous Materials Safety Administration (PHMSA), U.S. Department of Transportation requirements for an OPA 90 plan (49 CFR 194)
- Occupational Safety and Health Administration (OSHA) requirements for emergency response plans (EAP and ERP) (29 CFR 1910)

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1.2 PLAN REVIEW AND UPDATE PROCEDURE

In accordance with 49 CFR Part 194.121, this Plan will be reviewed annually and modified to address new or different operating conditions or information included in the Plan. Upon review of the response plan for each five-year period, revisions will be submitted to PHMSA provided the changes to the current plan are needed, or a letter stating that the plan is still current. Company internal policy states that the Plan will be reviewed at least annually and modified as appropriate. In the event the Company experiences a Worst Case Discharge, the effectiveness of the plan will be evaluated and updated as necessary. If a new or different operating condition or information would substantially effect the implementation of the Plan, the Company will modify the Plan to address such a change and, within 30 days of making such a change, submit the change to PHMSA. Examples of changes in operating conditions that would cause a significant change to the Plan include:

CONDITIONS REQUIRING REVISIONS AND SUBMISSIONS	DOT
Relocation or replacement of the transportation system in a way that substantially affects the information included in the Plan, such as a change to the Worst Case Discharge volume.	x
A change in the type of oil handled, stored, or transferred that materially alters the required response resources.	x
A change in key personnel (Qualified Individuals).	x
A change in the name of the Oil Spill Removal Organization (OSRO).	x
Any other changes that materially affect the implementation of the Plan.	x
A change in the NCP or ACP that has significant impact on the equipment appropriate for response activities.	x

All requests for changes must be made through the Pipeline Manager and will be submitted to EPA by the Environmental Department.

The most current version of the plan is always the electronic copy. Revisions to the site-specific information are made through the password protected maintenance interface. The date at the beginning of each Section indicates the last date that Section was revised. Any revisions made after that date need to be reprinted and inserted in to the paper copy of the plan.

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1.3 CERTIFICATION OF ADEQUATE RESOURCES

CERTIFICATION



Pursuant to the Clean Water Act Section 311(j)(5)(F)

Genesis Energy, L.P.

The Genesis Energy, L.P. , hereby certify to the Research and Special Programs Administration of the Department of Transportation that they have obtained, through contract or other approved means, the necessary private personnel and equipment to respond, to the maximum extent practicable, to a worst case discharge or a substantial threat of such a discharge.




Michael A. Moore
Vice President and General Manager of Pipeline and Transportation, Incident
Commander (IC)

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1.4 AGENCY SUBMITTAL / APPROVAL LETTERS

No Files Uploaded

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SECTION 2

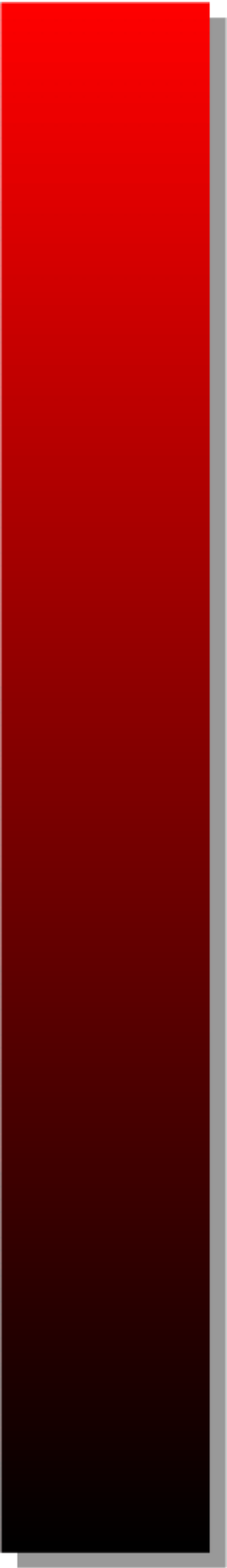
Last revised: February 2009


INITIAL RESPONSE ACTIONS

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Figure 2-1 - Initial Response Action ChecklistFigure 2-2 - Release Response Sequence**2.1 Spill/Release Response**Figure 2.1-1 - Spill/Release Response Action Checklist**2.1.1 Spill Detection and Mitigation Procedures**Figure 2.1-2 - Spill Mitigation Procedures**2.1.2 Spill Surveillance Guidelines**Figure 2.1-3 - Spill Surveillance Checklist**2.1.3 Spill Volume Estimating**Figure 2.1-4 - Spill Estimation Factors2.1.4 Estimating Spill Trajectories**2.1.5 Initial Containment Actions**2.1.6 Safety Considerations**2.2 Evacuation****Figure 2.2-1 - Evacuation Checklist****Figure 2.2-2 - Evacuation Response Sequence****Figure 2.2-3 - Evacuation Notifications Sequence****2.3 Tornado****Figure 2.3-1 - Tornado Checklist****Figure 2.3-2 - Tornado Response Sequence**

Figure 2.3-3 - Tornado Notifications Sequence



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SECTION 2

INITIAL RESPONSE ACTIONS, CONTINUED

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2.4 Hurricane

Figure 2.4-1 - Hurricane Checklist

Figure 2.4-2 - Hurricane Response Sequence

Figure 2.4-3 - Hurricane Notifications Sequence

Figure 2.4-4 - Genesis Pipeline USA, LP Phase Checklist

2.5 Flood

Figure 2.5-1 - Flood Checklist

Figure 2.5-2 - Flood Response Sequence

Figure 2.5-3 - Flood Notifications Sequence

2.6 Medical

Figure 2.6-1 - Medical Checklist

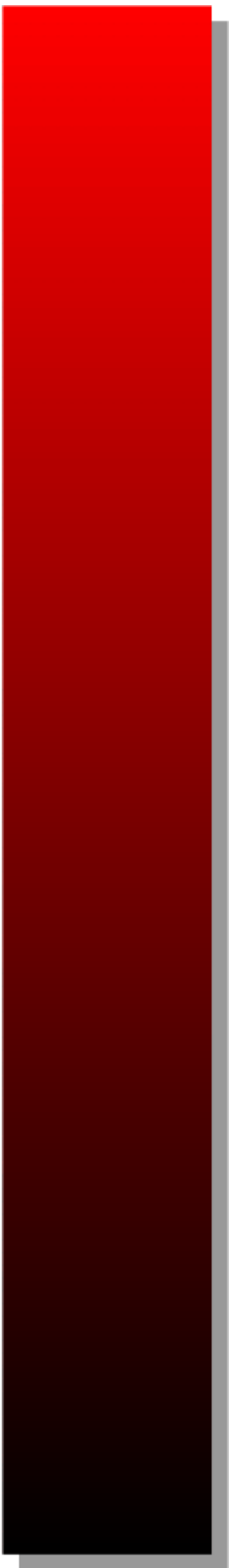
Figure 2.6-2 - Injury Response Sequence


Figure 2.6-3 - Injury Notifications Sequence

Figure 2.6-4 - Pandemic Influenza Checklist

Figure 2.6-5 - Pandemic Influenza Response Sequence

Figure 2.6-6 - Pandemic Influenza Notifications Sequence



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SECTION 2

INITIAL RESPONSE ACTIONS, CONTINUED

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2.7 Bomb Threat

Figure 2.7-1 - Bomb Threat Checklist

Figure 2.7-2 - Special Threat Call

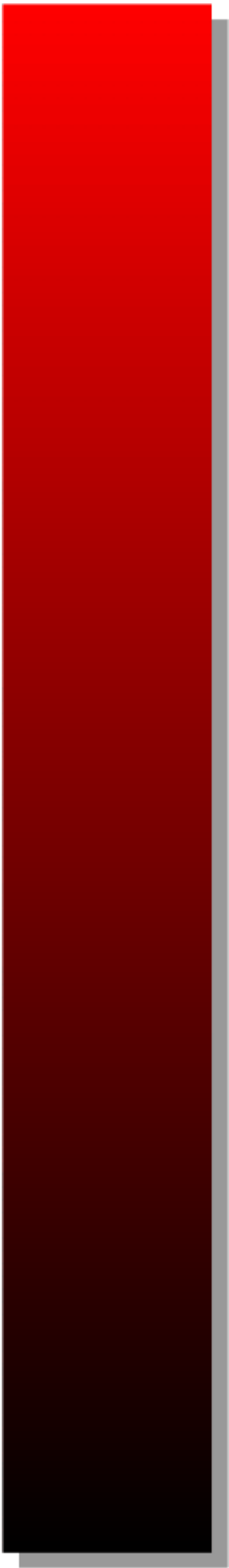
Figure 2.7-3 - Bomb Threat Response Sequence

2.8 Fire and/or Explosion

Figure 2.8-1 - Fire and/or Explosion Checklist

Figure 2.8-2 - Fire and/or Explosion Response Sequence

Figure 2.8-3 - Fire and/or Explosion Notifications Sequence



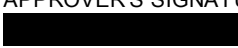
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FIGURE 2-1 - INITIAL RESPONSE ACTION CHECKLIST

To be used in conjunction with Section 2.2 through 2.7

SPECIFIC RESPONSE ACTIONS	INITIALS
STEP ONE - CRISIS RESPONSE (<i>React safely to the incident.</i>)	
Field	
Assess the situation.	
Protect personnel, property, and the environment.	
React to the incident rapidly and decisively.	
Command Center	
Gather facts.	
Account for personnel.	
Implement ICP.	
Establish agency contacts.	
Restore normal operations.	
Handle press/public relations.	
Once the spill has been contained, resources are present at the Facility and safety conditions permitting, recover spilled product.	
STEP TWO - DEVELOP PLAN (<i>Control events; don't react to them.</i>)	
Field	
Protect personnel, property, and the environment.	
Continue to react decisively to the situation.	
Provide information to the assessment team/Command Center.	
Request resources.	
Command Center	
Support the field.	
Identify activities for the Incident Action Plan (IAP).	
Prepare an IAP.	
Organize field operations.	
Provide resources for anticipated response.	
STEP THREE - IMPLEMENT PLAN (<i>Continue to control events.</i>)	
Field	
Protect personnel, property, and the environment.	
Maintain an orchestrated mode of operation.	

Provide the Command Center with regular situation status reports.	
Implement the IAP.	
Request resources.	
Command Center	
Focus on the situation in the field.	
Support operations in the field.	
Define strategic objectives for the next operational period.	
Provide necessary support to implement tactical plans.	
Quickly transmit plans to the field.	
Facility drainage and secondary containment will be adequate to contain a spill of small or medium size, preventing it from going off-site. Once the spill has been contained, resources are present at the Facility to recover spilled product, safety conditions permitting.	



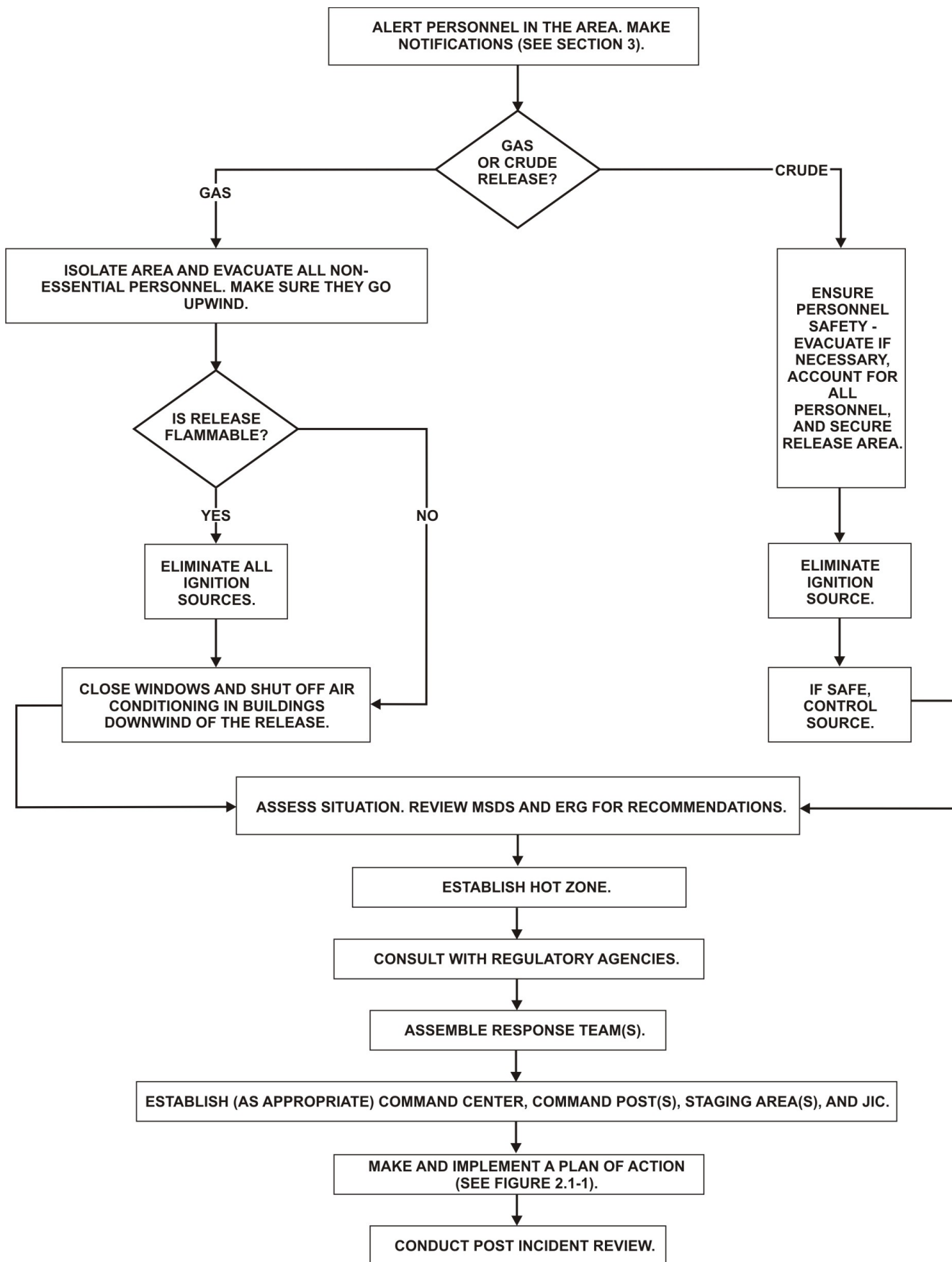
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FIGURE 2-2 - RELEASE RESPONSE SEQUENCE



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2.1 SPILL/RELEASE RESPONSE

FIGURE 2.1-1 - SPILL/RELEASE RESPONSE ACTION CHECKLIST


RESPONSE ACTION	PERSON TAKING ACTION (INITIALS)	DATE/TIME ACTION TAKEN
First Person to Discover Spill		
Immediately notify Supervisory Personnel. Take appropriate action to protect life and ensure safety of personnel. Contact the appropriate local emergency responders or request the office to do so.		
Immediately shutdown pipeline operations (if applicable). (b) (7)(F) [Redacted]		
Secure the scene. Isolate the area and assure the safety of people and the environment. Keep people away from the scene and outside the safety perimeter.		
Supervisory Personnel		
Assume role of Incident Commander until relieved.		
Conduct preliminary assessment of health and safety hazards.		
Evacuate non-essential personnel, notify emergency response agencies to provide security, and evacuate surrounding area (if necessary).		
Call out spill response contractors (FIGURE 3.1-4).		
If safe to do so, direct facility responders to shut down potential ignition sources in the vicinity of the spill, including motors, electrical pumps, electrical power, etc. Keep drivers away from LACT Units if spill occurs.		
If safe to do so, direct facility responders to shut down and control the source of the spill. Be aware of potential hazards associated with product and ensure that lower explosive limits (LELs) are within safe levels before sending personnel into the spill area.		
If safe to do so, direct facility responders to stabilize and contain the situation. This may include berming or		

deployment of containment and/or sorbent boom.		
For low flash oil (<100°F); consider applying foam over the oil, using water spray to reduce vapors, grounding all equipment handling the oil, and using non-sparking tools.		
If there is a potential to impact shorelines, consider lining shoreline with sorbent or diversion boom to reduce impact.		
Notify Local Emergency Responders. Obtain the information necessary to complete the Initial Notification Report Form (FIGURE 3.1-2).		
<p>Make appropriate notifications.</p> <ul style="list-style-type: none"> • National Response Center (800) 424-8802 • External regulatory notifications (FIGURE 3.1-5) • Internal notifications (FIGURE 3.1-4) 		

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FIGURE 2.1-1 - SPILL/RELEASE RESPONSE ACTION CHECKLIST, CONTINUED

RESPONSE ACTION	PERSON TAKING ACTION (INITIALS)	DATE/TIME ACTION TAKEN
On-Scene Coordinator		
Activate all or a portion of Spill Management Team (SMT) (as necessary).		
Ensure the SMT has mobilized spill response contractors (if necessary). It is much better to demobilize equipment and personnel, if not needed than to delay contacting them if they are needed.		
Document all response actions taken, including notifications, agency/media meetings, equipment and personnel mobilization and deployment, and area impacted. (Refer to SECTION 5.3.10 for documentation.)		
Water-based Spills: Initiate spill tracking and surveillance operations. Determine extent of pollution via surveillance aircraft or vehicle. Estimate volume of spill utilizing information in SECTION 2.1.3 . Send photographer / videographer, if safe.		
Land-based Spills: Initiate spill tracking and surveillance, if applicable.		
SECONDARY RESPONSE ACTIONS (Refer to SMT job descriptions in SECTION 4.6)		
FACILITY-SPECIFIC RESPONSE CONSIDERATIONS (Refer to SECTION 6 for maps, tactical plans, and sensitivity information).		

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2.1.1 Spill Detection and Mitigation Procedures


See **APPENDIX C.1** for spill detection protocols.

Each spill mitigation situation is unique and must be treated according to the circumstance present. In every situation, however, personnel safety must be assessed as the first priority. The potential for ignition and/or toxic exposure must be promptly evaluated. Spill mitigation procedures are listed in **FIGURE 2.1-2**. Discharge volume calculations are provided in **APPENDIX C.4**.

FIGURE 2.1-2 - SPILL MITIGATION PROCEDURES

TYPE	MITIGATION PROCEDURE
Failure of Transfer Equipment	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Terminate transfer operations and close block valves. 3. Drain product into containment areas if possible. 4. Eliminate sources of vapor cloud ignition by shutting down all engines and motors.
Tank Overfill/Failure	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Shut down or divert source of incoming flow to tank. 3. Transfer fluid to another tank with adequate storage capacity (if possible). 4. Shut down source of vapor cloud ignition by shutting down all engines and motors. 5. Ensure that dike discharge valves are closed. 6. Monitor diked containment area for leaks and potential capacity limitations. 7. Begin transferring spilled product to another tank as soon as possible.
Piping Rupture/Leak (under pressure and no pressure)	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Shut down pumps. Close the closest block valves on each side of the rupture. 3. Drain the line back into contained areas (if possible). Alert nearby personnel of potential safety hazards. 4. Shut down source of vapor cloud ignition by shutting down all engines and motors. 5. If piping is leaking and under pressure, then relieve pressure by draining into a containment area or back to a tank (if

	possible). Then repair line according to established procedures.
Fire/Explosion	<ol style="list-style-type: none">1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at risk of injury.2. Notify local fire and police departments.3. Attempt to extinguish fire if it is in incipient (early) stage and if it can be done safely.4. Shut down transfer or pumping operation. Attempt to divert or stop flow of product to the hazardous area (if it can be done safely).5. Eliminate sources of vapor cloud ignition by shutting down all engines and motors.6. Control fire before taking steps to contain spill. <p>Also refer to fire/explosion response procedures in <u>SECTION 2.8</u>.</p>
Manifold Failure	<ol style="list-style-type: none">1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk.2. Terminate transfer operations immediately.3. Isolate the damaged area by closing block valves on both sides of the leak/rupture.4. Shut down source of vapor cloud ignition by shutting down all engines and motors.5. Drain fluids back into containment areas (if possible).

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2.1.2 Spill Surveillance Guidelines

- Surveillance of an oil spill should begin as soon as possible following discovery to enable response personnel to assess spill size, movement, and potential impact locations.
- Dispatch observers to crossings downstream or down gradient to determine the spills maximum reach.
- Clouds, shadows, sediment, floating organic matter, submerged sand banks or wind-induced patterns on the water may resemble an oil slick if viewed from a distance.
- Sorbent pads may be used to detect oil or water.
- Use surface vessels to confirm the presence of any suspected oil slicks (if safe to do so); consider directing the vessels and photographing the vessels from the air, the latter to show their position and size relative to the slick.
- It is difficult to adequately observe oil on the water surface from a boat, dock, or shoreline.
- Spill surveillance is best accomplished through the use of helicopters or small planes; helicopters are preferred due to their superior visibility and maneuverability.
- If fixed-wing planes are to be used, high-wing types provide better visibility than low-wing types.
- All observations should be documented in writing and with photographs and/or videotapes.
- Describe the approximate dimensions of the oil slick based on available reference points (i.e. vessel, shoreline features, facilities); use the aircraft or vessel to traverse the length and width of the slick while timing each pass; calculate the approximate size and area of the slick by multiplying speed and time.
- Record aerial observations on detailed maps, such as topographic maps.
- In the event of reduced visibility, such as dense fog or cloud cover, boats may have to be used to patrol the area and document the location and movements of the spill; however, this method may not be safe if the spill involves a highly flammable product.
- Surveillance is also required during spill response operations to gauge the

effectiveness of response operations; to assist in locating skimmers; and assess the spill's size, movement, and impact.

- A Spill Surveillance Checklist is provided in **FIGURE 2.1-3**.



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FIGURE 2.1-3 - SPILL SURVEILLANCE CHECKLIST

Record your observations of spilled oil either in a notebook or directly on a chart of the area under observation. This checklist is an aid for organizing your observations.

General Information	
Date:	Tidal or river stage (flood, ebb, slack, low water):
Time:	On-scene weather (wind, sea state, visibility):
Incident name:	Platform (helicopter, fixed-wing aircraft, boat, shore):
Observer's name:	Flight path/trackline:
Observer's affiliation:	Altitude where observation taken:
Observer's phone number:	
Location of source (if known):	Areas not observed (i.e. foggy locations, restricted air spaces, shallow water areas):
Oil Observations	
Slick location(s):	Color and appearance (i.e. rainbow, dull or silver sheen, black or brown in color or mousse):
Slick dimensions:	Percent coverage:
Orientation of slick(s):	Is oil recoverable (Y/N)?:
Distribution of oil (i.e., windrows, streamers, pancakes or patches):	
Considerations	
<ul style="list-style-type: none"> During surveillance, travel beyond known impacted areas to check for additional oil spill sites. Clearly describe the locations where oil is observed and the areas where no oil has been seen. 	
Other Observations	

Response Operations
Equipment deployment (general locations where equipment is working and whether they are working in the heaviest concentration of oil):
Boom deployment (general locations of boom, whether the boom contains oil, and whether the oil entrains under the boom):



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FIGURE 2.1-3 - SPILL SURVEILLANCE CHECKLIST, CONTINUED

Record your observations of spilled oil either in a notebook or directly on a chart of the area under observation. This checklist is an aid for organizing your observations.

Environmental Observations
Locations of convergence lines, terrain, and sediment plumes:
Locations of debris and other features that could be mistaken for oil:
Wildlife present in area (locations and approximate numbers):
Spill Sketch
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2.1.3 Spill Volume Estimating

Early in a spill response, estimation of spill volume is required in order to:

- Report to agencies.
- Determine liquid recovery requirements.
- Determine personnel and equipment requirements.
- Estimate disposal and interim storage requirements.

Some rapid methods to estimate spill size are:


- Transfer operations: Multiply the pumping rate by the elapsed time that the leak was in progress, plus the drainage volume of the line between the two closest valves or isolation points (volume loss = pump rate [bbls/min] x elapsed time [min] + line contents [bbl]).
- Tank overfills: Elapsed time multiplied by the pumping rate.
- Visual assessment of the surface area and thickness (**FIGURE 2.1-4**); the method may yield unreliable results because:
 - Interpretation of sheen color varies with different observers.
 - Appearance of a slick varies depending upon amount of available sunlight, sea-state, and viewing angle.
 - Different products may behave differently, depending upon their properties.

FIGURE 2.1-4 - SPILL ESTIMATION FACTORS

OIL THICKNESS ESTIMATIONS				
Standard Form	Approx. Film Thickness		Approx. Quantity of Oil in Film	
	inches	mm	gallons/mile ²	liters/km ²
Barely Visible	0.0000015	0.00004	25	44
Silvery	0.000003	0.00008	50	88
Slightly colored	0.000006	0.00015	100	179
Brightly colored	0.000012	0.0003	200	351
Dull	0.00004	0.001	666	1,167

Dark	0.00008	0.002	1,332	2,237
Thickness of light oils: 0.0010 inches to 0.00010 inches				
Thickness of heavy oils: 0.10 inches to 0.010 inches				

NOAA, 09/2000

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2.1.4 Estimating Spill Trajectories

In some cases, oil spill trajectories should be estimated in order to predict direction and speed of the slick movement. Trajectory calculations provide an estimate of where oil slicks may impact shorelines and other sensitive areas, and also provide an estimate of the most effective location in which to mobilize spill response resources for protection, containment, and recovery.

Oil spill trajectories can be estimated using vector addition or with computer programs. Hand calculations typically utilize the following assumptions:

- Oil moves at approximately the same direction and speed as the water currents, unless the winds are strong.
- Wind speed can be multiplied by 0.034 to determine the effect of winds on speed and direction of spill movement.
- The combined effects of winds and currents can be added to estimate spill movement speed and direction.

More sophisticated predictions can be obtained from computer programs. Oil spill trajectory services can be obtained from:

- National Oceanic and Atmospheric Administration (NOAA) through the Federal On-Scene Commander (FOSC)
- Private consulting firms

2.1.5 Initial Containment Actions

Initial containment actions will focus on utilizing containment on-site in the most effective manner to:

- Prevent the oil from impacting water, thereby reducing the surface area and the shoreline to be cleaned.
- Concentrate the oil (when safe to do so), making physical recovery more efficient.
- Limit the environmental impact to the immediate spill area.

Selection of the appropriate location and method will depend upon:

- Length of time spill occurs before being noticed,
- Amount of spill,

- Area of coverage,
- Environmental factors such as wind speed and direction, and
- Oil's characteristics.

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2.1.6 Safety Considerations

- Containment actions should not be conducted during inclement weather or unsafe conditions such as high winds, fast currents, or unstable terrain.
- Eliminate all ignition sources.
- Avoid contact with the spilled product.
- Use respiratory protection (if applicable).
- Ensure that the area remains secure to air traffic.

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2.2 EVACUATION

Emergencies that involve windblown toxic vapors, heavy smoke clouds, or the threat of a vapor cloud explosion may require partial or full-scale facility evacuation. The final decision to evacuate and to what degree is determined by the senior on-scene person or his designee. The evacuation command will be given via either cellular telephone or verbal command. All personnel in the areas being evacuated who are not specifically involved in emergency duties will do so per the procedures outlined below. In general, evacuated personnel will congregate at the designated assembly and remain there until an "all clear" command is received. While at the evacuation site, the senior on-scene person or his designee will be in charge.

FIGURE 2.2-2 and **FIGURE 2.2-3** respectively provide an evacuation response sequence and a logical sequence for alerting people. **SECTION 3** provides a list of telephone numbers for use in notifying appropriate individuals.

FIGURE 2.2-1 - EVACUATION CHECKLIST

EVACUATION CHECKLIST	
TASK	INITIALS
Request assistance from off-site agencies; convey Command Post's location.	
Assemble personnel at predetermined safe location: upwind/up gradient of release (assembly area).	
Use respiratory protection (if needed).	
Account for Company and contractor personnel.	
Assess casualties (number/type/location).	
Determine probable location of missing personnel.	
Secure site, close gates to prevent anyone from entering the site.	
Establish re-entry point and check-in/check-out procedures.	
Develop list of known hazards (confined spaces, electrical hazards, physical hazards, vapors, oxygen deficiency, fire/explosion, etc.).	
Monitor situation (weather, vapors, product migration) for significant changes.	
Assist in developing a Rescue Plan, if necessary.	


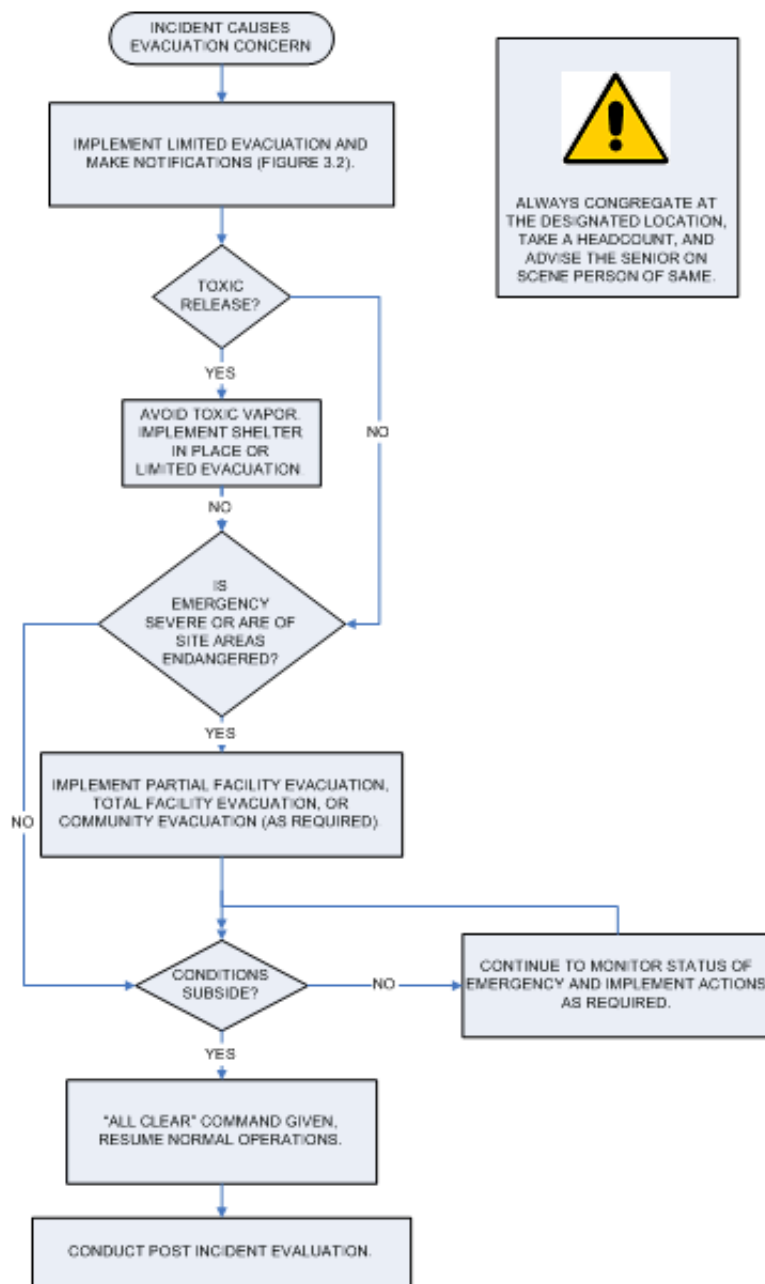
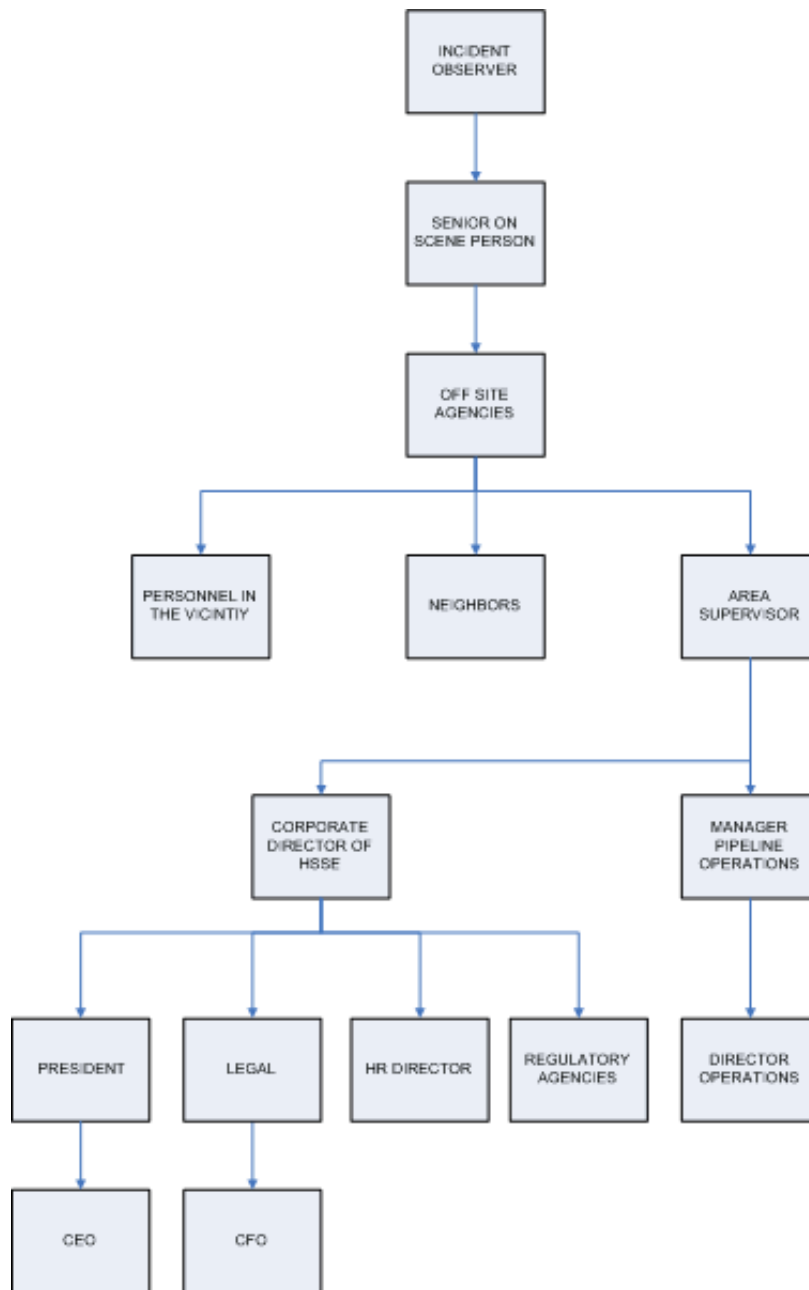
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FIGURE 2.2-2 - EVACUATION RESPONSE SEQUENCE

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FIGURE 2.2-3 - EVACUATION NOTIFICATIONS SEQUENCE

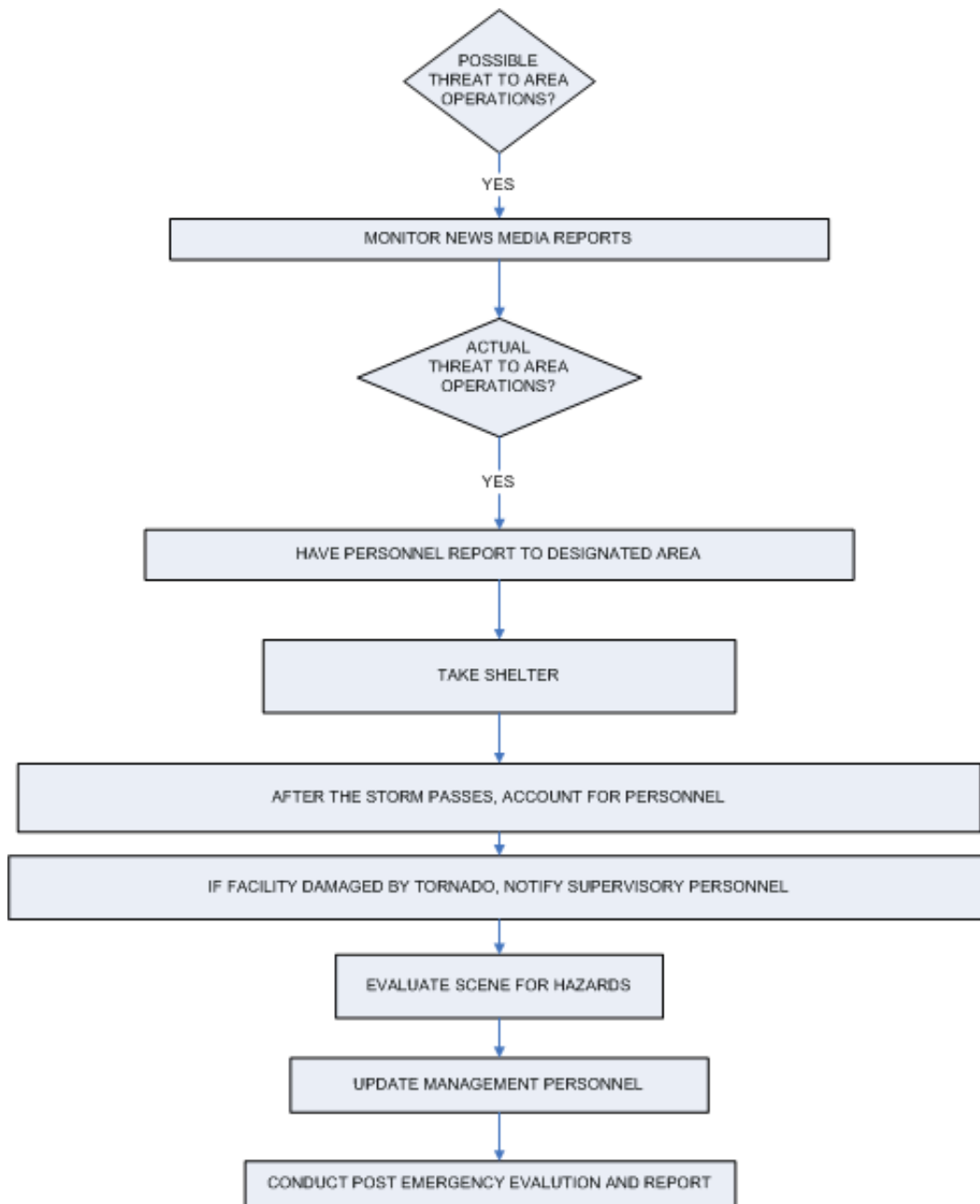
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2.3 TORNADO

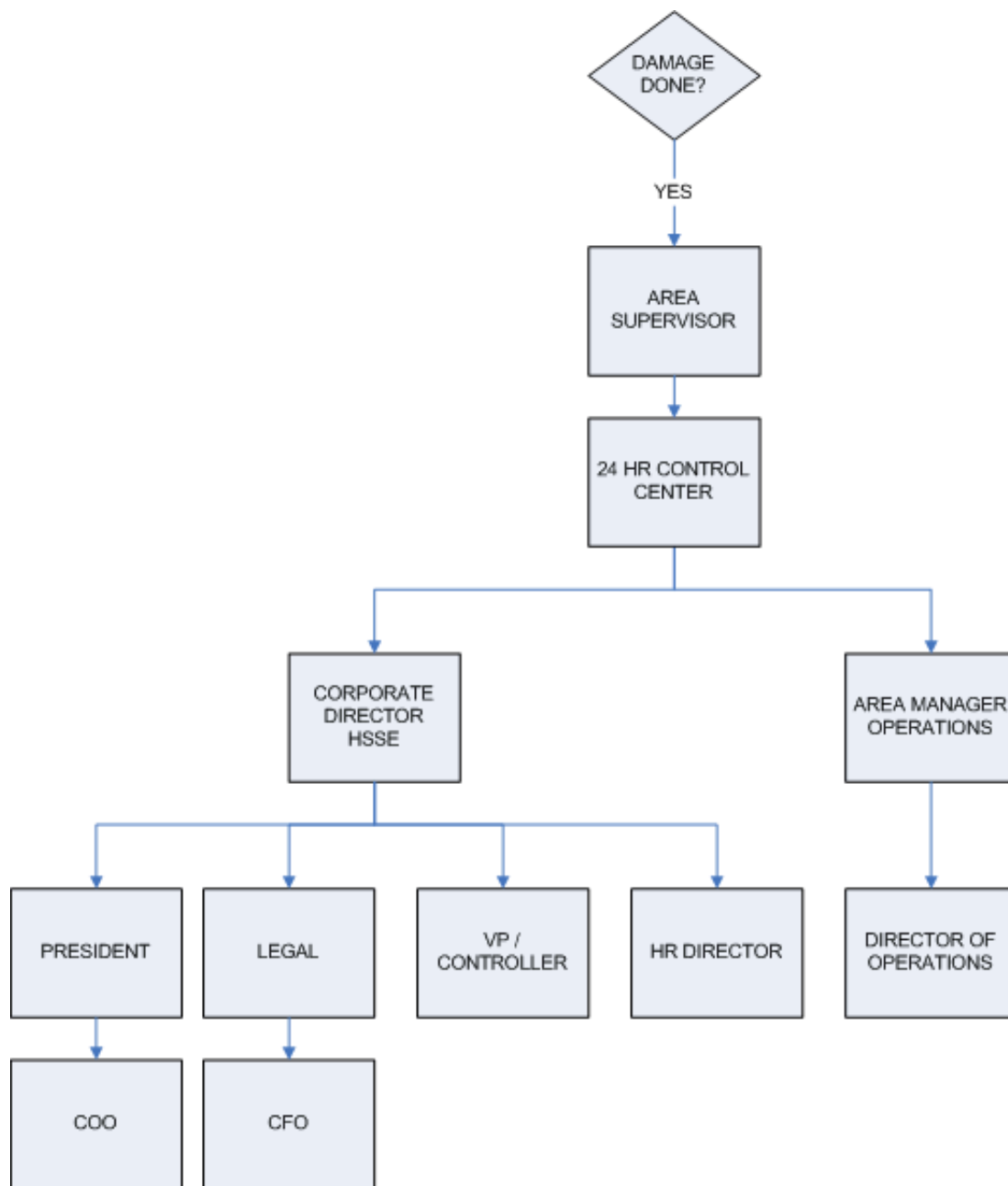
FIGURE 2.3-1 - TORNADO CHECKLIST

TORNADO CHECKLIST	
TASK	INITIALS
Monitor news media reports (FIGURE 3.1-5). <ul style="list-style-type: none"> • Tornado watch means conditions are favorable for tornadoes. • Tornado warning means a tornado has been sighted. 	
When a tornado warning is issued by news media or local authorities, sound the local alarm.	
Have location personnel report to the designated area.	
Account for all personnel on duty.	
Take shelter: <ul style="list-style-type: none"> • Go to an interior room on the lowest floor. • Get under a sturdy piece of furniture. • Use your arms to protect head and neck. 	
Look for funnel formations on the ground or in the clouds; listen for a roar that sounds like a jet aircraft or rail traffic.	
If the facility is damaged by the tornado, notify Supervisory Personnel.	
Go to the scene of the incident to evaluate the situation. <ul style="list-style-type: none"> • Account for personnel. • Be aware of broken glass and downed power lines. • Check for injuries. • Use caution entering a damaged building. 	
Update Supervisory Personnel/Management. (Tornado Notification Sequence FIGURE 2-3.2)	
Perform Initial Response Actions functions as stated in FIGURE 2-1 .	
Conduct post-emergency evaluation and report.	

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FIGURE 2.3-2 - TORNADO RESPONSE SEQUENCE

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FIGURE 2.3-3 - TORNADO NOTIFICATIONS SEQUENCE

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2.4 HURRICANE

In the event of an approach ng hurricane, the checklist in **FIGURE 2.4-1** below will be implemented to determine the course of action. Zone specific ?phases? will be implemented as well. Refer to **FIGURE 2.4-4** for additional details.

FIGURE 2.4-1 - HURRICANE CHECKLIST

HURRICANE CHECKLIST	
Prior to Hurricane Season	INITIALS
1. Conduct hurricane awareness training, which includes evacuation routes and asset hurricane procedures.	
2. Coordinate activities with local and state agencies involved in hurricane preparation (Emergency Access Cards, etc.).	
3. Communicate recommended Community Evacuation routes.	
4. Determine disposition of company vehicles during evacuation.	
5. Each location should maintain current photographs of facilities.	
June 1 - Beginning of Hurricane Season	
1. Verify the availability of and procure emergency supplies, as necessary: <ul style="list-style-type: none"> • Portable Radios • Plywood, lumber, plastic sheeting or covering • Drinking water • First Aid Kits • Flashlight & batteries • Tools • Emergency non-perishable food item 	
2. Ensure emergency generators and portable equipment is in good working order and sufficient fuel is available.	
Hurricane entering Gulf of Mexico/Atlantic Ocean	

1. Implement hurricane procedures.	
2. Identify employees who may volunteer to implement hurricane procedures.	
72 hours prior to hurricane's eye reaching landfall	
1. Cancel all training and meetings requiring travel to affected areas.	
2. Designate location for temporary Communication Center.	
3. Verify contractor contacts and availability.	
4. All employees shall provide to their supervisor an evacuation location and contact number.	
5. Each location shall identify a radio frequency which broadcasts emergency weather information.	
6. Report facility status to Corporate Management.	


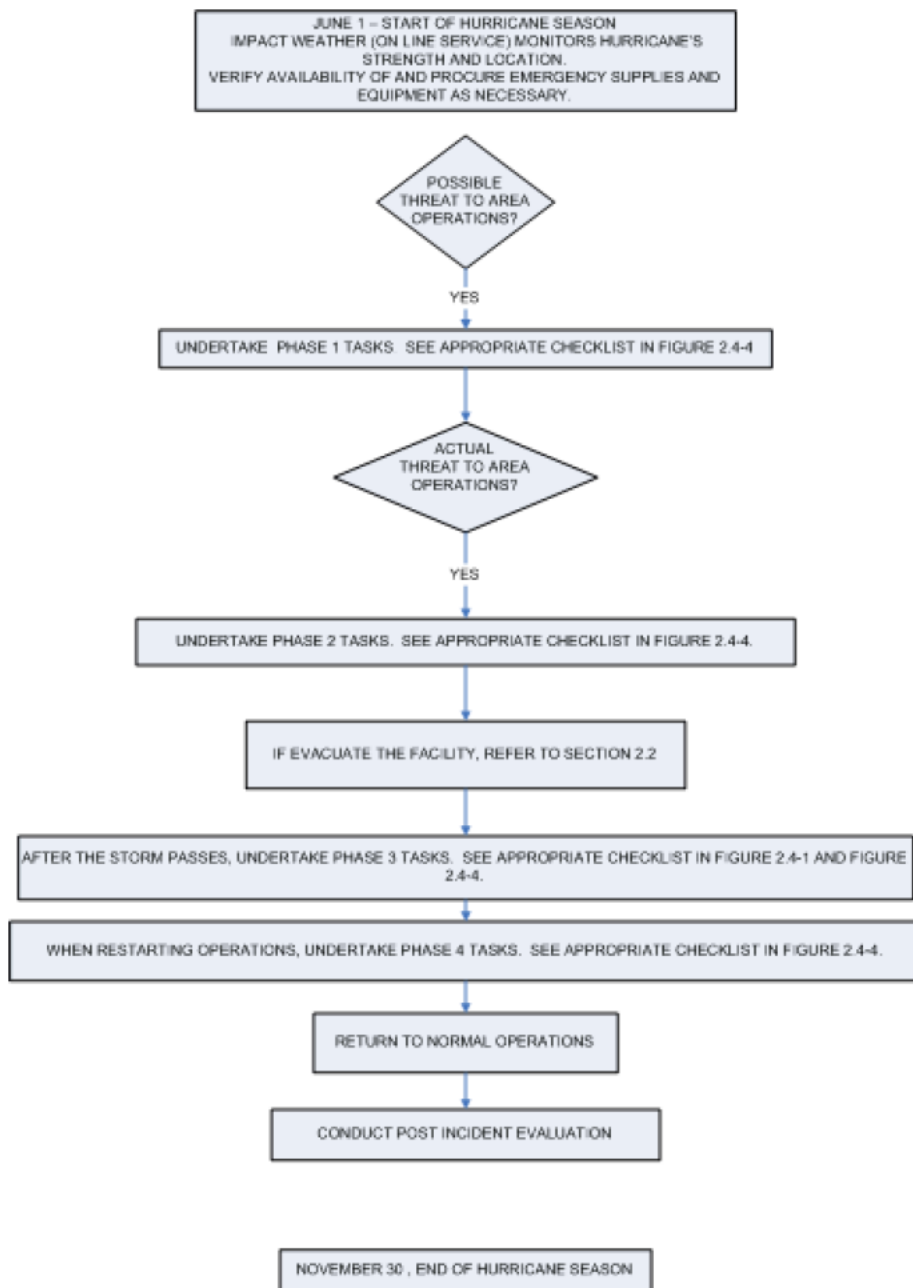
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FIGURE 2.4-1 HURRICANE CHECKLIST, CONTINUED

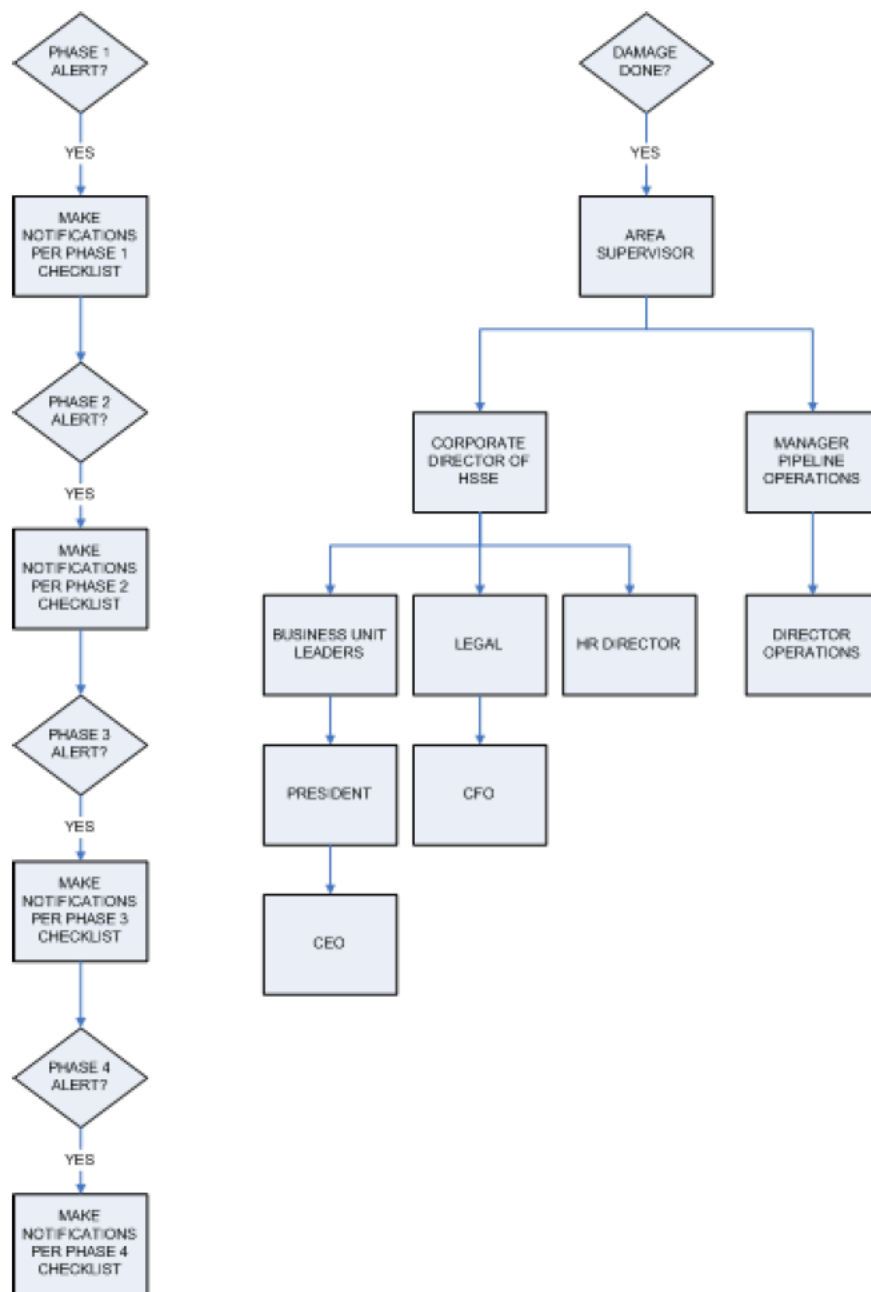
SPECIFIC RESPONSE ACTIONS	COMMENT
48 hours prior to hurricane's eye reaching landfall	
1. Implement flex-shift to allow employees to secure personal property.	
2. Ensure all storage tanks are stabilized at a minimum of 40% capacity.	
3. Ensure all below ground sumps have been pumped dry.	
4. Secure all critical documents including electronic data.	
5. Elevate electrical equipment, sensitive office equipment and documents in the event of high water.	
6. Report facility status to Management.	
36 hours prior to hurricane's eye reaching landfall	
1. Communicate with suppliers and affected customers.	
2. Report facility status to Management.	
24 hours prior to hurricane's eye reaching landfall	
1. Begin shutdown operations.	
2. Release non-essential personnel.	
3. Report facility status to Corporate Management.	
12 hours prior to hurricane's eye reaching landfall	
1. Man Communications Center continuously.	
2. Report facility status to Management.	
Post Storm Recovery Procedure	

1. Initiate facility damage assessment.	
2. Report facility status to Management.	
3. Once access has been granted, the following processes should be surveyed for operational reliability prior to startup: <ul style="list-style-type: none">• Electrical panels and motors• Instrument air system• Emergency shutdown system• Tank and vessel foundation and support (possible washouts)• Check for dangerous wildlife and reptiles	

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FIGURE 2.4-2 - HURRICANE RESPONSE SEQUENCE


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FIGURE 2.4-3 - HURRICANE NOTIFICATIONS SEQUENCE

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FIGURE 2.4-4 - GENESIS PIPELINE USA, LP PHASE CHECKLIST

[Click to view/print Texas Checklist](#)

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2.5 FLOOD

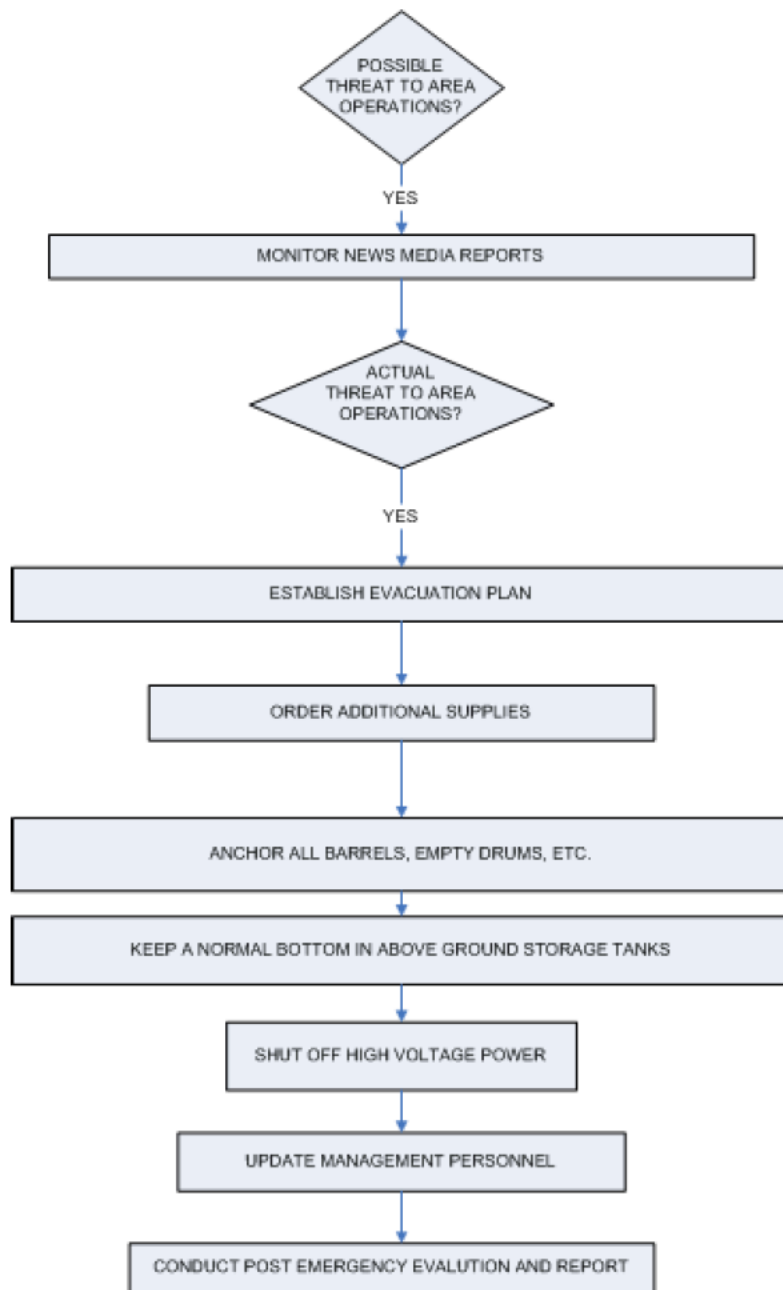
FIGURE 2.5-1 - FLOOD CHECKLIST

FLOOD CHECKLIST	
TASK	INITIALS
Perform continuous monitoring of the situation by listening to radio and/or television reports (FIGURE 3.1-5). <ul style="list-style-type: none"> Flash flood watch means flooding is possible. Flash flood warning means flooding is occurring or is imminent. 	
Update Supervisory Personnel when flooding is imminent.	
Establish an evacuation plan (SECTION 2.2).	
Take preliminary actions to secure the facility before flooding and mandatory evacuation.	
Consider having sandbags brought to sites that could be affected by the flooding.	
Consider obtaining portable pumps and hoses from local suppliers or from other petroleum service locations in the area.	
Remove product from underground storage tanks (i.e., sumps and separators, if applicable) and replace with water to prevent them from floating out of the ground.	
Keep at least a normal bottom in all above ground tankage, more if possible.	
Plug all rack drains and facility drains connected to the sump.	
Anchor all bulk additive tanks, fuel barrels, empty drums, and propane tanks (if applicable).	
Notify Supervisory Personnel/Management that the facility will be closed.	
Back up computer files.	
Remove assets, such as files, computers, and spare parts.	
Shut off high voltage power and natural gas lines.	
Close all valves on product and additive storage tanks.	
Before evacuation, know where all the employees will be residing and obtain phone numbers so they can be contacted if additional emergencies occur.	
Conduct a post-emergency evacuation and report.	

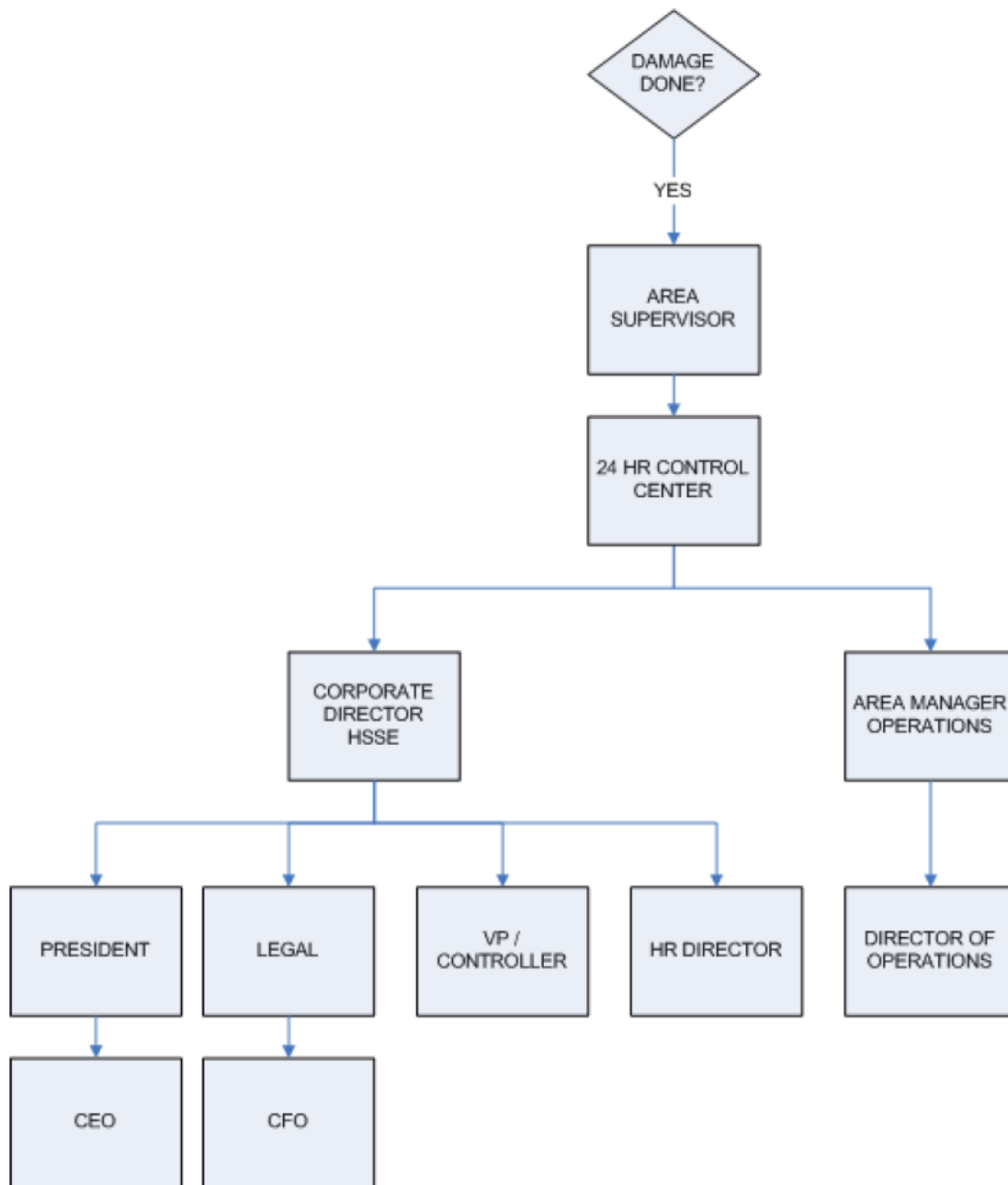
Maintain hazards awareness:	
-----------------------------	--


- | | |
|--|--|
| <ul style="list-style-type: none">• Structural damage.• Downed power lines.• Leaking natural gas, water, and sewer lines.• Poisonous snakes and other wildlife sheltering in structures, vehicles, and furniture.• Avoid direct contact with flood water, mud, and animal carcasses. | |
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FIGURE 2.5-2 - FLOOD RESPONSE SEQUENCE

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FIGURE 2.5-3 - FLOOD NOTIFICATIONS SEQUENCE

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2.6 MEDICAL

FIGURE 2.6-1 - MEDICAL CHECKLIST

MEDICAL CHECKLIST	
TASK	INITIALS
Summon Emergency Medical Services (EMS) to the scene (FIGURE 3.1-5).	
Do not move the patient unless a situation (such as a fire) threatens their life.	
If trained, provide first aid until the EMS arrives at the scene.	
As the situation warrants, try to stop the bleeding and keep the patient breathing until the EMS arrives at the scene.	
<p>The rescuer's role includes:</p> <ul style="list-style-type: none"> • Removing the patient from any situation threatening their life or the lives of rescuers. • Correcting life-threatening problems and immobilizing injured parts before transporting the patient. • Transporting the patient in a way that minimizes further damage to injured parts. • Administering essential life support while the patient is being transported. • Observing and protecting the patient until medical staff can take over. • Administering care as indicated or instructed. 	


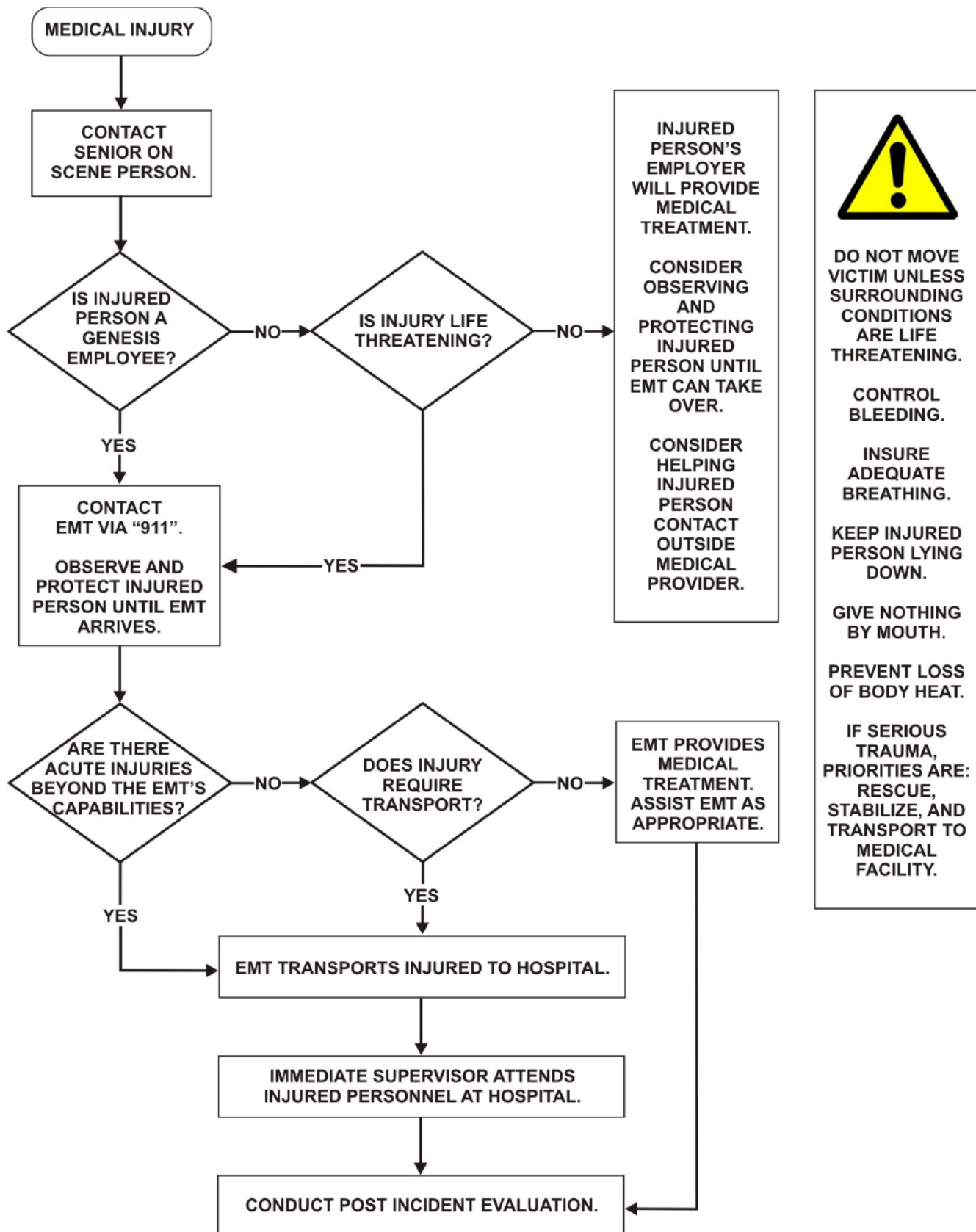
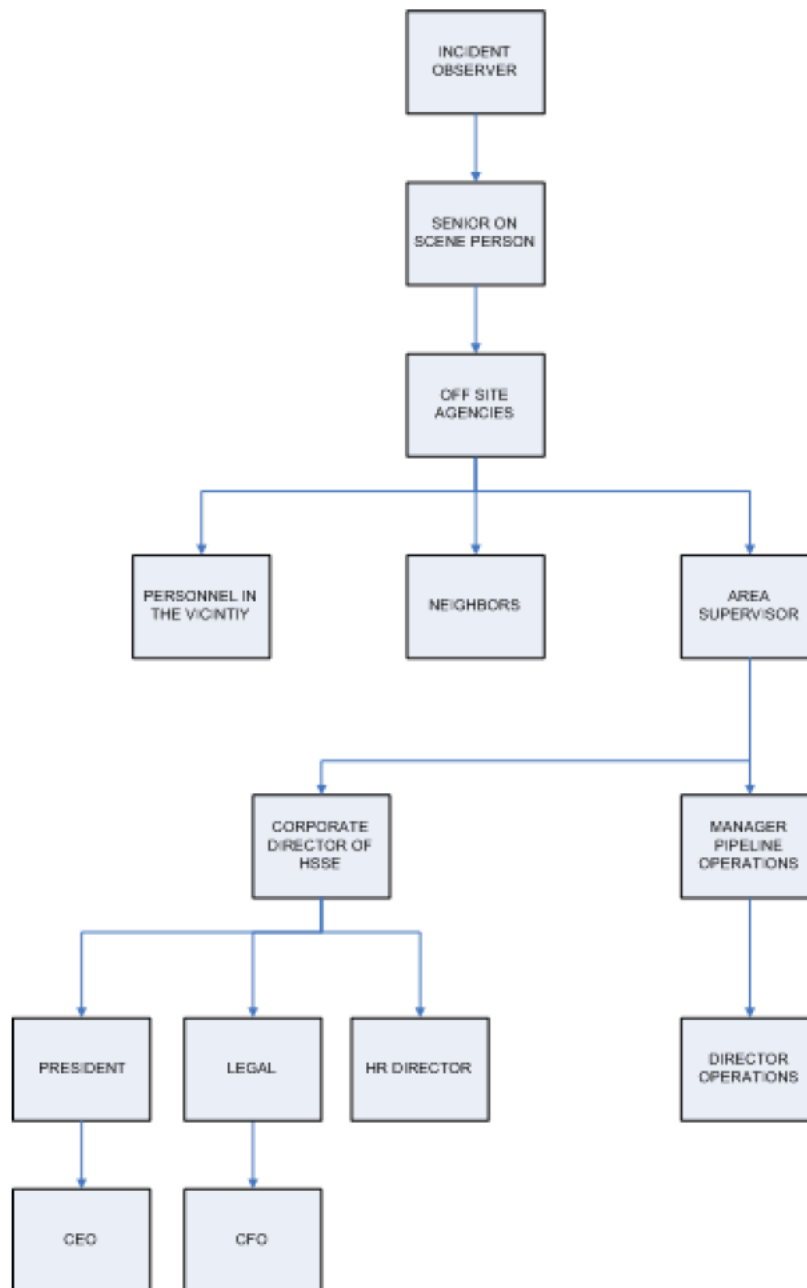
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FIGURE 2.6-2 - INJURY RESPONSE SEQUENCE

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FIGURE 2.6-3 - INJURY NOTIFICATIONS SEQUENCE

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FIGURE 2.6-4 - PANDEMIC INFLUENZA CHECKLIST

PANDEMIC INFLUENZA CHECKLIST	
TASK	INITIALS
Before Outbreak	
Impact to the Business	
Identify a pandemic coordinator.	
Identify essential employees and critical inputs (such as suppliers and contractors) required during a pandemic to maintain business operations by location and function.	
Train and prepare ancillary workforce (such as contractors, retirees, and employees in other job titles/descriptions).	
Plan for the pandemics' effects (such as restriction on mass gatherings and need for hygiene supplies).	
Determine the pandemic's possible effects on the company's financials.	
Determine the pandemic's possible effects on business-related travel.	
Find up-to-date, reliable pandemic information from community public health, emergency management, and other sources. Make sustainable links.	
Establish a pandemic communications plan; revise it periodically. (The plan should identify: key contacts, key contacts' back-ups, suppliers, customers, and processes for tracking and communicating business and employee status)	
Implement an exercise/drill to test the plan; revise it periodically.	
Impact to Employees/Customers	
Forecast for employee absences during a pandemic due to: personal illness, family member illness, community containment measures/quarantines, school/business closures, and public transportation closures.	
Implement guidelines to modify the frequency and type of face-to-face contact with employees and others.	
Encourage/track annual influenza vaccination for employees.	
Evaluate employee access to and availability of healthcare services during a pandemic; improve services as needed.	
Evaluate employee access to and availability of mental health/social services during a pandemic (such as corporate, community, and faith-based resources). Improve services as needed.	

Identify employees with special needs; incorporate their requirements into the ICP.	
During Outbreak	
Establish Policies to be Implemented During a Pandemic	
Establish policies for employee compensation and sick-leave absences unique to a pandemic. Include policies on when a previously ill person is no longer infectious and can return to work after illness.	
Establish policies for flexible worksite (such as telecommuting) and flexible work hours (such as staggered shifts).	
Establish policies for preventing flu spread at the worksite (such as promoting respiratory hygiene/cough etiquette and prompt exclusion of people with flu symptoms).	
Establish policies for employees who have been exposed to pandemic flu, are suspected to be ill, or become ill at the worksite (such as infection control response and immediate mandatory sick leave).	
Establish policies for: [1] Restricting travel to affected geographic areas; [2] Evacuating employees working in or near an affected area when an outbreak begins; and [3] Guidance for employees from affected areas.	
Set up protocols for activating and terminating the pandemic response plan, altering business operations, and transferring business knowledge to key employees.	

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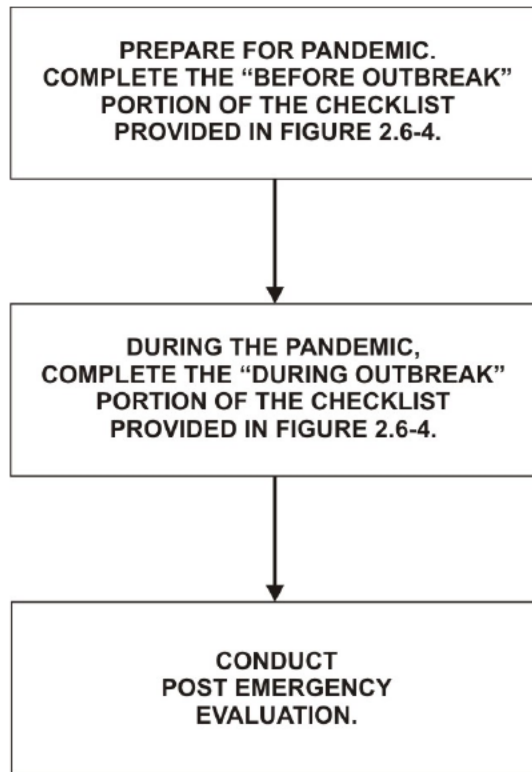
FIGURE 2.6-4 - PANDEMIC INFLUENZA CHECKLIST, CONTINUED

PANDEMIC INFLUENZA CHECKLIST	
TASK	INITIALS
During Outbreak, Continued	
Allocate Resources to Protect Employees	
Provide sufficient/accessible infection control supplies (such as hand-hygiene products, tissues, and receptacles for their disposal) in all of Genesis' locations.	
Enhance communications/information technology infrastructures as needed to support employee telecommuting and remote customer access.	
Ensure medical consultation and advice for emergency response is available.	
Communicate to Educate Employees	
Develop/Disseminate programs/materials covering pandemic fundamentals (such as flu signs/symptoms and modes of transmission), personal/family protection/response strategies (such as hand hygiene and coughing/sneezing etiquette).	
Anticipate employee fear/anxiety, rumors, and misinformation. Plan communications accordingly.	
Disseminate flu preparedness/response plan information to employees.	
Provide information for the at-home care of ill employees and family members.	
Develop platforms (such as hotlines and dedicated websites) for communicating pandemic status and actions to employees, vendors, suppliers, and customers inside/outside the worksite in a consistent/timely way; include redundancies in the emergency contact system.	
Identify community sources for timely/accurate pandemic information and resources for obtaining counter-measures (such as vaccine and antiviral).	
Coordinate with Others/Help the Community	
Collaborate with insurers, health plans, and major local healthcare facilities to share pandemic plans/understand their capabilities/plans.	
Collaborate with federal, state, and local public health agencies and/or emergency responders to participate in their planning processes, share pandemic plans, and understand their capabilities/plans.	
Communicate with local and/or state public health agencies and/or emergency responders about the assets and/or services Genesis can	

contribute to the community.	
Share best practices with other businesses in the communities, chambers of commerce, and associations to improve community response efforts.	

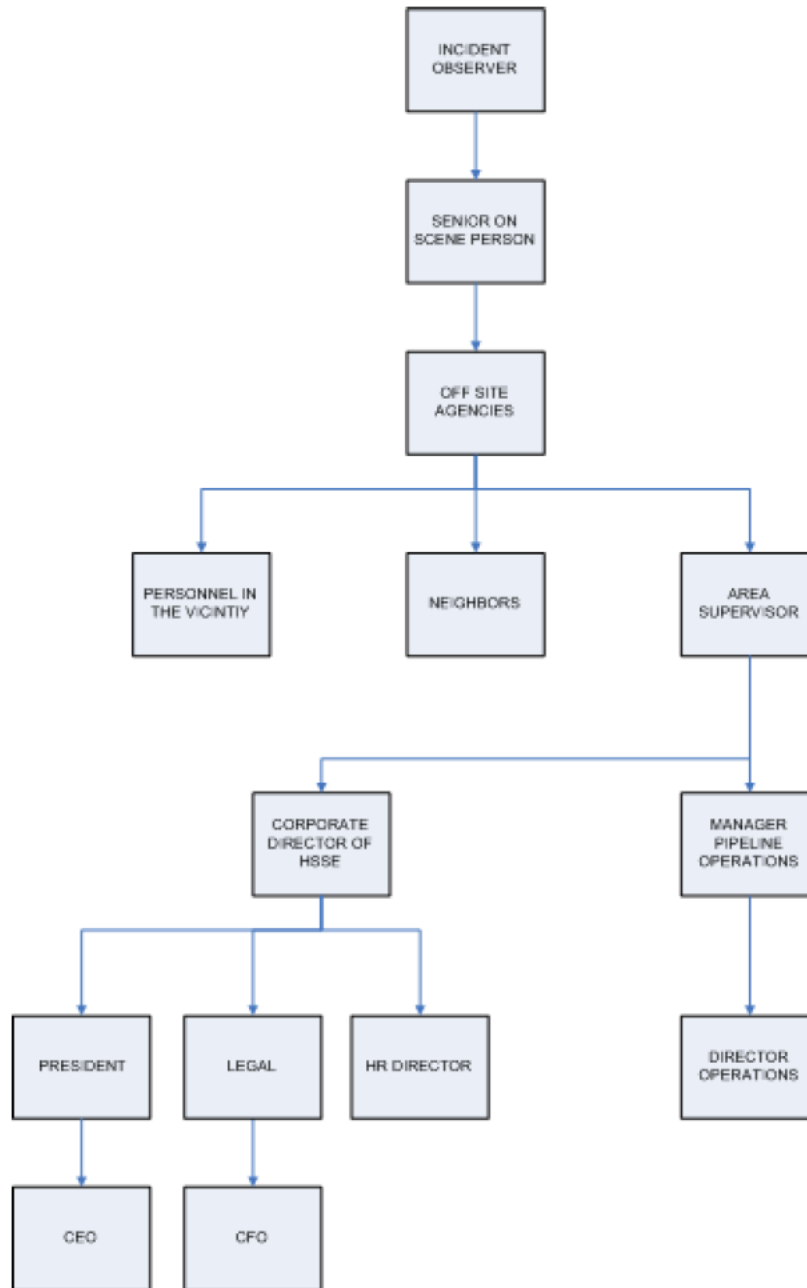
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FIGURE 2.6-5 - PANDEMIC INFLUENZA RESPONSE SEQUENCE



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FIGURE 2.6-6 - PANDEMIC INFLUENZA NOTIFICATIONS SEQUENCE



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2.7 BOMB THREAT

FIGURE 2.7-1 - BOMB THREAT CHECKLIST

(b) (7)(F)




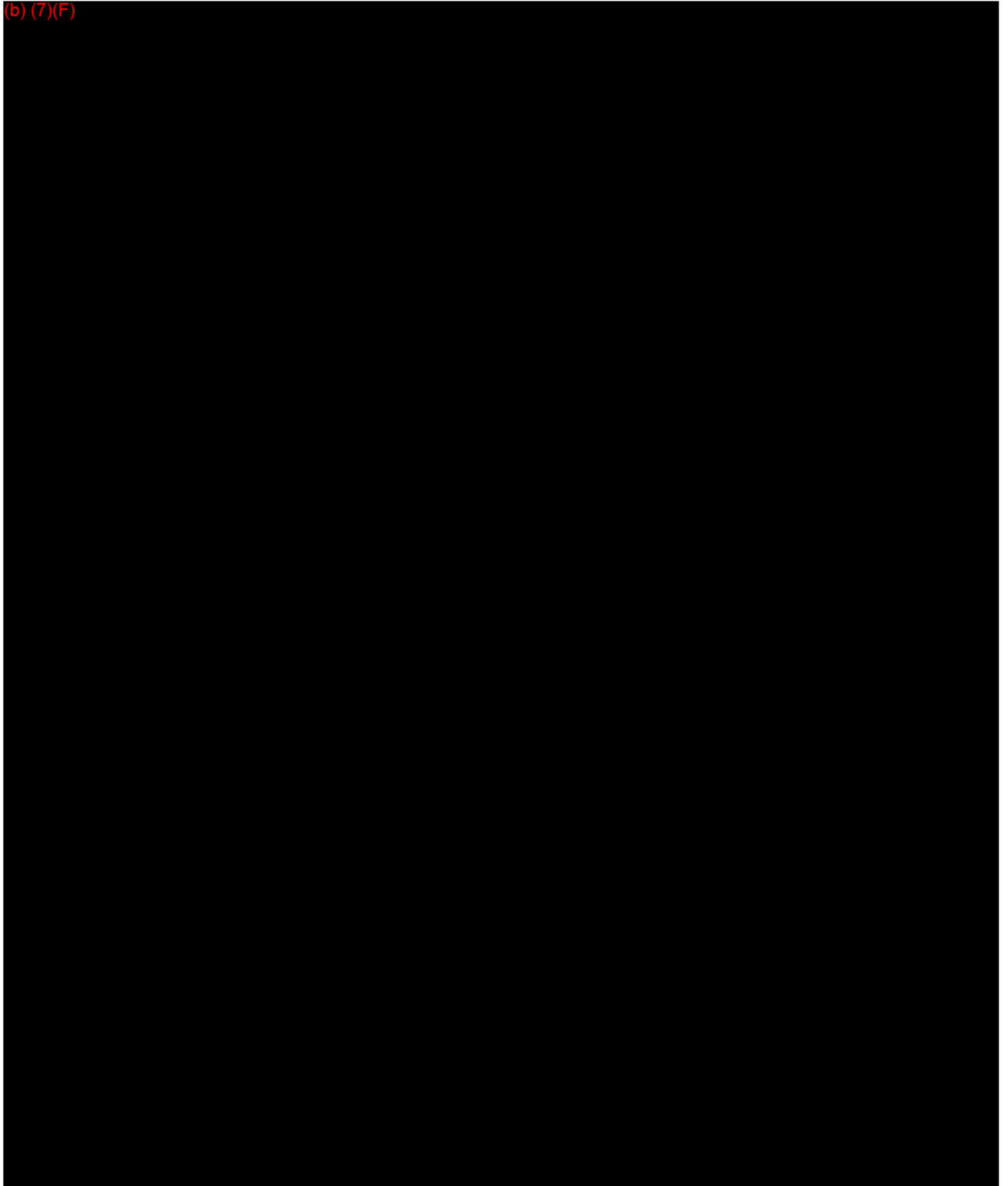
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FIGURE 2.7-2 - SPECIAL THREAT CALL

(b) (7)(F)



(b) (7)(F)




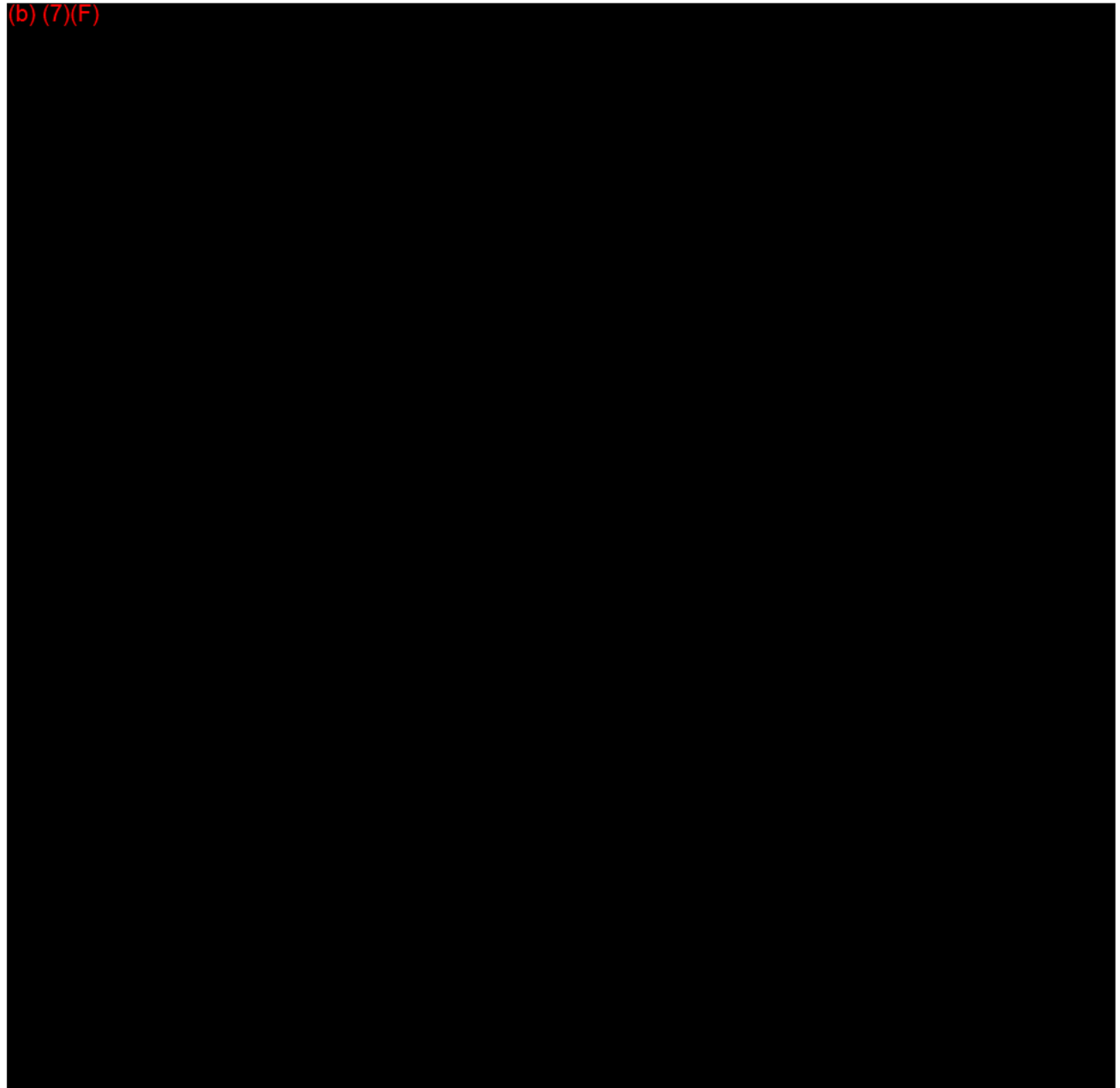

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FIGURE 2.7-3 - BOMB THREAT RESPONSE SEQUENCE

(b) (7)(F)



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2.8 FIRE AND/OR EXPLOSION

FIGURE 2.8-1 - FIRE AND/OR EXPLOSION CHECKLIST

Your first consideration is always the safety of people in the immediate area, including your own.

The first responder's initial objective is site management.

FIRE AND/OR EXPLOSION CHECKLIST	
TASK	INITIALS
At a manned facility	
Evaluate the situation; approach cautiously from upwind; do not rush in.	
Notify the local police and fire departments.	
Notify Supervisory Personnel.	
Notify Company Hot Line.	
Appropriately trained personnel may attempt to extinguish the fire if it is in the incipient (early) stage and if it can be done safely .	
If the fire/explosion is a result of a pipe rupture, isolate product release by closing valves.	
Undertake basic site control: <ul style="list-style-type: none"> • Make an assessment of hazards. • Isolate the area. • Keep people away from the scene and outside the safety perimeter. • Establish safety zones and escape routes. 	
Respond to the fire: <ul style="list-style-type: none"> • Establish a Command Post and lines of communication. • Maintain site control. • Establish Incident Command/Unified Command as necessary, refer to SECTION 4.4. 	
Call in additional resources if on scene personnel and equipment are inadequate to handle the emergency.	

Conduct a post-emergency evaluation and report.	
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FIGURE 2.8-1 - FIRE AND/OR EXPLOSION, CONTINUED

Your first consideration is always the safety of people in the immediate area, including your own.

The first responder's initial objective is site management.

FIRE AND/OR EXPLOSION CHECKLIST, CONTINUED

TASK	INITIALS
At an unmanned facility	
Handle the call.	
Notify the local police and fire departments.	
Notify Supervisory Personnel.	
Notify Company Hot Line.	
Go to the incident scene to evaluate the situation; approach cautiously from upwind; do not rush in.	
Undertake basic site control: <ul style="list-style-type: none"> • Make an assessment of hazards. • Isolate the area. • Keep people away from the scene and outside the safety perimeter. • Establish safety zones and escape routes. 	
If roads or railroads are in the affected area, assist the sheriff or local emergency officials with halting traffic.	
Update Supervisory Personnel/Management.	
If the fire/explosion is a result of a pipe rupture, isolate the product release by closing valves.	
Respond to the fire: <ul style="list-style-type: none"> • Establish a Command Post and lines of communication. • Maintain site control. • Establish Incident Command/Unified Command as necessary, refer to SECTION 4.4. 	

Call in additional resources if on scene personnel and equipment are inadequate to handle the emergency.	
Conduct a post-emergency evaluation and report.	


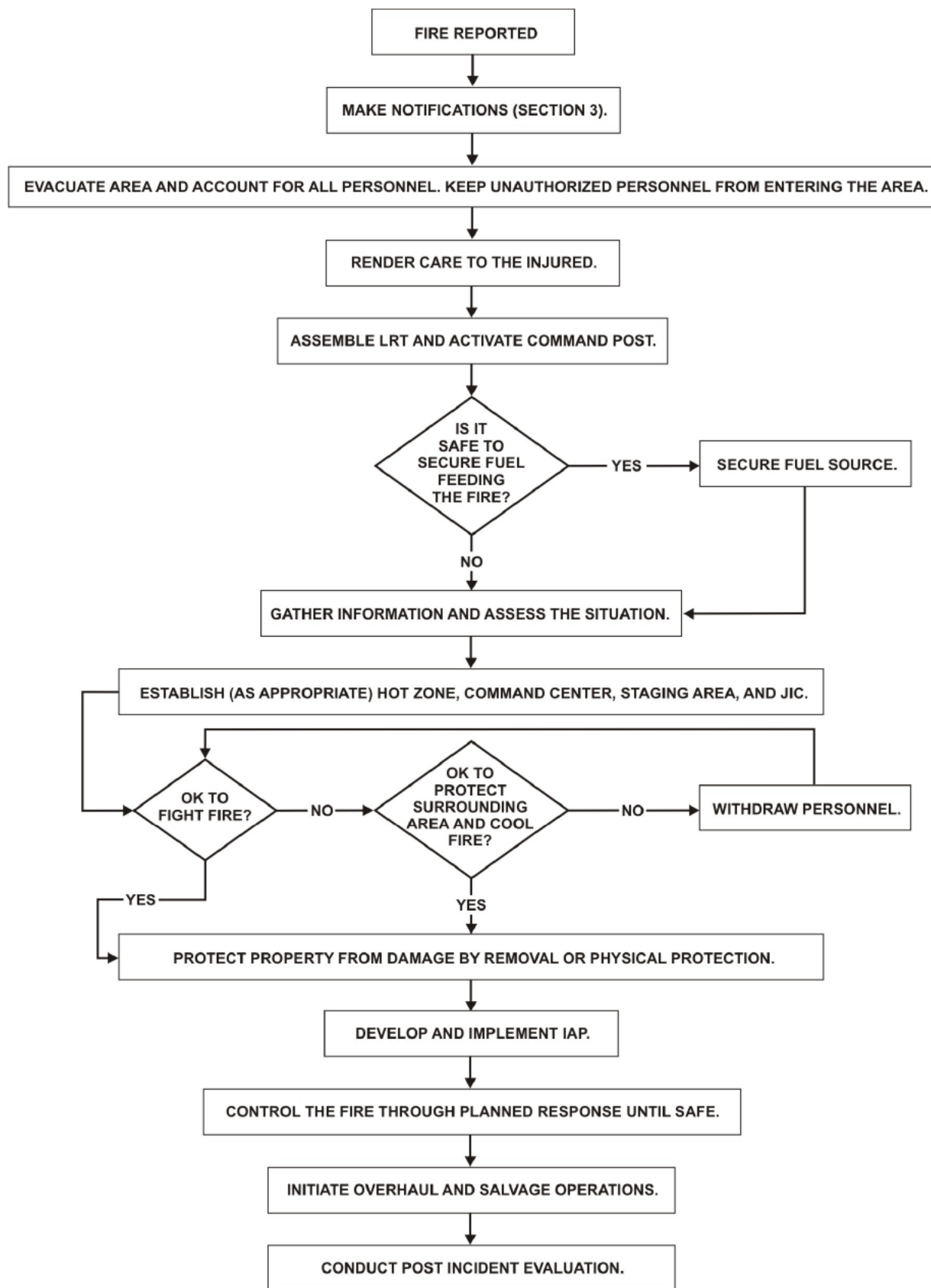
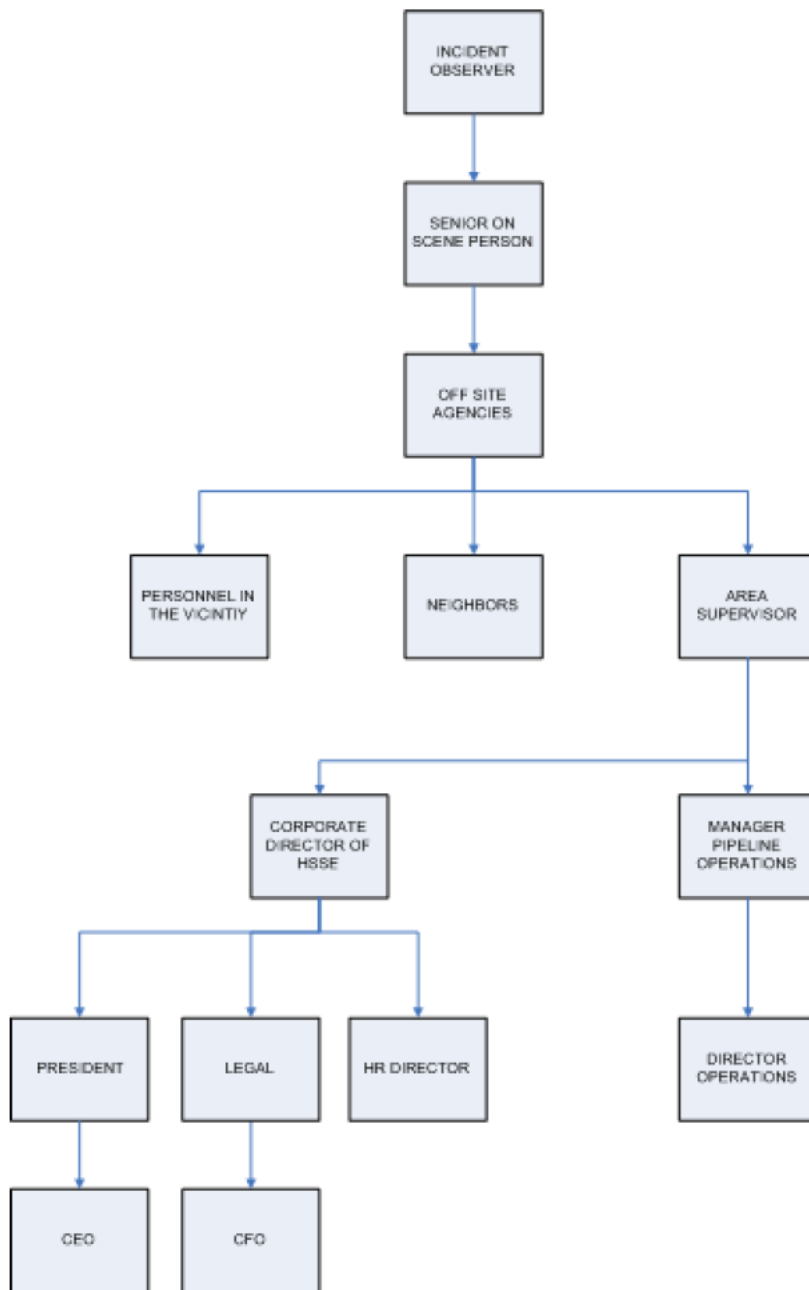

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FIGURE 2.8-2 - FIRE AND/OR EXPLOSION RESPONSE SEQUENCE

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FIGURE 2.8-3 - FIRE AND/OR EXPLOSION NOTIFICATIONS SEQUENCE

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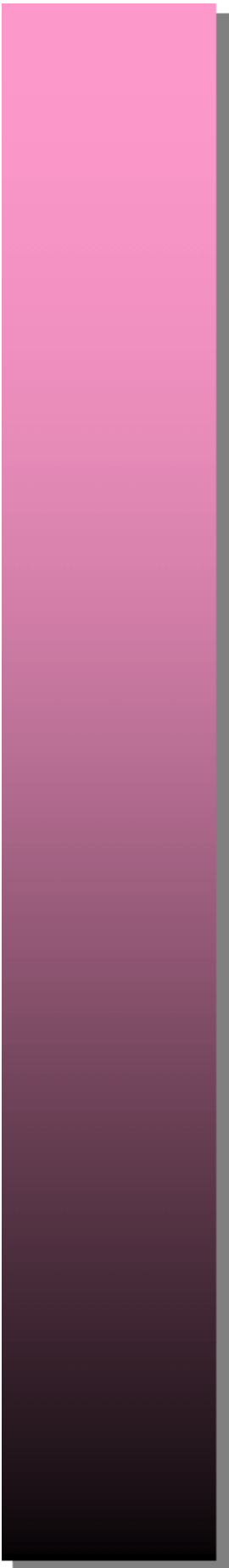
SECTION 3


Last revised: November 6, 2012

NOTIFICATIONS / TELEPHONE NUMBERS

© Technical Response Planning Corporation 2005

3.1 Emergency Information and Notification Procedures**Figure 3.1-1 - Emergency Notification Flow Chart**Figure 3.1-2 - Initial Notification Report FormFigure 3.1-3 - Pipeline Spill Telephonic NoticeFigure 3.1-4 - Internal Notifications and Telephone NumbersFigure 3.1-5 - External Notifications and Telephone NumbersFigure 3.1-6 - Reporting Requirements



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3.1 EMERGENCY INFORMATION AND NOTIFICATION PROCEDURES

The notification sequence for a spill is as follows:

- The Incident Observer / First Responder will identify and control the source of a spill, if safe to do so, then will notify the Control Room.
- The Control Room will conduct notifications as illustrated in the Notification Flow Chart (**FIGURE 3.1-1**).

The priority of actions and response procedures will depend upon actual circumstances and will be determined by the Incident Commander.

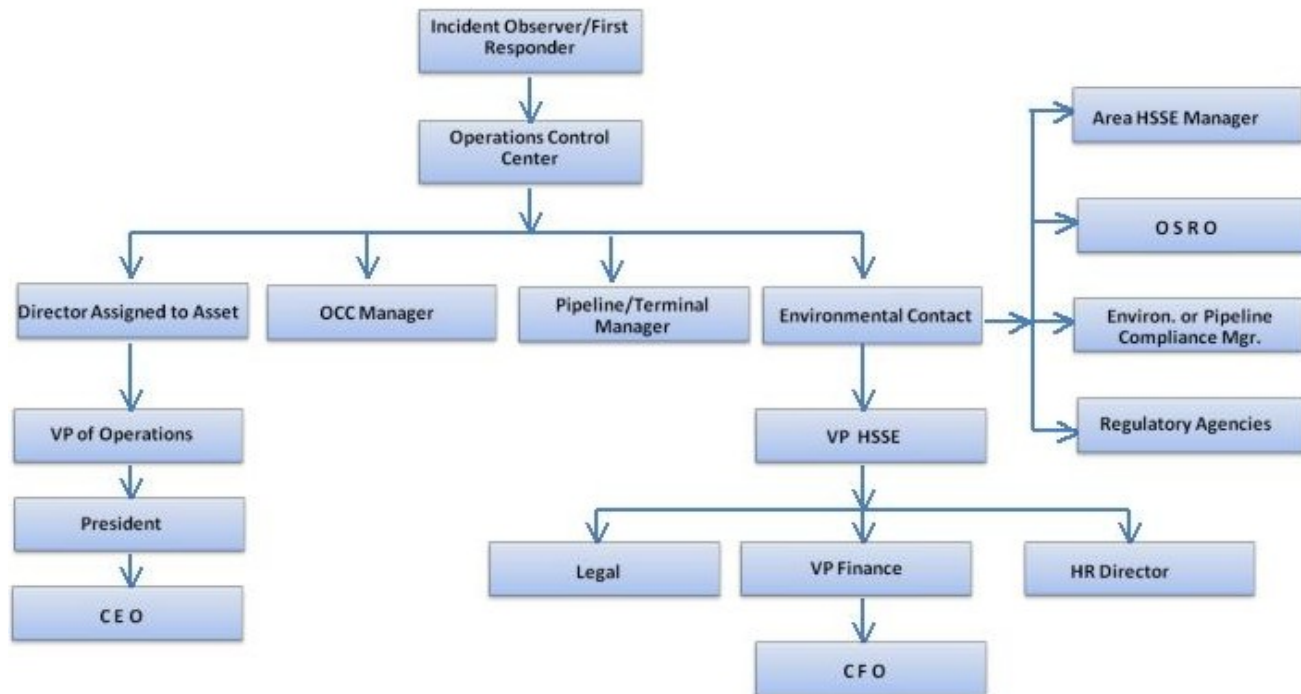
This section also contains the following:

- FIGURE 3.1-2 provides an Initial Notifications Report Form. This form is utilized for initial and follow-up notifications. Follow-up notifications are the responsibility of the Liaison Officer.
- FIGURE 3.1-4 provides an Internal Notification Summary and documentation form to assist in documenting notifications.
- FIGURE 3.1-5 provides an External Notification Summary and documentation form to assist in documenting notifications.

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FIGURE 3.1-1 - EMERGENCY NOTIFICATION FLOW CHART

**GENESIS EMERGENCY NOTIFICATION
FLOW CHART**





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FIGURE 3.1-2 - INITIAL NOTIFICATION REPORT FORM

INITIAL NOTIFICATION REPORT FORM	
Time: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM	Date: _____
Person making call (Company or 3rd Party):	
Phone number of person calling:	
Location call came in:	
Phone number call received at:	
Location of Incident (from intersection or address or other landmark):	
Description of incident:	
Material involved:	
Weather conditions:	
Injuries:	
Outside parties involved:	

Instructions or warnings given to caller if any:	
Action of caller or outside party if any:	
Person receiving call:	
Person information relayed to:	Time:

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FIGURE 3.1-3 - PIPELINE SPILL TELEPHONIC NOTICE

PIPELINE SPILL TELEPHONIC NOTICE	
(CHECK ONE): <input type="checkbox"/> INITIAL NOTICE <input type="checkbox"/> FOLLOW UP	Report No. _____ EPA 40 CFR Part 110.10 DOT 49 CFR Part 195.52
Company Employee received from:	
Time notified by _____ <input type="checkbox"/> AM or <input type="checkbox"/> PM Date: _____	
NOTE: IT IS NOT NECESSARY TO WAIT FOR ALL INFORMATION BEFORE CALLING	
CONDITIONS (Yes to any requires notification)	
Sheen on water <input type="checkbox"/> Yes <input type="checkbox"/> No	Fire <input type="checkbox"/> Yes <input type="checkbox"/> No
Explosions <input type="checkbox"/> Yes <input type="checkbox"/> No	Hospitalization or death <input type="checkbox"/> Yes <input type="checkbox"/> No
Property damage including value of lost product and repairs above \$50,000 \$ _____	
INFORMATION TO REPORT	
Company: _____	
Reporter: _____	
Telephone Number: _____	
Leak Location:	(address or distance from town, directions from major intersections, latitude, longitude, mile post or river mile)
County: _____	State: _____
Pipeline System Name: _____	

Name of body of water, river it flows to:	
Product spilled:	Amount: _____ bbls
Quantity in water:	
Regulated by:	DOT <input type="checkbox"/> Intrastate <input type="checkbox"/>
Storage tank Container Type:	Aboveground _____ Below ground _____
Tank/line size:	Time leak discovered: _____
Cause of leak : (Do not give unless sure)	


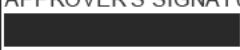
	DOCUMENT NAME Genesis Integrated Contingency Plan		DOCUMENT NUMBER GEN_COMP_GICP_1000P	PAGE 3 - 6
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FIGURE 3.1-3 - PIPELINE SPILL TELEPHONIC NOTICE, CONTINUED

PIPELINE SPILL TELEPHONIC NOTICE	
INFORMATION TO REPORT (page 2 of 2)	
Actions taken to correct or mitigate incident:	
Status of Cleanup:	
Agencies notified: (EPA, State, USCG, Other):	
IMPACT	
Number of: Injuries _____ Fatalities: _____	
Were there evacuations? <input type="checkbox"/> Yes <input type="checkbox"/> No Number of Evacuations _____	
Was there any damage ? <input type="checkbox"/> Yes <input type="checkbox"/> No Damage in \$ _____	
WEATHER CONDITIONS	
Temperature:	Humidity:
Wind Direction:	Wind Speed:
Soil Type - for liquids only (check one)	<input type="checkbox"/> Sand <input type="checkbox"/> Silt <input type="checkbox"/> Clay
Depth of Soil Contamination:	
INFORMATION TO OBTAIN FROM AGENCY	
Comments or questions:	

Follow-up reports required? <input type="checkbox"/> Yes <input type="checkbox"/> No		Frequency?
Name of agency personnel reported to:		
Report No.		
Signed:		Date:


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FIGURE 3.1-4 - INTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS

Note: Notification Forms can only be printed from the Section File (not available in the Forms Navigator)

*24 Hour Number

PIPELINE RESPONSE TEAM		
NAME/TITLE	PHONE NUMBER	RESPONSE TIME (hours)
Operations Control Center	(800) 806-5463 (Office) (713) 849-5928 *(Mobile)	N/A
Midland (Back-Up Control Center)	(713) 860-2760 (once transferred) (Office)	N/A
Steve Addkison Pipeline Operations Manager TX Primary Qualified Individual	(713) 860-2795 (Office) (832) 603-9937 *(Mobile)	
Chris Kuhn Control Center Supervisor	(713) 860-2754 (Office) (713) 545-2984 *(Mobile)	
Mike Moore Vice President and General Manager of Pipelines and Transportation	(713) 860-2760 (Office) (832) 250-0348 *(Mobile)	
Marty Hodgins Operations Specialist - Webster, TX	(281) 338-2622 (Office) (b) (6) (Home) (281) 573-5433 *(Mobile)	
Duane Durham I&E Manager - Webster, TX	(281) 338-2622 (Office) (b) (6) (Home) (832) 473-5123 *(Mobile)	
Travis Gaines Operations Specialist - Webster, TX	(281) 338-2622 (Office) (713) 476-8101 *(Mobile)	
Chris Fabrygel Operations Specialist - West	(713) 860-2798 (Office) (713) 551-1399 *(Mobile)	

Columbia, TX		
Renee Fairfax Pipeline Clerk - Houston, TX	(713) 860-2758 (Office)	

Refer to **APPENDIX A, FIGURE A.2-3** for personnel training records



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FIGURE 3.1-4 - INTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS, CONTINUED

Note: Notification Forms can only be printed from the Section File (not available in the Forms Navigator)

*24 Hour Number

EMERGENCY RESPONSE PERSONNEL AND BUSINESS UNIT NOTIFICATIONS						
NAME/TITLE	PHONE NUMBER	RESPONSE TIME (hours)	ICS POSITION	RESPONSE TRAINING TYPE ¹		
				1	2	3
Dean Duplantis Spill Planning and Response Manager	8322803013 (Office) 2819004077 *(Mobile) dean.duplantis@genlp.com (Email)		Operations	x	x	x
Trey Fegley Director of Optimization	(318) 607-4177 *(Mobile)		TPT Operations Section Chief			
Jeff Gifford VP HSSE	713-860-2542 (Office) 281-753-8891 *(Mobile)		Incident Commander			
Kristi Unzicker Manager Environmental Compliance	(713) 860-2606 (Office) (b) (6) (Home) (832) 506-5903 *(Mobile) kristi.unzicker@genlp.com (Email)		Planning Section Chief	x	x	x
John Jewett Manager, DOT Compliance and Security	713-860-2605 (Office) (713) 292-3881 *(Mobile) john.jewett@genlp.com (Email)		Liaison Officer			
Genesis Energy, L.P.	(713) 860-2500 (Office) (713) 860-2640 (Fax) (Office)	N/A				
Control Room	(713) 849-5928 (Office) (713) 860-2766 (One Call) (713) 849-9542 (Office)	N/A				

	(800) 280-7076 (MS) (800) 486-4113 (FL) (713) 849-2936 (CO2) (713) 860-2656 (Fax) (Office)					
Allen Lykins Manager, SCADA & Control Systems	(713) 860-2765 (Office) (b) (6) (Home) (713) 545-8268 *(Mobile)					

EMERGENCY RESPONSE TRAINING TYPE¹

There are three different types of training described below including HAZWOPER, OPA, and Qualified Individual/Incident Command Training. An "x" has been placed in the applicable columns (type 1, 2, or 3) in the table above for the type of training completed by each individual.

TYPE ¹	DESCRIPTION
1	29 CFR 1910.120 HAZWOPER
2	OPA (Training Reference for Oil Spill Response) All Facility Personnel, SMT, QI Components
3	Qualified Individual/Incident Command Training

NOTE: Refer to **APPENDIX A** for training dates.

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**FIGURE 3.1-4 - INTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

Note: Notification Forms can only be printed from the Section File (not available in the
Forms Navigator)

*24 Hour Number

EMERGENCY RESPONSE PERSONNEL AND BUSINESS UNIT NOTIFICATIONS						
NAME/TITLE	PHONE NUMBER	RESPONSE TIME (hours)	ICS POSITION	RESPONSE TRAINING TYPE ¹		
				1	2	3
Mike Moore Vice President and General Manager of Pipelines and Transportation	(713) 860-2760 (Office) (832) 250-0348 * (Mobile)			x	x	x
Grant Sims Chief Executive Officer	(713) 860-2525 (Office) (b) (6) (Home) (713) 253-2684 * (Mobile)					
Steve Nathanson President/COO	(713) 860-2660 (Office) (225) 603-8220 * (Mobile)					
Kristen Jesulaitis General Counsel	(713) 860-2684 (Office) (b) (6) (Home) (281) 753-8891 * (Mobile)					
Bob Deere CFO	(713) 860-2516 (Office) (b) (6) (Home)					

	(713) 392-2330 * (Mobile)					
Karen Pape Corp. Controller/Exec. V.P.	(713) 860-2926 (Office) (b) (6) (Home) (713) 304-3287 * (Mobile)					
Kathy Vicory Director of Human Resources	(713) 860-2546 (Office)					
Neal Bjorklund Director, Rail Services	(251) 296-1439 (Office) (b) (6) (Home) (251) 513-3215 * (Mobile)			x	x	x

EMERGENCY RESPONSE TRAINING TYPE¹

There are three different types of training described below including HAZWOPER, OPA, and Qualified Individual/Incident Command Training. An "x" has been placed in the applicable columns (type 1, 2, or 3) in the table above for the type of training completed by each individual.

TYPE ¹	DESCRIPTION
1	29 CFR 1910.120 HAZWOPER
2	OPA (Training Reference for Oil Spill Response) All Facility Personnel, SMT, QI Components
3	Qualified Individual/Incident Command Training

NOTE: Refer to **APPENDIX A** for training dates.

applicable columns (type 1, 2, or 3) in the table above for the type of training completed by each individual.

TYPE ¹	DESCRIPTION
1	29 CFR 1910.120 HAZWOPER
2	OPA (Training Reference for Oil Spill Response) All Facility Personnel, SMT, QI Components
3	Qualified Individual/Incident Command Training

NOTE: Refer to **APPENDIX A** for training dates.

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FIGURE 3.1-4 - INTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS, CONTINUED

Note: Notification Forms can only be printed from the Section File (not available in the Forms Navigator)

*24-Hour Number

EMERGENCY RESPONSE CONTRACTORS						
NAME/TITLE	PHONE NUMBER	RESPONSE TIME (hours)	RESPONSIBILITY DURING RESPONSE ACTION	RESPONSE TRAINING TYPE ¹		
				1	2	3
Clean Harbors Environmental Services	(800) 645-8265	0		x	x	x
Garner Environmental	(281) 930-4402 (800) 424-1716	1		x	x	x
U.S. Environmental Services (USES)	(888) 279-9930* (281) 867-4100	1		x	x	x
OMIES	(800) 645-6671* (713) 534-7300	1		x	x	x
EMERGENCY RESPONSE TRAINING TYPE ¹						
There are three different types of training described below including HAZWOPER, OPA, and Qualified Individual/Incident Command Training. An "x" has been placed in the applicable columns (type 1, 2, or 3) in the table above for the type of training completed by each individual.						
TYPE ¹	DESCRIPTION					
1	29 CFR 1910.120 HAZWOPER					
2	OPA (Training Reference for Oil Spill Response) All Facility Personnel, SMT, QI Components					
3	Qualified Individual/Incident Command Training					

Note: Refer to **APPENDIX A** for training dates.

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FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Initial		
National Response Center	(800) 424-8802* (202) 267-2180 (202) 267-1322 (fax) - Notify immediately for any spill to water	
Recommended		
Federal Agencies		
FBI Texas City	(409) 935-7327	
Occupational Safety and Health Administration (OSHA), Washington, D.C.	(800) 321-6742*	
Office of Pipeline Safety ? Southwestern Region (PHMSA)	(713) 272-2820	
U.S. Coast Guard ? Marine Safety Office (USCG - MSO) - Houston, TX	(713) 671-5100	
U.S. Corps of Engineers - Galveston District	(409) 766-3899	
U.S. Department of Transportation Office of Pipeline Safety	(800) 424-8802 (emergency) (202) 267-2675 (202) 366-4433	
U.S. Environmental Protection Agency, Region VI	(214) 655-2270 (214) 655-2222 (emergency) (214) 665-6444	
U.S. Fish and Wildlife Service (USFWS) - Clear Lake, TX	(281) 286-8282	
State Agencies - Texas		
Highway Patrol - Andrews, TX	(432) 524-1443	

Highway Patrol - Brazoria County	(979) 864-1522	
Highway Patrol - Texas City	(409) 938-7899	
Highway Patrol - Webster, TX	(281) 990-0599	
Highway Patrol - Wharton County	(979) 532-1740	
Public Safety-Highway Patrol - Weatherford, TX	(817) 594-7422	
Texas Commission of Environmental Quality (TCEQ)	(409) 898-3838 (Region 10) (713) 767-3500 (Region 12) (361) 825-3100 (Region 14) (956) 791-6611 (Region 16)	
Texas Commission of Environmental Quality (TCEQ)	(800) 832-8224 (806) 353-9251 (Region 1) (817) 588-5800 (Region 4) (432) 570-1359 (Region 7) (254) 751-0335 (Region 9)	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
State Agencies - Texas		
Texas General Land Office (TGLO)	(800) 832-8224 (Emergency) (512) 463-5001 (Direct)	
Texas Parks and Wildlife	(512) 389-4636	
Texas Railroad Commission	(512) 463-6788 (Austin) (432) 684-5581 (Region 8) (713) 869-5001 (District 3) (361) 242-9613 (District 4)	
County Agencies - Texas		
Andrews County		
Andrews Ambulance	(432) 523-5675	
Andrews Fire Station	(432) 523-3111	
Permian Regional Medical Center	(432) 523-2200	
Andrews County Sheriff	(432) 523-5545	
Constables	(432) 523-5545	
Police Department	(432) 523-5675	
Andrews County LEPC	911* (Spill)	

	(432) 524-1401	
Brazoria County		
Alvin Medical Center (Ambulance)	(281) 331-6141	
Starfire EMS	(281) 388-1411	
Texas EMS Ambulance Corp	(281) 331-1111	
Alvin Volunteer Fire Department	(281) 585-8536	
Angleton Fire Department	(979) 549-0599	
Manvel Volunteer Fire Department	(281) 692-0279 911*	
West Columbia Volunteer Fire Department	(979) 345-5121 911*	
Angleton Danbury General Hospital	(281) 393-2117	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
County Agencies - Texas		
Brazoria County		
Brazosport Memorial Hospital	(979) 297-4411	
Alvin Police Department	(281) 388-4370	
Angleton Police Department	(979) 849-2383	
Brazoria County Sheriff's Department	(979) 849-2441 (Central & West) (979) 265-9310 (South) (979) 331-9000 (North) (979) 864-2392 (North)	
West Columbia Police Department	(979) 345-5121	
Brazoria County LEPC	(979) 864-2392 (24hr) 911* (Spill) (979) 864-1801 (Admin)	
Duval County		
Duval County LEPC	(361) 279-6214 911* (Spill)	
Galveston County		
Columbia Mainland Medical Center (Ambulance)	(409) 948-2525	

Dickinson Volunteer Fire Department	(284) 534-3031 911*	
Friendswood Volunteer Fire Department Station 1	(281) 996-3360 911*	
League City Fire Department	(251) 554-1465 911*	
Texas City Central Fire Department	(409) 643-5741 (409) 643-5721 911*	
Columbia Mainland Medical Center	(409) 938-5000	
Dickinson Police Department	(281) 337-4700 911*	
Friendswood Police Department	(281) 996-3300 911*	
Galveston County Sheriff's Department	(281) 534-3515	
Texas City Police Department	(409) 948-2525 911*	
Emergency Management - Texas City	(409) 643-5840	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
County Agencies - Texas		
Galveston County		
Galveston County LEPC	(281) 534-8442 911* (Spill)	
Hansford County		
Hansford County LEPC	(806) 659-4100 911*	
Harris County		
Houston Northwest Medical Center (Ambulance)	(713) 884-3142	
Deer Park Fire Department	(281) 479-1511	
Houston Fire Department	(713) 884-3142	
Pasadena Fire Department	(713) 477-1122 911*	
Webster Fire Department	(281) 332-2711 (non emergency) (281) 332-2426 911*	
Bay Shore Medical Center	(713) 359-2000	
Clear Lake Regional Medical Center	(281) 332-2511	
Houston Northwest Medical Center	(281) 440-2146	

Deer Park Police Department	(281) 479-1511 911*	
Houston Police Department	(713) 222-3131 911*	
Pasadena Police Department	(713) 477-1221 911*	
Sheriff's Department	(713) 221-6000 911*	
Webster Police Department	(281) 332-2426 911*	
Harris-Deer Park LEPC	(281) 478-7248 (281) 479-1511 (Spill)	
Harris-Houston (City Limits) LEPC	(713) 884-4227 (713) 884-4227 (Spill)	
Harris-South Houston LEPC	911* (Spill)	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
County Agencies - Texas		
Harris County		
Harris-Southeast Regional LEPC	(713) 740-8427 911* (Spill)	
Madison County		
Madison County LEPC	(936) 348-2670 911* (Spill)	
Midland County		
Midland County Fire Marshal	(432) 688-8915	
Midland Fire Department	(432) 685-7332	
Northeast Midland County Fire	(432) 686-9383	
Midland Memorial Hospital	(432) 685-1111	
Midland Police Department	(432) 685-7108	
Midland County Sheriff Department	(432) 688-4600	
Midland County LEPC	(432) 688-4160 911* (Spill)	
Orange County		
Orange County LEPC	(409) 882-7896 911* (Spill)	
Parker County		

Aledo Fire Station	(817) 441-2856	
Campbell Health System	(817) 596-8751	
Parker County Sheriff Department	(817) 594-8845	
Weatherford Police Department	(817) 598-4329	
Parker County Emergency Mgmt	(817) 598-0969	
Parker County LEPC	(817) 598-4282 911* (Spill)	
Upton County		
McCamey Fire Department	(432) 652-8232	
McCamey Hospital	(432) 652-8626	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
County Agencies - Texas		
Upton County		
Upton County Sheriff's Office	(432) 693-2422	
Upton County LEPC	(432) 693-2321 911* (Spill)	
Victoria County		
Victoria County LEPC	(361) 485-3362 911* (Spill)	
Wharton County		
El Campo Memorial Hospital (Ambulance)	(979) 543-1414	
El Campo Fire Department	(979) 543-3335 911*	
El Campo Memorial Hospital	(979) 543-6251	
El Campo Police Department	(979) 543-5311 911*	
Sheriff's Department	(979) 532-1550	
Wharton County LEPC	(979) 532-1123 911* (Spill)	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
USCG CLASSIFIED OSRO		
Clean Harbors Environmental Services Houston, TX	(800) 645-8265	
Garner Environmental Deer Park, TX	(281) 930-4402 (800) 424-1716	
OMIES Pasadena, TX	(800) 645-6671* (713) 534-7300	
U.S. Environmental Services (USES) Deer Park, TX	(888) 279-9930* (281) 867-4100	
Aviation Companies		
Halley's Aerial Patrol	(903) 684-3171 (Office) (903) 631-9531 (Cell)	
Houston Helicopter	(281) 485-1777	
Petroleum Helicopter, Inc. (PHI)	(409) 744-5286 (409) 740-6511	
Petroleum Helicopters	(281) 313-7532	
Southern Helicopter	(225) 642-0075	
Service Providers		
Bensen Pipeline Maintenance	(281) 996-0121	

Conestoga-Rovers & Associates - Houston, TX	(713) 734-3090	
Cypress Creek Pipe Line Maintenance	(281) 412-2400	
Driver Pipeline Co., Inc.	(281) 482-4019	
Earth Consulting Group Southwest, LLC	(601) 951-8120 (Madison, MS) (713) 256-0461 (Houston, TX)	
Environmental Science Services (ES2) - Baton Rouge, LA	(225) 927-7171 (877) 683-4469	
Floyd Permenter - Kingwood, TX	(281) 360-7367	
O'Brien Response Management Associates - Spring, TX	(958) 781-0804* (281) 320-9796 (281) 320-9700 (fax)	
Quality Pipeline Construction	(432) 620-0812	

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**FIGURE 3.1-5 - EXTERNAL NOTIFICATIONS AND TELEPHONE NUMBERS,
CONTINUED**

*24 Hour Number

AFFILIATION	PHONE NUMBER	TIME CONTACTED
Recommended , Continued		
Service Providers		
Quanta Utility Services, Inc.	(817) 202-3990	
Sunland Construction, Inc.	(281) 457-6489	
Technical Response Planning Corp. (TRP) - Houston, TX	(281) 955-9600	
The Godwin Group - Jackson, MS	(601) 354-5711	
W.E. Hayden Lease Service	(361) 771-3684	
Weather		
Impact Weather - http://www.impactweather.com	(877) 792-3220	
National Weather Service (Recorded Forecasts) - Galveston, TX	(281) 337-5074 ext. 1	
Wildlife Rehabilitation		
Wildlife Rehab & Education	(281) 332-8319 (Office) (281) 279-1417 (Pager) (281) 418-8100	


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FIGURE 3.1-6 - REPORTING REQUIREMENTS

AGENCY / ADDRESS	REPORTING REQUIREMENT
<p>Department of Transportation, Attn: Information Resources Manager, Office of Pipeline Safety 1200 New Jersey Avenue, SE; East Building, 2nd Floor (PH) Washington, D.C. 20590</p>	<p>TYPE: In addition to the reporting of accidents to the NRC, a written accident report (DOT Form 7000-1 must be submitted on any incident meeting any of the following and which is the result of liquid or vapor release:</p> <ol style="list-style-type: none"> 1. Explosion or fire not intentionally set by our authorized personnel; 2. Loss of five barrels or more of liquid (gross barrels released) on company property/ROW; 3. Loss of five gallons or more of liquid (gross gallons released) offsite/company property; 4. Escape to the atmosphere of more than five barrels a day of highly volatile liquids; 5. Death of any person; 6. Estimated damage to company property or other property that exceeds \$50,000; or 7. Bodily harm to any person resulting in one or more of the following: <ul style="list-style-type: none"> - Loss of consciousness; - Necessity to carry the person from the scene; - Necessity for medical treatment; or - Disability which prevents the discharge of normal duties or the pursuit of normal activities beyond the day of the accident. <p>VERBAL: Call to the NRC meets this requirement.</p> <p>WRITTEN: As soon as practicable, an accident meeting any of the above criteria must be reported on DOT Form 7000-1. (See Appendix B for form.) The report must be sent to DOT no later than 30 days after the release.</p>
National Response Center (NRC)	<p>TYPE: A telephone report must be submitted for any failure in a pipeline system that:</p>


Washington, D.C.	<ol style="list-style-type: none"> 1. Caused a death or a personal injury requiring hospitalization; 2. Resulted in either a fire or explosion not intentionally set by the carrier; 3. Caused estimated damage to the property of the carrier or others or both, of a total of \$50,000 or more; 4. Resulted in the pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water or adjoining shore line, causing a discoloration or emulsion beneath the surface of the water or upon adjoining shorelines; or 5. In the judgment of the carrier, was significant even though it did not meet any of the above criteria. <p>VERBAL: Immediately</p> <p>WRITTEN: Not required</p>
<p>Texas Commission on Environmental Quality (TCEQ)</p> <p>, TX</p>	<p>TYPE: Any spills or release into the environment in non-coastal areas; including air releases and fires within the state</p> <p>VERBAL: Immediately</p> <p>WRITTEN: As requested</p> <p>Region 1 ? Amarillo 3918 Canyon Dr. Amarillo, TX 79109-4933</p> <p>Region 4 ? Dallas/Ft. Worth 2309 Gravel Dr. Fort Worth, TX 76118-6951</p> <p>Region 7 ? Midland 3300 North A St., Bldg 4-107 Midland, TX 79705-5406</p> <p>Region 9 ? Waco 6801 Sanger Ave., Ste. 2500 Waco, TX 76710-7826</p> <p>Region 10 ? Beaumont 3870 Eastex Fwy.</p>

Beaumont, TX 77703-1830

Region 12 ? Houston
5425 Polk St., Ste H
Houston, TX 77023-1452

Region 14 ? Corpus Christi
NRC Bldg., Ste. 1200
6300 Ocean Dr., Unit 5839
Corpus Christi, TX 78412-5839

Region 16 ? Laredo
707 East Calton Rd., Ste. 304
Laredo, TX 78041-3887

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SECTION 4

Last Revised: February 2009

RESPONSE TEAM ORGANIZATION

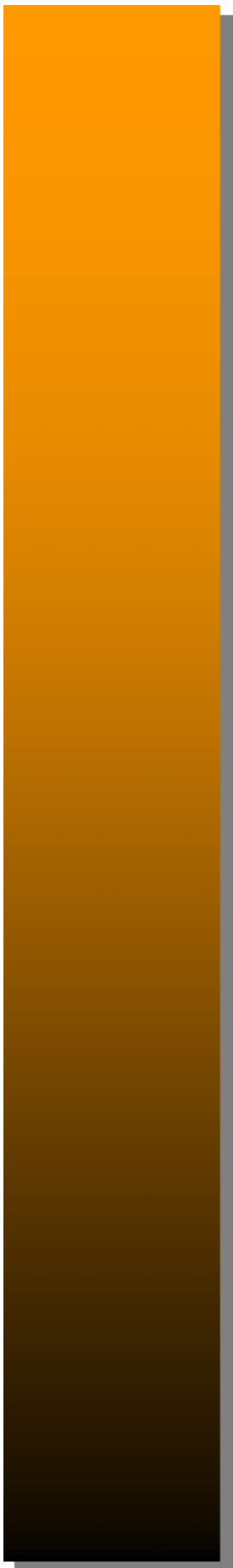
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4.1 Description4.2 Activation Procedures4.3 Team Member Response Times4.4 Incident Command System / Unified Command4.5 Qualified Individual (QI)

Figure 4.5-1 - Spill Management Team (SMT) Activation Procedure

Figure 4.5-2 - Spill Management Team (SMT) Organization Chart

4.6 Spill Management Team (SMT) Job Descriptions and Guidelines



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4.1 DESCRIPTION

The Company has developed its emergency response organization around the Incident Command System (ICS), which provides the structure for effective management of response resources. The Spill Management Team (SMT) has been created and organized to plan for and manage oil spills and other emergencies.

The SMT is composed of Company personnel from offices within the Area. Additional personnel from outlying offices can be used (if needed). The SMT will develop strategies and priorities for a response, then will supervise contractors, handle safety and security matters, and will provide logistical support for contractor personnel. The SMT will handle all communications with the media and the public. Job descriptions for each SMT member are provided in **SECTION 4.6**. The SMT will train by participating in exercises as noted in **APPENDIX A**.

4.2 ACTIVATION PROCEDURES

Activation of the SMT may be accomplished in stages. Initially, the First Responder assumes the role of Incident Commander (IC). During a spill incident, the initial IC may be able to respond without assistance from the SMT. If the situation requires more resources, he may request additional personnel or management support from the SMT. This request is made to the Qualified Individual (QI). Depending on the situation, the QI may then assume the role of Incident Commander. The QI would then call out the other SMT members. The SMT activation procedure is provided in **FIGURE 4.5-1**.

4.3 TEAM MEMBER RESPONSE TIMES

See **SECTION 3.1** for each team member's response time "EPA Facilities only".



4.4 INCIDENT COMMAND SYSTEM / UNIFIED COMMAND

The Incident Command System (ICS) will be used by the Company SMT for spill response. The SMT organization chart is provided in **FIGURE 4.5-2**. The organization can be expanded or contracted as necessary. If an OSRO or other contractor is used to staff ICS positions for the Spill Management Team, the commitment will be specified in writing.

The Unified Command System (UCS) is the accepted method of organizing key spill management entities within the Incident Command System. The primary entities include:

- Federal On-Scene Coordinator (FOSC)
- State On-Scene Coordinator (SOSC)
- Company Incident Commander

These three people share decision-making authority within the Incident Command System and are each responsible for coordinating other federal, state, and company personnel to form an effective integrated Spill Management Team. Refer to **SECTION 4.6** for detailed checklists of the SMT roles and responsibilities as well as organizational interfaces with external parties.

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4.5 QUALIFIED INDIVIDUAL (QI)

The Qualified Individual (QI) is an English-speaking representative, available on a 24-hour basis, and trained in the responsibilities outlined in this section. The QI has the following responsibilities and authorities as required by the Oil Pollution Act of 1990 (OPA 90):

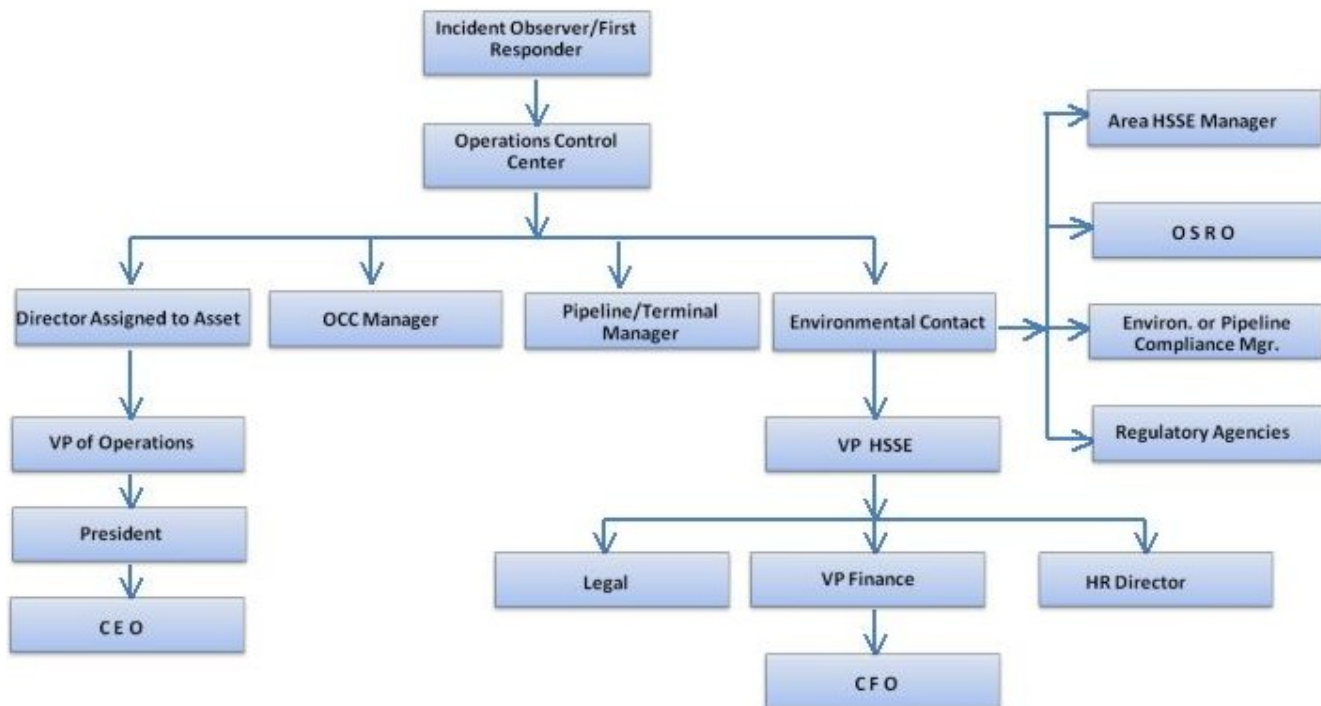
- Activate internal alarm and hazard communication systems to notify all appropriate personnel.
- Notify all response personnel and contractors (as needed).
- Identify the character, exact source, amount, and extent of the release and other necessary items needed for notifications.
- Notify and provide information to appropriate federal, state, and local authorities.
- Assess the interaction of the spilled substance with water and/or other substances stored at the facility and notify on-scene response personnel of assessment.
- Assess possible hazards to human health and the environment.
- Assess and implement prompt removal actions.
- Coordinate rescue and response actions.
- Access Company funds to initiate cleanup activities.
- Direct cleanup activities until properly relieved of the responsibility or the incident is terminated.

For further information on Qualified Individual's training, refer to **APPENDIX A**. Phone numbers for Qualified Individuals are provided in **FIGURE 1-2** and **SECTION 3.1**.

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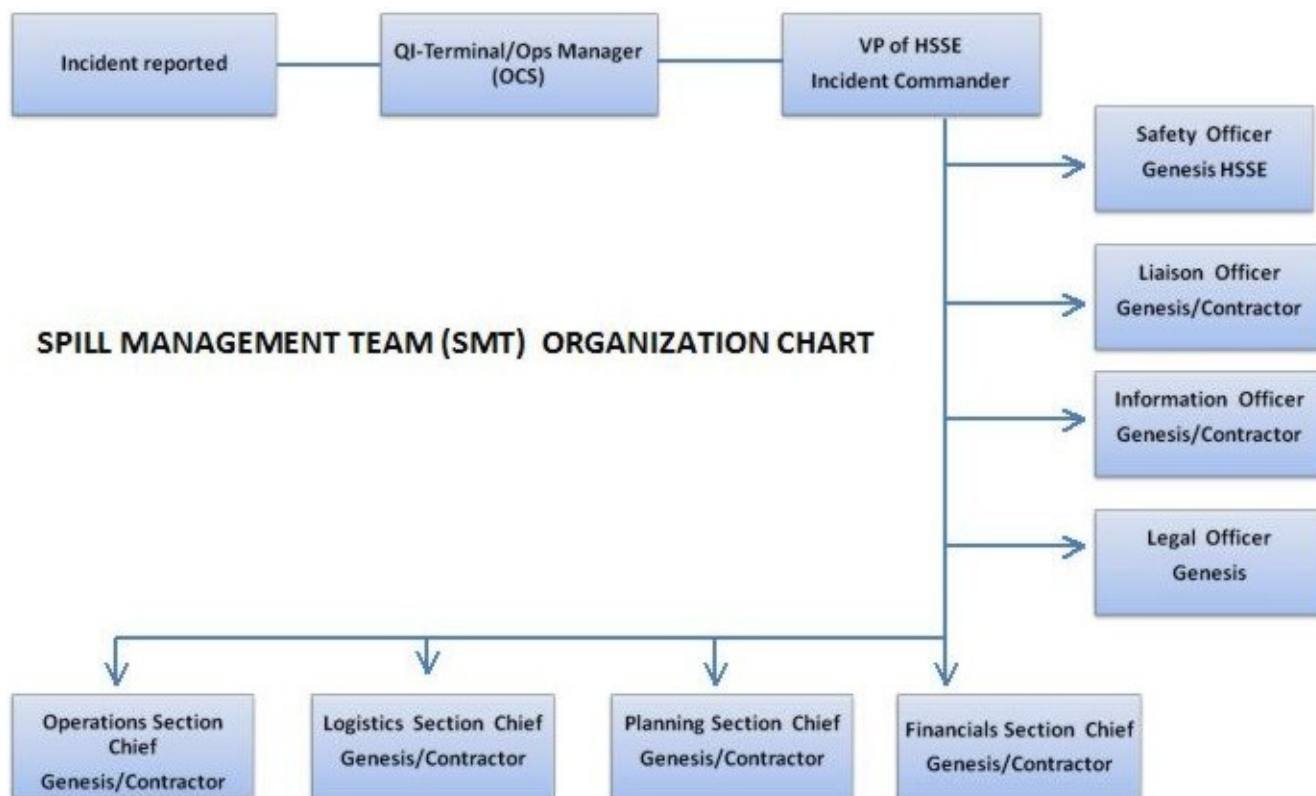
FIGURE 4.5-1 - SPILL MANAGEMENT TEAM (SMT) ACTIVATION PROCEDURE



**GENESIS EMERGENCY NOTIFICATION
FLOW CHART**



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FIGURE 4.5-2 - SPILL MANAGEMENT TEAM (SMT) ORGANIZATION CHART


[\(Click here for larger view\)](#)

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4.6 SPILL MANAGEMENT TEAM (SMT) JOB DESCRIPTIONS AND GUIDELINES

The following job descriptions and guidelines are intended to be used as a tool to assist SMT members in their particular positions within the Incident Command System (ICS):

- Incident Commander
- Safety Officer
- Operations Chief
- Planning Chief
- Logistics Chief
- Finance Chief
- Information Officer
- Liaison Officer

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INCIDENT COMMANDER

The Incident Commander (IC) manages all activities related to an emergency response and acts as Qualified Individual (QI). As such, the IC needs to be familiar with the contents of the Facility Response Plan (FRP), Oil Spill Response Plan (OSRP), Emergency Response Action Plan (ERAP), and the Spill Prevention Control and Countermeasure Plan (SPCC). The IC must also be familiar with the operation of the Incident Command System (ICS) and the Unified Command Structure (UCS).

The primary goal of this system is to establish and maintain control of the emergency response. If the emergency involves a multi-jurisdictional response (Federal and State), the Unified Command Structure (UCS) should be established. **Realize that the Federal On-Scene Coordinator (FOSC) does have the authority to override the Incident Commander and assume control of the response.** Every effort should be made to establish a collaborative relationship to manage the incident site with the appropriate responding agencies.


As soon as possible but not later than one (1) week following an incident, the Incident Commander shall conduct a critique of the response and follow-up of action items. Participants shall include Operations Control personnel, Company supervisors, and employees and outside agencies involved in the response. An Incident Debriefing Form is provided in **FIGURE 8.3-1**.

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Establish Incident Command/Unified Command Post.
- ☐ Activate necessary section(s) of the Incident Command System (ICS) to deal with the emergency. Fill out the appropriate section(s) of the Incident Command organization chart and post it at the Incident Command Center.
- ☐ Develop goals and objectives for response.
- ☐ Work with Safety Officer and Planning Section Chief to develop a Site Safety Plan (SSP).
- ☐ Approve, authorize, and distribute Incident Action Plan (IAP) and SSP.
- ☐ Conduct planning meetings and briefings with the section chiefs.
- ☐ As Qualified Individual coordinate actions with Federal On-Scene Coordinator (FOSC) and State On-Scene Coordinator (SOSC).
- ☐ In a multi-jurisdictional response, ensure that all agencies are represented in the ICS.
- ☐ Coordinate and approve media information releases with the FOSC, SOSC,

and Public Information Officer (PIO).

- ☐ Keep management informed of developments and progress.
- ☐ Authorize demobilization of resources as they are no longer needed.
- ☐ Complete Standard Incident Debriefing Form (**FIGURE 8.3-1**).

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SAFETY OFFICER

The Safety Officer is responsible for assessing and monitoring hazardous and unsafe situations at the emergency response site(s). The Safety Officer must develop measures that assure the safety of the public and response personnel. This involves maintaining an awareness of active and developing situations, ensuring the preparation and implementation of the Site Safety Plan (SSP) and assessing safety issues related to the Incident Action Plans (IAP).

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from Incident Commander (IC).
- ☐ Develop, implement, and disseminate SSP with IC and section chiefs.
- ☐ Participate in planning meetings and briefings.
- ☐ Establish safety staff if necessary.
- ☐ Identify emergency contact numbers. Fill out emergency contact chart and post in the Incident Command Center.
- ☐ Conduct safety briefings with all emergency responders.
- ☐ Investigate accidents that have occurred during emergency response.
- ☐ Ensure proper hazard zones are established.
- ☐ Ensure all emergency responders have appropriate level of training.
- ☐ Ensure proper Personal Protective Equipment (PPE) is available and used.
- ☐ Advise Security/Medical Group Leader concerning PPE requirements.
- ☐ Ensure emergency alarms/warning systems are in place as needed.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).


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OPERATIONS CHIEF

The Operations Chief is responsible for the management of all operations applicable to the field response and site restoration activities. Operations directs field activities based on the Incident Action Plan (IAP) and Site Safety Plan (SSP).

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from Incident Commander (IC).
- ☐ Participate in Incident Command planning meetings and briefings.
- ☐ Conduct planning meetings and briefings for Operations Section.
- ☐ Develop operations portion of IAP.
- ☐ Supervise the implementation of the IAP.
- ☐ Make or approve expedient changes to the IAP.
- ☐ Request resources needed to implement IAP.
- ☐ Approve list of resources to be released.
- ☐ Ensure safe tactical operations.
- ☐ Establish a staging area for personnel and equipment.
- ☐ Confirm first responder actions.
- ☐ Confirm the completion of rescue/evacuation and administering of first aid.
- ☐ Confirm site perimeters have been established.
- ☐ Coordinate activities of public safety responders, contractors, and mutual assistance organizations.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).

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PLANNING CHIEF

The Planning Chief is responsible for collecting, evaluating, and disseminating information related to the current and future events of the response effort. The Planning Chief must understand the current situation; predict the future course of events; predict future needs; develop response and cleanup strategies; and review the incident once complete.

The Planning Chief must coordinate activities with the Incident Commander (IC) and other Chiefs to ensure that current and future needs are appropriately handled.

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from the IC.
- ☐ Establish and maintain communication with IC and other Section Chiefs.
- ☐ Advise IC on any significant changes of incident status.
- ☐ Conduct planning meetings and briefings for Planning section.
- ☐ Coordinate and provide input to the preparation of the Incident Action Plan (IAP).
- ☐ Participate in Incident Command planning meetings and briefings.
- ☐ In a multi-jurisdictional response, ensure that all agencies are represented in the Planning Section.
- ☐ Coordinate future needs for the emergency response.
- ☐ Determine response personnel needs.
- ☐ Determine personnel needs and request personnel for Planning section.
- ☐ Assign technical specialists (archaeologists, historians, biologists, etc.) where needed.
- ☐ Collect and analyze information on the situation.
- ☐ Assemble information on alternative response and cleanup strategies.
- ☐ Ensure situation status unit has a current organization chart of the Incident Command Organization.
- ☐ Provide periodic spill movement/migration prediction.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).


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LOGISTICS CHIEF

The Logistics Chief is responsible for procuring facilities, services, and material in support of the emergency response effort.

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from the Incident Commander (IC).
- ☐ Participate in Incident Command planning meetings and briefings.
- ☐ Conduct planning meetings and briefings for Logistics section.
- ☐ Participate in the preparation of the Incident Action Plan (IAP).
- ☐ Identify service and support requirements for planned operations.
- ☐ Identify sources of supply for identified and potential needs.
- ☐ Advise IC on current service and support requirements.
- ☐ Procure needed materials, equipment and services from sources by means consistent with the timing requirements of the IAP and Operations.
- ☐ Ensure all purchases are documented.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).


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FINANCE CHIEF

The Finance Chief is responsible for accounting, legal, right-of-way and risk management functions that support the emergency response effort. In this role, the primary responsibility is supporting the Command Staff and Logistics Section matters pertaining to expenses during and following the emergency response.

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from Incident Commander (IC).
- ☐ Participate in Incident Command planning meetings and briefings.
- ☐ Conduct planning meetings and briefings for Finance section.
- ☐ Participate in preparation of the Incident Action Plan (IAP).
- ☐ Participate in planning meetings.
- ☐ Participate in Unified Command System (UCS) as incident warrants.
- ☐ Request assistance of corporate accounting, legal, right-of-way or risk management as needed.
- ☐ Assist with contracting administration.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).

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INFORMATION OFFICER

The Information Officer (IO) provides critical contact between the media/public and the emergency responders. The IO is responsible for developing and releasing information about the incident to the news media, incident personnel, appropriate agencies and public. When the response is multi-jurisdictional (involves the federal and state agencies), the IO must coordinate gathering and releasing information with these agencies.

The IO needs to communicate that the Company is conducting an effective response to the emergency. The IO is responsible for communicating the needs and concerns of the public to the Incident Commander (IC).

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from IC.
- ☐ Participate in all planning meetings and briefings.
- ☐ Obtain outside information that may be useful to incident planning.
- ☐ Develop goals and objectives regarding public information.
- ☐ Arrange for necessary workspace, materials, telephones and staffing for Public Information Center (PIC).
- ☐ Establish a PIC, ensuring all appropriate agencies participate.
- ☐ Provide a single point of media contact for the IC.
- ☐ Coordinate media access to the response site as approved by the IC.
- ☐ Obtain approval for release of information from the IC.
- ☐ Arrange for meetings between media and emergency responders.
- ☐ Maintain list of all media present.
- ☐ Participate in Post Incident Review (**SECTION 8.3**)


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LIAISON OFFICER

If a Unified Command Structure is not established, a Liaison Officer is appointed as the point of contact for personnel assigned to the incident from assisting or cooperating agencies.

Responsibilities:

- ☐ Maintain Activity Log.
- ☐ Obtain briefing from Incident Commander (IC).
- ☐ Participate in planning meetings and briefings.
- ☐ Identify and maintain communications link with agency representatives, assisting, and coordinating agencies.
- ☐ Identify current or potential inter-organizational issues and advise IC as appropriate.
- ☐ Coordinate with Legal Group Leader and Public Information Officer (PIO) regarding information and documents released to government agencies.
- ☐ Participate in Post Incident Review (**SECTION 8.3**).

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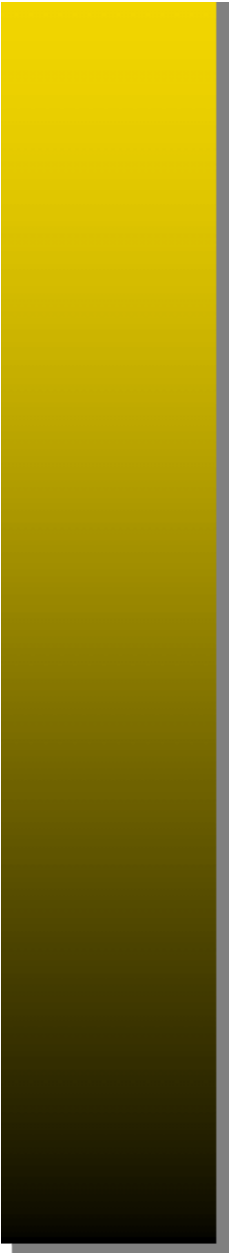
SECTION 5


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INCIDENT PLANNING

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5.1 Documentation Procedures5.2 Incident Action Plan Process and MeetingsFigure 5.2-1 Operational Period Planning Cycle5.2.1 Incident Occurs / Notifications5.2.2 Initial Response and Assessment5.2.3 Unified Command Objectives Meeting5.2.4 Tactics Meeting5.2.5 Planning Meeting5.2.6 Incident Action Plan (IAP) Preparation and Approval5.2.7 Operations Briefing5.2.8 Assess Progress5.2.9 Initial Unified Command Meeting5.2.10 Command Staff Meeting5.2.11 Command and General Staff Breakfast / Supper5.2.12 Business Management Meeting5.2.13 Agency Representative Meeting5.2.14 News Briefing



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SECTION 5

INCIDENT PLANNING, CONTINUED

5.3 ICS Forms

5.3.1 Incident Briefing ICS 201-OS

5.3.2 Incident Action Plan (IAP) Cover Sheet

5.3.3 Incident Objectives ICS 202-OS

5.3.4 Organization Assignment List ICS 203-OS

5.3.5 Assignment List ICS 204-OS

5.3.6 Communications Plan ICS 205-OS

5.3.7 Medical Plan ICS 206-OS

5.3.8 Incident Status Summary ICS 209-OS

5.3.9 Unit Log ICS 214-OS

5.3.10 Individual Log ICS 214a-OS

5.4 Site Safety and Health Plan

5.5 Decontamination Plan

5.6 Disposal Plan

5.7 Incident Security Plan

5.8 Demobilization Plan

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5.1 DOCUMENTATION PROCEDURES

Documentation of a spill response provides a historical record, keeps management informed, serves as a legal instrument, and is a means to account for the cleanup costs.

Documentation should begin immediately upon spill notification and continue until termination of all operations. Documentation should include the following:

- Spill origin and characteristics,
- Sampling surveys,
- Photographic surveys,
- Climatological data,
- Labor and equipment accounting, and
- Copies of all logs, contracts, contacts, and plans prepared for the incident.

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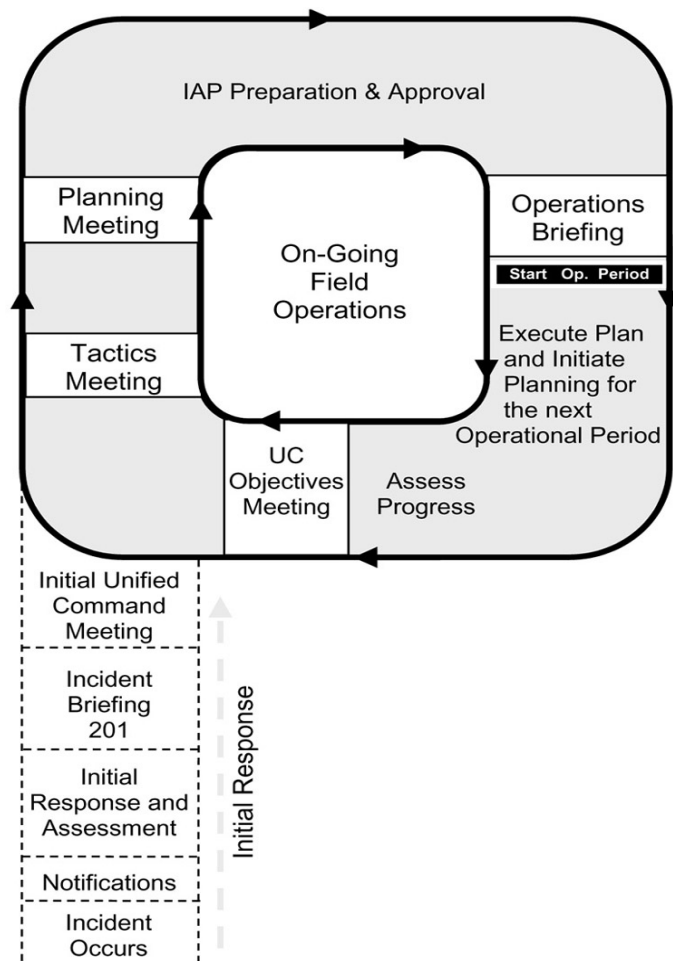
5.2 INCIDENT ACTION PLAN PROCESS AND MEETINGS



The period of **INITIAL RESPONSE AND ASSESSMENT** occurs in all incidents. Short-term responses (small in scope and/or duration, e.g., few resources working one operational period) often can be coordinated using only ICS 201 Briefings.

Long-term, more complex responses, will likely require a dedicated Planning Section Chief (PSC) who must arrange for transition into the **OPERATIONAL PERIOD PLANNING CYCLE**. Certain meetings, briefings, and information-gathering during the Cycle lead to the Incident Action Plan (IAP) that guides operations of the next operational period. Only the meetings and events directly relevant to assembling the IAP are described. The IC/UC specifies the operational periods (e.g., 12-hour shifts, sunrise to sunset, 24-hour shifts etc.).

The **SPECIAL PURPOSE** meetings are most applicable to larger incidents requiring an **OPERATIONAL PERIOD PLANNING CYCLE**, but may have utility during **INITIAL RESPONSE AND ASSESSMENT**. The **UNIFIED COMMAND MEETING** and other special purpose meetings are briefly noted.

FIGURE 5.2-1 OPERATIONAL PERIOD PLANNING CYCLE



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5.2.1 Incident Occurs / Notifications

When an incident occurs, notifications will be made to the appropriate Federal, State, and Local agencies and the initial assessment and response actions will begin.

5.2.2 Initial Response and Assessment

INCIDENT BRIEFING (ICS 201)

During the transfer of command process, an ICS 201 formatted briefing provides the incoming IC/UC with basic information regarding the incident situation and the resources allotted to the incident. Most importantly, it is the de facto Incident Action Plan (IAP) for the initial response and remains in force and continues to develop until the response ends or the Planning Section generates the incident's first IAP. It also is suitable for briefing individuals newly assigned to Command and General Staff, as well as needed assessment briefings for the staff.

When: New IC/UC; staff briefing, as required
 Briefer: Current IC/UC
 Attendees: Prospective IC/UC; Command, and General Staff, as required
 Agenda: Using ICS 201 as an outline, included:

1. Situation (note territory, exposures, safety concerns, etc.; use map/charts).
2. Objectives and priorities.
3. Strategies and tactics.
4. Current organization.
5. Resource assignments.
6. Resources enroute and/or ordered.
7. Facilities established.


OPERATIONAL PERIOD PLANNING CYCLE
 (Events most related to assembling IAP)

5.2.3 Unified Command Objectives Meeting

The IC/UC will review/identify and prioritize objectives for the next operational period for the ICS 202 form. Objectives from the previous operational period are reviewed and any new objectives are identified.

When: Prior to Tactics Meeting
 Facilitator: UC Member
 Attendees: UC Members; Command and General Staff, as appropriate
 Agenda:

1. Review/identify objectives for the next operational period (clearly stated and attainable with the resources available, yet flexible enough to allow Operations Section Chief to choose tactics).
2. Review any open agenda items from initial/previous meetings.

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5.2.4 Tactics Meeting

This 30-45 minute meeting creates the blueprint for tactical deployment during the next operational period. In preparation for the Tactics Meeting, the Planning Section Chief and Operations Section Chief review the current IAP and situation status information, as provided through the Situation Unit, to assess work progress against IAP objectives. The Operations Section Chief/Planning Section Chief will jointly develop primary and alternate strategies to meet objectives for consideration at the next Planning Meeting.

When: Prior to Planning Meeting

Facilitator: Planning Section Chief

Attendees: Planning Section Chief, Operations Section Chief, Logistics Section Chief, Resources Unit Leader, Situation Unit Leader, and Environmental Unit Leader

Agenda:

1. Review the objectives for the next operational period.
2. Develop strategies (primary and alternatives).
3. Prepare a draft of ICS 215 to identify resources that should be ordered through Logistics.

5.2.5 Planning Meeting


This meeting defines incident objectives, strategies, and tactics and identifies resource needs for the next operational period. Depending on incident complexity, this meeting should last no longer than 45 minutes. This meeting fine-tunes objectives and priorities, identifies and solves problems, and defines work assignments and responsibilities on a completed ICS Form 215 (Operations Planning Worksheet). Meeting preparations include conducting a Tactics Meeting. Displays in the meeting room should include Objectives (ICS 202) for the next operational period, large sketch maps or charts clearly dated and timed, poster-size Operational Planning Worksheet (ICS 215), current resource inventory prepared by Resources Unit, and current situation status displays prepared by Situation Unit. After the meeting, the ICS 215 is used by the Logistics Section Chief to prepare the off-incident tactical and logistical resource orders, and used by Planning Section Chief to develop IAP assignment lists.

When: After the Tactics Meeting

Facilitator: Planning Section Chief

Attendees: Determined by IC/UC, generally IC/UC, Command Staff, General Staff, Air Operations Section Chief, Resources Unit Leader, Situation Unit Leader, Environmental Unit Leader, and Technical Specialists, as required

Agenda:

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5.2.5 Planning Meeting, Continued

1. State incident objectives and policy issues. IC/UC
2. Briefing of situation, critical and sensitive areas, weather/sea forecast, resource status/availability. Planning Section Chief with Situation Unit Leader, Resources Unit Leader
3. State primary and alternative strategies to meet objectives. Operations Section Chief with Planning Section Chief, Logistics Section Chief
4. Designate Branch, Division, Group boundaries and functions, as appropriate; use maps and ICS 215. Operations Section Chief
5. Specify tactics for each Division, note limitations. Operations Section Chief, Situation Unit Leader assist
6. Specify resources needed by Divisions/Groups. Operations Section Chief, with Planning Section Chief, Logistics Section Chief
7. Specify operations facilities and reporting locations (plot on map). Operations Section Chief, Logistics Section Chief assist
8. Develop resources, support, and overhead order(s). Planning Section Chief, Logistics Section Chief
9. Consider support issues and agree on plans: communications, traffic, safety, medical, etc. Logistics Section Chief, Planning Section Chief assist
10. Assisting or cooperating agency and stakeholder group considerations regarding Incident Action Plan. Liaison Officer
11. Safety considerations regarding Incident Action Plan. Safety Officer
12. News media/public considerations regarding Incident Action Plan. Information Officer
13. Finalize, approve Incident Action Plan for next operational period. IC/UC

5.2.6 Incident Action Plan (IAP) Preparation and Approval

Immediately following the Planning Meeting, the attendees prepare their assignments for the IAP to meet the Planning Section Chief deadline for assembling the IAP components. The deadline will be early enough to permit timely IC/UC approval, and duplication of sufficient copies for the Operations Briefing and for overheads.

When: Immediately following Planning Meeting, Planning Section Chief assigns deadline
Facilitator: Planning Section Chief

Common Components:	Responsible to Prepare
1. Incident Objectives (ICS 202)	[Resources Unit Leader]
2. Organization List (ICS 203)	[Resources Unit Leader]
3. Assignment List (ICS 204)	[Resources Unit Leader/Planning Section Chief]
4. Communications Plan (ICS 205)	[Communications Unit Leader]
5. Medical Plan (ICS 205)	[Medical Unit Leader]
6. Incident Map	[Situation Unit Leader]

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5.2.6 Incident Action Plan (IAP) Preparation and Approval, Continued

Optional Components (use as pertinent):

Optional Components (use as pertinent):	Responsible to Prepare
1. Air Operations Summary (ICS 220)	[Air Operations Branch Director]
2. Traffic Plan	[Ground Support Unit Leader]
3. Demobilization Plan	[Demobilization Unit Leader]

5.2.7 Operations Briefing

This less-than-30-minute meeting conveys the IAP for the oncoming shift to the response organization. After this meeting, off-going field supervisors should be interviewed by their reliefs and by Operations Section Chief in order to further confirm or adjust the course of the new shift's IAP. Shifts in tactics may be made by the operations section supervisors. Similarly, a supervisor may reallocate resources within a division or group to adapt to changing conditions.

When: About an hour prior to each shift

Facilitator: Planning Section Chief


Attendees: IC/UC, Command Staff, General Staff, Branch Directors, Division/Group Supervisors, Task Force/Strike Team Leaders (if possible), Unit Leaders, others as appropriate.

Agenda:	Responsible to Present
1. Review of IC/UC Objectives, changes to IAP.	[Planning Section Chief]
2. Current response actions and last shift's accomplishments.	[Operations Section Chief]
3. Weather and sea conditions forecast.	[Situation Unit Leader]
4. Division/Group and air operations assignment.	[Operations Section Chief]
5. Trajectory analysis.	[Situation Unit Leader]
6. Transport, communications, supply updates.	[Logistics Section Chief]
7. Safety message.	[Safety Officer]
8. Financial report.	[Finance/Administration Section Chief]
9. News Media report.	[Information Officer]
10. Assisting/cooperating organization/agency reports of concern.	[Liaison Officer]
11. Incident Action Plan endorsement and motivational remarks.	[IC/UC]

5.2.8 Assess Progress

The Operations and Planning Sections will review the incident response progress and make recommendations to the IC/UC in preparation for reviewing/identifying objectives for the next operational period. This feedback/information is gathered from various sources, including Field Observers, responder debriefs, stakeholders, etc.

SPECIAL PURPOSE MEETINGS

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5.2.9 Initial Unified Command Meeting

Provides UC officials with an opportunity to discuss and concur on important issues prior to joint incident action planning. The meeting should be brief, and important points documented. Prior to the meeting, parties should review and prepare to address the agenda items. Planning Meeting participants will use the results of this meeting to guide the response efforts.

When: When UC is formed, prior to the first operational period Planning Meeting

Facilitator: UC member

Attendees: Only ICs who will comprise UC

Agenda:

1. Identify jurisdictional priorities and objectives.
2. Present jurisdictional limitations, concerns, restrictions.
3. Develop collective set of incident objectives.
4. Establish and agree on acceptable priorities.
5. Adopt an overall strategy to accomplish objectives.
6. Agree on basic organizational structure and size.
7. Designate the best-qualified and acceptable Operations Section Chief.
8. Agree on General Staff personnel designations and planning, logistical, and finance agreements and procedures.
9. Agree on resource ordering procedures.
10. Agree on cost-sharing procedures.
11. Agree on informational matters.
12. Designate a Unified Command spokesperson.

5.2.10 Command Staff Meeting

Coordinate Command Staff functions, responsibilities and objectives. It is scheduled as necessary by the IC/UC. Command Staff (IC/UC, Safety Officer, Liaison Officer, Information Officer) attend.

5.2.11 Command and General Staff Breakfast / Supper

An opportunity for the Command (IC/UC, Safety Officer, Liaison Officer, Information Officer) and General Staff (Operations Section Chief, Planning Section Chief, Logistics Section Chief, Finance/Administration Section Chief) to gather under informal and relaxing conditions to share and update each other on developing issues.

5.2.12 Business Management Meeting

This under-30-minute meeting is for participants to develop and update the operating plan for finance and logistics support. The agenda could include: finance requirements and criteria imposed by contributing organizations, business operating plan for resource procurement and incident funding, cost analysis and financial summary data. Attendees include: Finance/Administration Section Chief, Cost Unit Leader, Logistics Section Chief, Supply Unit Leader, Demobilization Unit Leader. It is generally conducted before the PLANNING MEETING.


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5.2.13 Agency Representative Meeting

To update agency representatives and ensure that they can support IAP. Conducted by Liaison Officer, attended by Agency Representatives. Most appropriately held after the PLANNING MEETING in order to announce plans for next operational period, yet allow for changes should the plan's expectations be unattainable by an agency.

5.2.14 News Briefing

To brief the news media and public on the most current and accurate incident facts. Set up by the Information Officer, moderated by an appropriate representative, and featuring selected spokespersons. Spokespersons should be prepared by the Information Officer to address anticipated issues. The briefing should be well planned, organized, and scheduled to meet the media's needs.

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5.3 ICS FORMS

All ICS Forms are available electronically via this Plan's Forms Navigator.

- **INCIDENT BRIEFING FORM - ICS 201 (Initial Report Only)**

For use by the Command Staff to gather information on the Spill Management Team's (SMT) efforts to implement applicable response plans. It is prepared by the initial Incident Commander (IC) for providing documentation of the initial response.

- **INCIDENT ACTION PLAN**

For use by the Planning Section to plan each day's response actions. This plan consists of the portions identified on the IAP cover page and must be approved by the Incident Commander, Federal On-Scene Coordinator (FOSC), and State On-Scene Coordinator (SOSC).

In addition, these Incident Command System (ICS) forms may be found on the U.S. Coast Guard web page: <http://www.uscg.mil/pacarea/pm/icsforms/ics.htm>

- **INCIDENT ACTION PLAN (IAP) COVER SHEET**

For use in presenting initial information, signature approval, and table of contents of forms contained in the IAP.

- **INCIDENT OBJECTIVES - ICS 202**

Describes the basic incident strategy, control objectives, and provides weather, tide and current information, and safety considerations for use during the next operational period.

- **ORGANIZATION ASSIGNMENT LIST - ICS 203**

Provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit.

- **ASSIGNMENT LIST - ICS 204**



Submits assignments at the level of Division and Groups.

- **COMMUNICATIONS PLAN - 205**

Is used to provide, in location, information on all radio frequency assignments down to Division/Group level for each operation period.

- **MEDICAL PLAN - ICS 206**

Provides information in incident medical aid stations, transportation services, hospitals, and medical emergency procedures.

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5.3 ICS FORMS, CONTINUED

All ICS Forms are available electronically via the Forms Navigator.

- **INCIDENT STATUS SUMMARY - ICS 209**

Used to inform personnel about the status of response efforts. It is not included in the IAP.

- **UNIT LOG - ICS 214**

Used to log activities for an entire unit.

- **INDIVIDUAL LOG - ICS 214a**

Used to log activities for an individual.

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5.3.1 Incident Briefing ICS 201-OS

1. Incident Name	2. Prepared By: (name) Date: Time:	INCIDENT BRIEFING ICS 201-OS
3. Map/Sketch (Include maps drawn here or attached, showing the total area of operations, the incident site/area, overflight results, trajectories, impacted shorelines or other graphics depicting situational and response status)		
INCIDENT BRIEFING March, 2000 ICS 201-OS (pg 1 of 4)		

[illegible]

INCIDENT BRIEFING	March, 2000ICS 201-OS (pg 2 of 4)

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5.3.1 Incident Briefing ICS 201-OS, Continued

1. Incident Name	2. Prepared By: (name) Date: Time:	INCIDENT BRIEFING ICS 201-OS
<p>6. Current Organization</p> <p>SPILL MANAGEMENT TEAM (SMT) ORGANIZATION CHART</p> <pre> graph TD A[Incident reported] --> B[QI-Terminal/Ops Manager (OCS)] B --> C[VP of HSSE Incident Commander] C --> D[Safety Officer Genesis HSSE] C --> E[Liaison Officer Genesis/Contractor] C --> F[Information Officer Genesis/Contractor] C --> G[Legal Officer Genesis] C --> H[Operations Section Chief Genesis/Contractor] C --> I[Logistics Section Chief Genesis/Contractor] C --> J[Planning Section Chief Genesis/Contractor] C --> K[Financials Section Chief Genesis/Contractor] </pre>		
INCIDENT BRIEFING	March, 2000	ICS 201-OS (pg 3 of 4)



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INCIDENT BRIEFING		March, 2000		ICS 201-OS (pg 4 of 4)	

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5.3.2 Incident Action Plan (IAP) Cover Sheet

1. Incident Name	2. Operational Period to be covered by IAP (Date/Time)		IAP COVER SHEET
	From:	To:	
3. Approved by:			
FOSC			
SOSC			
IC			
<p style="text-align: center;">INCIDENT ACTION PLAN</p> <p>The items checked below are included in this Incident Action Plan:</p> <p><input type="checkbox"/> ICS 202-OS (Incident Objectives)</p> <p><input type="checkbox"/> ICS 203-OS (Organization Assignment List)</p> <p><input type="checkbox"/> ICS 204-OS (Assignment List)</p> <p><input type="checkbox"/> ICS 205-OS (Communications Plan)</p> <p><input type="checkbox"/> ICS 206-OS (Medical Plan)</p> <p><input type="checkbox"/> ICS 209-OS (Incident Status Summary)</p> <p><input type="checkbox"/> ICS 214-OS (Unit Log)</p> <p><input type="checkbox"/> ICS 214a-OS (Individual Log)</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>			
4. Prepared By: (Planning Section Chief)			Date/Time:
IAP COVER SHEET			March, 2000

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5.3.3 Incident Objectives ICS 202-OS

1. Incident Name	2. Operational Period (Date/Time) From: To:	INCIDENT OBJECTIVES ICS 202-OS
3. Overall Incident Objective(s)		
4. Objectives for Specified Operational Period		
5. Safety Message for Specified Operational Period		
Approved Site Safety Plan Located at:		
6. Weather: See Attached Weather Sheet		
7. Tides/Currents: See Attached Tide/Current Data		
8. Time of Sunrise:		Time of Sunset:
9. Attachments (check if attached)		
<input type="checkbox"/> Organization List (ICS 203-OS) <input type="checkbox"/> Assignment List (ICS 204-OS) <input type="checkbox"/> Communications Plan (ICS 205-OS) <input type="checkbox"/> Medical Plan (ICS 206-OS) <input type="checkbox"/> Weather		
10. Prepared By: (Planning Section Chief)		Date/Time:
INCIDENT OBJECTIVES March, 2000		ICS 202-OS

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5.3.4 Organization Assignment List ICS 203-OS

1. Incident Name		2. Operational Period (Date/Time) From: To:		ORGANIZATION ASSIGNMENT LIST ICS 203-OS																	
3. Incident Commander and Staff				7. Operations Section																	
<table border="1"> <thead> <tr> <th></th> <th>Primary</th> <th>Deputy</th> </tr> </thead> <tbody> <tr> <td>Federal:</td> <td></td> <td></td> </tr> <tr> <td>State:</td> <td></td> <td></td> </tr> <tr> <td>IC:</td> <td></td> <td></td> </tr> </tbody> </table>					Primary	Deputy	Federal:			State:			IC:			<table border="1"> <tr><td>Chief</td><td></td></tr> <tr><td>Deputy</td><td></td></tr> </table>		Chief		Deputy	
	Primary	Deputy																			
Federal:																					
State:																					
IC:																					
Chief																					
Deputy																					
Safety Officer: <input type="text"/> Information Officer: <input type="text"/> Liaison Officer: <input type="text"/>				a. Branch I - Division/Groups Branch Director <input type="text"/> Deputy <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/>																	
4. Agency Representatives				b. Branch II - Division/Groups																	
<table border="1"> <thead> <tr> <th>Agency</th> <th>Name</th> </tr> </thead> <tbody> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </tbody> </table>				Agency	Name											Branch Director <input type="text"/> Deputy <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/>					
Agency	Name																				
5. Planning Section				c. Branch III - Division/Groups																	
Chief <input type="text"/> Deputy <input type="text"/> Resources Unit <input type="text"/> Situation Unit <input type="text"/> Environmental Unit <input type="text"/> Documentation Unit <input type="text"/> Demobilization Unit <input type="text"/> Technical Specialists <input type="text"/>				Branch Director <input type="text"/> Deputy <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/> Division / Group <input type="text"/>																	
6. Logistics Section				d. Air Operations Branch																	
Chief <input type="text"/> Deputy <input type="text"/> Time Unit <input type="text"/> Procurement Unit <input type="text"/> Compensation Unit <input type="text"/> Cost Unit <input type="text"/>				Air Operations Br. Dir. <input type="text"/> Air Tactical Supervisor <input type="text"/> Air Support Supervisor <input type="text"/> Helicopter Coordinator <input type="text"/> Fixed-wing Coordinator <input type="text"/>																	
a. Support Branch				8. Finance Section																	
Director <input type="text"/> Supply Unit <input type="text"/> Facilities Unit <input type="text"/> Transportation Unit <input type="text"/> Vessel Support Unit <input type="text"/>				Chief <input type="text"/> Deputy <input type="text"/> Time Unit <input type="text"/> Procurement Unit <input type="text"/>																	

Ground Support Unit		Compensation Unit	
b. Service Branch		Cost Unit	
Director			
Communications Unit			
Medical Unit			
Food Unit			
9. Prepared by: (Resources Unit)		Date/Time	
ORGANIZATION ASSIGNMENT LIST		March, 2000	
		ICS 203-OS	



[illegible]

Medical	Evacuation	Other	
10. Prepared By (Resources Unit Leader)	Date/Time	11. Approved By (Planning Section Chief)	Date/Time
ASSIGNMENT LIST	June, 2000	ICS 204-OS	

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5.3.6 Communications Plan ICS 205-OS

1. Incident Name	2. Operational Period (Date/Time) From: To:		COMMUNICATIONS PLAN ICS 205-OS			
3. Basic Radio Channel Use						
SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMARKS	
4. Prepared By (Communications Unit)			Date/Time			
COMMUNICATIONS PLAN			March, 2000		ICS 205-OS	

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5.3.7 Medical Plan ICS 206-OS

1. Incident Name		2. Operational Period (Date/Time) From: To:		MEDICAL PLAN ICS 206-OS		
3. Medical Aid Stations						
Name	Location	Contact #	Paramedics On Site (Y/N)			
4. Transportation						
Ambulance Service	Address	Contact #	Paramedics On Board (Y/N)			
5. Hospitals						
Hospital Name	Address	Contact #	Travel Time		Burn Ctr?	Heli-Pad?
			Air	Ground		
6. Special Medical Emergency Procedures						
7. Prepared By (Medical Unit Leader)		Date/Time	8. Reviewed By (Safety Officer)		Date/Time	

MEDICAL PLAN	March, 2000	ICS 206-OS
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5.3.8 Incident Status Summary ICS 209-OS



1. Incident Name		2. Period Covered By Report From: To:		Time of Report		INCIDENT STATUS SUMMARY ICS 209-OS	
3. Spill Status (Estimated, in Barrels) [OPS/EUL/SSC]				7. Safety Status		[Safety Officer]	
Source Status:		Remaining Potential (bbl):		Since Last Report		Total	
		Rate of Spillage (bbl/hr):		Responder Injury			
Secured <input type="checkbox"/>		Unsecured <input type="checkbox"/>		Public Injury			
		Since Last Report		Total			
Volume Spilled							
Mass Balance/Oil Budget							
Recovered Oil							
Evaporation							
Natural Dispersion							
Chemical Dispersion							
Burned							
Floating, Contained							
Floating, Uncontained							
Onshore							
Total Spilled Oil Accounted For:							
4. Waste Management (Estimated) [OPS/Disposal]				8. Equipment Resources [RUL]			
		Recovered		Stored		Disposed	
Oil (bbl)							
Oily Liquids (bbl)							
Liquids (bbl)							
Oily Solids (tons)							
Solids (tons)							
5. Shoreline Impacts (Estimated, in miles) [PSC/EUL/SSC]				Description			
Degree of Oiling		Affected		Cleaned		To Be Cleaned	
Light							
Medium							
Heavy							
Total							
6. Wildlife Impacts [OPS/Wildlife]				9. Personnel Resources [RUL]			
				Description		People in Cmd. Post	
				People in the		Total People On	

					Br.]				Field	Scene	
Numbers in () indicate subtotal that are threatened / endangered species.					Died in Facility		Federal				
							State				
	Captured	Cleaned	Released	DOA	Euth.	Other	Local				
Birds							RP				
Mammals							Contract Personnel				
Reptiles							Volunteers				
Fish											
Total											
							Total Response Personnel From All Organizations:				
							10. Special Notes				
11. Prepared By (Situation Unit Leader)						Date/Time					
INCIDENT STATUS SUMMARY						March, 2000				ICS 209-OS	

[illegible]



[illegible]

[illegible]

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5.4 SITE SAFETY AND HEALTH PLAN

Instructions: Fill out the needed information and check the relevant entries.			
SITE DISCRPTION:			
Location:			
Hazards:			
Oil:		H2S Potentially present <input type="checkbox"/> Yes <input type="checkbox"/> No	
Treatment Chemicals:			
Weather Related Hazards:		<input type="checkbox"/> Heat Stress <input type="checkbox"/> Cold Concerns <input type="checkbox"/> Others:	
Other Hazards and Concerns:			
<u>PPE REQUIRED:</u>			
ITEM	YES	NO	N/A
Breathing Air			
Tyvek suit			
Rubber Gloves			
Rubber Boots			
Hard Hats			
Safety Glasses			
Rain Suit			
Personnel Monitor			
Surrounding Population: <input type="checkbox"/> Industrial <input type="checkbox"/> Residential <input type="checkbox"/> Other:			
Topography: <input type="checkbox"/> Rocky <input type="checkbox"/> Sandy beach <input type="checkbox"/> Docks <input type="checkbox"/> Cliffs <input type="checkbox"/> Other:			
SITE ORGANIZATION:			
Function and Name		Phone Number	
OSC			
Scientific Support Coord.			
Responsible Party			
Site Safety			
Others:			

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5.4 SITE SAFETY AND HEALTH PLAN, CONTINUED


Entry Objectives:					
<input type="checkbox"/> Site Surveys <input type="checkbox"/> Scientific Support <input type="checkbox"/> Other Activities:					
Primary Evacuation Route:					
Secondary Evacuation Route:					
Assembly Point (s):					
Radio Communications:					
Frequency	Channel	VHF	UHF	CB	OTHER
Phone Communications:					
Contact	Ac Voice	Ac Fax	Ac Cellular	Ac Pager	Ac Home
OSC					
SSHO					
ATSDR					
Police					
Sheriff					
Fire					
Ambulance					
Hospital					

OSC - On-Scene Coordinator

SSHO - Site Safety and Health Office

ATSDR - Agency for Toxic Substance and Disease Registry

This agency can provide emergency medical and toxicological information, assist in determining procedures for potential chemical overexposures, and can provide on scene assistance for certain chemical emergencies.

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5.4 SITE SAFETY AND HEALTH PLAN, CONTINUED

Detailed objectives shall be developed daily and shall be described during the pre-entry safety briefing.

1. **Reporting:** Anyone entering or departing a work area, or associated control zones, shall report to the site supervisor.
2. **Site Safety Plan:** No person shall enter a site without subscribing to this or another approved Site Safety and Health Plan.
3. **Training:** No person shall enter a site without adequate training in hazardous waste operations, safety and health; based on work assignment and applicable hazardous conditions.
4. **Site Boundaries:** The following control boundaries have been established, and should be marked as follows:
 - a. Exclusion (Hot) Zone(s): Orange, red or black and yellow
 - b. Contamination Reduction (Warm Zone(s): Yellow
 - c. Support (Cold) Zone(s): Green

The above zones shall be marked as needed to control traffic and enforce decontamination procedures. Appropriate placards, barricades, traffic cones, and/or boundary tape shall be used for this purpose.

5. **Site Map:** The site safety map is attached and shall be modified as necessary for each sector by the site safety supervisor when any of the following are modified:
 - a. Exclusion Zone boundaries.
 - b. Contamination Reduction Zone: Boundaries, decontamination layout, equipment storage, temporary waste storage areas, washing, toilets and hygiene facilities.
 - c. Support Zone: Boundaries, first aid stations, emergency fire fighting equipment, command post/office spaces, new equipment staging/storage, eating/rest areas, bird/mammal cleaning and rehabilitation.
 - d. Location of unidentified hazards: Underground cables, overhead cables, pits, trenches, open holes/hatches, hearing protection areas, hard hat areas, suspected locations of poisonous plants, insects, or animals, high pressure wash areas, bioremediation application areas, and dispersant application areas.

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5.4 SITE SAFETY AND HEALTH PLAN, CONTINUED

HAZARD EVALUATION

CHEMICAL HAZARDS (Check appropriate category of oil, or attach appropriate MSDS if available)

A. Oils Containing Hydrogen Sulfide


Composition: Composed of an indefinite petroleum mixture. May contain Hydrogen Sulfide, benzene, toluene, xylene, naphthalenes, and PolyAromatic Hydrocarbons in concentrations that may vary widely depending on the source of the oil weathering and aging.

Hazardous Description: H₂S is a highly toxic colorless gas which has the smell of rotten eggs in low concentrations and a sweet acidic smell in higher concentrations. It has the potential to deaden the sense of smell due to olfactory nerve anesthesia at levels as low as 10 ppm.

It is a highly flammable gas with an LEL of 4.3% and an UEL of 45% , burns with a blue flame and produces Sulfur Dioxide. It is heavier than air and tends to settle in low - lying areas, and is water-soluble.

PEL	10ppm It is the policy of Genesis to don positive pressure respirators at this concentration.
STEL	15 ppm
Ceiling	20 ppm
Max Peak	50 ppm
IDLH	100 ppm

Basic Precautions: Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is required. Stay upwind and away from spill/release. Atmospheric Monitoring is required until the Site Safety Officer determines it is no longer needed. Positive Pressure Breathing Apparatus must be available for all personnel exposed to H₂S.


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5.4 SITE SAFETY AND HEALTH PLAN, CONTINUED

The following controls shall be observed on site (Check appropriate).

<u>GENERAL SITE SAFETY AND HEALTH PROCEDURES</u>	√
Work near water: All personnel working in boats, on docks, or generally within 10 feet of water deeper than 3 feet, shall wear Coast Guard approved flotation devices (PFDs).	
Heat Stress. The site safety and health officer shall generally be guided by the ACGIH guidelines in determining work/rest periods. Cold water or other appropriate drinks shall be available at all times and drinking them encouraged during rest periods.	
Cold Stress: The site safety and health officer shall generally be guided by the ACGIH guidelines in determining work/rest periods. Workers shall be provided adequate warm clothing, rest opportunities, exposure protection, warm fluid shall also be available during rest periods. For prolonged water temperatures below 59 degrees F. or a combined water and air temperature less than 120 degrees F. exposure suits shall be worn by personnel working/traveling in small boats or aircraft over water, and immersion suits shall be available for vessel operations other than small boats.	
High Noise Levels: Hearing protection shall be used in high noise areas designated the site safety officer (exceeding 84dBA — generally where noise levels require personnel to raise their voices to be heard).	
Confined Spaces: Follow OSHA confined space regulations 29 CFR 1910.146 as specified in GENESIS CRUDE OIL HSSE Manual Procedure 3.1.	
Poisonous/infectious insects: Personnel shall be provided with long-sleeved clothing and insect repellent in designated areas. Personnel should inspect each other for ticks during breaks.	
Poisonous snakes: All personnel working in designated areas shall wear snake proof leggings or hip high rubber boots. Snake bite kits shall be kept with first aid kits in these areas.	
Poisonous plants: Long sleeved clothing shall be worn in areas designated to contain these plants. If these plants are accidentally touched, the plant sap should be washed off of the affected area with soapy water. “DO NOT SCRATCH”	
Electrical Hazards: Electrical hazards are designated on the site map, and shall be marked with suitable placards, barricades, or warning tape as necessary.	
Trap Hazards: Open manholes, pits, trenches, or similar hazards are noted on the site map. The site safety officer shall ensure that these locations are periodically checked during the day.	
Carbon Monoxide: Equipment operators shall ensure that personnel do not linger or work near exhaust pipes.	
Falling Objects: Hard hat areas determined by the site survey shall be noted	

on project maps.	
UV Light Exposure: Sunscreens of protection factor 15 or greater and UV tinted safety glasses shall be made available for response personnel as needed.	
Helicopter Operations: Pilots shall provide safety briefing for all passengers.	
All Terrain Vehicles (ATVs): Drivers shall maintain a safe speed at all times and shall not be allowed to operate vehicles in a reckless manner. ATV drivers shall not operate ATVs outside of areas and lanes specified by the site safety officer.	


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5.4 SITE SAFETY AND HEALTH PLAN, CONTINUED

SITE SAFETY AND HEALTH OFFICER CHECKLIST				
Action	Completed		N/A	Time Completed
	Yes	No		
Site Safety and Health Plan				
On-Site Safety Meeting				
Atmospheric Monitoring of Location				
Atmospheric Monitoring of Residential Areas				
Personal H2S Monitors in use				
Make sure PPE requirements understood				
Make sure PPE available				
Verify Workers Hazwoper Training				
Ambulances on Standby				
Portable Toilets where needed				
Personal Flotation Devices in use				
Back Up Safety Officer on standby				
Security Guards contacted and on call				
Inform workers that no unauthorized personnel should handle oil soaked animals				
Orange vest used in woods during hunting season				
Decon Stations in place				

Safety Officer: _____

Date: _____

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5.5 DECONTAMINATION PLAN

Incident Name:	Location:
Effective Date of Plan:	Effective Time Period of Plan:
Spill Location:	Plan Prepared By:


- Work Zones:
 - Support (cold) zone
 - Contamination reduction (warm) zone
 - Exclusion (hot) zone

These zones are identified by signs, barrier tape or other means. Decontamination is performed in the contamination reduction zone. When responders exit the exclusion zone they must be decontaminated.

Crews are available to assist in decontamination procedures as needed. The crews must wear appropriate personal protective equipment (PPE), and are responsible for packaging and labeling of contaminated PPE.

- Decontamination Stations:

Decontamination is performed within the contamination reduction zone, which is appropriately lined to prevent the spread of contaminants. Dikes are installed under the lining to contain runoff.

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5.5 DECONTAMINATION PLAN, CONTINUED

Procedures for these stations are as follows:

MAXIMUM MEASURES FOR DECONTAMINATION		
STATION 1	Segregated equipment drop	Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, a cool down station may be set up within this area.
STATION 2	Boot cover and glove wash	Scrub outer boot cover and gloves with decontamination solution or detergent and water.
STATION 3	Boot cover and glove rinse	Rinse off decontamination solution from Station 2 using copious amounts of water.
STATION 4	Tape removal	Remove tape around boots and gloves and deposit in container with plastic liner.
STATION 5	Boot cover removal	Remove boot covers and deposit in containers with plastic liner.
STATION 6	Outer glove removal	Remove outer gloves and deposit in container with plastic liner.
STATION 7	Suit and boot wash	Wash splash suit, gloves, and safety boots. Scrub with long-handled scrub brush and decontamination solution.
STATION 8	Suit, boot, and glove rinse	Rinse off decontamination solution using water. Repeat as many times as necessary.
STATION 9	Canister or mask change	If worker leaves exclusion zone to change canister or this is the last step in the decontamination procedure; worker's canister is exchanged, new outer gloves and boot covers are donned, joints are taped, and the worker returns to duty.
STATION 10	Safety boot removal	Remove safety boots and deposit in container with plastic liner.
STATION 11	Splash suit removal	With assistance of helper, remove splash suit. Deposit in container with plastic liner.
STATION 12	Inner glove wash	Wash inner gloves with decontamination solution.
STATION 13	Inner glove rinse	Rinse inner gloves with water.
STATION 14	Face piece removal	Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.
STATION 15	Inner glove removal	Remove inner gloves and deposit in lined container.

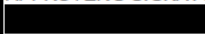
STATION 16	Inner clothing removal	Remove clothing soaked with perspiration and place in lined container. Do not wear inner clothing off-site since there is a possibility that small amounts of contamination might have been transferred in removing the protective suit.
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5.5 DECONTAMINATION PLAN, CONTINUED

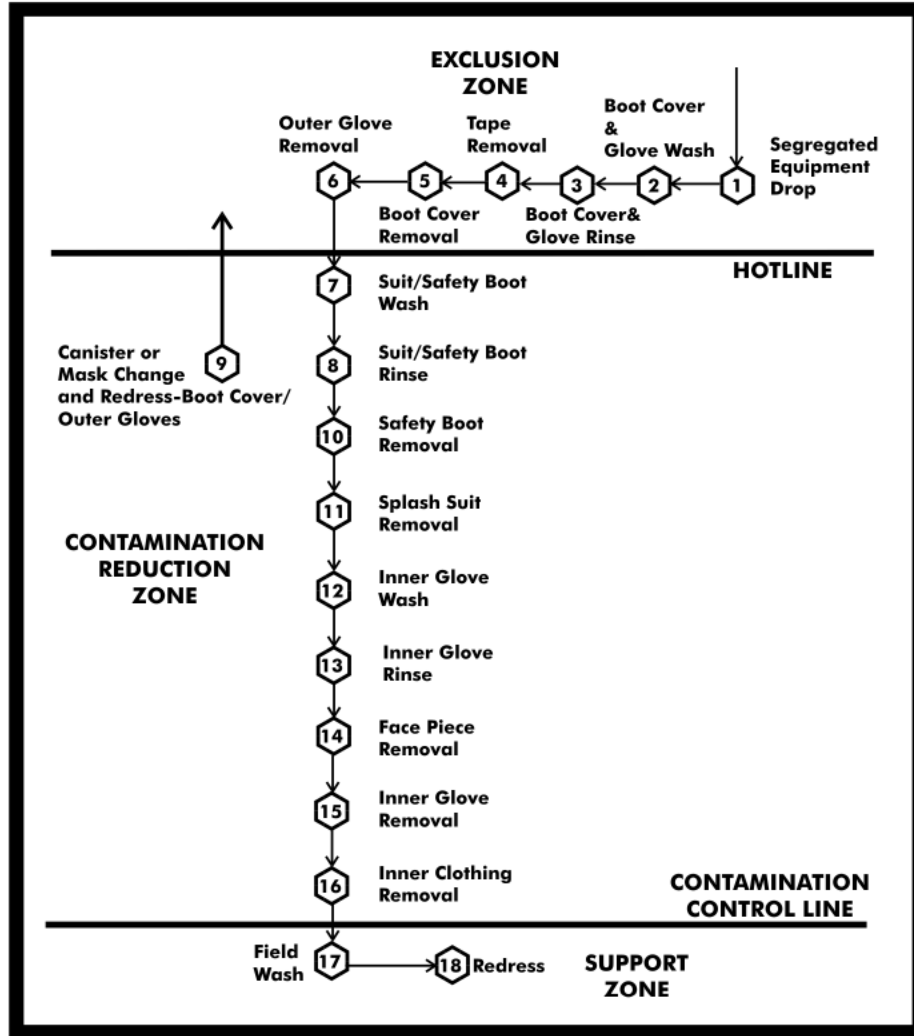
Procedures for these stations are as follows:


MAXIMUM MEASURES FOR DECONTAMINATION, CONTINUED		
STATION 17	Field wash	Shower if highly toxic, skin-corrosive or skin-absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.
STATION 18	Re-dress	Put on clean clothes.

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5.5 DECONTAMINATION PLAN, CONTINUED

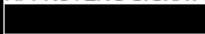
DECONTAMINATION PROCEDURES, MAXIMUM DECONTAMINATION LAYOUT



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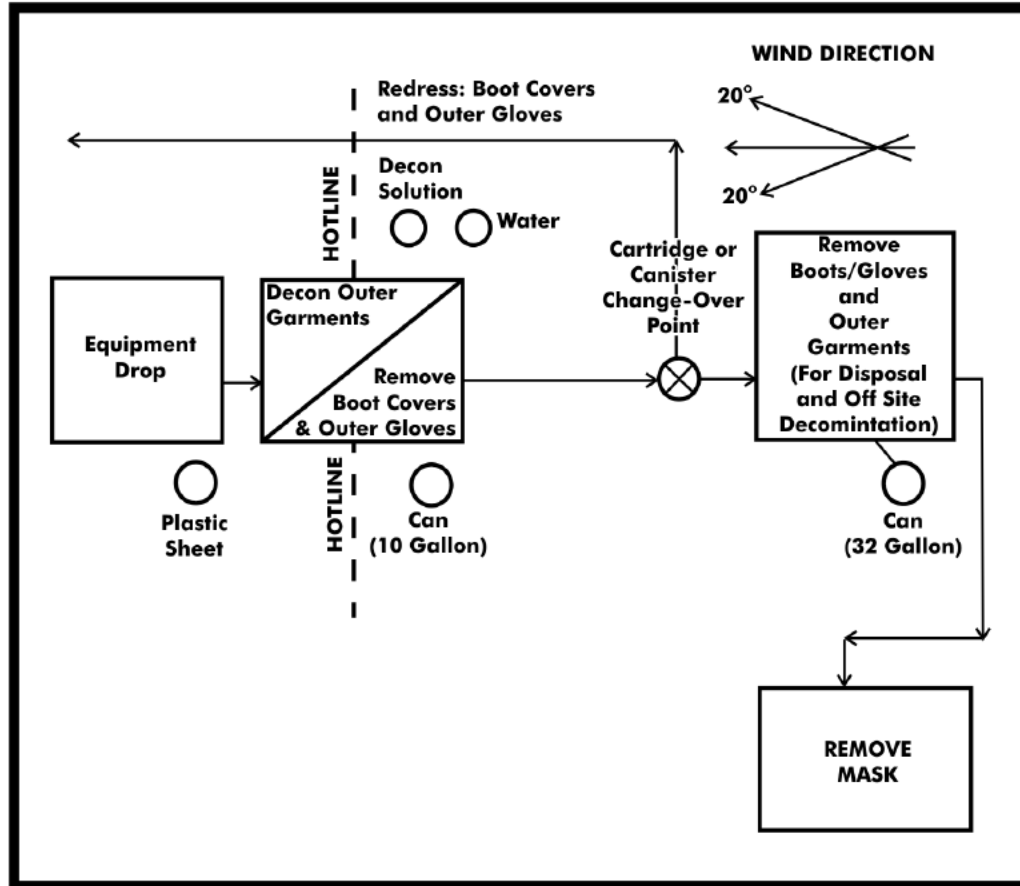
5.5 DECONTAMINATION PLAN, CONTINUED



MINIMUM MEASURES FOR DECONTAMINATION		
STATION 1	Equipment drop	Deposit equipment used on site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, a cool down station may be set up within this area.
STATION 2	Outer garment, boots and gloves wash and rinse	Scrub outer boots, outer gloves, and splash suit with decontamination solution or detergent and water. Rinse off using copious amounts of water.
STATION 3	Outer boot and glove removal	Remove outer boots and gloves. Deposit in container with plastic liner.
STATION 4	Canister or mask change	If worker leaves exclusion zone to change canister (or mask) or this is the last step in the decontamination procedures; worker's canister is exchanged, new outer gloves and boot covers are donned, joints are taped, the worker returns to duty.
STATION 5	Boot, gloves, and outer garment removal	Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
STATION 6	Face piece removal	Face piece is removed. Avoid touching face with fingers. Face piece deposited on plastic sheet.
STATION 7	Field wash	Hands and face are thoroughly washed. Shower as soon as possible.

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5.5 DECONTAMINATION PLAN, CONTINUED



DECONTAMINATION PROCEDURES, MINIMUM DECONTAMINATION LAYOUT



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5.6 DISPOSAL PLAN

Date:	Location:			
Source of release:				
Amount of release:				
Incident name:				
State On-Scene Coordinator:				
Federal On-Scene Coordinator:				
Time required for temporary storage:				
Proposed storage method:				
Disposal priorities:				
Sample date:		Sample ID:		
Analysis required (type):				
Laboratory performing analysis:				
Disposal options:				
	Available	Likely	Possible	Unlikely
Landfill:				
In-situ/ bio-remediation:				
In-situ burn:				
Pit burning:				
Hydrocyclone:				
Off-site incineration:				
Reclaim:				
Recycle:				
Resources required for disposal options:				
General information:				
Generator name:		U.S. EPA ID#:		
Waste properties:		Waste name:		
U.S. EPA waste code:		State waste code:		
EPA hazardous waste:				
Waste storage and transportation:				
Proposed storage method:				

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5.6 DISPOSAL PLAN, CONTINUED

Proposed transportation method:
Permits required for storage:
Permits required for transportation:
Estimated storage capacity:
Number and type of storage required:
Local storage available for temporary storage of recovered oil:


PPE required for waste handling:	
Waste coordinator:	Date:
Resources required for disposal options:	

Incident name:	
Sample number:	Date sent:
Source of sample:	
Date sample data received:	
Waste hazardous:	Non-hazardous:
Permits/variances requested:	
Approval received on waste profile:	
Date disposal can begin:	
Disposal facilities:	
Profile number:	
Storage contractors:	

[illegible]

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5.8 DEMOBILIZATION PLAN

Incident name:	Location:
Effective date of plan:	Effective time period of plan:
Spill location:	Plan prepared by:

Demobilization procedures:

- Operations Section will determine which resources are ready for release from a specific collection site.
- The Planning Section will provide guidance on release priorities and demobilization recommendations.
- Information maintained by the Planning Section will be utilized to assist in the prioritization.
- Each incident will require a Decontamination Area.
- Decontaminated equipment will be returned to appropriate staging area for release or re-deployment.
- Transports for equipment will be required if remote from staging area.
- The Planning Section will document all demobilization and decontamination activities.
- Equipment designated for re-assignment will be mobilized to the appropriate staging area.
- The Supervisor will ensure a log is maintained documenting that proper decontamination procedures are performed for each piece of equipment.
- The Operations Section will ensure that redeployed personnel receive proper rest prior to returning to duty.
- The Planning Section Chief will monitor personnel redeployment activities to ensure number of hours worked is within acceptable guidelines.
- The Operations Section Chief must approve the Demobilization Plan before decontamination, release, or redeployment of any resources.

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SECTION 6


Last revised: December 17, 2013

SENSITIVE AREAS / RESPONSE TACTICS

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6.1 Area Description6.2 Spill Containment / RecoveryFigure 6.2-1 - Response Tactics for Various Shorelines6.3 Sensitive Area ProtectionFigure 6.3-1 - Sensitive Area Protection Implementation SequenceFigure 6.3-2 - Summary of Shoreline and Terrestrial Cleanup Techniques6.4 Wildlife Protection and Rehabilitation6.5 Endangered and Threatened Species By State6.6 Valve Locations6.7 Land Owners6.8 Pipeline Sensitivity Maps



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6.1 AREA DESCRIPTION

Description of shoreline types and specific shoreline protection and clean-up techniques are presented in **FIGURE 6.2-1** and **FIGURE 6.3-2**. The strategies and response examples are guidelines and must be evaluated during the response to ensure that the selected response methods are appropriate for the situation.

Sensitivity maps are provided in **SECTION 6.7**.

6.2 SPILL CONTAINMENT / RECOVERY

Containment and recovery refer to techniques that can be employed to contain and recover terrestrial and aquatic petroleum spills.

Terrestrial spills typically result from pipeline or tank leaks. The Company is equipped with secondary containment systems for areas with non-pressurized breakout tanks. Spills occurring within the secondary containment area or along the pipeline areas should be contained at or near their source to minimize the size of the cleanup area and quantity of soil affected.


Containment is most effective when conducted near the source of the spill, where the oil has not spread over a large area and the contained oil is of sufficient thickness to allow effective recovery and/or cleanup. The feasibility of effectively implementing containment and recovery techniques is generally dependent upon the size of the spill, available logistical resources, implementation time, and environmental conditions or nature of the terrain in the spill area.

For terrestrial spills, trenches and earthen berms or other dams are most often used to contain oil migration on the ground surface. Recovery of free oil is best achieved by using pumps, vacuum sources, and/or sorbents.

Spills that reach water spread faster than those on land. They also have greater potential to contaminate water supplies, to affect wildlife and populated areas, and to impact manmade structures and human activities. Responses on water should therefore emphasize stopping the spill, containing the oil near its source, and protecting sensitive areas before they are impacted.

Sorbents are used to remove minor on-water spills. For larger spills, booming is used to protect sensitive areas and to position oil so it can be removed with skimmers or vacuum trucks.

Due to entrainment, booming is not effective when the water moves faster than one knot or waves exceed 1.5 feet in height. Angling a boom will minimize entrainment. Using multiple, parallel booms will also improve recovery in adverse conditions. A summary of booming techniques is provided below.

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Containment/Diversion Berming

- Berms are constructed ahead of advancing surface spills to contain spill or divert spill to a containment area.
- May cause disturbance of soils and some increased soil penetration.

Blocking/Flow- Through Dams

- Construct dam in drainage course/stream bed to block and contain flow of spill. Cover with plastic sheeting. If water is flowing install inclined pipes during dam construction to pass water underneath dam.
- May increase soil penetration.

Culvert Blocking

- Block culvert with plywood, sandbags, sediments, etc. to prevent oil from entering culvert.

Interception Trench

- Excavate ahead of advancing surface spill to contain spill and prevent further advancement; cover bottom and gradients with plastic.
- May cause disturbance of soils and increased soil penetration.

Containment Booming

- Boom is deployed around free oil.
- Boom may be anchored or left to move with the oil.


Diversion Booming

- Boom is deployed at an angle to the approaching oil.
- Oil is diverted to a less sensitive area.
- Diverted oil may cause heavy oil contamination to the shoreline downwind and down current.

- Anchor points may cause minor disturbance to the environment.

Exclusion Booming

- Boom is placed around a sensitive area or across an inlet, a river mouth, a creek mouth, or a small bay.
- Approaching oil is contained or deflected (diverted) by the boom.
- Anchor points may cause minor disturbance to the environment.

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Sorbent Booming

- Used only on quiet water with minor oil contamination.
- Boom is anchored along a shoreline or used in a manner described above.
- May use boom made of sorbent material or may pack sorbent material between multiple booms placed parallel to each other.

Other cleanup methods include natural recovery, manual removal/scraping, low-pressure flushing, warm water washing, and burning. Berms and dams are also used in shallow waterways to protect areas.

Cleanup methods are provided in the appropriate Area Contingency Plan (ACP), NOAA's "Shoreline Assessment Manual," and NOAA's "Options for Minimizing Environmental Impacts of Freshwater Spill Response." (See <http://response.restoration.noaa.gov> for the latter two.)

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FIGURE 6.2-1 - RESPONSE TACTICS FOR VARIOUS SHORELINES

TYPES	DESCRIPTION	PREDICTED OIL IMPACT	RECOMMENDED CLEANUP ACTIVITY
Developed/ Unforested land	<ul style="list-style-type: none"> This class includes towns, cities, farms, pastures, fields, reclaimed wetlands, and other altered areas Organisms and algae may be common in riprap structures and on pilings 	<ul style="list-style-type: none"> Oil would percolate easily between the gravel and boulders of riprap structures Oil would coat the intertidal areas of solid structures Biota would be damaged or killed under heavy accumulations 	<ul style="list-style-type: none"> May require high pressure spraying: <ul style="list-style-type: none"> To remove oil To prepare substrate for recolonization of barnacle and oyster communities For aesthetic reasons
Freshwater Flat	<ul style="list-style-type: none"> Mud or organic deposits located along the shore or in shallow portions of nontidal freshwater lakes and ponds They are exposed to low wave and current energy They are often areas of heavy bird use 	<ul style="list-style-type: none"> Oil is expected to be deposited along the shoreline Penetration of spilled oil into the water-saturated sediments of the flat will not occur When sediments are contaminated, oil may persist for years 	<ul style="list-style-type: none"> These areas require high priority for protection against oil contamination Cleanup of freshwater flats is nearly impossible because of soft substrate Cleanup is usually not even considered because of the likelihood of mixing oil deeper into the sediments during the cleanup effort Passive efforts, such as sorbent boom can be used to retain oil as it is naturally removed
Fresh Marsh	<ul style="list-style-type: none"> Found along freshwater 	<ul style="list-style-type: none"> Small amounts of oil will 	<ul style="list-style-type: none"> Marshes require the highest priority for

	<p>ponds and lakes</p> <ul style="list-style-type: none"> • These marshes have various types of vegetative cover, including floating aquatic mats, vascular submerged vegetation, needle and broad-leaved deciduous scrubs and shrubs, and broad-leaved evergreen scrubs and shrubs • Birds and mammals extensively use fresh marshes for feeding and breeding purposes 	<p>contaminate the outer marsh fringe only; natural removal by wave action can occur within months</p> <ul style="list-style-type: none"> • Large spills will cover more area and may persist for decades • Oil, particularly the heavy fuel oils, tends to adhere readily to marsh grasses 	<p>shoreline protection</p> <ul style="list-style-type: none"> • Natural recovery is recommended when: <ul style="list-style-type: none"> • A small extent of marsh is affected • A small amount of oil impacts the marsh fringe • The preferred cleanup method is a combination of low-pressure flushing, sorption, and vacuum pumping performed from boats • Any cleanup activities should be supervised closely to avoid excessive disturbances of the marsh surface or roots • Oil wrack and other debris may be removed by hand
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FIGURE 6.2-1 - RESPONSE TACTICS FOR VARIOUS SHORELINES, CONTINUED

TYPES	DESCRIPTION	PREDICTED OIL IMPACT	RECOMMENDED CLEANUP ACTIVITY
Swamp	<ul style="list-style-type: none"> Swamps are freshwater wetlands having varying water depths with vegetation types ranging from shrubs and scrubs to poorly drained forested wetlands. Major vegetative types include: scrubs, shrubs, evergreen trees, and hardwood forested woodlands Birds and mammals use swamps during feeding and breeding activities 	<ul style="list-style-type: none"> Even small amounts of spilled oil can spread through the swamp Large spills will cover more area and may persist for decades since water-flushing rates are low Oil, particularly the heavy fuel oils, will adhere to swamp vegetation Unlike mangroves, the roots of swamp forest trees are not exposed; thus, little damage to trees is expected. Any underbrush vegetation, however, would be severely impacted 	<ul style="list-style-type: none"> No cleanup recommended under light conditions Under moderate to heavy accumulations, to prevent chronic oil pollution of surrounding areas placement of sorbent along fringe swamp forest (to absorb oil as it is slowly released) may be effective under close scientific supervision Proper strategic boom placement may be highly effective in trapping large quantities of oil, thus reducing oil impact to interior swamp forests Oil trapped by boom can be reclaimed through the use of skimmers and vacuums
Open water	<ul style="list-style-type: none"> Have ocean like waves and currents Weather changes effect on-water conditions 	<ul style="list-style-type: none"> Most organisms are mobile enough to move out of the spill area Aquatic birds are vulnerable to oiling 	<ul style="list-style-type: none"> Booming, skimming, vacuuming, and natural recovery are the preferred cleanup methods Should not use

	<ul style="list-style-type: none"> • River mouths present problems • Thermal stratification occurs 	<ul style="list-style-type: none"> • Human usage (such as transportation, water intakes, and recreational activities) may be restricted 	<p>sorbents, containment booming, skimming, and vacuuming on gasoline spills</p> <ul style="list-style-type: none"> • Cleanup options include physical herding, sorbents, and debris/vegetation removal
Large rivers	<ul style="list-style-type: none"> • May have varying salinities, meandering channels, and high flow rates • May include manmade structures (such as dams and locks) • Water levels vary seasonally • Floods generate high suspended sediment and debris loads 	<ul style="list-style-type: none"> • Fish and migratory birds are of great concern • Under flood conditions, may impact highly sensitive areas in floodplains • Human usage may be high • When sediments are contaminated, oil may persist for years 	<ul style="list-style-type: none"> • Booming, skimming, and vacuuming are the preferred cleanup methods • Should not use sorbents, containment booming, skimming, and vacuuming on gasoline spills • Cleanup options include natural recovery, physical herding, sorbents, and debris/vegetation removal
Small lakes and ponds	<ul style="list-style-type: none"> • Water surface can be choppy • Water levels can fluctuate widely • May completely freeze in winter • Bottom sediments near the shore can be soft and muddy • Surrounding area may include wet meadows and marshes 	<ul style="list-style-type: none"> • Wildlife and socioeconomic areas likely to be impacted • Wind will control the oil's distribution 	<ul style="list-style-type: none"> • Booming, skimming, vacuuming, and sorbents are the preferred cleanup methods • Should not use containment booming, vacuuming, sorbents, and skimming on gasoline spills • Cleanup options include physical herding, sorbents, and debris/vegetation

			removal
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FIGURE 6.2-1 - RESPONSE TACTICS FOR VARIOUS SHORELINES, CONTINUED

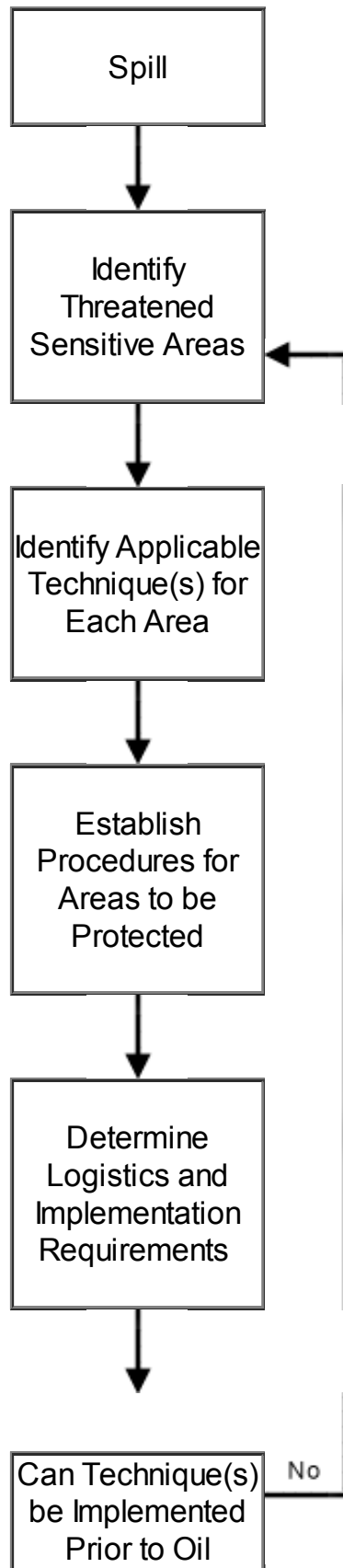
TYPES	DESCRIPTION	PREDICTED OIL IMPACT	RECOMMENDED CLEANUP ACTIVITY
Small rivers and streams	<ul style="list-style-type: none"> • Wide range of water bodies - fast flowing streams to slow moving bayous with low muddy banks and fringed with vegetation • May include waterfalls, rapids, log jams, mid-channel bars, and islands • Weathering rates may be slower because spreading and evaporation are restricted 	<ul style="list-style-type: none"> • Usually contaminate both banks and the water column, exposing a large number of biota to being oiled • Water intakes for drinking water, irrigation, and industrial use likely to be impacted 	<ul style="list-style-type: none"> • Booming, skimming, vacuuming, sorbents, barriers, and berms are the preferred cleanup methods • Should not use containment booming, sorbents, vacuuming, and skimming on gasoline spills • Cleanup options include physical herding, natural recovery, debris removal, vegetation removal, and in-situ burn

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6.3 SENSITIVE AREA PROTECTION

Protection refers to the implementation of techniques or methods to prevent oil from making contact with a shoreline or aquatic area that is determined to be sensitive for environmental, economic, cultural, or human use reasons. Implementation of sensitive area protection techniques must consider a number of factors such as sensitive features, priorities for areas to be protected, and potential degree of impact. In the event a product spill reaches a major area waterway, it may be necessary to protect downstream sensitive areas if it appears that local containment and recovery efforts will not be sufficient to control the entire spill. Major waterways and specific sensitive areas located downstream of the pipeline are provided in SECTION 6.9.

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FIGURE 6.3-1 - SENSITIVE AREA PROTECTION IMPLEMENTATION SEQUENCE

Contacting the
Area?



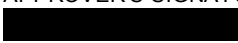
Implement
Technique(s)

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FIGURE 6.3-2 - SUMMARY OF SHORELINE AND TERRESTRIAL CLEANUP TECHNIQUES

TECHNIQUE	DESCRIPTION	RECOMMENDED EQUIPMENT	APPLICABILITY	POTENTIAL ENVIRONMENTAL EFFECTS
Removal				
1. Manual Removal	Hand tool (scrapers, wire brushes, shovels, cutting tools, wheel barrows, etc.) are used to scrape oil off surfaces or recover oiled sediments, vegetation, or debris where oil conditions are light or sporadic and/or access is limited.	<u>Equipment</u> misc. hand tools <u>Personnel</u> 10-20 workers	<ul style="list-style-type: none"> • Can be used on all habitat types • Light to moderate oiling conditions for stranded oil or heavy oils that have formed semi-solid to solid masses • In areas where roosting or birthing animals cannot or should not be disturbed 	<ul style="list-style-type: none"> • Sediment disturbance and erosion potential
2. Mechanical Removal	Mechanical earthmoving equipment is used to remove oiled sediments and debris from heavily impacted areas	<u>Equipment</u> motor grader, backhoe, dump truck elevating scrapers <u>Personnel</u> 2-4 workers plus equipment	<ul style="list-style-type: none"> • On land, wherever surface sediments are accessible to heavy equipment 	<ul style="list-style-type: none"> • Removes upper 2 to 12 inches of sediments

	with suitable access.	operators	<ul style="list-style-type: none"> • Large amounts of oiled materials 	
3. Sorbent Use	Sorbents are applied manually to oil accumulations, coatings, sheens, etc. to remove and recover the oil.	<u>Equipment</u> misc. hand tools misc. sorbents <u>Personnel</u> 2-10 workers	<ul style="list-style-type: none"> • Can be used on all habitat types • Free-floating oil close to shore or stranded on shore, secondary treatment method after gross oil removal • Sensitive areas where access is restricted 	<ul style="list-style-type: none"> • Sediment disturbance and erosion potential • Trampling of vegetation and organisms • Foot traffic can work oil deeper into soft sediments
4. Vacuum / Pumps / Skimmers	Pumps, vacuum trucks, skimmers are used to remove oil accumulations from land or relatively thick floating layers from the water.	<u>Equipment</u> 1-2 50- to 100-bbl vacuum trucks w/ hoses 1-2 nozzle screens or skimmer heads <u>Personnel</u> 2-6 workers plus truck operators	<ul style="list-style-type: none"> • Can be used on all habitat types • Stranded oil on the substrate • Shoreline access points 	<ul style="list-style-type: none"> • Typically does not remove all oil • Can remove some surface organisms, sediments, and vegetation

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**FIGURE 6.3-2 - SUMMARY OF SHORELINE AND TERRESTRIAL CLEANUP
TECHNIQUES,
CONTINUED**

TECHNIQUE	DESCRIPTION	RECOMMENDED EQUIPMENT	APPLICABILITY	POTENTIAL ENVIRONMENTAL EFFECTS
Washing				
5. Flooding	High volumes of water at low pressure are used to flood the oiled area to float oil off and out of sediments and back into the water or to a containment area where it can be recovered.? Frequently used with flushing.	<u>Equipment</u> 1-5 100- to 200-gpm pumping systems 1 100-ft perforated header hose per system 1-2 200-ft containment booms per system 1 oil recovery device per system <u>Personnel</u> 6-8 workers per system	<ul style="list-style-type: none"> • All shoreline types except steep intertidal areas • Heavily oiled areas where the oil is still fluid and adheres loosely to the substrate • Where oil has penetrated into gravel sediments • Used with other washing techniques 	<ul style="list-style-type: none"> • Can impact clean downgradient areas • Can displace some surface organisms if present • Sediments transported into water can affect water quality
6. Flushing	Water streams at low to moderate pressure, and possibly elevated temperatures, are used to	<u>Equipment</u> 1-5 50- to 100-gpm/ 100-psi pumping systems with manifold 1-4 100-ft hoses and nozzles per system	<ul style="list-style-type: none"> • Substrates, riprap, and solid man-made structures • Oil stranded onshore 	<ul style="list-style-type: none"> • Can impact clean downgradient areas • Will displace many surface organisms if present

	remove oil from surface or near-surface sediments through agitation and direct contact.? Oil is flushed back into the water or a collection point for subsequent recovery.? May also be used to flush out oil trapped by shoreline or aquatic vegetation.	1-2 200-ft containment booms per system 1 oil recovery device per system <u>Personnel</u> 8-10 workers per system	<ul style="list-style-type: none"> Floating oil on shallow intertidal areas 	<ul style="list-style-type: none"> Sediments transported into water can affect water quality Hot water can be lethal to many organisms Can increase oil penetration depth
7. Spot (High Pressure Washing)	High pressure water streams are used to remove oil coatings from hard surfaces in small areas where flushing is ineffective.? Oil is directed back into water or collection point for subsequent recovery.	<u>Equipment</u> 1-5 1,200- to 4,000-psi units with hose and spray wand 1-2 100-ft containment booms per unit 1 oil recovery device per unit <u>Personnel</u> 2-4 workers per unit	<ul style="list-style-type: none"> Bedrock, man-made structures, and gravel substrates When low-pressure flushing is not effective Directed water jet can remove oil from hard to reach sites 	<ul style="list-style-type: none"> Will remove most organisms if present Can damage surface being cleaned Can affect clean downgradient or nearby areas
In Situ				
8. Passive Collection	Sorbent/snare booms or other sorbent materials are anchored at the waterline adjacent to heavily oiled areas to contain	<u>Equipment</u> 1,000-2,000 ft sorbent/snare boom 200-400 stakes or anchor systems <u>Personnel</u> 4-10 workers	<ul style="list-style-type: none"> All shoreline types Calm wave action Slow removal process 	<ul style="list-style-type: none"> Significant amounts of oil can remain on the shoreline for extended periods of time

	and recover oil as it leaches from the sediments.			
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**FIGURE 6.3-2 - SUMMARY OF SHORELINE AND TERRESTRIAL CLEANUP
TECHNIQUES,
CONTINUED**

TECHNIQUE	DESCRIPTION	RECOMMENDED EQUIPMENT	APPLICABILITY	POTENTIAL ENVIRONMENTAL EFFECTS
In Situ, Continued				
9. Sediment Tilling	Mechanical equipment or hand tools are used to till lightly to moderately oiled surface sediments to maximize natural degradation processes.	<u>Equipment</u> 1 tractor fitted with tines, dicer, ripper blades, etc. or 1-4 rototillers or 1 set of hand tools <u>Personnel</u> 2-10 workers	<ul style="list-style-type: none"> Any sedimentary substrate that can support heavy equipment Sand and gravel beaches with subsurface oil Where sediment is stained or lightly oiled Where oil is stranded above normal high waterline 	<ul style="list-style-type: none"> Significant amounts of oil can remain on the shoreline for extended periods of time Disturbs surface sediments and organisms
10. In Situ Bioremediation	Fertilizer is applied to lightly to moderately oiled areas to enhance microbial growth and subsequent biodegradation of oil.	<u>Equipment</u> 1-2 fertilizer applicators 1 tilling device if required <u>Personnel</u> 2-4 workers	<ul style="list-style-type: none"> Any shoreline habitat type where nutrients are deficient Moderate to heavily oiled substrates After other techniques 	<ul style="list-style-type: none"> Significant amounts of oil can remain on the shoreline for extended periods of time Can disturb surface sediments and

			<p>have been used to remove free product on lightly oiled shorelines</p> <ul style="list-style-type: none"> • Where other techniques are destructive or ineffective 	organisms
<p>11. Log/Debris?? Burning</p>	<p>Oiled logs, driftwood, vegetation, and debris are burned to minimize material handling and disposal requirements.? Material should be stacked in tall piles and fans used to ensure a hot, clean burn.</p>	<p><u>Equipment</u> 1 set of fire control equipment 2-4 fans 1 supply of combustion promoter <u>Personnel</u> 2-4 workers</p>	<ul style="list-style-type: none"> • On most habitats except dry muddy substrates where heat may impact the biological productivity of the habitat • Where heavily oiled items are difficult or impossible to move • Many potential applications on ice 	<ul style="list-style-type: none"> • Heat may impact local near-surface organisms • Substantial smoke may be generated • Heat may impact adjacent vegetation

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FIGURE 6.3-2 - SUMMARY OF SHORELINE AND TERRESTRIAL CLEANUP TECHNIQUES, CONTINUED

TECHNIQUE	DESCRIPTION	RECOMMENDED EQUIPMENT	APPLICABILITY	POTENTIAL ENVIRONMENTAL EFFECTS
In Situ, Continued				
12. Natural Recovery	No action is taken and oil is allowed to degrade naturally.	None required	<ul style="list-style-type: none"> • All habitat types • When natural removal rates are fast • Degree of oiling is light • Access is severely restricted or dangerous to cleanup crews • When cleanup actions will do more harm than natural removal 	<ul style="list-style-type: none"> • Oil may persist for significant periods of time • Remobilized oil or sheens may impact other areas • Higher probability of impacting wildlife
13. Dispersants	Dispersants are used to reduce the oil/water interfacial tension thereby decreasing the energy needed for the slick to break into small	Dispersants Boat or aircraft	<ul style="list-style-type: none"> • Water bodies with sufficient depth and volume for mixing and dilution • When the impact of 	<ul style="list-style-type: none"> • Use in shallow water could affect benthic resources • May adversely impact organisms in the upper 30 feet of the

	particles and mix into the water column. Specially formulated products containing surface-active agents are sprayed from aircraft or boats onto the slick.		the floating oil has been determined to be greater than the impact of dispersed oil on the water-column community	water column <ul style="list-style-type: none"> • Some water-surface and shoreline impacts could occur
1 - Per 1000 feet of shoreline or oiled area				

Cleanup methods are provided in the appropriate Area Contingency Plan (ACP), NOAA's "Shoreline Assessment Manual," and NOAA's "Options for Minimizing Environmental Impacts of Freshwater Spill Response." (See <http://response.restoration.noaa.gov> for the latter two.)

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6.4 WILDLIFE PROTECTION AND REHABILITATION

- The Company will support wildlife protection and rehabilitation efforts during the response, but will not typically directly manage these efforts.
- Company personnel will not attempt to rescue or clean affected wildlife, because such actions may cause harm to the individuals or may place the animals at further risk.
- Federal and state agencies responsible for wildlife capture and rehabilitation will typically coordinate capturing and rehabilitating oiled wildlife; a list of these agencies are included in **FIGURE 3.1-5**.
- Wildlife rehabilitation specialists may be utilized to assist in capturing and rehabilitating oiled animals as well as deterring unaffected animals away from the spill site.
- U.S Fish & Wildlife is to be notified and consulted in establishing incident-specific priorities for the protection of the resources provided.

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Ambrosia, south Texas	<i>Ambrosia cheiranthifolia</i>	Grasslands and various mesquite-dominated shrublands	E	Texas
Amphipod, Peck's cave	<i>Stygobromus (=Stygonectes) pecki</i>	Subterranean springs	E	Texas
Ayenia, Texas	<i>Ayenia limitaris</i>	Dense subtropical woodlands	E	Texas
Bat, Mexican long-nosed	<i>Leptonycteris nivalis</i>	Caves or similar mines and tunnels	E	Texas
Beetle, American burying	<i>Nicrophorus americanus</i>	Cropland/hedgerow	E	Texas
Beetle, Coffin Cave mold	<i>Batrisodes texanus</i>	Isolated caves within the Edwards Limestone Formation	E	Texas
Beetle, Comal Springs dryopid	<i>Stygoparnus comalensis</i>	Comal Springs	E	Texas
Beetle, Comal Springs riffle	<i>Heterelmis comalensis</i>	Gravel substrates and shallow riffles in spring runs	E	Texas
Beetle, Helotes mold	<i>Batrisodes venyivi</i>	Cavelike formations of Bexar County, Texas	E	Texas
Beetle, Kretschmarr Cave mold	<i>Texamaurops reddelli</i>	Edward's Plateau caves	E	Texas
Beetle, Tooth Cave ground	<i>Rhadine persephone</i>	Karst caves within the Edwards Limestone Formation	E	Texas
Bladderpod, white	<i>Lesquerella pallida</i>	Exposed calcareous Weches	E	Texas

	Formation outcrops	
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T - Threatened

E - Endangered

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Bladderpod, Zapata	<i>Lesquerella thamnophila</i>	Open, evergreen thorn shrublands on gravelly to sandy loams	E	Texas
Cactus, black lace	<i>Echinocereus reichenbachii</i> var. <i>albertii</i>	Grassy openings on south Texas rangeland	E	Texas
Cactus, Nellie cory	<i>Coryphantha minima</i>	Rock crevices on novaculite outcrops	E	Texas
Cactus, Sneed pincushion	<i>Coryphantha sneedii</i> var. <i>sneedii</i>	Grasslands or lechuguilla-sotol shrublands on limestone outcrops and rocky slopes	E	Texas
Cactus, star	<i>Astrophytum asterias</i>	Sparse, fairly open brushland	E	Texas
Cactus, Tobusch fishhook	<i>Ancistrocactus tobuschii</i>	Sparse, fairly open brushland	E	Texas
Cat's-eye, Terlingua Creek	<i>Cryptantha crassipes</i>	Low hills and gentle slopes composed of a platy, yellowish limestone	E	Texas
Crane, whooping except where EXPN	<i>Grus americana</i>	Cropland/hedgerow, grassland/herbaceous	E	Texas
Curlew, Eskimo	<i>Numenius borealis</i>	Cropland/hedgerow, grassland/herbaceous, tundra	E	Texas
Darter, fountain	<i>Etheostoma fonticola</i>	Springs and spring-fed streams in dense beds of aquatic plants	E	Texas
Dawn-flower, Texas prairie	<i>Hymenoxys texana</i>	Poorly drained, sparsely vegetated areas	E	Texas
		Fine sand or sandy-		

Dogweed, ashy	<i>Thymophylla tephroleuca</i>	loam soils on level or rolling grasslands often shrub-invaded	E	Texas
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T - Threatened

E - Endangered

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Falcon, northern aplomado	<i>Falco femoralis septentrionalis</i>	Open grassland or savannah with scattered trees or shrubs	E	Texas
Flycatcher, southwestern willow	<i>Empidonax traillii extimus</i>	Streamside thickets, brushy fields, and willows	E	Texas
Frankenia, Johnston's	<i>Frankenia johnstonii</i>	Arid, gravelly, limestone-derived soils on gentle slopes	E	Texas
Gambusia, Big Bend	<i>Gambusia gaigei</i>	Herbaceous wetlands	E	Texas
Gambusia, Clear Creek	<i>Gambusia heterochir</i>	Springs and outflow streams	E	Texas
Gambusia, Pecos	<i>Gambusia nobilis</i>	Herbaceous wetlands	E	Texas
Gambusia, San Marcos	<i>Gambusia georgei</i>	Herbaceous wetlands	E	Texas
Ground beetle, [unnamed]	<i>Rhadine exilis</i>	Burrows, under stones and in damp soil	E	Texas
Ground beetle, [unnamed]	<i>Rhadine infernalis</i>	Burrows, under stones and in damp soil	E	Texas
Harvestman, Bee Creek Cave	<i>Texella reddelli</i>	Karst caves within the Edwards Limestone Formation	E	Texas
Harvestman, Bone Cave	<i>Texella reyesi</i>	Karst caves within the Edwards Limestone	E	Texas

		Formation		
Harvestman, Cokendolpher Cave	<i>Texella</i> <i>cokendolpheri</i>	Subterranean obligate	E	Texas

T - Threatened

E - Endangered

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Jaguarundi, Gulf Coast	<i>Herpailurus (=Felis) yagouaroundi cacomitli</i>	Tropical and subtropical forests	E	Texas
Ladies'-tresses, Navasota	<i>Spiranthes parksii</i>	Narrow band of vegetation called the Post-Oak Savannah	E	Texas
Manatee, West Indian	<i>Trichechus manatus</i>	Shallow coastal waters, estuaries, bays, rivers, and lakes	E	Texas
Manioc, Walker's	<i>Manihot walkerae</i>	Tamaulipan grassland-thornscrub community	E	Texas
Meshweaver, Braken Bat Cave	<i>Cicurina venii</i>	Subterranean obligate	E	Texas
Meshweaver, Government Canyon Bat Cave	<i>Cicurina vespera</i>	Subterranean obligate	E	Texas
Meshweaver, Madla's Cave	<i>Cicurina madla</i>	Subterranean obligate	E	Texas
Meshweaver, Robber Baron Cave	<i>Cicurina baronia</i>	Subterranean obligate	E	Texas
Ocelot	<i>Leopardus (=Felis) pardalis</i>	Forest, wetlands	E	Texas
Phlox, Texas trailing	<i>Phlox nivalis ssp. texensis</i>	"In fire-maintained openings in upland longleaf pine savannas or	E	Texas
Pitaya, Davis' green	<i>Echinocereus viridiflorus var.</i>	Flat hills on a specific substrate rich in	E	Texas

	<i>davisii</i>	quartz sand, in west Texas		
Pondweed, Little Aguja (=Creek)	<i>Potamogeton clystocarpus</i>	Pools and flowing streams with igneous- derived alluvium.	E	Texas

T - Threatened

E - Endangered


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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Poppy-mallow, Texas	<i>Callirhoe scabriuscula</i>	Grasslands, shin oak shrublands, or open oak or mesquite woodlands	E	Texas
Prairie-chicken, Attwater's greater	<i>Tympanuchus cupido attwateri</i>	Forest	E	Texas
Pseudoscorpion, Tooth Cave	<i>Tartarocreagris texana</i>	Dry caves within the Edwards Limestone Formation	E	Texas
Pupfish, Comanche Springs	<i>Cyprinodon elegans</i>	Spring-marsh complex, irrigation canals	E	Texas
Pupfish, Leon Springs	<i>Cyprinodon bovinus</i>	Spring-marsh complex, irrigation canals	E	Texas
Rush-pea, slender	<i>Hoffmannseggia tenella</i>	Sparsely vegetated openings within bluestem- sacahuista grasslands	E	Texas
Salamander, Barton Springs	<i>Eurycea sosorum</i>	Aquatic, rubble in the spring outflow at Barton Springs	E	Texas
Salamander, Texas blind	<i>Typhlomolge rathbuni</i>	Subterranean streams of the Purgatory Creek system	E	Texas
Sand-verbena, large-fruited	<i>Abronia macrocarpa</i>	Deep, well- drained sands	E	Texas
		Shallow coastal waters of		

Sawfish, smalltooth	<i>Pristis pectinata</i>	tropical seas and estuaries; sheltered bays, on shallow banks, and in estuaries or river mouths	E	Texas
Sea turtle, hawksbill	<i>Eretmochelys imbricata</i>	Clear offshore waters off the mainland and on island shelves	E	Texas
Sea turtle, Kemp's ridley	<i>Lepidochelys kempii</i>	Shallow areas with sandy and muddy bottoms	E	Texas

T - Threatened
E - Endangered


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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Sea turtle, leatherback	<i>Dermochelys coriacea</i>	Warm sands of tropical beaches	E	Texas
Snail, Pecos assiminea	<i>Assiminea pecos</i>	Permanent, flowing, unpolluted, fresh to moderately saline water; Moist or saturated soil at stream or spring run margins with native vegetation growing in or adapted to aquatic or very wet environment, such as salt grass or sedges; and Stable water levels with natural diurnal and seasonal variation	E	Texas
Snowbells, Texas	<i>Styrax texanus</i>	Praries and pastures	E	Texas
Spider, Government Canyon Bat Cave	<i>Neoleptoneta microps</i>	Subterranean obligate	E	Texas
Spider, Tooth Cave	<i>Leptoneta myopica</i>	Subterranean obligate	E	Texas
Tern, least interior pop.	<i>Sterna antillarum</i>	Open sandy or gravelly beach, dredge spoil and other open shoreline areas	E	Texas
Toad, Houston	<i>Bufo houstonensis</i>	Soft sandy soils; pine forest, mixed deciduous forest	E	Texas
Vireo, black-capped	<i>Vireo atricapillus</i>	Shrubland/chaparral	E	Texas

Warbler (=wood), golden-cheeked	<i>Dendroica chrysoparia</i>	Woodlands with tall Ashe juniper, oaks, and other hardwood trees	E	Texas
Whale, finback	<i>Balaenoptera physalus</i>	Offshore ocean waters	E	Texas
Whale, humpback	<i>Megaptera novaeangliae</i>	Surface of the ocean	E	Texas
Wild-rice, Texas	<i>Zizania texana</i>	Gravelly, sandy to silty clays in relatively shallow water	E	Texas

T - Threatened
E - Endangered

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Woodpecker, red-cockaded	<i>Picoides borealis</i>	Open pine forests with large, widely-spaced older trees	E	Texas
(No common name)	<i>Geocarpon minimum</i>	Grazing land	T	Texas
Bear, Louisiana black	<i>Ursus americanus luteolus</i>	Forest - mixed, woodland	T	Texas
Cactus, Chisos Mountain hedgehog	<i>Echinocereus chisoensis</i> var. <i>chisoensis</i>	Desert grasslands or sparsely vegetated shrublands on gravelly flats and terraces	T	Texas
Cactus, Lloyd's Mariposa	<i>Echinomastus mariposensis</i>	Arid, gravelly, limestone-derived soils on gentle slopes	T	Texas
Cory cactus, bunched	<i>Coryphantha ramillosa</i>	Chihuahuan Desert succulent scrub on rocky slopes, ledges, and gravelly flats	T	Texas
Eagle, bald Sonoran Desert DPS	<i>Haliaeetus leucocephalus</i>	Coastlines, rivers, lakes, wet prairies, and coastal pine lands	T	Texas
Minnow, Devils River	<i>Dionda diaboli</i>	Creek medium river	T	Texas
Oak, Hinckley	<i>Quercus hinckleyi</i>	Arid, rocky, limestone-derived soils or	T	Texas

		limestone outcrops		
Owl, Mexican spotted	<i>Strix occidentalis lucida</i>	Forest, woodlands	T	Texas
Plover, piping except Great Lakes watershed	<i>Charadrius melodus</i>	Wetlands	T	Texas
Salamander, San Marcos	<i>Eurycea nana</i>	Clear spring water coming from the headwaters of the San Marcos River	T	Texas

T - Threatened


E - Endangered

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6.5 ENDANGERED AND THREATENED SPECIES BY STATE, CONTINUED

COMMON NAME	SCIENTIFIC NAME	HABITAT	STATUS	STATE
Sea turtle, green except where endangered	<i>Chelonia mydas</i>	Coasts, open sea	T	Texas
Sea turtle, loggerhead	<i>Caretta caretta</i>	Estuaries, coastal streams and salt marshes	T	Texas
Shiner, Arkansas River Arkansas R. Basin	<i>Notropis girardi</i>	Unshaded channels of creeks and small to large rivers	T	Texas
Snake, Concho water	<i>Nerodia paucimaculata</i>	Bare rock/talus/scree	T	Texas
Sunflower, Pecos (=puzzle, =paradox)	<i>Helianthus paradoxus</i>	Desert wetlands	T	Texas

T - Threatened
E - Endangered

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6.6 VALVE LOCATIONS

(b) (7)(F)



(b) (7)(F)



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6.6 VALVE LOCATIONS

(b) (7)(F)





(b) (7)(F)



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6.7 LAND OWNERS

NAME	PHONE #	ADDRESS	MILE POST/STATION
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6.8 PIPELINE SENSITIVITY MAPS

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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6.8 PIPELINE SENSITIVITY MAPS, CONTINUED

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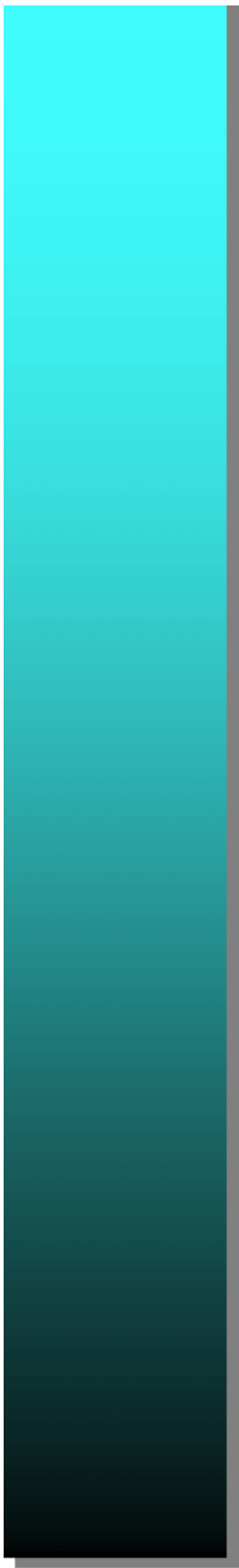
SECTION 7


Last Revised: February 2009

SUSTAINED RESPONSE ACTIONS

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7.1 Response Resources7.1.1 Facility Response EquipmentFigure 7.1-1 - Regional Company and Response Contractor's Equipment List / Response Time7.1.2 Response Equipment Inspection and Maintenance7.1.3 Contractors, Contractor Equipment, and Labor7.1.4 Command PostFigure 7.1-2 - Command Post Checklist7.1.5 Staging Area7.1.6 Communications PlanFigure 7.1-3 - Communications Checklist7.2 Public AffairsFigure 7.2-1 - Incident Fact Sheet7.3 Site Security MeasuresFigure 7.3-1 - Site Security Checklist7.4 Waste ManagementFigure 7.4-1 - Waste Management Flow ChartFigure 7.4-2 - General Waste Containment and Disposal Checklist

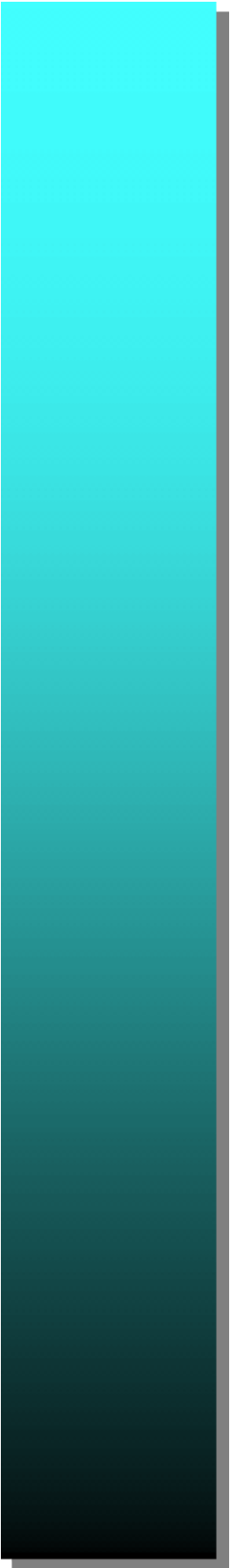



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SECTION 7

SUSTAINED RESPONSE ACTIONS, CONTINUED

7.4.1 Waste StorageFigure 7.4-3 - Temporary Storage Methods7.4.2 Waste Transfer7.4.3 Waste DisposalFigure 7.4-4 - Facility-Specific Disposal Locations



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7.1 RESPONSE RESOURCES

7.1.1 Facility Response Equipment

***Note:** Company owned equipment is only maintained at the facility for back up purposes to the OSROs identified in **APPENDIX B.1.1**. Visual inspections will be conducted on response equipment annually.

SKIMMERS/PUMPS					
TYPE/MODEL/YEAR	QUANTITY	CAPACITY	DAILY EFFECTIVE RECOVERY RATE	DATE FUEL LAST CHANGED	STORAGE LOCATION
Skim Pac Skimmer	1				Response Trailer
Skim Pac Skimmer with 2" Suction Hose & Float	1				Response Trailer
BOOM					
TYPE/MODEL/YEAR	QUANTITY	SIZE	CONTAINMENT AREA (sq ft)	STORAGE LOCATION	
Absorbent Boom	10 Bundles			Response Trailer	
Containment Boom	1000 Ft.	4" Float, 8" Skirt		Response Trailer	
SORBENTS					
TYPE/YEAR	QUANTITY	ABSORPTION CAPACITY (gal)	STORAGE LOCATION	OPERATIONAL STATUS	
18" x 18" x 3/8" Absorbent Pads	50 Bundles		Response Trailer	Ready	
Fiber Pearl Absorbent	6 Bags		Response Trailer	Ready	
Pom Pom Absorbent	17 Bags		Response Trailer	Ready	
HAND TOOLS					
TYPE/YEAR	QUANTITY	STORAGE LOCATION	OPERATIONAL STATUS		

Regular Round Shovels	4	Response Trailer	Ready		
Pitch Forks	4	Response Trailer	Ready		
Garden Rakes	4	Response Trailer	Ready		
Yard Rakes	4	Response Trailer	Ready		
Brush Hooks	3	Response Trailer	Ready		

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7.1 RESPONSE RESOURCES

7.1.1 Facility Response Equipment

***Note:** Company owned equipment is only maintained at the facility for back up purposes to the OSROs identified in **APPENDIX B.1.1**. Visual inspections will be conducted on response equipment annually.

FIRE FIGHTING AND PERSONNEL PROTECTIVE EQUIPMENT					
TYPE/YEAR	QUANTITY	STORAGE LOCATION	OPERATIONAL STATUS		
14" Rubber Gloves	13 Pairs	Response Trailer	Ready		
Leather Gloves	12 Pairs	Response Trailer	Ready		
Safety Glasses	12 Pairs	Response Trailer	Ready		
Safety Goggles	6 Pairs	Response Trailer	Ready		
Hard Hats	3	Response Trailer	Ready		
Tyvex Suits @ 175 Each	6 Boxes	Response Trailer	Ready		
OTHER					
TYPE/YEAR	QUANTITY	STORAGE LOCATION	OPERATIONAL STATUS		
20-Gallon Trash Bags	10	Response Trailer	Ready		
Sharp Shooter?s	4	Response Trailer	Ready		
25-Gallon Trash Bags	200	Response Trailer	Ready		
First Aid Kit	1	Response Trailer	Ready		
Caution Tape	4 Rolls	Response Trailer	Ready		
Duct Tape	4 Rolls	Response	Ready		

Trailer

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7.1.1 Facility Response Equipment, Continued

***Note:** Company owned equipment is only maintained at the facility for back up purposes to the OSROs identified in **APPENDIX B.1.1**. Visual inspections will be conducted on response equipment annually.

OTHER					
TYPE/YEAR	QUANTITY	STORAGE LOCATION	OPERATIONAL STATUS		
1/4" Grass Rope 600' Each	2 Boxes	Response Trailer	Ready		
24' x 100' 6 ml. Plastic	1	Response Trailer	Ready		


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FIGURE 7.1-1 - REGIONAL COMPANY AND RESPONSE CONTRACTOR'S EQUIPMENT LIST / RESPONSE TIME

* USCG Classified OSRO for facility

COMPANY/CONTRACTOR	EQUIPMENT	RESPONSE TIME
*Clean Harbors Environmental Services Houston, TX	Full Response Capability	0 hours
*Garner Environmental Deer Park, TX	Full Response Capability	1 hours
*U.S. Environmental Services (USES) Deer Park, TX	Full Response Capability	1 hours
*OMIES Pasadena, TX	Full Response Capability	1 hours

*Note: Response times are based on 35 mph for land (five knots for water) and take into account traffic, weather, and other environmental conditions that could restrict response efforts.

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7.1.2 Response Equipment Inspection and Maintenance


Company response equipment is only used as a backup to the identified OSROs in **FIGURE 7.1-1**. It is the responsibility of the individual OSRO to maintain their equipment as described below:

Containment boom During boom deployment exercises, boom will be inspected by the OSRO for signs of structural deficiencies. If tears in fabric or rotting is observed, boom will be repaired or replaced. In addition, end connectors will be inspected for evidence of corrosion. If severe corrosion is detected, equipment will be repaired or replaced.

Miscellaneous equipment The individual OSRO will inventory test the stated quantities are in inventory and in proper working order. The equipment inspection and deployment exercises are recorded and maintained with the OSRO and retained for a period of five years. Exercise requirements are listed in **APPENDIX A.1**. A Spill/Exercise Documentation form is in **FIGURE A.1-3**.

7.1.3 Contractors, Contractor Equipment, and Labor

- The Company's primary response contractors' names and phone numbers, as well as other companies who can provide spill response services are provided in **FIGURE 3.1-4**.
- The Company has ensured by contract the availability of private personnel and equipment necessary to respond, to the maximum extent practicable, to the worst case discharge or the substantial threat of such discharge.
- Contractors without USCG classification deploy and inspect boom to meet PREP guidelines. Company requires that these exercises are completed annually.
- **APPENDIX B** contains evidence of contracts for the Company's primary response contractors and equipment lists of contractors without USCG classification.

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7.1.4 Command Post

In the event of a major spill or other emergency, both a Company off-site SMT Command Center and a Command Post (located close to but at a safe distance back from the incident scene) may be established. For a minor emergency, only a Command Post may be established. Refer to **FIGURE 7.1-2** for guidelines in establishing a Command Post.

FIGURE 7.1-2 - COMMAND POST CHECKLIST

COMMAND POST CHECKLIST	INITIALS	DATE/TIME STARTED	DATE/TIME COMPLETED
Ensure adequate space for size of staff.			
Ensure 24-hour accessibility.			
Ensure personal hygiene facilities.			
Ensure suitability of existing communications resources (phone/fax/radio).			
Ensure suitability of private conference and briefing rooms.			
Identify Command Post security requirements, safe location.			
Notify other parties of Command Post location; provide maps/driving directions.			
Determine staging areas and incident base locations.			
Identify future need to move, upgrade facilities.			

Command Posts for this facility are located at "list location": as needed depending on location of spill

7.1.5 Staging Area

According to the incident type and magnitude, numerous staging areas may be required to support containment and cleanup operations. The staging area should be located in the cold zone inside the delineated isolation perimeter.

In selecting a suitable staging area, the following criteria should be considered:


- Accessibility to impacted areas;
- Proximity to secure parking, airports, docks, pier, or boat launches; and

- Accessibility to large trucks and trailers which may be used to transfer equipment.

In addition, the staging area should:

- Be in a large open area in order to provide storage for equipment and not interfere with equipment loading and offloading operations.
- Have a dock/pier on site for deploying equipment.
- Have moorage available for vessels to aid the loading/offloading of personnel.

Staging areas for this facility are located at "list location": as needed depending on location of spill

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7.1.6 Communications Plan

Normal Company communications to the Facility are conducted via telephone lines, cellular telephones, two way radios, e-mail, and fax machines.

Company owned communications equipment and quantities commonly used to address response communications are listed below:

Landlines, Cell Phones, Designated Fax Lines, Computers, T1 Connections, Wireless Internet Cards.

Additional communications equipment (satellite phones, VHF portable radios with chargers and accessories, command post with UHF, VHF, single sideband, marine, aeronautical, telephone, and hard-line capability) may be provided by the Company or leased from a communications company in the area. Communications with government agencies, state police, and contractors can be conducted on portable radios. Refer to **FIGURE 7.1-3** for guidelines to setup communications.


The Communications Plan, written at the time of an incident, will identify telephone numbers and radio frequencies used by responders. This may also involve activation of multiple types of communications equipment and coordination among multiple responding agencies and contractors.

FIGURE 7.1-3 - COMMUNICATIONS CHECKLIST

COMMUNICATIONS CHECKLIST	INITIALS	DATE/TIME STARTED	DATE/TIME COMPLETED
Develop a Communications Plan.			
Ensure adequate phone lines per staff element - contact local provider.			
Ensure adequate fax lines - contact local provider.			
Evaluate need for internet access.			
Ensure recharging stations for cellular phones.			
VHF radio communications: <ul style="list-style-type: none"> • Establish frequencies. • Assign call signs. • Distribute radios. • Establish communications schedule. 			

Ensure recharging stations for VHF radios.			
Determine need for VHF repeaters.			
Ensure copy machine available.			
Ensure communications resource accountability.			
Ensure responders have capability to communicate with aircraft.			

Note: Actions on this checklist may not be applicable or may be continuous activities.

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7.2 PUBLIC AFFAIRS

This section contains guidelines for dealing with the media during an emergency. The Incident Commander will play a key role in providing the initial public assessment and taking the first steps to provide the Company's public response. Information in this section includes:

- Guidelines for dealing with the media
- Incident Fact Sheet (**FIGURE 7.2-1**)

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7.2 PUBLIC AFFAIRS, CONTINUED

GUIDELINES FOR DEALING WITH THE MEDIA

- **IMPORTANT:** Notify Vice President of HSSE and/or Corporate Legal Counsel for guidance in addressing media inquiries. Only Vice President of HSSE and/or Corporate Legal Counsel are designated to talk to the media.
- Facility personnel, Genesis employees and contractors hired on behalf of Genesis shall direct media to the Vice President of HSSE and/or Corporate Legal Counsel.
- Reporters will look elsewhere to find out what happened if you do not answer their questions; however, if you do not have this information or are not prepared to answer a particular question, say so then say when they can expect the answers to their questions (such as one hour).
- It is important to be courteous to all media representatives and to provide a safe place for them to wait until a Company representative can meet them; you may need to provide an initial statement.

Provide

- A brief, general description of what happened.
- Number of injured or killed, if known.
- Steps being taken to handle the emergency.

Don't provide

- Names of deceased or seriously injured employees until the next of kin have been notified.
- Speculation about the cause of the emergency.
- Any statement implying personal or Company negligence.
- Cost estimates of damage.

Other considerations

- Safety considerations should always receive priority in determining access to Company property.
- Anticipate likely questions.
- There are only six questions that can be asked about any subject: who, what, when, where, why, and how.

- Keep answers short and understandable. Don't use industry jargon or acronyms.
- Answer only the question that is asked by the reporter.
- Give the most important facts first.

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7.2 PUBLIC AFFAIRS, CONTINUED

Other considerations, continued:

- Talk to the public's concern about the incident such as whether these were deaths, injuries, any threat to the public, or danger of explosion or fire.
- If you don't know the answer to a question, don't be afraid to say "I don't know"; make note of the question and tell the reporter that you will try to get the answer - then do it. Don't use the phrase "No Comment".
- Don't be defensive.
- There is no such thing as "Talking off the record"; assume that anything and everything you say to a reporter is going to be printed and/or used in the story.
- Avoid "What If?" or speculative questions; these questions should be answered with a restatement of the problem and what is being done to control it.
- Don't speculate about the cause of the incident.
- Don't minimize the situation.





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FIGURE 7.2-1 - INCIDENT FACT SHEET

What occurred:
When (time):
Where (location):
What are hazards:
How is the situation being handled:
How many people involved:
Confirmed injuries/fatalities:
Treatment location:
Name of injured (release only after next of kin are notified):
Name of fatalities (release only after next of kin are notified):
What agencies have been notified:
On scene? (yes/no):
Who is in charge:
Has outside help been requested:
Who:
On scene? (yes/no):
Is there danger to the plant:
Is there danger to the community:
What:
Is there an environmental hazard:
What is the environmental hazard:
What is being done to minimize environmental threat:
Is there a need for evacuation:

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7.3 SITE SECURITY MEASURES

(b) (7)(F)



(b) (7)(F)



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7.4 WASTE MANAGEMENT

Initial oil handling and disposal needs may be overlooked in the emergency phase of a response, which could result in delays and interruptions of cleanup operations. Initially, waste management concerns should address:


- Equipment capacity,
- Periodic recovery of contained oil, and
- Adequate supply of temporary storage capacity and materials.

The following action items should be conducted during a spill response:

- Development of a Site Safety and Health Plan (**SECTION 5.4**) addressing the proper PPE and waste handling procedures.
- Development of a Disposal Plan (**SECTION 5.6**) in accordance with any federal, state, and/or local regulations. Facility-specific disposal locations for different types of materials are listed in **FIGURE 7.4.4**.
- Continuous tracking of oil disposition in order to better estimate amount of waste that could be generated over the short and long-term.
- Organization of waste collection, segregation, storage, transportation, and proper disposal.
- Minimization of risk of any additional pollution.
- Regulatory review of applicable laws to ensure compliance and (if appropriate) obtain permits.
- Documentation of all waste handling and disposal activities.
- Disposal of all waste in a safe and approved manner.

Good hazardous waste management includes:

- Reusing materials when possible.
- Recycling or reclaiming waste.
- Treating waste to reduce hazards or reducing amount of waste generated.

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7.4 WASTE MANAGEMENT, CONTINUED

- The management of the wastes generated in cleanup and recovery activities must be conducted with the overall objective of ensuring:
 - Worker safety,
 - Waste minimization,
 - Cost effectiveness, and
 - Minimization of environmental impacts.
- Proper disposal.
- Minimization of present and future environmental liability.

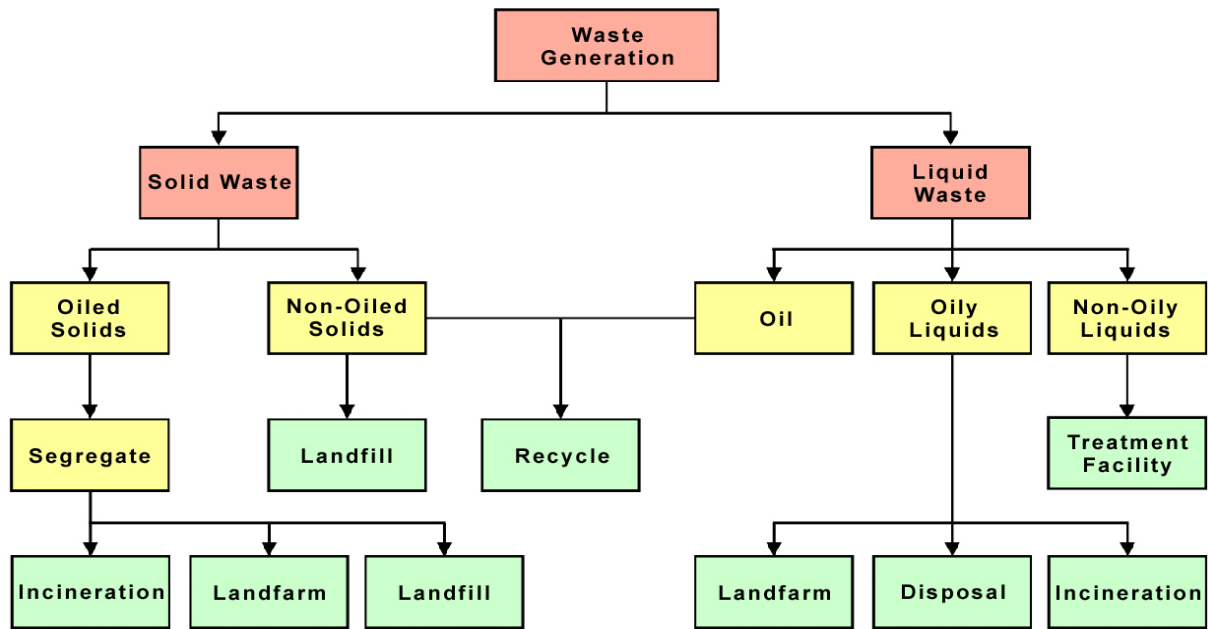
Solid wastes, such as sorbents, PPE, debris, and equipment will typically be transported from the collection site to a designated facility for:

- Storage
- Waste segregation
- Packaging
- Transportation

Once this process is complete, the waste will be shipped off-site to an approved facility for required disposal.

A general flow chart for waste management guidelines is provided in **FIGURE 7.4-1**. An overall checklist for containment and disposal is provided in **FIGURE 7.4-2**.

FIGURE 7.4-1 - WASTE MANAGEMENT FLOW CHART






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FIGURE 7.4-2 - GENERAL WASTE CONTAINMENT AND DISPOSAL CHECKLIST

CONSIDERATION	YES/NO/NA
Is the material being recovered a waste or reusable product?	
Has all recovered waste been containerized and secured so there is no potential for further leakage while the material is being stored?	
Has each of the discrete waste streams been identified?	
Has a representative sample of each waste stream been collected?	
Has the sample been sent to an approved laboratory for the appropriate analysis, (i.e. hazardous waste determination)?	
Has the appropriate waste classification and waste code number(s) for the individual waste streams been received?	
Has a temporary EPA identification number and generator number(s) been received, if they are not already registered with EPA?	
Have the services of a registered hazardous waste transporter been contracted, if waste is hazardous?	
If the waste is nonhazardous, is the transporter registered?	
Is the waste being taken to an approved disposal site?	
Is the waste hazardous or Class I nonhazardous?	
If the waste is hazardous or Class I nonhazardous, is a manifest being used?	
Is the manifest properly completed?	
Are all federal, state, and local laws/regulations being followed?	
Are all necessary permits being obtained?	
Has a Disposal Plan been submitted for approval/review?	
Has PPE and waste-handling procedures been included in the Site Safety and Health Plan to protect the health and safety of waste handling personnel?	

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7.4.1 Waste Storage

During an oil spill, the volume of oil that can be recovered depends on the storage capacity available. Typical short-term (temporary) storage methods are provided in [FIGURE 7.4-3](#). If storage containers such as bags or drums are used, the container should be clearly marked and/or color-coded to indicate the type of material or waste contained and/or the ultimate disposal option.

Use of any site for storage is dependent on the approval of local authorities. The following elements affect the choice of a potential storage site:

- Geology
- Soil
- Surface water
- Covered materials
- Climatic factor
- Toxic air emissions
- Access
- Ground water
- Flooding
- Slope
- Capacity
- Land use
- Security
- Public contact

FIGURE 7.4-3 - TEMPORARY STORAGE METHODS

CONTAINMENT	PRODUCT						CAPACITY
	OIL	OIL/WATER	OIL/SOIL	OIL/DEBRIS (Small)	OIL/DEBRIS (Medium)	OIL/DEBRIS (Large)	
Drums	X	X	X				0.2-0.5 yd ³
Bags		X	X	X			1.0-2.0 yd ³
Boxes		X	X	X			1-5 yd ³
Open top rolloff	X	X	X	X	X	X	8-40 yd ³
Roll top rolloff	X	X	X	X	X	X	15-25 yd ³
Vacuum box	X	X					15-25 yd ³
Frac tank	X	X					500-20,000 gal
Poly tank	X	X					200-4,000 gal
Vacuum truck	X	X	X				2,000-

							5,000 gal
Tank trailer	X	X					2,000- 4,000 gal
Barge	X	X					3,000+ gal
Berm, 4 ft		X	X	X	X	X	1 yd ³
Bladders	X	X					25-1,500 gal

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7.4.2 Waste Transfer

In most oil spill response operations, it would be necessary to transfer recovered oil and oil debris from one point to another several times before the oil and oily debris are ultimately disposed of at a state approved disposal site. Depending on the location of response operations, any or all of the following transfer operations may occur:


- Directly into the storage tank of a vacuum device.
- Directly in to impermeable bags that, in turn, are placed in impermeable containers.
- From a vacuum device storage tank to a truck.
- From containers to trucks.
- From trucks to lined pits.
- From lined pits to incinerators and/or landfills.
- From a tank truck to a processing system (i.e., oil/water separator).
- From a processing system to a recovery system and or incinerator.
- From a skimming vessel or flexible bladder to a barge.
- From a barge to a tank truck.
- Directly into the storage tank on a dredge.
- From portable or vessel mounted skimmers into flexible bladder tanks, the storage tanks of the skimming vessel itself, or a barge.

There are four general classes of transfer systems that could be employed to effect oily waste transfer operations. The following is a brief description of the four transfer systems:

Pumps

Rotary pumps, such as centrifugal pumps, may be used when transferring large volumes of oil, but they may not be appropriate for pumping mixtures of oil and water. The extreme shearing action of centrifugal pumps tends to emulsify oil and water, thereby increasing the viscosity of the mixture and causing low, inefficient transfer rates.

The resultant emulsion would also be more difficult to separate into oil and water fractions. Lobe or "positive displacement" pumps work well on heavy, viscous oils, and do not emulsify the oil/water mixture. Double-acting piston and double acting diaphragm pumps are reciprocating pumps that may also be used to pump oily wastes.

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7.4.2 Waste Transfer, Continued

Vacuum Systems

Vacuum systems, such as air conveyors, vacuum trucks and portable vacuum units, may be used to transfer viscous oils and debris but they usually pick up a very high water/oil ratio.

Belt / Screw Conveyors

Conveyor may be used to transfer oily wastes containing a large amount of debris. These systems can transfer weathered debris laden oil either horizontally or vertically for short distances but are bulky and difficult to operate.

Wheeled Vehicles

Wheeled vehicles may be used to transfer liquid waste of oily debris to storage or disposal sites. These vehicles are readily available but have a limited rate (i.e., 100 bbls) and require good site access.

7.4.3 Waste Disposal

In order to obtain the best overall Incident Disposal Plan, a combination of methods should be used. There is no template or combination of methods that can be used in every spill situation. Each incident should be reviewed carefully to ensure an appropriate combination of disposal techniques are employed.

The following is a brief description of some disposal techniques available for recovered oil and oily debris.

Recycling

Recycling involves processing discarded materials for another use.

Incineration

This technique entails the destruction of the recovered oil by high temperature thermal oxidation reactions. There are licensed incineration facilities as well as portable incinerators that may be brought to a spill site. Incineration may require the approval of the local Air Pollution Control Authority.

In-Situ Burning / Open Burning

Burning techniques entail igniting oil or oiled debris allowing it to burn under ambient conditions. These disposal techniques are subject to restrictions and permit requirements established by federal, state, and local laws. Permission for in-situ burning may be difficult to obtain when the burn takes place near populated areas.

As a general rule, in-situ burning would be appropriate only when atmospheric conditions will allow the smoke to rise several hundred feet and rapidly dissipate. Smoke from burning oil will normally rise until its temperature drops to equal the ambient temperature.

Afterwards, it will travel in a horizontal direction under the influence of prevailing winds.

Landfill Disposal

This technique entails burying the recovered oil in a approved landfill in accordance with regulatory procedures. Landfill disposal of free liquids is prohibited by federal law in the United States.



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FIGURE 7.4-4 - FACILITY-SPECIFIC DISPOSAL LOCATIONS

MATERIAL	DISPOSAL FACILITY	LOCATION
Recovered Product	Garner Environmental	1717 W. 13th Street Deer Park TX 77536
	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536
Contaminated Soil	Garner Environmental	1717 W. 13th Street Deer Park TX 77536
	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536
Contaminated Equipment	Garner Environmental	1717 W. 13th Street Deer Park TX 77536
	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536
Personnel Protective Equipment	Garner Environmental	1717 W. 13th Street Deer Park TX 77536
	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536
	Garner Environmental	1717 W. 13th Street Deer Park TX 77536

Decontamination Solutions	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536
Adsorbents and Spent Chemicals	Garner Environmental	1717 W. 13th Street Deer Park TX 77536
	Oil Mop LLC	450 Preston Rd. Pasadena TX 77503
	U.S. Environmental Services (USES)	950 Seaco Avenue Deer Park TX 77536

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SECTION 8

Last Revised: May 2006

DEMOBILIZATION / POST-INCIDENT REVIEW

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8.1 Terminating the Response8.2 DemobilizationFigure 8.2-1 - Demobilization Checklist8.3 Post-Incident ReviewFigure 8.3-1 - Standard Incident Debriefing Form8.3.1 Final Spill Cleanup Report



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8.1 TERMINATING THE RESPONSE

- A team of federal, state, and Company personnel must certify that each area is clean before halting cleanup operations.
- Demobilize equipment and personnel at the first opportunity in order to reduce cost.
- Consider which resources should be demobilized first; for example, berthing expenses can be saved by demobilizing out-of-area contractors before local ones.
- Equipment may need both maintenance and decontamination before being demobilized.
- All facilities (staging area, Command Post, etc.) should be returned to their pre-spill condition before terminating operations.
- Determine what documentation should be maintained, where, and for how long.
- Contract personnel may be more susceptible to "suffering" injuries as they approach termination.
- Some activities will continue after the cleanup ends; examples include incident debriefing, bioremediation, NRDA studies, claims, and legal actions.
- Consider expressing gratitude to the community, police department, fire department, and emergency crews for their work during the response.

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8.2 DEMOBILIZATION

The Company can reduce costs considerably by developing a Demobilization Plan (**SECTION 5.8**). Therefore, emphasis must be placed on establishing efficient demobilization procedures. A Demobilization Checklist is provided in **FIGURE 8.2-1**.

FIGURE 8.2-1 - DEMOBILIZATION CHECKLIST

DEMOBILIZATION CHECKLIST	INITIALS	DATE/TIME STARTED	DATE/TIME COMPLETED
Assign personnel to identify surplus resources and probable release times.			
Establish demobilization priorities.			
Develop decontamination procedures.			
Initiate equipment repair and maintenance.			
Develop a Disposal Plan.			
Identify shipping needs.			
Identify personnel travel needs.			
Develop impact assessment and statements.			
Obtain concurrence of Planning and Operations Group Leaders before release of personnel or equipment.			

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8.3 POST-INCIDENT REVIEW

All Facility personnel involved in the incident shall be debriefed (by the Company) within two weeks after termination of operations. A Standard Incident Debriefing Form is provided in **FIGURE 8.3-1**. The primary purpose of the post-incident review is to identify actual or potential deficiencies in the Plan and determine the changes required to correct the deficiencies. The post-incident review also is intended to identify which response procedures, equipment, and techniques were effective and which were not and the reason(s) why. This type of information is very helpful in the development of a functional Plan by eliminating or modifying those response procedures that are less effective and emphasizing those that are highly effective. This process should also be used for evaluating training drills or exercises. Key agency personnel that were involved in the response will be invited to attend the post-incident review.

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FIGURE 8.3-1 - STANDARD INCIDENT DEBRIEFING FORM

Name of incident:
Date:
PERSONNEL DEBRIEFED
Name:
Normal duty:
Summary of duties performed during incident (list date, time, and location):
Positive aspects of the response:
Aspects of the response which could be improved:

Name:
Title:
Signature:



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8.3.1 Final Spill Cleanup Report

A final, comprehensive report shall be prepared by the Incident Commander or designee and forwarded to the Administrator within 90 days after completion of spill cleanup activities for internal use. It should be written in the narrative form and include the information listed below (as appropriate):

- Name, address, and telephone number of the owner or operator.
- Name, address, and telephone number of the Facility.
- Time, location, and date of discharge.
- Type of material discharged.
- Quantity discharged (indicate volume, color, length and width of slick, and rate of release, if continuous).
- Source of spill (tank, flowline, etc.) in which the oil was originally contained, path of discharge, and impact area.
- Detailed description of what actually caused the discharge and actions taken to control or stop the discharge.
- Estimated quantity and disposition of recovered material that resulted from the incident.
- Description of actual or potential hazards to human health or the environment.
- Steps taken to clean up the spilled oil along with dates and times steps were taken.
- The equipment used to remove the spilled oil, dates, and number of hours equipment was used.
- The number of persons employed in the removal of oil from each location, including their identity, employer, and the number of hours worked at that location.
- The extent of injuries, if any.
- Actions by the Company or contractors to mitigate damage to the environment.
- Measures taken by the Company or contractors to prevent future spills.

- The federal and state agencies to which the Company or contractors reported the discharge; show the agency, its location, the date and time of notification, and the official contacted.
- Description of the effectiveness of equipment and cleanup techniques and recommendations for improvement.
- The names, addresses, and titles of people who played a major role in responding to the event.
- A section identifying problems and deficiencies noted during the response event; a follow-up section should include recommended procedure modifications to make a future response more effective and efficient.



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8.3.1 Final Spill Cleanup Report, Continued

- All other relative information.
- A final signature as follows:

The above information is true to the best of my knowledge and belief:

Name:
Title:
Signature:
Date:

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A. TRAINING / EXERCISES**B. CONTRACTOR RESPONSE EQUIPMENT****C. HAZARD EVALUATION AND RISK ANALYSIS****D. CROSS-REFERENCES**

APPENDICES

E. ACRONYMS AND DEFINITIONS

F. ADDITIONAL INFORMATION

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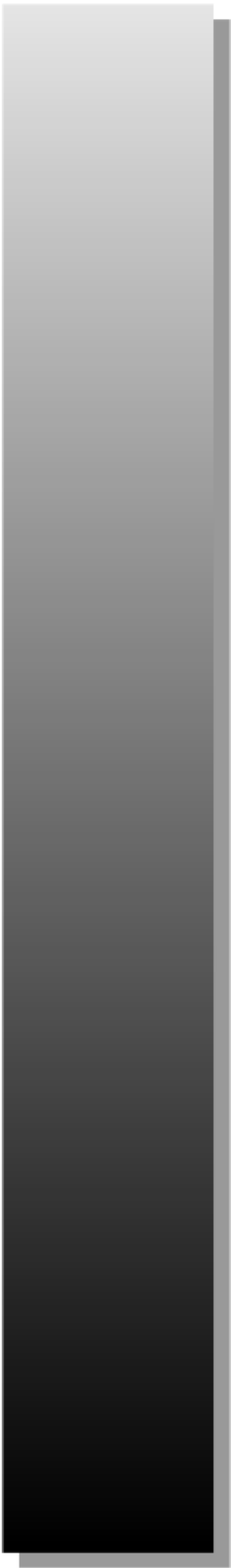
APPENDIX A


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TRAINING / EXERCISES

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A.1 Exercise Requirements and SchedulesFigure A.1-1 - PREP Response Plan Core ComponentsFigure A.1-2 - Exercise RequirementsFigure A.1-3 - Spill / Exercise Documentation FormFigure A.1-4 - EPA Required Response Equipment
Testing and Deployment Drill LogFigure A.1-5 - Qualified Individual Notification Drill LogFigure A.1-6 - Spill Management Team Tabletop Exercise
LogA.2 Training Program**Figure A.2-1 - Training Requirements**Figure A.2-2 - PREP Training Program MatrixFigure A.2-3 - Personnel Response Training Log



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A.1 EXERCISE REQUIREMENTS AND SCHEDULES

- The Company participates in the National Preparedness for Response Exercise Program (PREP).
- During each triennial cycle, all components of the Plan (**FIGURE A.1-1**) must be exercised at least once.
- The Environmental Department is responsible for the following aspects:
 - Scheduling,
 - Maintaining records,
 - Implementing,
 - Evaluation of the Company's training and exercise program, and
 - Post-drill evaluation improvements.
- **FIGURE A.1-2** provides descriptions of exercise requirements, **FIGURE A.1-3** provides a Spill/Exercise Documentation form or a corresponding Company form may be used, and **FIGURE A.1-4** provides a log for response equipment testing and deployment drill.


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FIGURE A.1-1 - PREP RESPONSE PLAN CORE COMPONENTS

CORE COMPONENTS	DESCRIPTION
1. Notifications	Test the notifications procedures identified in the Area Contingency Plan (ACP) and the Spill Response Plan.
2. Staff mobilization	Demonstrate the ability to assemble the spill response organization identified in the ACP and the Spill Response Plan.
3. Ability to operate within the response management system described in the Plan: <ul style="list-style-type: none"> • Unified Command • Response management system 	<p>Demonstrate the ability of the spill response organization to work within a unified command.</p> <p>Demonstrate the ability of the response organization to operate within the framework of the response management system identified in their respective plans.</p>
4. Source control	Demonstrate the ability of the spill response organization to control and stop the discharge at the source.
5. Assessment	Demonstrate the ability of the spill response organization to provide initial assessment of the discharge and provide continuing assessments of the effectiveness of the tactical operations.
6. Containment	Demonstrate the ability of the spill response organization to contain the discharge at the source or in various locations for recovery operations.
7. Recovery	Demonstrate the ability of the spill response organization to recover, mitigate, and remove the discharged product includes mitigation and removal activities.
8. Protection	Demonstrate the ability of the spill response organization to protect the environmentally and economically sensitive areas identified in the NWACP and the respective industry response plan.
9. Disposal	Demonstrate the ability of the spill response organization to dispose of the recovered material and contaminated debris

	in compliance with guidance found in the NWACP.
10. Communications	Demonstrate the ability to establish an effective communications system throughout the scope of the Plan for the spill response organization.
11. Transportation	Demonstrate the ability to establish effective multi-mode transportation both for execution of the discharge and support functions.
12. Personnel support	Demonstrate the ability to provide the necessary logistical support of all personnel associated with response.
13. Equipment maintenance and support	Demonstrate the ability to maintain and support all equipment associated with the response.
14. Procurement	Demonstrate the ability to establish an effective procurement system.
15. Documentation	Demonstrate the ability of the spill response organization to document all operational and support aspects of the response and provide detailed records of decisions and actions taken.

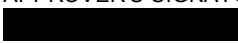
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FIGURE A.1-2 - EXERCISE REQUIREMENTS

EXERCISE TYPE	EXERCISE CHARACTERISTICS
Facility/QI notification	<ul style="list-style-type: none"> • Conducted quarterly. • The facility initiates mock spill notification to QI. • The Qualified Individual documents time/date of notification, name, and phone number of individual contacted. • Document in accordance with form in <u>FIGURE A.1-5.</u>
Equipment deployment	<ul style="list-style-type: none"> • Response contractors listed in the plan must participate in annual deployment exercise. • An exercise where response equipment is deployed to a specific site and operated in its normal operating medium. • Document in accordance with form in <u>FIGURE A.1-3.</u>
SMT tabletop	<ul style="list-style-type: none"> • Conducted annually. • Tests SMT's response activities/responsibilities. • Documents Plan's effectiveness. • Must exercise worst case discharge scenario once every three years. • Must test all Plan components at least once every three years • Document in accordance with form in <u>FIGURE A.1-4.</u>
Unannounced	<ul style="list-style-type: none"> • Company will either participate in unannounced tabletop exercise or equipment deployment exercise on an annual basis, if selected. • Company may take credit for participation in government-initiated unannounced drill in lieu of drill required by PREP guidelines. • Plan holders who have participated in a PREP government-initiated unannounced exercise will not be required to participate in another one for at least 36 months from the date of the exercise.
Area	<ul style="list-style-type: none"> • An industry plan holder that participates in an Area Exercise would not be required to participate in another Area Exercise for a minimum of six years.

OTHER EXERCISE CONSIDERATIONS

Drill program evaluation procedures

- Company conducts post-exercise meetings to discuss positive items, areas for improvement, and to develop action item checklist to be implemented later.

Records of drills

- Company will maintain exercise records for five years following completion of each exercise.
- Records will be maintained in the Training/Exercise tool in the electronic interface.
- Company will verify appropriate records are kept for each spill response contractor listed in Plan as required by PREP guidelines (annual equipment deployment drill, triennial unannounced drill, etc.).
- Available to USCG for inspection upon request.



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			APPROVER'S SIGNATURE 	

FIGURE A.1-3 - SPILL / EXERCISE DOCUMENTATION FORM

Retain this form for a minimum of five years.

1. Date(s) performed:		
2. <input type="checkbox"/> Exercise <input type="checkbox"/> Actual spill		
If exercise:		
<input type="checkbox"/> Announced <input type="checkbox"/> Unannounced <input type="checkbox"/> Deployment <input type="checkbox"/> Notification <input type="checkbox"/> Tabletop		
If exercise, frequency:		
<input type="checkbox"/> Quarter <input type="checkbox"/> 1st <input type="checkbox"/> 2nd <input type="checkbox"/> 3rd <input type="checkbox"/> 4th <input type="checkbox"/> Annual		
3. Location of exercise/spill:		
4. Time started:		
5. Description of scenario or spill including volume and content (crude oil, condensate, etc.):		
6. Describe how the following objectives were exercised:		
Team's knowledge of the Oil Spill Response Plan:		
	Yes	No
Was briefing meeting conducted:	<input type="checkbox"/>	<input type="checkbox"/>
Established field Command Post:	<input type="checkbox"/>	<input type="checkbox"/>
Confirmed source was stopped:	<input type="checkbox"/>	<input type="checkbox"/>
Developed Site Safety and Health Plan:	<input type="checkbox"/>	<input type="checkbox"/>
Prepared ICS 201:	<input type="checkbox"/>	<input type="checkbox"/>
Established work zones and perimeter security:	<input type="checkbox"/>	<input type="checkbox"/>

Developed short range tactical plan:	<input type="checkbox"/>	<input type="checkbox"/>
Developed long range tactical plan:	<input type="checkbox"/>	<input type="checkbox"/>
Proper Notifications:		
Qualified Individual (or designee):	<input type="checkbox"/>	<input type="checkbox"/>
Terminal Manager:	<input type="checkbox"/>	<input type="checkbox"/>
Release/Spill Report Form completed:	<input type="checkbox"/>	<input type="checkbox"/>
Notification to agencies completed (attach log):	<input type="checkbox"/>	<input type="checkbox"/>
Transportation/Communication System:		
Established primary/secondary communication system:	<input type="checkbox"/>	<input type="checkbox"/>
Primary: <input type="checkbox"/> cellular phone <input type="checkbox"/> two way radio <input type="checkbox"/> land telephone line		
Secondary: <input type="checkbox"/> cellular phone <input type="checkbox"/> two way radio <input type="checkbox"/> land telephone line		
<input type="checkbox"/> Other		


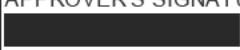


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FIGURE A.1-3 - SPILL / EXERCISE DOCUMENTATION FORM, CONTINUED

Transportation/Communication System, Continued:		
	Yes	No
Motor vessel deployed:	<input type="checkbox"/>	<input type="checkbox"/>
Provider name:		
Helicopter/Sea plane deployed:	<input type="checkbox"/>	<input type="checkbox"/>
Call sign:		
Describe function (i.e., transportation, surveillance, dispersant application):		
Ability to access contracted Oil Spill Removal Organizations (OSROs):		
Who contacted - (name of individual and OSRO):		
When contacted:		
Response time projection for deployment:		
Type and amount of containment used:		
Spill material recovered:	<input type="checkbox"/>	<input type="checkbox"/>
Spilled material disposed:	<input type="checkbox"/>	<input type="checkbox"/>
Where?		
Ability to coordinate spill response with on-scene coordinator, state, and applicable agencies:		
Was regulatory on-scene coordinator(s) contacted:	<input type="checkbox"/>	<input type="checkbox"/>
List person and agency represented:		

Ability to access sensitive site and resource information in the Area Contingency Plan (ACP):		
Was pre-impact assessment conducted:	<input type="checkbox"/>	<input type="checkbox"/>
Were pre-impact samples taken:	<input type="checkbox"/>	<input type="checkbox"/>
Were pre-impact photographs taken:	<input type="checkbox"/>	<input type="checkbox"/>
Were NRDA specialists mobilized:	<input type="checkbox"/>	<input type="checkbox"/>
Were deficiencies identified:	<input type="checkbox"/>	<input type="checkbox"/>
If yes, changes implemented:	<input type="checkbox"/>	<input type="checkbox"/>
If no, why were changes not implemented:		
LESSONS LEARNED	PERSON RESPONSIBLE FOR FOLLOW-UP OF CORRECTIVE MEASURES	
Name:		
Position:		
Certifying Signature:		

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**FIGURE A.1-4 - EPA REQUIRED RESPONSE EQUIPMENT TESTING
AND DEPLOYMENT DRILL LOG**

Item:	Date of Last Update:
ACTIVITY	INFORMATION
Last inspection or response equipment test date	
Inspection frequency	
Last deployment drill date	
Deployment frequency	
OSRO Certification (if applicable)	

Item:	Date of Last Update:
ACTIVITY	INFORMATION
Last inspection or response equipment test date	
Inspection frequency	
Last deployment drill date	
Deployment frequency	
OSRO Certification (if applicable)	

Item:	Date of Last Update:
ACTIVITY	INFORMATION
Last inspection or response equipment test date	
Inspection frequency	
Last deployment drill date	
Deployment frequency	
OSRO Certification (if applicable)	

Item:	Date of Last Update:
ACTIVITY	INFORMATION

Last inspection or response equipment test date	
Inspection frequency	
Last deployment drill date	
Deployment frequency	
OSRO Certification (if applicable)	



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FIGURE A.1-5 - QUALIFIED NOTIFICATION DRILL LOG

NOTIFICATION EXERCISE		
1. Date Performed:	2. Exercise or actual response?	3. Vessel/Facility/Pipeline/Offshore Facility Initiating exercise:
4. Name of person notified:		
Is this person identified in your response plan as qualified individual or designee?		
5. Time Initiated:		
Time in which qualified individual or designee responded:		
6. Method used of contact:		
<input type="checkbox"/> Phone <input type="checkbox"/> Pager <input type="checkbox"/> Radio <input type="checkbox"/> Other _____		
7. Description of notification procedures:		
8. Identify which of the 15 core components of your response plan were exercised during this particular exercise:		
Organizational Design	Operational Response	Response Support
<input type="checkbox"/> Notifications <input type="checkbox"/> Staff mobilization <input type="checkbox"/> Ability to operate within the response management system described in the plan	<input type="checkbox"/> Discharge control <input type="checkbox"/> Assessment of discharge <input type="checkbox"/> Containment of discharge <input type="checkbox"/> Recovery of spilled material <input type="checkbox"/> Protection of economically and environmentally sensitive areas <input type="checkbox"/> Disposal of recovered product	<input type="checkbox"/> Communications <input type="checkbox"/> Transportation <input type="checkbox"/> Personnel Support <input type="checkbox"/> Equipment Maintenance and support <input type="checkbox"/> Procurement <input type="checkbox"/> Documentation
Certifying Signature		Date


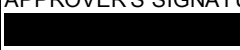
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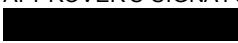
FIGURE A.1-6 - SPILL MANAGEMENT TEAM TABLETOP EXERCISE LOG

Company:	Date:
ACTIVITY	INFORMATION
Emergency Scenario	
Evaluation	
Changes to be Implemented	
Time Table for Implementation	

Company:	Date:
ACTIVITY	INFORMATION
Emergency Scenario	
Evaluation	
Changes to be Implemented	
Time Table for Implementation	

Company:	Date:
ACTIVITY	INFORMATION
Emergency Scenario	
Evaluation	
Changes to be Implemented	
Time Table for Implementation	

Company:	Date:
ACTIVITY	INFORMATION
Emergency Scenario	
Evaluation	
Changes to be Implemented	
Time Table for Implementation	

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A.2 TRAINING PROGRAM

FIGURE A.2-1 provides training requirements for spill responders. **FIGURE A.2-2** provides the program matrix. **FIGURE A.2-3** provides an example personnel response training log.

FIGURE A.2-1 - TRAINING REQUIREMENTS

TRAINING TYPE	TRAINING CHARACTERISTICS
Training in use of spill response plan	<ul style="list-style-type: none"> • All field personnel will be trained to properly report/monitor spills. • Plan will be reviewed annually with all employees and contract personnel. • The Personnel Response Training Log is located in FIGURE A.2-3.
OSHA training requirements	<ul style="list-style-type: none"> • All Company responders designated in Plan must have 24 hours of initial spill response training. • Laborers having potential for minimal exposure must have 24 hours of initial oil spill response instruction and eight hours of actual field experience. • Spill responders having potential exposure to hazardous substances at levels exceeding permissible exposure limits must have 40 hours of initial training offsite and 24 hours of actual field experience. • On-site management/supervisors required to receive same training as equipment operators/general laborers plus eight hours of specialized hazardous waste management training. • Managers/employees require eight hours of annual refresher training.
Spill management team personnel training	<ul style="list-style-type: none"> • See recommended PREP Training Matrix (FIGURE A.2-2).
Training for casual laborers or volunteers	<ul style="list-style-type: none"> • Company will not use casual laborers/volunteers for operations requiring HAZWOPER training.
Wildlife	<ul style="list-style-type: none"> • Only trained personnel approved by USFWS and appropriate state agency will be used to treat oiled

	wildlife.
Training documentation and record maintenance	<ul style="list-style-type: none">• Training activity records will be retained for five years for all personnel following completion of training.• Company will retain training records indefinitely for individuals assigned specific duties in the Plan.• Available to USCG for inspection upon request.


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FIGURE A.2-2 - PREP TRAINING PROGRAM MATRIX

TRAINING ELEMENT	QUALIFIED INDIVIDUAL (QI)	SPILL MANAGEMENT TEAM (SMT)	FACILITY PERSONNEL
Captain of the Port (COTP) Zones or Environmental Protection Agency (EPA) Regions in which the facility is located	X	X	X
Notification procedures and requirements for facility owners or operators, internal response organizations, federal and state agencies, and contracted oil spill removal organizations (OSROs) and the information required for those organizations	X	X	X
Communication system used for the notifications	X	X	X
Information on the products stored, used, or transferred by the facility, including familiarity with the material safety data sheets (MSDS), special handling procedures, health and safety hazards, spill and fire fighting procedures	X	X	X
Procedures the facility personnel may use to mitigate or prevent any discharge or a substantial threat of a discharge of oil resulting from facility operational activities associated with internal or external cargo transfers, storage, or use	X		
Facility personnel responsibilities and procedures for use of facility equipment which may be available to mitigate or prevent an oil discharge	X	X	X
Operational capabilities of the contracted OSROs to respond small,	X	X	X

medium, and large discharges			
Responsibilities and authority of the Qualified Individual (QI) as described in the Spill Response Plan and Company response organization	x	x	x
<p>The organization structure that will be used to manage the response actions including:</p> <ul style="list-style-type: none"> • Command and control • Public information • Safety • Liaison with government agencies • Spill response operations • Planning • Logistics support • Finance 	x	x	x
The responsibilities and duties of each Spill Management Team (SMT) within the organization structure	x	x	
The drill and exercise program to meet federal and state regulations as required under Oil Pollution Act of 1990 (OPA 90)	x	x	x
The role of the QI in the post discharge review of the Plan to evaluate and validate its effectiveness	x		
The Area Contingency Plan (ACP) for the area in which the facility is located	x	x	x

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FIGURE A.2-2 - PREP TRAINING PROGRAM MATRIX, CONTINUED

TRAINING ELEMENT	QUALIFIED INDIVIDUAL (QI)	SPILL MANAGEMENT TEAM (SMT)	FACILITY PERSONNEL
The National Contingency Plan (NCP)	X	X	X
Roles and responsibilities of federal and state agencies in pollution response	X	X	X
Available response resources identified in the Plan	X	X	
Contracting and ordering procedures to acquire OSRO resources identified in the Plan	X	X	
OSHA requirements for worker health and safety (29 CFR 1910.120)	X	X	X
Incident Command System/Unified Command System	X	X	
Public affairs	X	X	
Crisis management	X	X	
Procedures for obtaining approval for dispersant use or in-situ burning of the spill	X		
Oil spill trajectory analyses	X		
Sensitive biological areas	X	X	
This training procedure as described in the Plan for members of the SMT		X	
Procedures for the post discharge review of the plan to evaluate and validate its effectiveness		X	
Basic information on spill operations and oil spill cleanup technology including: <ul style="list-style-type: none"> Oil containment Oil recovery methods and devices 		X	

<ul style="list-style-type: none"> • Equipment limitations and uses • Shoreline cleanup and protection • Spill trajectory analysis • Use of dispersants, in-situ burning, bioremediation • Waste storage and disposal considerations 			
Hazard recognition and evaluation		x	
Site safety and security procedures		x	
Personnel management, as applicable to designated job responsibilities		x	
Procedures for directing the deployment and use of spill response equipment, as applicable to designated job responsibilities		x	x
Specific procedures to shut down effected operations			x

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FIGURE A.2-2 - PREP TRAINING PROGRAM MATRIX, CONTINUED

TRAINING ELEMENT	QUALIFIED INDIVIDUAL (QI)	SPILL MANAGEMENT TEAM (SMT)	FACILITY PERSONNEL
<p>Procedures to follow in the event of discharge, potential discharge, or emergency involving the following equipment or scenarios:</p> <ul style="list-style-type: none"> • Tank overfill • Tank rupture • Piping or pipeline rupture • Piping or pipeline leak, both under pressure or not under pressure, if applicable • Explosion or fire • Equipment failure • Failure of secondary containment system 			X
QI's name and how to contact him or her			X

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FIGURE A.2-3 - PERSONNEL RESPONSE TRAINING LOG

Training records are maintained at the terminal office.

NAME	RESPONSE TRAINING/DATE AND NUMBER OF HOURS	PREVENTION TRAINING/DATE AND NUMBER OF HOURS
------	--	--

*Qualified Individual

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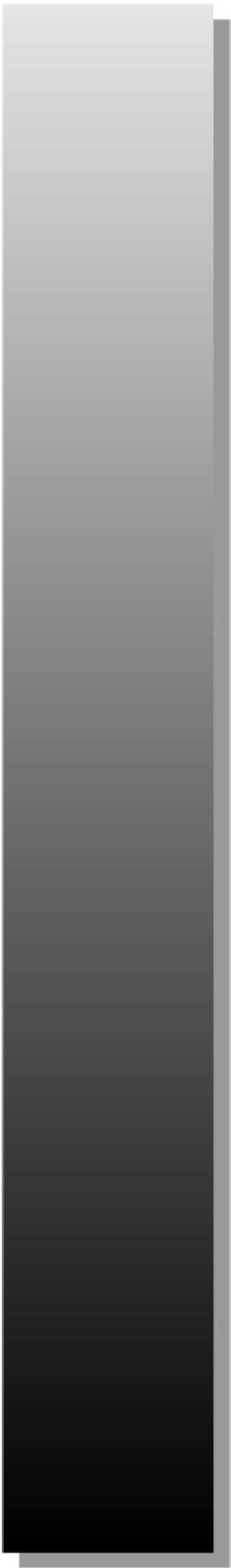
APPENDIX B

Last Revised: November 16, 2011

CONTRACTOR RESPONSE EQUIPMENT

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B.1 Cooperatives and ContractorsB.1.1 OSRO ClassificationFigure B.1-1 - Evidence of Contracts and Equipment Lists



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B.1 COOPERATIVES AND CONTRACTORS

The Company has contracted with additional Oil Spill Removal Organizations (OSROs) to provide personnel and equipment in the event of a spill. The classification, response capabilities, and equipment are described below.

B.1.1 OSRO Classification

The OSRO classification process was developed by the U.S. Coast Guard (USCG) to provide guidelines to enable USCG and plan preparers to evaluate an OSRO's potential to respond to oil spills. Plan holders that utilize USCG classified OSRO services are not required to list response resources in their plans.

The following is a listing of the USCG classified OSROs that may respond to incidents for areas listed in this Plan. For a detailed listing of USCG classified OSROs and other contractors by terminal, refer to **FIGURE 3.1-4** and **FIGURE 7.1-1**.

COMPANY / CONTRACTOR / TERM	APPLICABLE COTP ZONE (S)	USCG CLASSIFICATIONS									RESPONSE TIME
Clean Harbors Environmental Services 2202 Genoa Red Bluff Road Houston TX 77034 Term of contract: To	N/A		Facilities				Vessels				0 hours
			MM	W1	W2	W3	MM	W1	W2	W3	
		River/Canal	✓	✓	✓	✓	✓	✓	✓	✓	
		Inland	✓		✓	✓	✓		✓	✓	
		Open Ocean									
		Offshore									
		Nearshore									
		Great Lakes									
Garner Environmental 1717 W. 13th Street Deer Park TX 77536 Term of contract: To	Houston- Galveston		Facilities				Vessels				1 hours
			MM	W1	W2	W3	MM	W1	W2	W3	
		River/Canal	✓	✓	✓	✓	✓	✓	✓	✓	
		Inland	✓	✓	✓	✓	✓	✓	✓	✓	
		Open Ocean			✓	✓			✓	✓	
		Offshore			✓	✓			✓	✓	
		Nearshore			✓	✓			✓	✓	
		Great Lakes									

U.S. Environmental Services (USES) 950 Seaco Avenue Deer Park TX 77536 Term of contract: To	Houston - DISTRICT 8	<table><tr><td></td><td colspan="4">Facilities</td><td colspan="4">Vessels</td></tr><tr><td></td><td>MM</td><td>W1</td><td>W2</td><td>W3</td><td>MM</td><td>W1</td><td>W2</td><td>W3</td></tr><tr><td>River/Canal</td><td></td><td></td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>Inland</td><td></td><td></td><td>✓</td><td></td><td>✓</td><td></td><td>✓</td><td></td></tr><tr><td>Open Ocean</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Offshore</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Nearshore</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Great Lakes</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		Facilities				Vessels					MM	W1	W2	W3	MM	W1	W2	W3	River/Canal			✓	✓	✓	✓	✓	✓	Inland			✓		✓		✓		Open Ocean									Offshore									Nearshore									Great Lakes									1 hours
	Facilities				Vessels																																																																						
	MM	W1	W2	W3	MM	W1	W2	W3																																																																			
River/Canal			✓	✓	✓	✓	✓	✓																																																																			
Inland			✓		✓		✓																																																																				
Open Ocean																																																																											
Offshore																																																																											
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Great Lakes																																																																											
OMIES 450 Preston Rd. Pasadena TX 77503 Term of contract: To	Houston - DISTRICT 8	<table><tr><td></td><td colspan="4">Facilities</td><td colspan="4">Vessels</td></tr><tr><td></td><td>MM</td><td>W1</td><td>W2</td><td>W3</td><td>MM</td><td>W1</td><td>W2</td><td>W3</td></tr><tr><td>River/Canal</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>Inland</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>Open Ocean</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Offshore</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Nearshore</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Great Lakes</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		Facilities				Vessels					MM	W1	W2	W3	MM	W1	W2	W3	River/Canal	✓	✓	✓	✓	✓	✓	✓	✓	Inland	✓	✓	✓	✓	✓	✓	✓	✓	Open Ocean									Offshore									Nearshore									Great Lakes									1 hours
	Facilities				Vessels																																																																						
	MM	W1	W2	W3	MM	W1	W2	W3																																																																			
River/Canal	✓	✓	✓	✓	✓	✓	✓	✓																																																																			
Inland	✓	✓	✓	✓	✓	✓	✓	✓																																																																			
Open Ocean																																																																											
Offshore																																																																											
Nearshore																																																																											
Great Lakes																																																																											

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The following contractors are retained by the Company, but are not USCG classified OSROs within this Area:

FIGURE 7.1-1 provides both OSRO and non-OSRO summarized equipment lists and response times.

FIGURE B.1-1 provides evidence of contracts with OSROs and equipment lists for contractors without USCG classification.




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FIGURE B.1-1 - EVIDENCE OF CONTRACTS AND EQUIPMENT LISTS

- **Clean Harbors Environmental Services, Houston,TX**
- **Garner Environmental, Deer Park,TX**
- **U.S. Environmental Services (USES), Deer Park,TX**
- **OMIES , Pasadena,TX**

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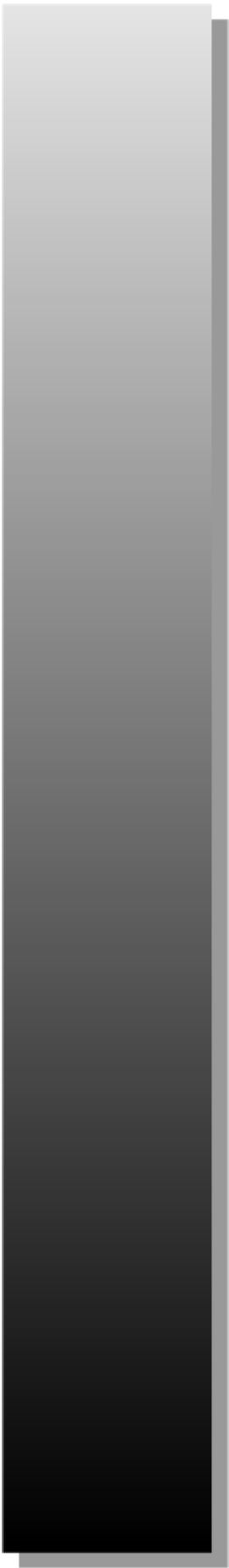
APPENDIX C


Last revised: June 4, 2013

HAZARD EVALUATION AND RISK ANALYSIS

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C.1 Spill DetectionC.2 Worst Case Discharge ScenarioC.3 Planning Volume CalculationsC.4 Spill Volume CalculationsC.5 Pipeline - Abnormal ConditionsC.6 Product Characteristics and HazardsFigure C.6-1- Summary of Commodity Characteristics



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C.1 SPILL DETECTION

Detection

Detection of a discharge from the Company system may occur in a number of ways including:

- Automated detection by the Supervisory Control and Data Acquisition (SCADA) system.
- Visual detection by Company personnel.
- Visual detection by the public.

AVAILABILITY - ALL TANKS

(b) (7)(F)



(b) (7)(F)



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(b) (7)(F)

[Redacted]

- (b) (7)(F)

[Redacted]

AVAILABILITY - ALL LINES


- (b) (7)(F)

[Redacted]

AVAILABILITY - ALL LINES

- **Training**

All operators are compliant with DOT 195 Operator Qualification Requirements.

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C.1 SPILL DETECTION, CONTINUED

Visual detection by Company personnel

Aerial patrol flights will be made 26 times a year not to exceed 21 days apart. If unable to fly area personnel will walk or drive the right-of-way. The intent of the patrol is to observe the area directly over the pipeline right-of-way for leaks, exposed pipes, washes, missing markers and other unusual conditions. Construction on either side of the pipeline right-of-way is also monitored.

Discharges to the land or surface waters may also be detected by Company personnel during regular operations and inspections. Should a leak be detected, the appropriate actions are taken including but not limited to:

- Notifications as per **SECTION 3**.
- A preliminary assessment of the incident area.
- If appropriate, initiate initial response actions per **SECTION 2**.

FIGURE 2-1 provides a checklist for initial response actions.

Visual detection by the public

Right-of-way marker signs are installed and maintained at road crossing and other noticeable points and provide an Operations Control 24-hour number for reporting emergency situations. The Company also participates in the "call before you dig" or "One Call" utility notification services which can be contacted to report a leak and determine the owner/operator of the pipeline. If the notification is made to a local office or pump station, the Company representative receiving the call generally will implement the following actions:


- Notify the Pipeline Control and region/designated office.
- Dispatch Company field personnel to the site to confirm discharge and conduct preliminary assessment.
- Notify their immediate area supervisor and provide assessment results.

Pipeline shutdown

If any of these situations are outside the expected values, abnormal conditions are considered to exist. If abnormal conditions exist, Pipeline Control will take the appropriate actions to ensure that a release does not occur. If a discharge has occurred, Pipeline Control will take actions to limit the magnitude. In either case, appropriate actions taken

by Company personnel could include, but are not limited to:

- Shut down effected line segment if there is an indication of a leak.
- Isolate line segment.
- Depressurize line.
- Start internal and external notifications.
- Mobilize additional personnel as required.

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C.2 WORST CASE DISCHARGE (WCD) SCENARIO

The equipment and personnel to respond to a spill are available from several sources and are provided with the equipment and contractors in **SECTION 7** and **APPENDIX B**. The following sections are discussions of these scenarios.

APPENDIX C.4 provides worst case discharge calculations. Discussion of this scenario is as follows:

Upon discovery of a spill, the following procedures would be followed:



1. The First Responder would notify Supervisory Personnel and notifications would be initiated in accordance with **FIGURE 2-1**.
2. The Area Supervisor/Manager of Operations would assume the role of Incident Commander until relieved and would initiate response actions and notifications in accordance with **SECTION 2**. If this were a small spill, the local/company personnel may handle all aspects of the response. Among those actions would be to:
 - Conduct safety assessment in accordance with **FIGURE 2-1** and evacuate personnel as needed in accordance with **SECTION 2**.
 - Direct facility responders to shut down ignition sources.
 - Direct facility personnel to position resources in accordance with **SECTION 6**.
 - Complete spill report form in accordance with **FIGURE 3.1-2**.
 - Ensure regulatory agencies are notified (**FIGURE 3.1-5**).
3. If this were a small or medium spill, the Qualified Individual/Incident Commander may elect for the First Responder to remain the Incident Commander or to activate selected portions of the Spill Management Team. However, for a large spill, the Qualified Individual would assume the role of Incident Commander and would activate the entire Spill Management Team in accordance with activation procedures described in **SECTION 4.2**.
4. The Incident Commander would then initiate spill assessment procedures including surveillance operations, trajectory calculations, and spill volume estimating in accordance with **SECTION 2.1.3**.
5. The Incident Commander would then utilize checklists in **SECTION 4.6** as a reminder of ICS position responsibilities. The primary focus would be to establish

incident priorities and objectives and to brief staff accordingly.

6. The Spill Management Team would develop the following plans, as appropriate (some of these plans may not be required during a small or medium spill):



- Site Safety and Health (**SECTION 5.4**)
- Site Security (**SECTION 5.7**)
- Incident Action (**SECTION 5.3.2**)
- Decontamination (**SECTION 5.5**)
- Disposal (**SECTION 5.6**)
- Demobilization (**SECTION 5.8**)

7. The response would continue until an appropriate level of cleanup is obtained.

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C.3 PLANNING VOLUME CALCULATIONS

Once the worst case discharge volume has been calculated, response resources must be identified to meet the requirements of 49 CFR 194.105(b). Calculations to determine sufficient amount of response equipment necessary to respond to a worst case discharge is described below. A demonstration of the planning volume calculations is provided below.

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C.4 SPILL VOLUME CALCULATIONS

DOT/PHMSA portion of pipeline/facilities

The worst case discharge (WCD) for the DOT portion of the pipeline and facilities, as defined in 49 CFR 194.105(b), as the largest volume of the following:

1. The pipeline's maximum shut-down response time in hours (based on historic discharge data or in the absence of such data, the operators best estimate), multiplied by the maximum flow rate expressed in barrels per hour (based on the maximum daily capacity of the pipeline), plus the largest drainage volume after shutdown of the line section(s) in the response zone expressed in barrels; or
2. The largest foreseeable discharge for the line section(s) within a response zone, expressed in barrels (cubic meters), based on the maximum historic discharge, if one exists, adjusted for any subsequent corrective or preventative action taken; or
3. If the response zone contains one or more breakout tanks, the capacity of the single largest tank or battery of tanks within a single secondary containment system, adjusted for the capacity or size of the secondary containment system, expressed in barrels.


Under PHMSA's current policy, operators are allowed to reduce the worst case discharge volume derived from 49 CFR 194.105(b)(3) by no more than 75% if an operator is taking certain spill prevention measures for their breakout tanks and presents supporting information in the response plan. An operator can reduce the worst case discharge volume based on breakout tanks in the response zones as follows:

SPILL PREVENTION MEASURES	PERCENT REDUCTION ALLOWED
Secondary containment capacity greater than 100% capacity of tank and designed according to NFPA 30	50%
Tank built, rebuilt, and repaired according to API Std 620/650/653	10%
Automatic high-level alarms/shutdowns designed according to NFPA/API RP 2350	5%
Testing/cathodic protection designed according to API Std 650/651/653	5%
Tertiary containment/drainage/treatment per NFPA 30	5%*
Maximum allowable credit or reduction	75%

* Note: The facilities do not have tertiary containment.

The worst case discharge for the response zone was based on the largest volume of the three criteria given above.

The Company has determined the worst case discharge volume to be a catastrophic line failure of the largest line section with the greatest drainage capacity in the response zone or 30 percent of the volume of the largest tank in each zone.

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The line sections with the highest throughput and largest drainage volume between block valves on pump stations were chosen to calculate the pipeline worst case discharge. Although the entire discharge volume of each line was used for the worst case discharge, in an actual spill event, it would take days to drain the line completely. The line would be sealed early in the response effort.

All of the breakout tanks in the pipeline system are within adequate secondary containment, therefore, the discharge volumes for the largest tank was determined by adjusting the total tank volume downward by 50% per the company guidelines.

Considering the volume of release from a line break compared to that of historic discharge in the zone and to the volumes released from a tank failure, the tank failure was found to represent the worst case scenario.

The maximum historic discharge is not applicable for WCD covered by this plan. Given below are the tank and pipeline WCD calculations for this plan.

(b) (7)(F)



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The worst case tank volume is calculated as follows:

Largest tank x Credit for containment tank standards = Tank standards credit

The Company has implemented all of the spill prevention measures, listed on the previous page, except tertiary containment. Therefore, the percent reduction allowed for credit equals 50% and the worst case discharge volume is 50% of the total volume.

(b) (7)(F)

(b) (7)(F)

$$WCD = [(DT + ST) \times MF] + DD$$

Where:

WCD = worst case discharge (bbl)


DT + ST = maximum detection time + maximum shut down time in adverse weather (generally five minutes except where noted)

MF = maximum flow rate (bph) (b) (7)(F)

DD = drain down volume (bbl) (internal diameter)

(b) (7)(F)

As detailed above, the discharges for tanks are larger than discharges for the pipeline; therefore, the DOT/PHMSA WCD volume for this plan is: (b) (7)(F)

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C.5 PIPELINE - ABNORMAL CONDITIONS

Because PHMSA considers the "substantial threat" term in 49 CFR Part 194.115(a) equivalent to the "abnormal conditions" term under 49 CFR Part 195.402(d), procedures to identify events and conditions that can pose a threat of worst case discharge, and actions to take for preventing and mitigating such events and conditions are described in the System Integrity Plan.

C.6 PRODUCT CHARACTERISTICS AND HAZARDS

Pipeline systems described in this plan may transport various types of commodities including but not limited to:

- Crude Oil

The key chemical and physical characteristics of each of these oils and/or other small quantity products/chemicals are identified in MSDS. MSDS can be obtained by the facility via the company intranet.

FIGURE C.6-1 describes primary oils handled.



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FIGURE C.6-1 - SUMMARY OF COMMODITY CHARACTERISTICS

COMMON NAME	MSDS NAME	HEALTH HAZARD	FLASH POINT	SPECIAL HAZARD	REACTIVITY	HEALTH HAZARD WARNING STATEMENT
Crude Oil	Appropriate Product Name	1	3	C, H ₂ S	0	Flammable liquid and vapor. May release highly toxic and flammable hydrogen sulfide (H ₂ S) gas. Cancer hazard. May cause respiratory and eye irritation. Harmful/fatal if swallowed; can cause lung damage.
Health Hazard	4 = Extremely Hazardous 3 = Hazardous 2 = Warning 1 = Slightly Hazardous 0 = No Unusual Hazard			Fire Hazard (Flash Point)	4 = Below 73° F, 22° C 3 = Below 100° F, 37° C 2 = Below 200° F, 93° C 1 = Above 200° F, 93° C 0 = Will not burn	
Special Hazard	A = Asphyxiant C = Contains Carcinogen W = Reacts with Water Y = Radiation Hazard COR = Corrosive OX = Oxidizer H₂S = Hydrogen Sulfide P = Contents under Pressure T = Hot Material			Reactivity Hazard	4 = May Detonate at Room Temperature 3 = May Detonate with Heat or Shock 2 = Violent Chemical Change with High Temperature and Pressure 1 = Not Stable if Heated 0 = Stable	

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APPENDIX D

Last revised: February 2009

CROSS-REFERENCES

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Figure D-1 - DOT / PHMSA Cross-ReferenceFigure D-2 - PHMSA Facility Response Plan Review
Cross-Reference




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FIGURE D-1 - DOT / PHMSA CROSS-REFERENCE

OPA 90 REQUIREMENTS (49 CFR 194)	LOCATION
Information Summary	
<ul style="list-style-type: none"> For the core plan: 	
<ul style="list-style-type: none"> Name and address of operator 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> For each Response Zone which contains one or more line sections that meet the criteria for determining significant and substantial harm (?194.103), listing and description of Response Zones, including county(s) and state(s) 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> For each Response Zone appendix: 	
<ul style="list-style-type: none"> Information summary for core plan 	<u>Section 1</u>
<ul style="list-style-type: none"> QI names and telephone numbers, available on 24-hr basis 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> Description of Response Zone, including county(s) and state(s) in which a worst case discharge could cause substantial harm to the environment 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> List of line sections contained in Response Zone, identified by milepost or survey station or other operator designation 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> Basis for operator's determination of significant and substantial harm 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> The type of oil and volume of the worst case discharge 	<u>Figure 1-2, Appendix C.4</u>
<ul style="list-style-type: none"> Certification that the operator has obtained, through contract or other approved means, the necessary private personnel and equipment to respond, to the maximum extent practicable, to a worst case discharge or threat of such discharge 	<u>Section 1.3, Appendix B</u>

Notification Procedures	
<ul style="list-style-type: none"> Notification requirements that apply in each area of operation of pipelines covered by the plan, including applicable state or local requirements 	<u>Figure 3.1-5</u>
<ul style="list-style-type: none"> Checklist of notifications the operator or Qualified Individual is required to make under the response plan, listed in the order of priority 	<u>Figure 3.1-5</u>
<ul style="list-style-type: none"> Name of persons (individuals or organizations) to be notified of discharge, indicating whether notification is to be performed by operating personnel or other personnel 	<u>Figure 3.1-1,</u> <u>Figure 3.1-4,</u> <u>Figure 3.1-5</u>
<ul style="list-style-type: none"> Procedures for notifying Qualified Individuals 	<u>Figure 3.1-1,</u> <u>Section 4.5, Figure</u> <u>4.5-1</u>
<ul style="list-style-type: none"> Primary and secondary communication methods by which notifications can be made 	<u>Section 7.1.6</u>


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FIGURE D-1 - DOT / PHMSA CROSS-REFERENCE, CONTINUED

OPA 90 REQUIREMENTS (49 CFR 194)	LOCATION
Notification Procedures, Continued	
<ul style="list-style-type: none"> Information to be provided in the initial and each follow-up notification, including the following: <ul style="list-style-type: none"> Name of pipeline Time of discharge Location of discharge Name of oil recovered Reason for discharge (e.g. material failure, excavation damage, corrosion) Estimated volume of oil discharged Weather conditions on scene Actions taken or planned by persons on scene 	<u>Figure 3.1-3</u>
Spill Detection and On-Scene Spill Mitigation Procedures	
<ul style="list-style-type: none"> Methods of initial discharge detection 	<u>Appendix C.1</u>
<ul style="list-style-type: none"> Procedures, listed in order of priority, that personnel are required to follow in responding to a pipeline emergency to mitigate or prevent any discharge from the pipeline 	<u>Section 2</u>
<ul style="list-style-type: none"> List of equipment that may be needed in response activities based on land and navigable waters including: <ul style="list-style-type: none"> Transfer hoses and pumps Portable pumps and ancillary equipment Facilities available to transport and receive oil from a leaking pipeline 	<u>Section 7.1.1,</u> <u>Figure 7.1-1,</u> <u>Appendix B</u>
<ul style="list-style-type: none"> Identification of the availability, location, and contact phone numbers to obtain equipment for response activities on a 24-hour basis 	<u>Figure 3.1-4,</u> <u>Appendix B</u>
<ul style="list-style-type: none"> Identification of personnel and their location, telephone numbers, and responsibilities for use of equipment in response activities on a 24-hour basis 	<u>Figure 3.1-4,</u> <u>Appendix B</u>

Response Activities	
<ul style="list-style-type: none"> Responsibilities of, and actions to be taken by, operating personnel to initiate and supervise response actions pending the arrival of the Qualified Individual or other response resources identified in the response plan 	<u>Section 2, Section 4.6, Appendix B</u>
<ul style="list-style-type: none"> Qualified Individual's responsibilities and authority, including notification of the response resources identified in the response plan 	<u>Section 4.5</u>
<ul style="list-style-type: none"> Procedures for coordinating the actions of the operator or Qualified Individual with the action of the OSC responsible for monitoring or directing those actions 	<u>Section 4.4, Figure 4.5-2</u>
<ul style="list-style-type: none"> Oil spill response organizations (OSRO) available through contract or other approved means, to respond to a worst case discharge to the maximum extent practicable 	<u>Appendix B</u>

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FIGURE D-1 - DOT / PHMSA CROSS-REFERENCE, CONTINUED

OPA 90 REQUIREMENTS (49 CFR 194)	LOCATION
Response Activities, Continued	
<ul style="list-style-type: none"> For each organization identified under paragraph (d), a listing of: <ul style="list-style-type: none"> Equipment and supplies available Trained personnel necessary to continue operation of the equipment and staff the oil spill removal organization for the first seven days of the response 	<u>Appendix B</u>
List of Contacts	
<ul style="list-style-type: none"> List of persons the Plan requires the operator to contact 	<u>Figure 3.1-1</u>
<ul style="list-style-type: none"> Qualified individuals for the operator's areas of operation 	<u>Figure 1-2, Figure 3.1-4</u>
<ul style="list-style-type: none"> Applicable insurance representatives or surveyors for the operator's areas of operation 	<u>Figure 3.1-1</u>
<ul style="list-style-type: none"> Persons or organizations to notify for activation of response resources 	<u>Figure 3.1-1</u>
Training Procedures	
<ul style="list-style-type: none"> Description of training procedures and programs of the operations 	<u>Appendix A.2</u>
Drill Procedures	
<ul style="list-style-type: none"> Announced and unannounced drills 	<u>Figure A.1-2</u>
<ul style="list-style-type: none"> Types of drills and their frequencies; for example: <ul style="list-style-type: none"> Manned pipeline emergency procedures and qualified individual notification drills conducted quarterly Drills involving emergency actions by assigned operating or maintenance personnel and notification of qualified individual on pipeline facilities which are normally unmanned, conducted quarterly Shore-based spill management team (SMT) tabletop 	<u>Figure A.1-2</u>

drills conducted yearly <ul style="list-style-type: none"> • Oil spill removal organization field equipment deployment drills conducted yearly • A drill that exercises entire response plan for each Response Zone, would be conducted at least once every three years 	
Response Plan review and update procedures	
<ul style="list-style-type: none"> • Procedures to meet ?194.121 	<u>Section 1.2</u>
<ul style="list-style-type: none"> • Procedures to review plan after a worst case discharge and to evaluate and record the plan?s effectiveness 	<u>Section 1.2, Section 8.3</u>
Response zone appendices	
Each response zone appendix would provide the following information:	
<ul style="list-style-type: none"> • Name and telephone number of the qualified individual 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> • Notification procedures 	<u>Figure 3.1-1</u>
<ul style="list-style-type: none"> • Spill detection and mitigation procedures 	<u>Section 2.1.1, Appendix C.1</u>


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FIGURE D-1 - DOT / PHMSA CROSS-REFERENCE, CONTINUED

OPA 90 REQUIREMENTS (49 CFR 194)	LOCATION
Response zone appendices, Continued	
<ul style="list-style-type: none"> Name, address, and telephone number of oil spill response organization 	<u>Figure 3.1-4, Appendix B</u>
<ul style="list-style-type: none"> Response activities and response resources including: <ul style="list-style-type: none"> Equipment and supplies necessary to meet §194.115 Trained personnel necessary to sustain operation of the equipment and to staff the oil spill response organization and spill management team for the first seven days of the response 	<u>Appendix A, Appendix B</u>
<ul style="list-style-type: none"> Names and telephone numbers of federal, state, and local agencies which the operator expects to assume pollution response responsibilities 	<u>Figure 3.1-5</u>
<ul style="list-style-type: none"> Worst case discharge volume 	<u>Appendix C.4</u>
<ul style="list-style-type: none"> Method used to determine the worst case discharge volume, with calculations 	<u>Appendix C.4</u>
<ul style="list-style-type: none"> A map that clearly shows: <ul style="list-style-type: none"> Location of worst case discharge Distance between each line section in the Response Zone: <ul style="list-style-type: none"> Each potentially affected public drinking water intake, lake, river, and stream within a radius of five miles of the line section Each potentially affected environmentally sensitive area within a radius of one mile of the line section 	<u>Figure 1-4, Section 6.9</u>
<ul style="list-style-type: none"> Piping diagram and plan-profile drawing of each line section; may be kept separate from the response plan if the location is identified 	<u>Figure 1-2</u>

- For every oil transported by each pipeline in the response zone, emergency response data that:
 - Include name, description, physical and chemical characteristics, health and safety hazards, and initial spill-handling and firefighting methods
 - Meet 29 CFR 1910.1200 or 49 CFR 172.602

Figure C.6-1

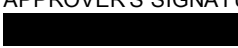
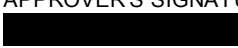
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FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE

Office of Pipeline Safety (OPS)	LOCATION
National Contingency Plan and Area Contingency Plan Certifications (49 CFR 194.107(b))	
1.A. Has the operator reviewed the National Contingency Plan (NCP) and each applicable Area Contingency Plan (ACP)?	<u>Section 1.1</u>
1.B. Does the Facility Response Plan follow the Area Contingency Plans?	<u>Section 1.1</u>
1.C. Please list the names of the Area Contingency Plans and the pages in the Facility Response Plan that relate to the Area Contingency Plans.	<u>Section 1.1</u> , Entire Plan
Plan Information Summary (49 CFR 194.107(c)(1), (c)(1)(i) and (c)(2) and 49 CFR 194.113)	
2. Does the Plan Information Summary contain the following?	
<ul style="list-style-type: none"> The Operator Name, Street Address, City, State, and Zip Code. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> A list of response zones that meet the criteria for significant and substantial harm (49 CFR 194.113(a)(2)) and a list of response zones in which a worst-case discharge could cause substantial harm. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> The basis for the operator's determination that the response zone meets the criteria for significant and substantial harm and a statement that a worse case discharge in the response zone can be expected to cause significant and substantial harm for each response zone. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> Description of each response zone, including the county(s) and State(s). 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> Explanation for each response zone designation. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> Name(s), title(s), and office and cellular telephone number(s) for the Qualified Individual(s) twenty-four hours a day in each response zone. 	<u>Figure 1-2</u> , <u>Figure 3.1-4</u>
<ul style="list-style-type: none"> Name(s), title(s), and office and cellular telephone number(s) 	<u>Figure 1-2</u> , <u>Figure</u>

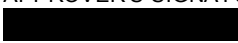
for the Alternate Qualified Individual(s) twenty-four hours a day in each response zone.	<u>3.1-4</u>
<ul style="list-style-type: none"> List of line sections in each response zone by milepost, survey station number, or other operator designation. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> If any response zone contains multiple pipeline systems, all pipeline systems are described and the oils they transport are listed. 	<u>Figure 1-2</u>
<ul style="list-style-type: none"> The type of oil and the volume of the worst-case discharge in each response zone. 	<u>Figure 1-2</u>
Notifications	
3.1. What person, position, or facility is responsible for starting immediate notification? (49 CFR 194.107(c)(1)(ii)) Please list the person's, position's, or facility's mailing and electronic mail addresses and office, fax, and cellular telephone information.	<u>Figure 1-2</u>
3.2. Is the person, position, or facility capable of starting immediate notification twenty-four hours a day, three hundred sixty-five days a year? (49 CFR 194.107(c)(1)(ii)) Please describe your immediate notification plan.	<u>Section 3</u>

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**FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED**

Office of Pipeline Safety (OPS)	LOCATION
Notifications, Continued	
3.3. Do the Facility Response Plan notification procedures include telephone numbers so that the qualified individual(s) and oil spill removal organization(s) can be reached twenty-four hours a day, three hundred sixty-five days a year? (49 CFR 194.107(b)(1) and (2), 194.107(c)(1)(ii) and 194.113(b)(2))	<u>Section 3</u>
<ul style="list-style-type: none"> • Qualified Individual(s)? 	<u>Figure 3.1-4</u>
<ul style="list-style-type: none"> • Oil Spill Removal Organization(s)? 	<u>Figure 3.1-4, Figure 3.1-5</u>
<ul style="list-style-type: none"> • Are the National Response Center numbers correctly listed as 1-800-424-8802 and 202-267-2675 in the plan? 	<u>Figure 3.1-5</u>
<ul style="list-style-type: none"> • Company personnel? 	<u>Figure 3.1-4</u>
3.4. Does the notification section include the following information? (49 CFR 194.107(b)(1) and (2), and 194.107(c)(1) (ii))	
<ul style="list-style-type: none"> • Name of pipeline operator? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Time of discharge? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Location of discharge? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Name of oil involved? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Reason for discharge? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Estimated volume of oil discharged? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
<ul style="list-style-type: none"> • Weather conditions on scene? 	<u>Figure 3.1-2, Figure 3.1-3, Figure 3.1-4</u>
3.5. Does the Facility Response Plan name and give the	

address(es) and telephone number(s) for the operator's oil spill removal organization(s)? (49 CFR 194.107(c)(1)(iv) and 194.115)	
<ul style="list-style-type: none"> Name(s)? 	<u>Appendix B.1.1</u>
<ul style="list-style-type: none"> Address(es)? 	<u>Appendix B.1.1</u>
<ul style="list-style-type: none"> Telephone Number(s)? 	<u>Figure 3.1-4, Figure 3.1-5</u>
Spill Detection and Mitigation Procedures	
4.1. Does the Facility Response Plan contain procedures to name and mitigate or prevent a substantial threat of a worst-case discharge? (49 CFR 194.107(a) and (b)(2)(i))	<u>Appendix C.2</u>

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**FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED**

Office of Pipeline Safety (OPS)	LOCATION
Spill Detection and Mitigation Procedures, Continued	
4.2. Does the Facility Response Plan name personnel, equipment, and procedures for detecting leaks and spills and locating spills throughout the response zone? (49 CFR 194.107(c)(1)(iii))	<u>Figure 3.1-4, Section 7.1.1, Figure 7.1-1, Appendix B</u>
4.3. Does the Facility Response Plan name the maximum time to detect the spill and shut down flow in affected pipeline(s) in bad weather? (49 CFR 194.105(b)(1))	<u>Appendix C.4</u>
4.4. Does the Facility Response Plan have procedures to mitigate spills appropriate for the response zone(s) and consistent with applicable Area Contingency Plan(s)? (49 CFR 194.107(b)(2)(i), and (c)(1)(iii) and (v))	<u>Section 2.1</u>
Spill Containment	
5.1. Does the Facility Response Plan name spill containment strategies appropriate for the response zone(s) and consistent with applicable Area Contingency Plans? (49 CFR 194.107(b)(1)(iii), (b)(2)(i), and (c)(1)(v))	<u>Section 7.4</u>
5.2. Can planned spill containment activities be accomplished within the appropriate tier times? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Appendix C.4</u>
5.3. Are containment equipment capacities described in sufficient detail and does the Facility Response Plan identify enough spill containment equipment to respond to a worst-case discharge to the maximum extent practicable? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Section 7.1.1, Figure 7.1-1, Appendix B</u>
Spill Recovery	
6.1. Does the Facility Response Plan identify the spill recovery strategies appropriate for the response zone(s) and consistent with applicable Area Contingency Plan(s)? (49 CFR 194.107(b)(1)(iii), (b)(2)(i) and (iv), and (c)(1)(v))	<u>Section 2.1, Appendix C.2</u>
6.2. Can planned spill recovery activities be accomplished within the appropriate tier times?(49 CFR 194.107(b)(2)(i) and(c)(1)(v), and 194.115)	<u>Appendix C</u>
6.3. Are recovery equipment capacities described in sufficient detail and does the Facility Response Plan identify sufficient spill	<u>Section 7.1.1, Figure 7.1-1, Appendix B</u>

recovery equipment to respond to a worst-case discharge to the maximum extent practicable? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	
Disposal	
7.1. Does the Facility Response Plan identify disposal procedures, including temporary storage equipment for recovered oil appropriate for the response zone and consistent with applicable Area Contingency Plans? (49 CFR 194.107(b)(1)(iii), (b)(2)(i), and (c)(1)(v))	<u>Section 7.4, Section 7.1.1, Figure 7.1-1, Appendix B</u>
7.2. Can planned temporary storage and waste disposal activities be accomplished within the appropriate tier times? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Section 7.4, Appendix C.4</u>
7.3. Does the Facility Response Plan identify sufficient temporary storage capabilities to respond to a worst-case discharge to the maximum extent practicable? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Section 7.4, Section 7.1.1, Figure 7.1-1, Appendix B</u>


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FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED

Office of Pipeline Safety (OPS)	LOCATION
Sensitive Area Protection	
8.1. Does the Facility Response Plan identify the protection strategies appropriate for the response zone and consistent with applicable Area Contingency Plans? (49 CFR 194.107(b)(1)(iii), (b)(2)(i) and (ii), and (c)(1)(v))	<u>Section 6</u>
8.2. Can planned protection activities be accomplished within the appropriate tier times?(49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Section 6, Appendix C.4</u>
Response Management	
9.1. Is the response management system described in the Facility Response Plan based on an Incident Command System? (49 CFR 194.107(b)(1)(i), (b)(2)(iii), and (c)(3))	<u>Section 4</u>
9.2. Does the operator's response organization describe roles and responsibilities for (49 CFR 194.107(b)(1)(i), (b)(2)(iii), and (c)(3))	
<ul style="list-style-type: none"> • Qualified Individual? 	<u>Section 4.5</u>
<ul style="list-style-type: none"> • Other operator response personnel including the spill management team? 	<u>Section 4.5, Section 4.6</u>
<ul style="list-style-type: none"> • Contracted Oil Spill Removal Organization(s)? 	<u>Section 7.1.3, Figure A.1-2</u>
9.3. Does the operator's response organization describe how the operator works with the Unified Command and with responders including (49 CFR 194.107(b)(1)(i), (b)(2)(iii), and (c)(3))	<u>Section 4.4</u>
<ul style="list-style-type: none"> • Oil Spill Removal Organization(s)? 	<u>Figure 4.5-2, Section 4.6</u>
<ul style="list-style-type: none"> • State and Local Responders? 	<u>Section 4.4</u>
<ul style="list-style-type: none"> • Federal On-Scene Coordinator? 	<u>Section 4.4</u>
Communications, Response Equipment and Transportation	
10.1. Does the Facility Response Plan describe appropriate communications procedures and system(s) adequate for	<u>Section 7.1.6</u>

notifications and response operations? (49 CFR 194.107(c)(1)(ii) and (v))	
10.2. Does the Facility Response Plan identify response equipment that the operator owns and maintains? (49 CFR 194.107(c)(1)(v) and 194.115(a))	<u>Section 7.1.1</u>
10.3. Does the Facility Response Plan describe procedures for maintaining response equipment the operator owns? (49 CFR 194.107(c)(1)(viii))	<u>Section 7.1.2</u>
10.4. Does the Facility Response Plan identify Oil Spill Removal Organization(s)' response equipment that the U.S. Coast Guard has not classified? (49 CFR 194.107(c)(1)(v) and 194.115(a))	<u>Section 7.1.3, Appendix B</u>
10.5. Does the Facility Response Plan describe procedures for maintaining Oil Spill Removal Organization(s)' response equipment that the U.S. Coast Guard has not classified? (49 CFR 194.107(c)(1)(viii))	<u>Section 7.1.3, Appendix A.1</u>
10.6. Does the Facility Response Plan identify location(s) for operator-owned and Oil Spill Removal Organization-owned response equipment? (49 CFR 194.115(b))	<u>Section 7.1.1, Figure 7.1-1, Appendix B</u>

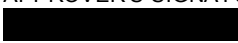
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FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED

Office of Pipeline Safety (OPS)	LOCATION
Communications, Response Equipment and Transportation, Continued	
10.7. Does the Facility Response Plan describe mobilizing and deploying response equipment within the appropriate tier times consistent with the plan's response activities? (49 CFR 194.107(c)(1)(v) and 194.115(b))	<u>Appendix C.2</u>
10.8. Does the size of the response zone permit planned response activities, including equipment mobilization and deployment, within the appropriate tier times? (49 CFR 194.115(b))	<u>Appendix C.4</u>
Response Personnel and Mobilization	
11.1. Does the Facility Response Plan identify enough trained personnel to respond to the worse case discharge consistent with the Plan's response activities? (49 CFR 194.107(a), (c)(1)(v), and (c)(3), 194.115, and 194.117)	<u>Figure 3.1-4</u>
11.2. Does the Facility Response Plan describe procedures for mobilizing and deploying response personnel throughout the response zone(s) consistent with the Plan's response activities? (49 CFR 194.107(b)(2)(i) and (c)(1)(v), and 194.115)	<u>Section 2, Section 3, Section 4.2</u>
Response Documentation and Worst Case Discharge	
12.1. Does the operator describe procedures the response management organization must use to document response decisions, activities, and costs? (49 CFR 194.107(c)(3))	<u>Section 3, Section 5, Appendix C.2</u>
12.2. Does the Facility Response Plan provide the calculations and methodology used for determining the worst-case discharge for the response zone(s)? (49 CFR 194.105)	<u>Appendix C.4</u>
12.3. Is the worst-case discharge volume calculated using the three specified methods in the Department of Transportation regulation? Are the calculations accurate and as prescribed?(49 CFR 194.105(b))	<u>Appendix C.4</u>
Training: Program and Procedures	
13.1. Does the Facility Response Plan describe a training program that teaches response personnel about the Plan and their responsibilities under the Plan? (49 CFR 194.107(b)(1)(ii), (c)(1)(vii) and (c)(3), and 194.117)	<u>Appendix A.2</u>

13.2. Does the Facility Response Plan describe a training program that teaches response personnel about matters including (49 CFR 194.117(a)(3))	<u>Appendix A.2</u>
<ul style="list-style-type: none"> Oil characteristics and hazards? 	<u>Appendix A.2</u>
<ul style="list-style-type: none"> Conditions that are likely to worsen emergencies, including the consequences of facility malfunctions or failures and appropriate corrective actions? 	<u>Appendix A.2</u>
<ul style="list-style-type: none"> Steps necessary to control an accidental discharge of oil? 	<u>Appendix A.2</u>
<ul style="list-style-type: none"> Steps necessary to minimize the potential for fire, explosion, or environmental damage? 	<u>Appendix A.2</u>
<ul style="list-style-type: none"> Proper fire-fighting procedures and use of personal protective equipment? 	<u>Appendix A.2</u>


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FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED

Office of Pipeline Safety (OPS)	LOCATION
Training: Program and Procedures, Continued	
13.3. Does the Facility Response Plan describe a response-training program that addresses the appropriate levels of training and the requirements in OSHA 29 CFR 1910.120? (49 CFR 194.107(b)(1)(ii) and 194.117(c))	<u>Appendix A.2</u>
13.4. Does the Facility Response Plan describe the operator's procedures for maintaining records for response personnel? (49 CFR 194.117(b))	<u>Appendix A.2</u>
Response Personnel and Mobilization	
14.1. Does the Facility Response Plan describe procedures for conducting internal and external drills that include (49 CFR 194.107(c)(1)(ix))	<u>Appendix A.1</u>
<ul style="list-style-type: none"> Responsibility for planning, carrying out, and monitoring drills? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> Announced drills? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> At least one unannounced internal drill? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> Quarterly Qualified Individual notifications drills? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> Annual spill management team tabletop drills? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> Annual Oil Spill Removal Organization(s) equipment deployment drills of representative types and amounts of key equipment in the Facility Response Plan? 	<u>Appendix A.1</u>
<ul style="list-style-type: none"> At least one drill that tests the entire response plan for each response zone at least once every three years? 	<u>Appendix A.1</u>
14.2. Does the Facility Response Plan describe a three-year drill and exercise cycle and the frequencies for each type of drill in that cycle? (49 CFR 194.107(c)(1)(ix))	<u>Appendix A.1</u>
14.3. Does the Facility Response Plan describe procedures for	<u>Appendix A.1</u>

maintaining drill documentation for three years? (49 CFR 194.107(c)(1)(ix))	
Response Plan Maintenance	
15.1. Does the Facility Response Plan describe the requirements and procedures for the operator to: (49 CFR 194.107(c)(1)(x) and 194.121(a))	
a. Review the Facility Response Plans at least once every five years from the date the Office of Pipeline Safety approves the plan,	<u>Section 1.2</u>
b. Modify the Facility Response Plan to address new or different operating conditions or information in the Facility Response Plan, and	<u>Section 1.2</u>
c. Submit the plan for the Office of Pipeline Safety to review, require changes, and approve?	<u>Section 1.2</u>
15.2. Does the Facility Response Plan identify key factors that may cause revisions to the response plan and require the operator to submit revisions to the Office of Pipeline Safety within 30 days of making the revisions for factors including: (49 CFR 194.121(b))	
• New pipeline construction or purchase?	<u>Section 1.2</u>
• Different worst-case discharge volume?	<u>Section 1.2</u>

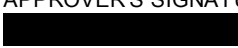

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FIGURE D-2 - PHMSA FACILITY RESPONSE PLAN REVIEW CROSS-REFERENCE,
CONTINUED

Office of Pipeline Safety (OPS)	LOCATION
Response Plan Maintenance, Continued	
<ul style="list-style-type: none"> Change in commodities transported? 	<u>Section 1.2</u>
<ul style="list-style-type: none"> Change in Oil Spill Removal Organization(s)? 	<u>Section 1.2</u>
<ul style="list-style-type: none"> Change in Qualified Individual(s)? 	<u>Section 1.2</u>
<ul style="list-style-type: none"> Change in a National Contingency Plan or Area Contingency Plan that has a significant impact on the appropriateness of response equipment or response strategies? 	<u>Section 1.2</u>
<ul style="list-style-type: none"> Change in response procedures? 	<u>Section 1.2</u>
15.3. Does the Facility Response Plan describe procedures for incorporating improvements in the following? (49 CFR 194.121(b)(8))	
<ul style="list-style-type: none"> Post-drill evaluation results? 	<u>Section 8.3</u>
<ul style="list-style-type: none"> Post-incident evaluation results? 	<u>Section 8.3</u>
National Contingency Plan and Area Contingency Plan Consistency and Concept of Operations	
16.1. Is the Plan consistent with the National Contingency Plan in effect at the time of submission? (49 CFR 194.107(b)(1)) Please answer yes or no.	<u>Section 1.1</u>
16.2. Is the Plan consistent with the Area Contingency Plans in effect for each response zone at the time of submission? (49 CFR 194.107(b)(2)) Please answer yes or no.	<u>Section 1.1</u>
16.3. Is the Plan's concept of operations adequate to carry out a response to the worse case discharge under 49 CFR 194? (49 CFR 194.107) Please answer yes or no.	<u>Section 7.1, Appendix B, Appendix C.2, Entire Plan</u>

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APPENDIX E


Last revised: February 2009

ACRONYMS AND DEFINITIONS

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E.1 AcronymsE.2 Definitions




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E.1 ACRONYMS



ACP	Area Contingency Plan
AFFF	Aqueous Film Forming Foam
ASTM	American Society of Testing Materials
BBL	Barrel(s)
BLM	Bureau of Land Management (USDOI)
BPD	Barrels Per Day
BPH	Barrels Per Hour
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980, as amended
CFR	Code of Federal Regulations
CO ₂	Carbon Dioxide
COTP	Captain of the Port (USCG)
CRZ	Contamination Reduction Zone
CWA	Clean Water Act of 1977 (Federal)
EAP	Emergency Action Plan
EMS	Emergency Medical Services
EOC	Emergency Operations Center
EPA	U. S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERAP	Emergency Response Action Plan
ERG	Emergency Response Guidebook
ERP	Emergency Response Plan
ERT	Emergency Response Team
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FOSC	Federal On-Scene Coordinator
FRP	Facility Response Plan
FRT	Facility Response Team
FWPCA	Federal Water Pollution Control Act of 1972

GIS	Geographic Information System
GPM	Gallons Per Minute
HAZMAT	Hazardous Materials
HMIS	Hazardous Material Information System
IAP	Incident Action Plan
IC	Incident Commander

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ICS	Incident Command System
JIC	Joint Information Center
LEL	Lower Explosive Limit
LEPC	Local Emergency Planning Committee
LEPD	Local Emergency Planning District
LNG	Liquid Natural Gas
LPG	Liquefied Petroleum Gas
MSDS	Material Safety Data Sheets
MTR	Marine Transportation Related
N/A	Not Applicable
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NIIMS	National Interagency Incident Management System
NM	Nautical Miles
NOAA	National Oceanic and Atmospheric Administration
NRC	National Response Center
NRDA	National Resource Damage Assessment
NRT	National Response Team
OBA	Oxygen Breathing Apparatus
OPA 90	Oil Pollution Act of 1990
OSC	On-Scene Coordinator/Commander
OSHA	Occupational Safety and Health Administration (USDH)
PHMSA	Pipeline and Hazardous Materials Safety Administration (DOT)
PPE	Personal Protective Equipment
PREP	(National) Preparedness for Response Exercise Program
QI	Qualified Individual
RCRA	Resource Conservation and Recovery Act of 1976
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act
SCADA	Supervisory Control and Data Acquisition (System)
SCBA	Self Contained Breathing Apparatus

SDWA	Safe Drinking Water Act of 1986
SERC	State Emergency Response Commission
SETS	Safety Environment and Training Services
SI	Surface Impoundment
SIC	Standard Industrial Classification (Code)
SMT	Spill Management Team

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SOSC	State On-Scene Coordinator
SPCC	Spill Prevention, Control, and Countermeasures (Plan)
SSC	Scientific Support Coordinator (NOAA)
UC	Unified Command
UCS	Unified Command System
UEL	Upper Explosive Limit
USACOE	U. S. Army Corps of Engineers
USCG	U. S. Coast Guard
USDOD	U. S. Department of Defense
USDL	U. S. Department of Labor
USDOE	U. S. Department of Energy
USDOI	U. S. Department of the Interior
USDOJ	U. S. Department of Justice
USDOT	U. S. Department of Transportation
USFWS	U. S. Fish and Wildlife Service (USDOI)
USGS	U. S. Geological Survey (USDOI)

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E.2 DEFINITIONS

Adverse Weather

The weather conditions that will be considered when identifying response systems and equipment in a response plan for the applicable operating environment. Factors to consider include significant wave height, ice, temperature, weather-related visibility, and currents with the Captain of the Port (COTP) zone in which the systems or equipment are intended to function.

Aqueous Film Forming Foam

A fluoro-carbon surfactant that acts as an effective vapor securing agent due to its effect on the surface tension of the water. Its physical properties enable it to float and spread across surfaces of a hydrocarbon fuel with more density than protein foam.

Average Most Probable Discharge (**USCG**)

A discharge of the lesser of 50 barrels (2100 gallons) or one percent of the volume of the worst case discharge.

Barrel

Measure of space occupied by 42 U. S. gallons at 60 degrees Fahrenheit.

Bleve

A boiling liquid-expanding vapor explosion; failure of a liquefied flammable gas container caused by fire exposure. Pronounced "blevey."

Boilover

Occurs when the heat from a fire in a tank travels down to the bottom of the tank causing water that is already there to boil and push part of the tank's contents over the side.

Carbon Dioxide

A heavy, colorless, odorless, asphyxiating gas, that does not normally support combustion. It is one and one-half times heavier than air and when directed at the base of a fire its action is to dilute the fuel vapors to a lean mixture to extinguish the fire.

Class A Fire

A fire involving common combustible materials which can be extinguished by the use of water or water solutions. Materials in this category include wood and wood-based materials, cloth, paper, rubber and certain plastics.

Class B Fire



A fire involving flammable or combustible liquids, flammable gases, greases and similar products. Extinguishment is accomplished by cutting off the supply of oxygen to the fire or by preventing flammable vapors from being given off.

Class C Fire

A fire involving energized electrical equipment, conductors or appliances. Nonconducting extinguishing agents must be used for the protection of firefighters.

Class D Fire

A fire involving combustible metals, for example, sodium, potassium, magnesium, titanium and aluminum. Extinguishment is accomplished through the use of heat-absorbing extinguishing agents such as certain dry powders that do not react with the burning metals.

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Cold (Support) Zone

An area free of contaminants so that Personal Protection Equipment (PPE) is not required for personnel working in this area. Command functions and supporting operations are carried out here.

Command Post

A site located at a safe distance from the spill site where response decisions are made, equipment and manpower deployed, and communications handled. The Incident Commander and the On-Scene Coordinators may direct the on-scene response from this location.

Communication Equipment

Equipment that will be utilized during response operations to maintain communication between employees, contractors, federal/state/local agencies.

Containment Boom

A flotation/freeboard device, made with a skirt/curtain, longitudinal strength member, and ballast unit/weight designed to entrap and contain the product for recovery.

Contamination Reduction Zone

Same as the warm zone, a buffer between the hot and cold zones. Decontamination activities take place there. Equipment needed to support the primary response operation may be staged in the warm zone.

Contingency Plan

A document used by: (1) federal, state, and local agencies to guide planning and response procedures regarding spill of oil, hazardous substances, or other emergencies; (2) a document used by industry as a response plan to spills of oil, hazardous substances, or other emergencies occurring upon their vessels or at their facilities.


Contract or Other Approved Means

Includes:

- A written contractual agreement with a response contractor. The agreement should identify and ensure the availability of the specified personnel and equipment described under U.S.C.G. Regulations within stipulated response times in the specified geographic areas
- Certification by the facility owner or operator that the specified personnel and equipment described under USCG Regulations are owned, operated, or under the direct control of the facility owner or operator, and are available within stipulated times in the specified geographic areas
- Active membership in a local or regional oil spill removal organization that has identified specified personnel and equipment described under USCG Regulations

that are available to respond to a discharge within stipulated times in the specified geographic areas

- A document which:
 - Identifies the personnel, equipment, services, capable of being provided by the response contractor within stipulated response times in specified geographic areas
 - Sets out the parties' acknowledgment that the response contractor intends to commit the resources in the event of a response
 - Permits the Coast Guard to verify the availability of the response resources identified through tests, inspections, drills
 - Is incorporated by reference in the Response Plan

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Contract or Other Approved Means, Continued

- For a facility that could reasonably be expected to cause substantial harm to the environment, with the consent of the response contractor or oil spill removal organization, the identification of a response contractor or oil spill removal organization with specified equipment and personnel which are available within stipulated response times in specific geographic areas.

Demand Breathing Apparatus

A type of self-contained breathing apparatus that provides air or oxygen from a supply carried by the user.

Dispersants

Those chemical agents that emulsify, disperse, or solublize oil into the water column or promote the surface spreading of oil slicks to facilitate dispersal of the oil into the water column.

Diversion Boom

A flotation/freeboard device, made with a skirt/curtain, longitudinal strength member, and ballast unit/weight designed to deflect or divert the product towards a pick up point, or away from certain areas.

Environmentally Sensitive Areas

Streams and water bodies, aquifer recharge zones, springs, wetlands, agricultural areas, bird rookeries, endangered or threatened species (flora and fauna) habitat, wildlife preserves or conservation areas, parks, beaches, dunes, or any other area protected or managed for its natural resource value.

Exclusion Zone

Same as hot zone, the area where a hazard exists. This is the hazardous location on site, therefore entry requires personal protective equipment (PPE). It must be big enough for both mitigation activities and protection of personnel in the warm zone should an explosion, fire, change of wind direction, or an unexpected release occur during response activities.

Explosive Range

Flammable range; the range of the mixture of air and flammable gas or flammable vapor of liquids that must be present in the proper proportions for the mixture to be ignited. The range has upper and lower limits; any mixture above the upper explosive limit or below the lower explosive limit will not burn.

Facility

Any pipeline, structure, equipment, or device used for handling oil including, but not limited to, underground and aboveground storage tanks, impoundments, mobile or portable drilling or workover rigs, barge mounted drilling or workover rigs, and portable fueling

facilities located offshore or on or adjacent to coastal waters or any place where a discharge of oil from the facility could enter coastal waters or threaten to enter the coastal waters.

Federal Fund



The oil spill liability trust fund established under OPA.

First Responders, First Response Agency

A public health or safety agency (i.e., fire service or police department) charged with responding to a spill during the emergency phase and alleviating immediate danger to human life, health, safety, or property.

Flashover

The ignition of combustibles in an area heated by convection, radiation, or a combination of the two. The action may be a sudden ignition in a particular location followed by rapid spread or a "flash" of the entire area.

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Flash Point

The temperature at which a liquid fuel gives off sufficient vapor to form an ignitable mixture near its surface.

Foam

A blanket of bubbles that extinguishes fire mainly by smothering. The blanket prevents flammable vapors from leaving the surface of the fire and prevents oxygen from reaching the fuel. The water in the foam also has a cooling effect.

Hazardous Material

Any nonradioactive solid, liquid, or gaseous substance which, when uncontrolled, may be harmful to humans, animals, or the environment. Including but not limited to substances otherwise defined as hazardous wastes, dangerous wastes, extremely hazardous wastes, oil, or pollutants.

Hazardous Substance

Any substance designed as such by the Administrator of EPA pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act; regulated pursuant to Section 311 of the Federal Water Pollution Control Act.

Hazardous Waste

Any solid waste identified or listed as a hazardous waste by the Administrator of the EPA pursuant to the federal Solid Waste Disposal Act, as amended by the Resources Conservation and Recovery Act (RCRA), 42 U.S.C., Section 6901, et seq as amended. The EPA Administrator has identified the characteristics of hazardous wastes and listed certain wastes as hazardous in Title 40 of the Code of Federal Regulations, Part 261, Subparts C and D respectively.

Higher Volume Port Area


Ports of:

- Boston, MA
- New York, NY
- Delaware Bay and River to Philadelphia, PA
- St. Croix, VI
- Pascagoula, MS
- Mississippi River from Southwest Pass, LA to Baton Rouge, LA
- Louisiana Offshore Oil Port (LOOP), LA
- Lake Charles, LA
- Sabine-Natchez River, TX
- Galveston Bay and Houston Ship Channel, TX
- Corpus Christi, TX
- Los Angeles/Long Beach Harbor, CA
- San Francisco Bay, San Pablo Bay, Carquinez Strait, Suisun Bay to Antioch, CA

- Straits of Juan de Fuca and Puget Sound, WA
- Prince William Sound, AK

Hot (Exclusion) Zone

The area where a hazard exists. This is the hazardous location on site, therefore entry requires personal protective equipment (PPE). It must be big enough for both mitigation activities and protection of personnel in the warm zone should an explosion, fire, change of wind direction, or an unexpected release occur during response activities.

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Hyperthermia

A dangerously high fever that can damage nerve centers. This condition can result from exposure to excessive heat over an extended period of time.

Ignition Temperature

The lowest temperature at which a fuel will burn without continued application of an ignition source.

Incident Commander (IC)

The one individual in charge at any given time of an incident. The Incident Commander will be responsible for establishing a unified command with all on-scene coordinators.

Incident Command System

A method by which the response to an extraordinary event, including a spill, is categorized into functional components and responsibility for each component assigned to the appropriate individual or agency.

Interim Storage Site

A site used to temporarily store recovered oil or oily waste until the recovered oil or oily waste is disposed of at a permanent disposal site. Interim storage sites include trucks, barges, and other vehicles, used to store waste until the transport begins.

Lead Agency

The government agency that assumes the lead for directing the spill response.

Lead Federal Agency

The agency which coordinates the federal response to incidents on navigable waters. The lead Federal agencies are:

- **U. S. Coast Guard (USCG):** Oil and chemically hazardous materials incidents on navigable waters
- **Environmental Protection Agency (EPA):** Oil and chemically hazardous materials incidents on most inland waters and in the inland zone

Lead State Agency

The agency which coordinates state support to Federal and/or Local governments or assumes the lead in the absence of a Federal spill response.

Lower Flammable Limit

Minimum flammable concentration of a particular gas in the air.

Marine Transportation-Related Facility (MTR Facility)

An onshore facility, including piping and any structure used to transfer oil to or from a vessel, subject to regulation under 33 CFR Part 154 and any deepwater port subject to


regulation under 33 CFR Part 150.

Maximum Extent Practicable

The planning values derived from the planning criteria used to evaluate the response resources described in the response plan to provide the on-water recovery capability and the shoreline protection and clean-up capability to conduct response activities for a worst case discharge from a facility in adverse weather.

Maximum Most Probable Discharge (USCG)

A discharge of the lesser of 2,500 barrels or ten percent of the volume of a worst case discharge.

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Medium Discharge (EPA)

Same as maximum most probable discharge.

National Contingency Plan

The plan prepared under the Federal Water Pollution Control Act (33 United States Code '1321 et seq) and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 United State Code '9601 et seq), as revised from time to time.

Nearshore Area

The area extending seaward 12 miles from the boundary lines defined in 46 CFR Part 7, except in the Gulf of Mexico. In the Gulf of Mexico, it means the area extending seaward 12 miles from the line of demarcation (COLREG) lines) defined in '80.740 - 80.850 of Title 33 of the CFR.

Non-Persistent or Group I Oil

A petroleum-based oil that, at the time of shipment, consists of hydrocarbon fractions:

- At least 50% of which by volume, distill at a temperature of 340EC (645EF)
- At least 95% of which volume, distill at a temperature of 370EC (700EF)

Non-Petroleum Oil

Oil of any kind that is not petroleum-based. It includes, but is not limited to, animal and vegetable oils.

Offshore Area

The area beyond 12 nautical miles measured from the boundary lines defined in 46 CFR Part 7 extending seaward to 50 nautical miles, except in the Gulf of Mexico. In the Gulf of Mexico it is the area beyond 12 nautical miles of the line of demarcation (COLREG lines) defined in '80-740 - 80.850 of Title 33 of the CFR extending seaward to 50 nautical miles.

Oil or Oils

Naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of 40 CFR Part 302 adopted August 14, 1989, under Section 101(14) of the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

Oil Spill Removal Organization (OSRO)


An entity that provides oil spill response resources, and includes any for profit or not-for-profit contractor, cooperative, or in-house response resources that have been established in a geographic area to provide required response resources.

Operating Area

The rivers and canals, inland, nearshore, Great Lakes, or offshore geographic location(s) in which a facility is handling, storing, or transporting oil.

Operating Environment

Rivers and canals, inland, Great Lakes, or ocean. These terms are used to define the conditions in which response equipment is designed to function.

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Owner or Operator

Any person, individual, partnership, corporation, association, governmental unit, or public or private organization of any character.

Persistent Oil

A petroleum-based oil that does not meet the distillation criteria for a non-persistent oil. For the purposes of this Appendix, persistent oils are further classified based on specific gravity as follows:

- Group II - specific gravity less than .85
- Group III - specific gravity between .85 and less than .95
- Group IV - specific gravity .95 to and including 1.0
- Group V - specific gravity greater than 1.0

Primary Response Contractor(s)

An individual, company, or cooperative that has contracted directly with the plan holder to provide equipment and/or personnel for the containment or cleanup of spilled oil.

Qualified Individual(s)

An English-speaking representative(s) of the facility identified in the plan, located in the United States, available on a 24-hour basis, familiar with implementation of the facility response plan, and trained in his or her responsibilities under the plan. This person must have full written authority to implement the facility's response plan. This includes:

- Activating and engaging in contracting with identified oil spill removal organization(s)
- Acting as a liaison with the predesignated of Federal On-Scene Coordinator (FOCS)
- Obligating, either directly or through prearranged contracts, funds required to carry out all necessary or directed response activities

Regional Response Team

The Federal Response Organization (consisting of representatives from selected Federal and State agencies) which acts as a regional body responsible for planning and preparedness before an oil spill occurs and providing advice to the FOSC in the event of a major or substantial spill.

Reid Vapor Pressure Method

Method used by the American Society of Testing Materials to test vapor pressure. It is a measure of the volatility, or tendency to vaporize, of a liquid.

Responsible Party

Any person, owner/operator, or facility that has control over an oil or hazardous substance

immediately before entry of the oil or hazardous substance into the atmosphere or in or upon the water, surface, or subsurface land of the state.

Rivers and Canals

A body of water confined within the inland area that has a projected depth of 12 feet or less, including the Intracoastal Waterway and other waterways artificially created for navigation.

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Skimmers

Mechanical devices used to skim the surface of the water and recover floating oil.

Skimmers fall into four basic categories (suction heads, floating weirs, oleophilic surface units, and hydrodynamic devices) which vary in efficiency depending on the type of oil and size of spill.

Slopoover

An event that occurs when water is introduced into a tank of very hot liquid, causing the liquid to froth and spatter.

Small Discharge (EPA)

Same as average most probable discharge.

Sorbents

Materials ranging from natural products to synthetic polymeric foams placed in confined areas to soak up small quantities of oil. Sorbents are very effective in protecting walkways, boat decks, working areas, and previously uncontaminated or cleaned areas.

Spill Management Team

The personnel identified to staff the organizational structure identified in a response plan to manage response plan implementation.

Spontaneous Ignition

A fire that occurs without a flame, spark, hot surface, or other outside source of ignition.

Staging Areas

Designated areas near the spill site accessible for gathering and deploying equipment and/or personnel.

State Emergency Response Commission (SERC)

A group of officials appointed by the Governor to implement the provisions of Title III of the Federal Superfund Amendments and Reauthorization Act of 1986 (SARA). The SERC approves the State Oil and Hazardous Substance Discharge Prevention and Contingency Plan and Local Emergency Response Plans.

Static Electricity

Charges of electricity accumulated on opposing and usually moving surfaces having negative and positive charges, respectively. A hazard exists where the static potential is sufficient to discharge a spark in the presence of flammable vapors or combustible dusts.

Support Zone



Same as cold zone, an area free of contaminants so that personal protection equipment (PPE) is not required for personnel working in this area. Command functions and supporting operations are carried out here.

Tornado Warning

A tornado has been sighted.

Tornado Watch

Conditions are favorable for tornados to form.

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Unified Command

The method by which local, state, and federal agencies will work with the Incident Commander to:

- Determine their roles and responsibilities for a given incident
- Determine their overall objectives for management of an incident
- Select a strategy to achieve agreed upon objectives
- Deploy resources to achieve agreed-upon objectives

Warm (Contamination Reduction) Zone


A buffer between the hot and cold zones. Decontamination activities take place there. Equipment needed to support the primary response operation may be staged in the warm zone.

Waste

Oil or contaminated soil, debris, and other substances removed from coastal waters and adjacent waters, shorelines, estuaries, tidal flats, beaches, or marshes in response to an unauthorized discharge. Waste means any solid, liquid, or other material intended to be disposed of or discarded and generated as a result of an unauthorized discharge of oil. Waste does not include substances intended to be recycled if they are in fact recycled within 90 days of their generation or if they are brought to a recycling facility within that time.

Wildlife Rescue

Efforts made in conjunction with federal and state agencies to retrieve, clean, and rehabilitate birds and wildlife affected by an oil spill.


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APPENDIX F

Last revised: February 7, 2014

ADDITIONAL INFORMATION

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- TGLO - Wildlife Response Guide
 - TGLO - Inspection 11.10.10
 - TGLO - Dispersant Policy
 - Truck Load-Unload Plan
 - TGLO-Discharge Prevention and Response Certificate 2018
 - Dispersent Policy

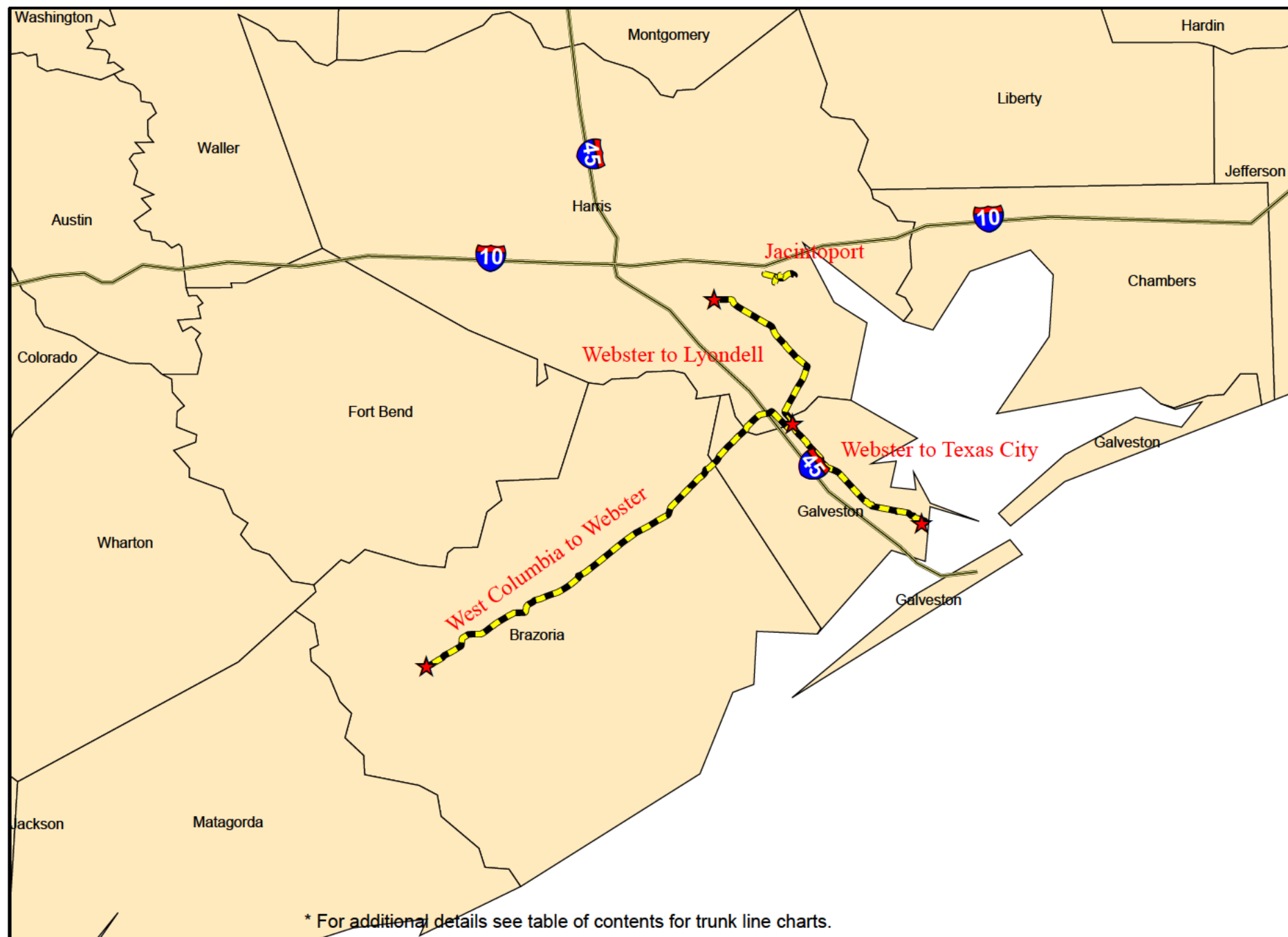


LINK FILES



Genesis Pipeline Texas, L.P. Genesis Natural Gas, L.P. Pipeline Segments

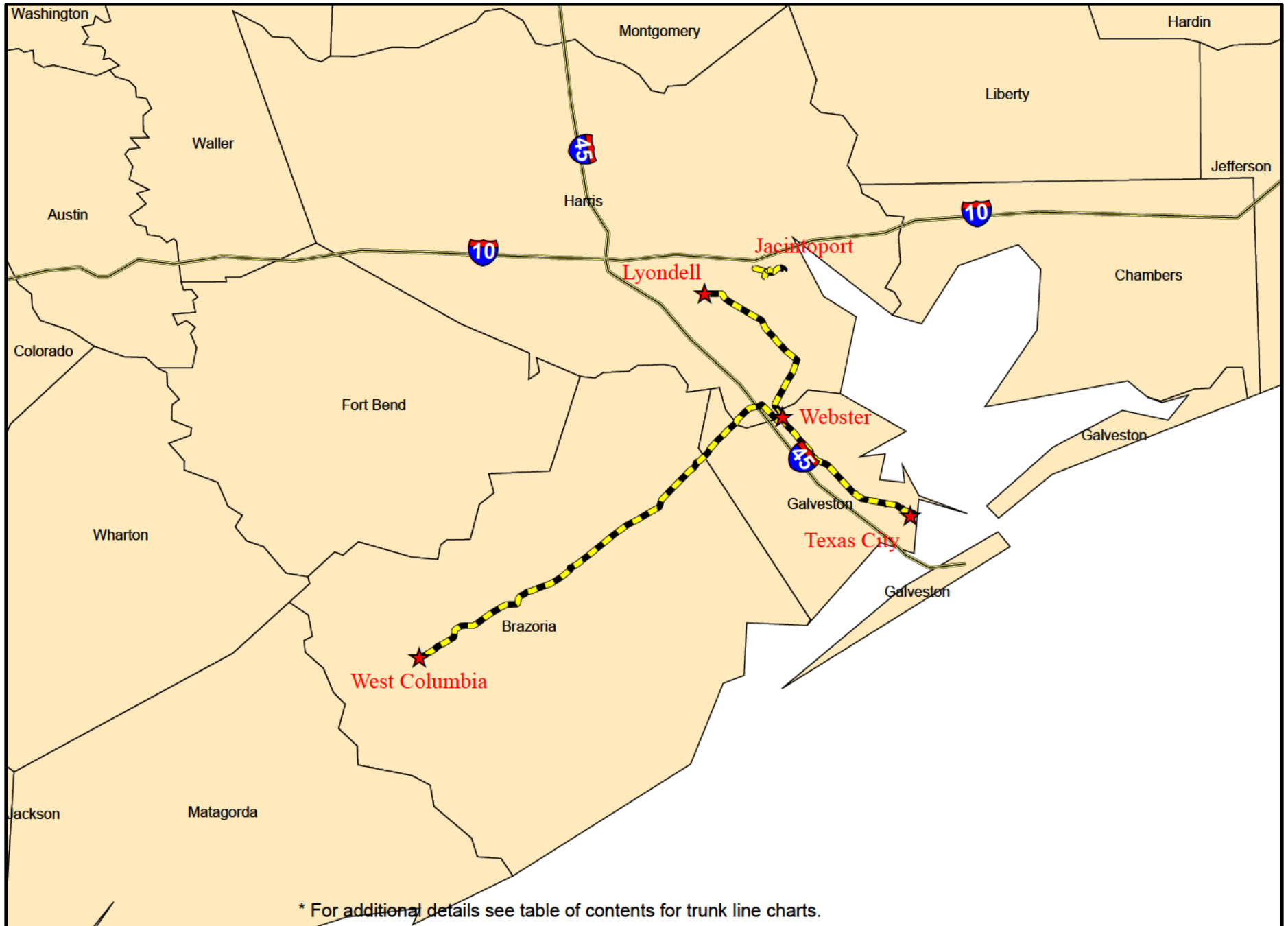
Miles
0 2.5 5 10





Genesis Pipeline Texas, L.P. Genesis Natural Gas, L.P. Pipeline Stations

Miles
0 2.5 5 10

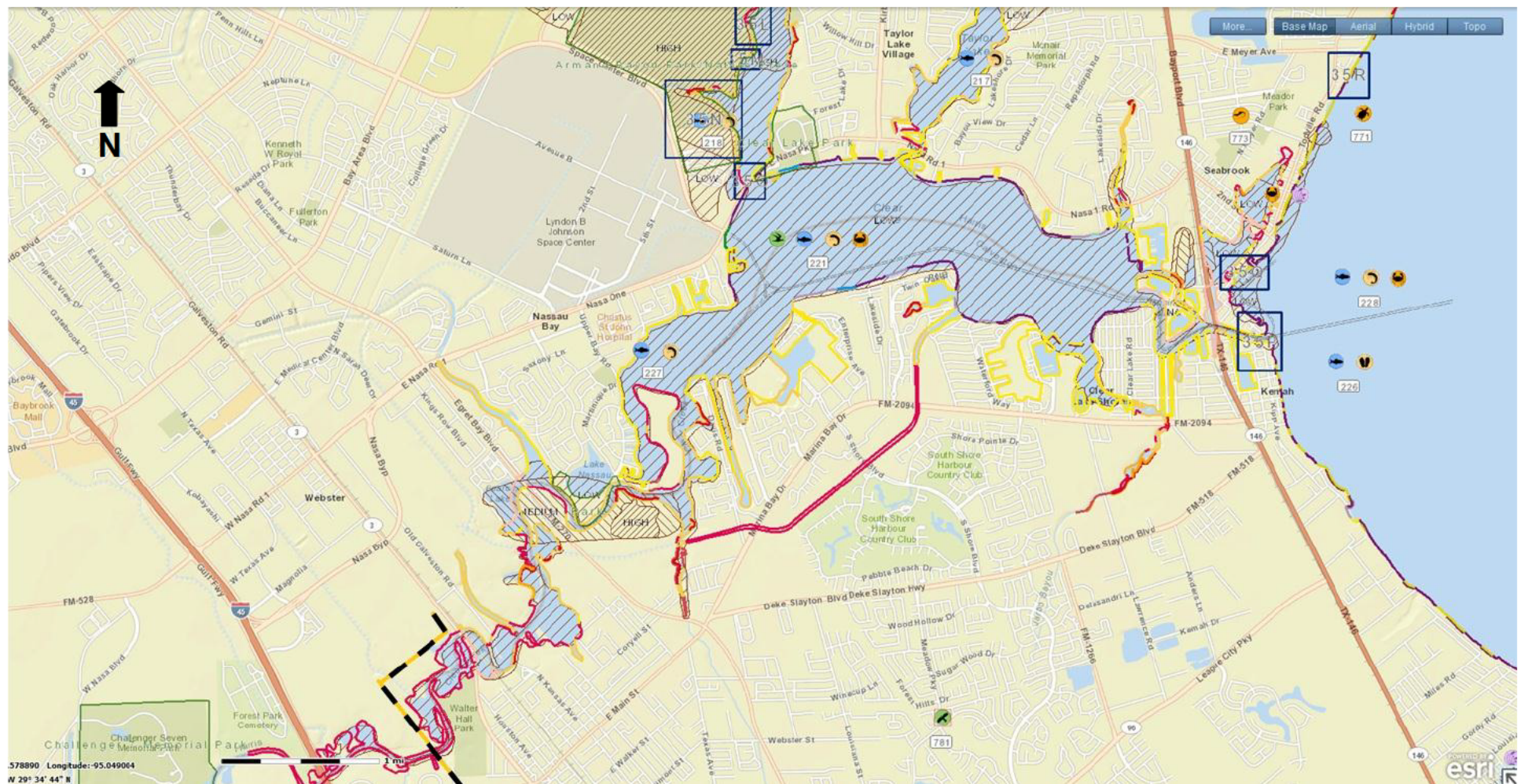


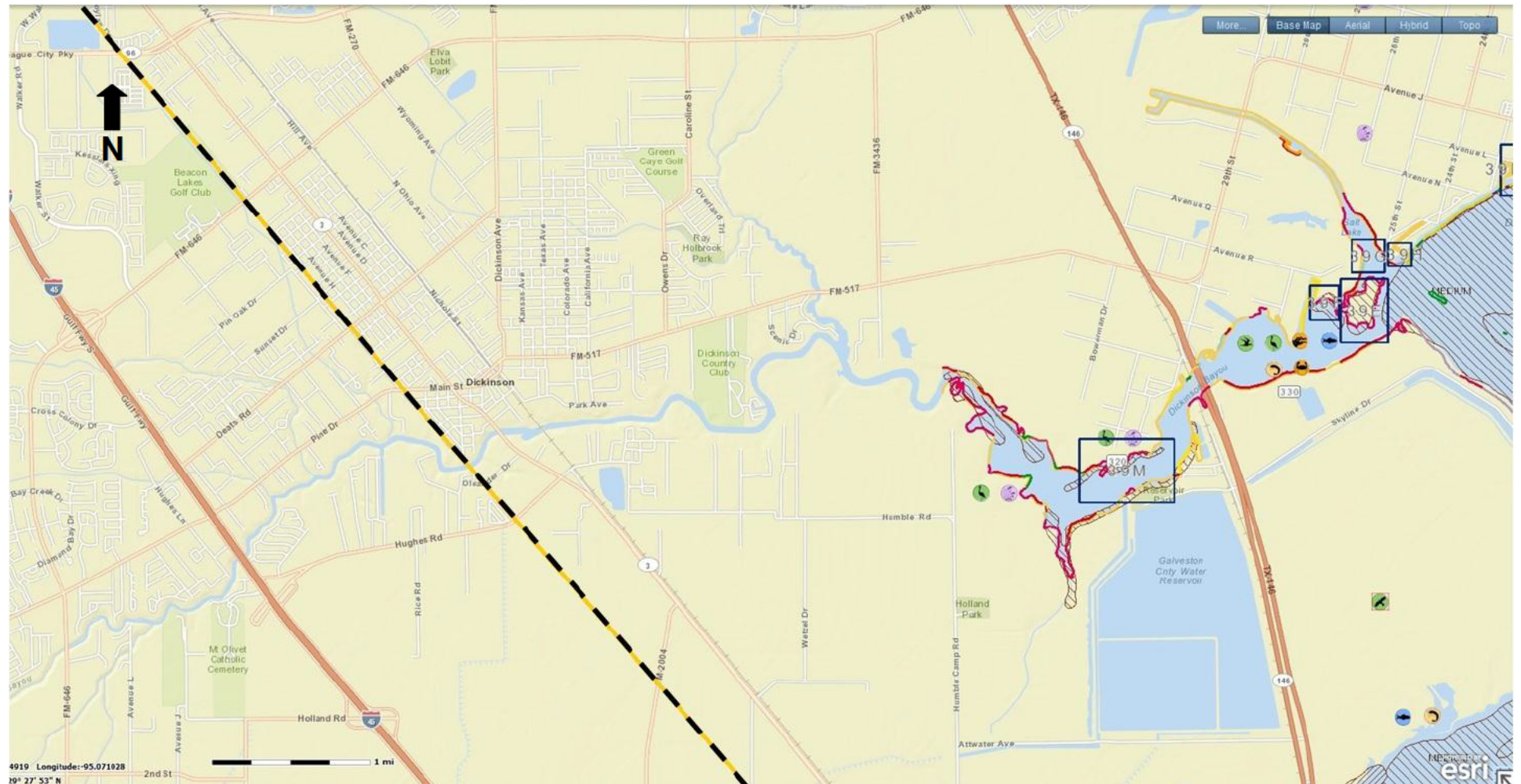
GENESIS PIPELINE TEXAS, LP PHASE CHECKLIST

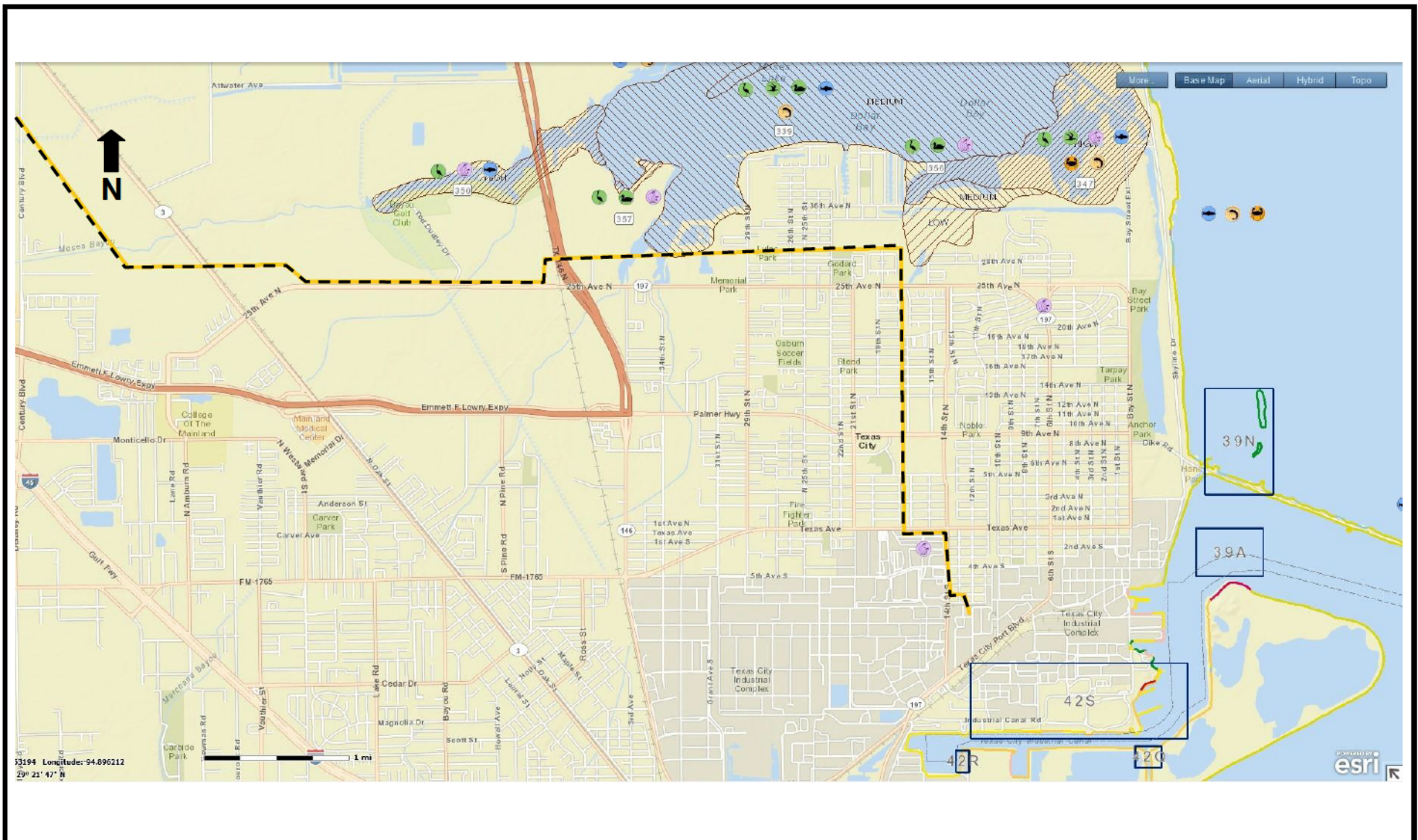
Phase 1 - Possible Threat To Area Operations	INITIALS / NOTES
If a hurricane enters the Gulf of Mexico, evaluate sending qualified personnel to back up Control Center.	
Determine if necessary to have personnel on-site during hurricane.	
Arrange for food, water, first aid and emergency lighting if necessary.	
Arrange with scheduling to have the following tanks at least half full of oil:	
<ul style="list-style-type: none"> Webster Tanks 111, 112, 123 West Columbia Tanks 610 	
Notify customers and shippers of possible threat of disruption of service.	
Advise Genesis Control Center personnel to the possibility of unusual conditions.	
Move OCC operations to the back up Control Center.	
Phase 2 - Actual Threat To Area Operations	
If the storm develops into hurricane strength, shut down all pipeline facilities six (6) hours before the storm makes coastal landfall.	
LYONDELL STATION	
Close main block valves:	
<ul style="list-style-type: none"> N4 (downstream of Armond Bayou) D1 (at Crown Station) 	
Disconnect incoming station power feed at Crown Station.	
Fill relief tank with oil.	
Close tank valves and sight glass valves.	
Close pig trap mainline valve.	
Remove satellite IDU and place in secure location.	
Disconnect incoming station power feed.	
TEXAS CITY STATION	
(b) (7)(F)	
Drain sump to empty and ensure water tight lid is affixed.	
Fill relief tank with fire water or oil.	
Close tank valves and sight glass valve.	
Close pig trap mainline valve.	
Disconnect incoming station power feed.	
WEBSTER STATION	
(b) (7)(F)	
Notify customers and shippers of disruption of services and shut down.	
Move ROW Tractor, four wheeler and emergency response trailer to safe location.	
Drain sump to empty and ensure water tight lid is affixed.	
Put storage chests and oily waste drums in storage shed.	
Attach hurricane straps to Varsol tank, storage shed, corrosion inhibitor tank and waste dumpster.	
Chain barge storage container to concrete supports.	
Disconnect incoming 2,400 V station power feed.	
Close suction and discharge valves on tanks 111, 112, and 123.	
Open roof drain valves on tanks 111, 112, and 123. Check for blockages at the beginning or end of the drain line.	
Close sight glass valves on tanks 111, 112, and 123	
Drain dike walls and lock valves closed.	
WEST COLUMBIA STATION	
(b) (7)(F)	

(b) (7)(F)		
Close suction and discharge valves on tanks 610.		
Open roof drain valves on tanks 610. Check for any blockages at the beginning or end of the roof drain line.		
Close sight glass valves on tanks 610.		
Drain dike wall and lock valves closed.		
JACINTO PORT NATURAL GAS		
(b) (7)(F)		
LELEUX NATURAL GAS		
(b) (7)(F)		
WEST VICTORIA NATURAL GAS		
(b) (7)(F)		
Phase 3 - Post Storm Response And Activities		
Area Supervisors will call Genesis Control Center to give an update (stations, pipelines and communications)		
Bring OCC operations back to Houston from the back up location.		
All clear from Area Supervisor: <ul style="list-style-type: none"> • Stations • Pipelines • Tank Batteries • Communications • Area Plants • Power 		
Genesis Operations Control Center will also instruct local operations as to the outlying conditions, as well as possible support.		
Follow up on employee evacuation plan and initiate employee communication.		
Post storm response and communications: <ul style="list-style-type: none"> • Response team report to Webster • Divide response team and assign duties. • Check Genesis facilities. • Investigate condition of communications and power. • Communicate with Genesis Operations Control Center personnel. • Designate Genesis Contact personnel and times. 		
Initiate employee response and support.		
Phase 4 - Restarting Operations		
Once cleared by supervisors, field personnel, and Genesis Operations Control Center personnel will work together on restarting operations		
Restarting operations and notification: <ul style="list-style-type: none"> • Confirm power, communications, and notification of shippers and facilities. • Plants • Shippers • Delivery Points 		
Stage personnel at stations and coordinate start ups with the Operations Control Center.		
OCC will monitor all star ups, flow and pressures.		

Maps and figures have been redacted in accordance with the FOIA Exemption 7(F).









MASTER SERVICE AGREEMENT

THIS MASTER SERVICE AGREEMENT (the "Agreement") made September 10, 2010 between Clean Harbors Environmental Services, Inc. called ("CONTRACTOR") and Genesis Crude Oil, L.P., Genesis Pipeline Texas, L.P., Genesis Pipeline USA, L.P., Genesis CO2 Pipeline, L.P., Genesis Natural Gas Pipeline, L.P., Genesis Free State Pipeline, LLC, Genesis Pipeline Alabama, LLC, Davison Transportation Services, Inc., Davison Petroleum Supply, LLC, Red River Terminals, L.L.C. and TDC, L.L.C. by and through the general partner, GENESIS ENERGY, LLC., hereinafter collectively called ("GENESIS"), covers all services and work ("Services") to be performed by CONTRACTOR for or on behalf of GENESIS.

1. **Contract Document.** This Agreement shall control and govern all Services to be provided by CONTRACTOR (except Emergency Response Services unless appropriate rider is attached) and shall define the rights and obligations of GENESIS and CONTRACTOR with regard to the matters covered hereby, to the exclusion of verbal or written work orders, purchase orders, bids or any other writings not specifically referring to this agreement and signed by each of the parties. This Agreement supersedes any agreement concerning work or services previously entered into between GENESIS and CONTRACTOR.
2. **Time and Manner.** GENESIS may from time to time by written notice request CONTRACTOR to perform Services. CONTRACTOR shall promptly advise GENESIS whether or not it is willing to perform the requested Services. If CONTRACTOR agrees to perform such Services, it shall notify GENESIS in writing and promptly commence after the same is ordered and shall render such services with due diligence until completion in a good and workmanlike manner in accordance with standard industry practice and to GENESIS's satisfaction. Any variances or exceptions to the scope of work specified shall be identified in writing by CONTRACTOR.
3. **Items Supplies; Liens.** Except as otherwise notified by GENESIS, CONTRACTOR shall furnish all labor, services, equipment, appliances, tools, facilities, supervision, and materials necessary for the complete performance of the Services to be performed hereunder.
4. **Contract Price; Billing.** GENESIS shall pay CONTRACTOR for the Services in accordance with schedules of rates and prices or lump sum amount as specified in Exhibits hereto or as otherwise agreed upon between GENESIS and CONTRACTOR, such agreement referencing this Agreement. Prices or rates shall not be increased without prior written approval from GENESIS. GENESIS shall pay CONTRACTOR for completed services within 30 days of receipt of the invoice. The payment terms set forth herein are contingent upon the approval of Contractor's Credit Department. In the event of a change in Genesis' financial condition, Contractor reserves the right to alter, change, or modify payment terms,



and to immediately stop work. The failure of Contractor to exercise its rights under this article at any time shall not constitute a waiver of Contractor's continuing right to do so.

5. WASTE

During the term of this Agreement, Genesis may, from time to time, provide to Contractor certain waste materials. Waste materials to be handled pursuant to this Agreement shall be agreed upon in advance in writing by Contractor and Genesis. At the time Genesis requests the Services of Contractor, Genesis shall provide a Waste Profile Sheet or similar document ("Waste Profile") to Contractor completely and accurately describing the waste materials and its (their) characteristics. Upon approval by Contractor, the Waste Profile shall be incorporated into and become a part of this Agreement.

6. Transfer of Waste and Title

Title, risk of loss and all other incidents of ownership to the waste materials shall be transferred from Genesis to Contractor at the time Contractor takes possession of and removes waste materials from the place of transfer, or at the time Contractor accepts delivery of the waste materials at its TSD facility, whichever is applicable.

Waste materials which are discovered to be non-conforming may be rejected by Contractor. Title, risk of loss and all other incidents of ownership to non-conforming wastes shall remain at all times with Genesis. Waste materials shall be considered non-conforming for purposes of this Agreement if: (1) the waste materials are not properly packaged or labeled; or (2) the waste materials contain constituents or have characteristics or properties not disclosed on the Waste Profile, and such constituents, characteristics or properties increase the cost to Contractor or increase the risk of hazard to human health or the environment from the handling, transportation, storage or disposal of such materials; or (3) the designated disposal facility is not designed or permitted to dispose of waste materials with such undisclosed constituents, characteristics or properties.

Waste materials discovered by Contractor to be non-conforming, if in Contractor, possession, shall be prepared for lawful transportation by Contractor and returned to Genesis within a reasonable time after rejection by Contractor, unless the parties agree to an alternative and lawful manner to dispose of the waste materials. Genesis shall pay Contractor at agreed rates for the handling, loading, preparing, transporting, storing and caring for and, if applicable, disposing of such non-conforming waste materials.



7. Subsurface/Latent Condition

If Contractor encounters (a) subsurface or latent physical conditions at the site which differ materially from those indicated by a reasonably diligent inspection or (b) unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character as provided for in this Agreement and/or applicable purchase or work order and/or Scope of Work, equitable adjustment to the price and/or schedule shall be mutually agreed to by the parties before Contractor shall proceed with the work.

8. **Inspection.** GENESIS and its representatives shall have the right to witness all Services being performed hereunder.
9. **Examination of Premises, etc.** Prior to the commencement of Services, CONTRACTOR will make sufficient examination and tests of the premises and facilities at which the Services are to be undertaken to determine the difficulties and hazards incident to rendering Services and to satisfy itself as to the procedures to be followed, the adequacy of available safety equipment and other requirements necessary or appropriate to the performance of the Services.
10. **Compliance with Laws.** CONTRACTOR will obtain all necessary permits and licenses and will comply with applicable government laws, rules, regulations, executive orders, priorities, ordinances and restrictions now or hereafter in force (including, but not limited to Federal and State labor, health and safety and nondiscrimination laws, regulations and executive orders) in rendering Services. CONTRACTOR will furnish GENESIS any documentation required to evidence such compliance and will file with governmental agencies any reports required to be filed by CONTRACTOR. If CONTRACTOR is required to meet the requirements of Title 49, Part 195, Subpart G Qualification of Pipeline Personnel, 195.501 – 195.509 to perform certain services on Genesis regulated property, CONTRACTOR shall subscribe to and shall maintain current records on ISNetworld so long as CONTRACTOR is performing such services for GENESIS.
11. **Insurance.** During the performance of the Services hereunder, CONTRACTOR shall take out, carry and maintain, with an insurance company or companies approved by GENESIS, and in policies of insurance acceptable to GENESIS, the following insurance sufficient to address the liabilities that may be generated by the Services. All liability policies shall be on an occurrence basis with limits not less than those shown below:

(a) **Workers Compensation and Occupational Disease Insurance.** Workers Compensation and Occupational Disease Insurance, including coverage under the



Longshoremen and Harbor Workers' Compensation Act and the Jones Act (if applicable) and Employer's Liability Insurance with limits complying with the laws of the State in which such Services are to be rendered.

(b) Comprehensive General Liability Insurance. Comprehensive General Liability Insurance, including Premises, Operations, Explosion, Collapse and Underground Damage, and Contractual Liability (including this Agreement with Genesis) with policy limits not less than \$2,000,000 in the aggregate, and \$1,000,000 combined single limit personal injury each occurrence and \$1,000,000 property damage each occurrence.

(c) Automobile Liability Insurance. Automobile Liability Insurance, including Contractual Liability, covering all motor vehicles owned, hired or used while rendering Services with limits not less than \$1,000,000, combined single limit personal injury and property damage each occurrence.

(d) Excess Liability. Excess Liability Insurance with a limit of at least \$4,000,000 per occurrence, including but not limited to (i) Excess Employers Liability Insurance, (ii) Commercial General Liability Insurance and (iii) Automobile Liability Insurance.

CONTRACTOR shall ensure all insurance policies mentioned above shall contain a waiver of subrogation in favor of GENESIS. Before commencing Services, CONTRACTOR shall furnish GENESIS for its approval and retention, Certificates of Insurance naming "Genesis Crude Oil, L.P., Genesis Pipeline Texas, L.P., Genesis Pipeline USA, L.P., Genesis CO2 Pipeline, L.P., Genesis Natural Gas Pipeline, L.P., Genesis Free State Pipeline, LLC, Genesis Pipeline Alabama, LLC, Genesis Energy, LLC, Davison Transportation Services, Inc., Davison Petroleum Supply, LLC, Red River Terminals, L.L.C. and TDC, L.L.C." (hereinafter the "GENESIS ENTITIES") as the certificate holder and additional named insured, further providing that in the event of any material changes in or cancellation of the insurance thirty days advance written notice shall be given to GENESIS.

12. **INDEMNITY.** CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS GENESIS AND ITS OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES AND ANY AFFILIATED OR RELATED COMPANIES, FROM AND AGAINST ANY AND ALL SUITS, ACTIONS, LEGAL OR ADMINISTRATIVE PROCEEDINGS, CLAIMS, DEMANDS, DAMAGES, LIABILITIES, INTEREST, ATTORNEY'S FEES, COSTS AND EXPENSES OF WHATSOEVER KIND OR NATURE ARISING OUT OF ANY BODILY INJURY (INCLUDING DEATH), PROPERTY DAMAGE, OR ECONOMIC DAMAGE, WHETHER ARISING BEFORE OR AFTER COMPLETION OF THE SERVICES HEREUNDER AND TO THE EXTENT SUCH ARE CAUSED BY



REASON OF ANY INTENTIONAL MISCONDUCT OR NEGLIGENCE, WHETHER ACTIVE OR PASSIVE, OF CONTRACTOR OR OF ANYONE ACTING UNDER ITS DIRECTION, CONTROL, OR ON ITS BEHALF IN CONNECTION WITH OR INCIDENT TO THE SERVICES PERFORMED UNDER THIS AGREEMENT.

NOTWITHSTANDING ANY OF THE FOREGOING, CONTRACTOR SHALL NOT BE OBLIGATED HEREUNDER TO HOLD HARMLESS OR INDEMNIFY GENESIS FOR LOSS, COST OR EXPENSE OF INCIDENT OR ACCIDENT ARISING OUT OF THE WORK AND PROXIMATELY CAUSED BY THE NEGLIGENCE OF GENESIS OR ITS EMPLOYEES.

Nothing herein shall prohibit GENESIS from filing suit or obtaining a judgment against CONTRACTOR for such claim, loss, injury or damage if such is necessary in order to collect or receive payment under any such insurance carried by CONTRACTOR.

Neither party shall be liable to the other for incidental, consequential or special damages.

13. **Safety.** CONTRACTOR shall maintain adequate protection of persons and property during CONTRACTOR's performance hereunder. Where Services are rendered on GENESIS'S premises, all of GENESIS'S safety rules shall be strictly observed and smoking shall be limited to such locations and occasions as are specifically authorized by GENESIS. Contractor shall be solely responsible for the safety of the work and its employees. The possession and/or use of illegal or unauthorized drugs, intoxicating beverages, firearms or other weapons is prohibited on all GENESIS property. To insure the safety of persons and to prevent the loss of GENESIS property, GENESIS may, but is not required to, conduct security inspections or searches at random. GENESIS shall have the right to search the person, personal effects or vehicle of any person on GENESIS property to enforce compliance with this policy. Persons found to be in violation of this policy will be immediately removed and barred from GENESIS property. Illegal or unauthorized drugs, intoxicating beverages, firearms, or other weapons discovered as a result of any such inspection may be confiscated and turned over to law enforcement officers at GENESIS's discretion.
14. **Termination.** GENESIS may, at its absolute discretion, direct the Services to be halted at any time, but where CONTRACTOR is not in default hereunder, GENESIS shall pay CONTRACTOR for all work completed in accordance with the approved price schedule.
15. **Independent Contractor.** In the performance of all Services, CONTRACTOR is an independent contractor, with the sole right to supervise, manage, control and direct the performance of the details. GENESIS is interested only in the results to



be obtained, but the Services must meet with the approval of GENESIS, whose representatives shall be entitled to make such inspections of the Services and of CONTRACTOR's records relating thereto as may be necessary to assure such results and compliance with the provisions hereof.

16. **Non-Assignability and Encumbrances.** This Agreement or any rights or interests or amounts which may be due hereunder shall not be transferred, assigned, sublet, pledged or encumbered without the advance written approval of GENESIS to be withheld or denied in its sole discretion. Any subcontracting permitted hereby shall not relieve CONTRACTOR of primary responsibility for any Services performed thereunder or hereunder. Any assignments, pledges, encumbrances, factoring agreements, security interests or mortgages in violation hereof shall in all respects be and remain subject to any and all claims, defenses, set offs or rights or remedies of GENESIS
17. **Interpretation and Integration.** This Agreement, together with the Exhibits which are attached hereto and incorporated herein by this reference, constitutes the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the parties. No supplement, modification or waiver of this Agreement shall be binding unless executed in writing by the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provision hereof (regardless of whether similar), nor shall any such waiver constitute a continuing waiver unless otherwise expressly provided.
18. **Governing Law.** The parties hereto agree that all of the provisions of this Agreement and any questions concerning its interpretation and enforcement shall be governed by the laws of the state in which the services or work are performed, without regard to its principles of conflicts of law.
19. **Force Majeure.** Neither party shall be considered in default in performance of its obligation under the Agreement if delayed by Force Majeure (as herein defined). Force Majeure as used herein shall mean hostilities, restraint of rulers or people, revolution, civil commotion, strike, epidemic, fire, flood, windstorm, explosion, embargo, or any law, proclamation, regulation, or ordinance of any Government, or any cause, whether of the same or different nature, existing or future, which is beyond the reasonable control of the parties hereto. It will be the sole responsibility of the party so affected by Force Majeure to take all reasonable steps necessary to eliminate the cause of any delay but not to the extent of assenting to unreasonable demands of any third party. Nothing herein contained shall alter or vary Genesis's right to terminate this Agreement as hereinabove provided.



20. **Headings.** Section headings or titles are included for ease of reference and do not constitute any part of the text or affect its meaning or interpretation.
21. **Severability.** If any provision herein is or becomes invalid or illegal in whole or in part, such provisions shall be deemed amended, as nearly as possible to be consistent with the intent expressed in this Master Service Agreement, and if such is impossible, that provision shall fall by itself without invalidating any of the remaining provisions not otherwise invalid or illegal.
22. **Confidential Information.** In the performance of the Services, CONTRACTOR may be exposed to confidential information of GENESIS and others. CONTRACTOR shall not disclose to anyone not employed by GENESIS nor use, except on behalf of GENESIS, any such confidential information acquired by it in the performance of the Services except as authorized by GENESIS in writing, and regardless of the term of this Agreement, CONTRACTOR shall be bound by this obligation until such time as said confidential information shall become part of the public domain. Information regarding all aspects of GENESIS'S (including its parent and its affiliates) business and information concerning the Services (either directly or indirectly disclosed to it or developed by it in the performance of the Services) shall be presumed to be confidential except to the extent that same shall have been published or otherwise made freely available to the general public without restriction. CONTRACTOR also agrees that it will not disclose to GENESIS any information it holds subject to an obligation of confidence to any third persons. INFORMATION shall not be afforded the protection of this Section, if such INFORMATION is:
- (a) In the possession of CONTRACTOR prior to its receipt hereunder, as evidenced by written documentation;
 - (b) Rightly obtained by CONTRACTOR without restriction from a third party; or
 - (c) Publicly available other than through the fault or negligence of CONTRACTOR.
23. **Conflict of Interest and Ethics.** CONTRACTOR, in performing its obligations under this Agreement, shall establish and maintain appropriate business standards, procedures and controls including those necessary to avoid any real or apparent impropriety or adverse impact on the interests of GENESIS or its affiliates.

Executed this ____ day of _____, 2010.

Genesis Crude Oil, L.P., Genesis Pipeline Texas, L.P., Genesis Pipeline USA, L.P.,
Genesis CO2 Pipeline, L.P., Genesis Natural Gas Pipeline, L.P., Genesis Free State



Pipeline, LLC, Genesis Pipeline Alabama, LLC, Davison Transportation Services, Inc., Davison Petroleum Supply, LLC, Red River Terminals, L.L.C. and TDC, L.L.C., by and through the general partner, GENESIS ENERGY, LLC.

By: _____

Title: _____

Clean Harbors Environmental Services, Inc.

By: _____

Title: _____



EMERGENCY RESPONSE RIDER

Rider A

The parties hereto acknowledge that under State and Federal Law, CONTRACTOR ("Contractor") is accorded certain protections when it responds to spills and discharges of oil or other hazardous materials ("Responder Immunity"). In a response, rapid and decisive action is necessary to contain a spill. In almost all actions, responders must initiate a response with no prior notice based on very limited information. Without Responder Immunity, the enormous financial and liability exposures associated with emergency response would make the business of responding to spills impracticable. Accordingly, the parties execute this Rider with the intent of preserving Contractor's statutorily conferred protections to the greatest extent possible.

1. SCOPE OF EMERGENCY RESPONSE SERVICES

1.1 Upon execution of this Emergency Response Services Rider ("Rider"), Contractor agrees to provide Emergency Response Services ("Services") for Genesis's accidental discharges of oil or other hazardous substances. Services may include, but are not limited to the following: Containment, recovery, repackaging and removal of materials; Site evaluation, decontamination and restoration; Transportation, storage, treatment or disposal of wastes; Technical services, including sampling, laboratory analysis, and other related services; Standby of personnel and equipment in anticipation of imminent activation; and Training and mock spill drill deployments.

2. COMPENSATION

2.1 The payment terms set forth herein are contingent upon the approval of Contractor's Credit Department. In the event of a change in Genesis's financial condition, Contractor reserves the right to alter, change, or modify payment terms, and to immediately stop work. The failure of Contractor to exercise its rights under this article at any time shall not constitute a waiver of Contractor's continuing right to do so.

2.2 Genesis agrees to pay Contractor for Services in accordance with Contractor's Rate Schedule for emergency response work ("Rates") in effect at the time Services are rendered. Genesis hereby assigns to Contractor all rights to any insurance payments that Genesis may be entitled to receive to pay for the Services provided under this Agreement and hereby authorizes its insurance company or agent to pay Contractor directly. Genesis's obligation to pay amounts due pursuant to this Agreement shall not be conditioned upon or limited by the types, amounts or availability of insurance coverage.

2.3 Contractor will present its first invoice to Genesis as soon as possible following commencement of Services provided hereunder, and may issue subsequent invoices every five (5) days thereafter. Genesis agrees to pay the full amount of each invoice



amount within fifteen (15) business days of the date of receipt of said invoice by Genesis's Representative.

2.4 Genesis agrees that interest shall accrue and will be paid to Contractor on any unpaid balance of any invoice after fifteen (15) business days of receipt of invoice by Genesis at the rate of one and one half percent (1.5%) per month or the maximum amount allowed by law.

2.5 In the event that legal or other action is required to collect unpaid balances of invoices due Contractor, Genesis agrees to pay all costs of collection, litigation or settlement incurred by Contractor, including reasonable attorneys fees. "Legal or other action" as used above shall include bankruptcy and insolvency proceedings.

2.6 In the event that work is suspended or terminated for without cause prior to the completion of the Services, Genesis agrees to pay for labor, equipment, materials, disposal and other costs incurred by Contractor at the Rates and for reasonable demobilization costs.

2.7 Genesis agrees to pay Contractor in accordance with the Rates for any litigation support or testimony provided by Contractor in connection with, or arising out of, the work performed by Contractor hereunder, except to the extent that such arises out of an alleged breach by Contractor.

3. INDEMNIFICATION

3.1 CONTRACTOR shall indemnify, defend and hold harmless GENESIS, its parent and affiliated companies and their respective directors, officers, employees and agents from and against any and all costs, liabilities, claims, demands and causes of action including, without limitation, bodily injury to or death of any person or destruction of or damage to any property, except natural resource and other damages as provided in Section 3.3, which GENESIS may suffer, incur, or pay out, to the extent such are caused by the negligence or willful misconduct of CONTRACTOR, its agents or employees during the performance of the Agreement or CONTRACTOR'S failure to comply with any laws, regulations or lawful authority, or failure to comply with its obligations under this Agreement; except to the extent such liabilities, claims, demands and causes of action result from (i) GENESIS'S failure to comply with any laws, regulations or other lawful authority; (ii) GENESIS'S failure to comply with its obligations under the Agreement or (iii) the negligence or willful misconduct of GENESIS, its employees or agents.

3.2 GENESIS shall indemnify, defend and hold harmless CONTRACTOR, its parent and affiliated companies and their respective directors, officers, employees and agents from and against any and all costs, liabilities, claims, demands and causes of action including, without limitation, any bodily injury to or death of any person or destruction of or damage to property which CONTRACTOR may suffer, incur, or pay out, to the extent



such are caused by the negligence or willful misconduct of GENESIS, its employees or agents or the failure of GENESIS to comply with any laws, regulations or other lawful authority or the failure of GENESIS to comply with its duties or obligations under the Agreement; except to the extent such liabilities, claims, demands and causes of action result from (i) CONTRACTOR'S failure to comply with any laws, regulations or lawful authority; (ii) CONTRACTOR'S failure to comply with its obligations under the Agreement; or (iii) the negligence or willful misconduct of CONTRACTOR, its employees or agents.

3.3 Notwithstanding the foregoing, GENESIS shall indemnify, defend and hold harmless CONTRACTOR, its parent and affiliated companies and their respective directors, officers, employees, agents and subcontractors from and against any and all costs, liabilities, claims, demands and causes of action for pollution damages; contamination or adverse effects on the environment; destruction of, damage to, or loss of, whether actual or alleged, any property or natural resources, including the cost of assessing the damage; injury to or economic losses resulting from destruction of real or personal property; damages for loss of subsistence use of natural resources; damages equal to the loss of profits or impairment of earning capacity due to the injury, destruction or loss of real property, personal property or natural resources; damages for net costs of providing increased or additional public services; removal costs; and any other costs assessable under the Oil Pollution Act of 1990, the Comprehensive Environmental Response, Compensation and Liability Act or other local, state or Federal law or lawful authority applicable to discharges or releases of oil or hazardous substances which CONTRACTOR, individually or collectively, may suffer, incur, or pay out in connection with, or arising out of, the release of oil or hazardous substances by GENESIS, except to the extent that such damages, injuries, or costs were caused by the gross negligence or willful misconduct of CONTRACTOR.

THE FOREGOING INDEMNITY SHALL ONLY APPLY TO THOSE CLAIMS, LIABILITIES OR CAUSES OF ACTION ARISING, DURING, OR AS A RESULT OF, EMERGENCY RESPONSE ACTIVITIES. THE INDEMNITY CONTAINED IN THE AGREEMENT SHALL GOVERN THE RIGHTS AND OBLIGATIONS OF THE PARTIES WITH REGARD TO THE TRANSPORTATION OR DISPOSAL OF WASTE MATERIALS BY CONTRACTOR.

4. TERMINATION

4.1 Work Orders issued for performance of services under this Rider may be terminated by either party upon forty-eight (48) hours prior notice to the other party.

Except as specifically amended herein, all other terms and conditions contained in the AGREEMENT shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this RIDER to be executed by their duly authorized representatives as of the day and year first above written.

**ENVIRONMENTAL SERVICES®**CLEAN HARBORS ENVIRONMENTAL
SERVICES, INC.

By: _____

Its: _____

Date: _____

William O'ConnorSenior Vice President9/16/2010

COMPANY:

By: _____

Its: _____

Date: _____

[Signature]Director, HSESept 21, 2011

WORK AGREEMENT

THIS AGREEMENT made May 7, 2001 between GARNER ENVIRONMENTAL, hereinafter called ("CONTRACTOR"), and GENESIS PIPELINE TEXAS, L.P., by and through its general partner, GENESIS ENERGY, L.L.C., hereinafter collectively called ("GENESIS"), covers all services and work ("Services") to be performed by CONTRACTOR for or on behalf of GENESIS.

1. **Contract Document.** This contract shall control and govern all Services to be provided by CONTRACTOR and shall define the rights and obligations of GENESIS and CONTRACTOR with regard to the matters covered hereby, to the exclusion of verbal or written work orders, purchase orders, bids or any other writings not specifically referring to this agreement and signed by each of the parties. This contract supersedes any agreement concerning work or services previously entered into between GENESIS and CONTRACTOR.

For labor, equipment and materials provided for general oil spill (Emergency) response services.

2. **Time and Manner.** GENESIS may from time to time by verbal or written notice request CONTRACTOR to perform Services. CONTRACTOR shall promptly advise GENESIS whether or not it is willing to perform the requested Services. If CONTRACTOR agrees to perform such Services, it shall promptly commence after the same is ordered and shall render such services with due diligence until completion in a good and workmanlike manner in accordance with standard industry practice and to GENESIS' satisfaction.
3. **Items Supplies; Liens.** Except for any items and facilities furnished by GENESIS, CONTRACTOR shall furnish all labor, services, equipment, appliances, tools, facilities and materials necessary for the complete performance of the Services to be done hereunder.
4. **Contract Price; Billing.** GENESIS shall pay CONTRACTOR for the Services in accordance with schedules of rates and prices or lump sum amount per CONTRACTOR'S current rate schedule in effect at the time services are performed, which current rate schedule, noted revised as of 10/00 is attached hereto and incorporated herein for all purposes as if fully copied at length. GENESIS shall pay CONTRACTOR within 30 days of receipt of the invoice subject to a 10% retainage of invoice amount. Payment of the retainage will be made upon GENESIS receipt of CONTRACTOR'S affidavit of completion including lien releases from Sub-Contractors and suppliers.
5. **Inspection.** GENESIS and its representatives shall have the right to witness all Services being performed hereunder but shall not have the right to renegotiate rates which rates shall be the rates as set forth under section 4.
6. **Examination of Premises, etc.** Prior to the commencement of Services, CONTRACTOR will make sufficient examination and tests of the premises and facilities at which the Services are to be undertaken to determine the difficulties and hazards incident to rendering Services and to satisfy itself as to the procedures to be followed, the adequacy of available safety equipment and other requirements necessary or appropriate to the performance of the Services.
7. **Compliance with Laws.** CONTRACTOR will obtain all necessary permits and licenses and will comply with applicable government laws, rules, regulations, executive orders, priorities, ordinances and restrictions now or hereafter in force (including, but not limited to Federal and State labor, health and

safety and nondiscrimination laws, regulations and executive orders) in rendering Services. CONTRACTOR will furnish GENESIS any documentation required to evidence such compliance and will file with governmental agencies any reports required to be filed by CONTRACTOR.

8. **Insurance.** During the performance of the Services hereunder, CONTRACTOR shall take out, carry and maintain, an insurance company or companies approved by GENESIS, and in policies of insurance acceptable to GENESIS, the following insurance sufficient to address the liabilities that may be generated by the Services. All liability policies shall be on an occurrence basis with limits not less than those shown below:

(a) **Workmen's Compensation and Occupational Disease Insurance.** Workmen's Compensation and Occupational Disease Insurance, including coverage under the Longshoremen and Harbor Workers' Compensation Act and the Jones Act (if applicable) and Employer's Liability Insurance with limits complying with the laws of the State in which such Services are to be rendered.

(b) **Comprehensive General liability Insurance.** Comprehensive General Liability Insurance, including Premises, Operations, Explosion, Collapse and Underground Damage, Contractual Liability, (including this contract with Basis), Independent Contractor. Policy limits not less than \$2,000,000 in the aggregate, and \$1,000,000 combined single limit personal injury each occurrence and \$1,000,000 property damage each occurrence.

(c) **Automobile Liability Insurance.** Automobile Liability Insurance, including Contractual Liability, covering all motor vehicles owned, hired or used while rendering Services with limits not less than \$1,000,000, combined single limit personal injury and property damage each occurrence.

(d) **Excess Liability.** Excess Liability Insurance with a limit of at least \$4,000,000 per occurrence, including but not limited to (i) Excess Employers Liability Insurance, (ii) Commercial General Liability Insurance and (iii) Automobile Liability Insurance.

CONTRACTOR hereby waives rights of subrogation against GENESIS and all insurance policies mentioned above shall contain a waiver of subrogation in favor of GENESIS. Before commencing Services, CONTRACTOR shall furnish GENESIS for its approval and retention, at GENESIS' option, either Certificates of Insurance naming "GENESIS CRUDE OIL, L.P., GENESIS PIPELINE TEXAS, L.P., GENESIS PIPELINE USA, L.P. AND GENESIS ENERGY, L.L.C." (hereinafter the "GENESIS ENTITIES") as the certificate holder or certified (by the insurer to the GENESIS ENTITIES) copies of the policies which will provide that in the event of any material changes in or cancellation of the insurance thirty days advance written notice shall be given to GENESIS.

9. **INDEMNITY.** (a) CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS GENESIS AND ITS OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES AND ANY AFFILIATED OR RELATED COMPANIES, FROM AND AGAINST ANY AND ALL SUITS, ACTIONS, LEGAL OR ADMINISTRATIVE PROCEEDINGS, CLAIMS, DEMANDS, DAMAGES, LIABILITIES, INTEREST, ATTORNEY'S FEES, COSTS AND EXPENSES OF WHATSOEVER KIND OF NATURE WHETHER ARISING BEFORE OR AFTER COMPLETION OF THE SERVICES HEREUNDER REGARDLESS OF WHETHER SUCH IS TO CONTRACTOR OR ANY OTHER PERSON OR ENTITY, AND IN ANY MANNER DIRECTLY OR INDIRECTLY CAUSED OR OCCASIONED BY REASON OF ANY NEGLIGENCE, WHETHER

ACTIVE OR PASSIVE, OF CONTRACTOR, OR OF ANYONE ACTING UNDER ITS DIRECTION, CONTROL, OR ON ITS BEHALF IN CONNECTION WITH OR INCIDENT TO THE SERVICES PERFORMED UNDER THIS CONTRACT.

NOTWITHSTANDING ANY OF THE FOREGOING, CONTRACTOR SHALL NOT BE OBLIGATED HEREUNDER TO HOLD HARMLESS OR INDEMNIFY GENESIS FOR LOSS, COST OR EXPENSE OF INCIDENT OR ACCIDENT ARISING OUT OF THE WORK AND PROXIMATELY CAUSED BY THE SOLE NEGLIGENCE OF GENESIS OR ITS EMPLOYEES OR THE COMPARATIVE OR JOINT NEGLIGENCE OF GENESIS OR ITS EMPLOYEES.

- (a) Nothing herein shall prohibit GENESIS from filing suit or obtaining a judgment against CONTRACTOR for such claim, loss, injury or damage if such is necessary in order to collect or receive payment under any such insurance carried by CONTRACTOR.
10. **Safety.** CONTRACTOR shall maintain adequate protection of persons and property during CONTRACTOR's performance hereunder. Where Services are rendered on GENESIS'S premises, all of GENESIS'S safety rules shall be strictly observed and smoking shall be limited to such locations and occasions as are specifically authorized by GENESIS.
11. **Termination.** GENESIS may, at its absolute discretion, direct the Services to be halted at any time, but where CONTRACTOR is not in default hereunder, GENESIS shall pay CONTRACTOR for all work done, in accordance with CONTRACTOR'S then current rate schedule at the time work is performed.
12. **Independent Contractor.** In the performance of all Services, CONTRACTOR is an independent contractor, with sole right to supervise, manage, control and direct the performance of the details. GENESIS is interested only in the results to be obtained, but the Services must meet with the approval of GENESIS, whose representatives shall be entitled to make such inspections of the Services and of CONTRACTOR's records relating thereto as may be necessary to assure such results and compliance with the provisions hereof.
13. **Non-Assignability and Encumbrances.** This Contract or any rights or interests or amounts which may be due hereunder shall not be transferred, assigned, sublet, pledged or encumbered without the advance written approval of GENESIS to be withheld or denied in its sole discretion. Any subcontracting permitted hereby shall not relieve CONTRACTOR of primary responsibility for any Services performed thereunder or hereunder. Any assignments, pledges, encumbrances, factoring agreements, security interests or mortgages in violation hereof shall in all respects be and remain subject to any and all claims, defenses, set offs or rights or remedies of GENESIS.
14. **Interpretation and Integration.** This Contract together with the bid documents and Exhibits which are attached hereto and incorporated herein by this reference, constitute the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the parties. No supplement, modification or waiver of this Contract shall be binding unless executed in writing by the parties hereto. No waiver of any of the provisions of this Contract shall be deemed or shall constitute a waiver of any other provisions hereof (regardless of whether similar), nor shall any such waiver constitute a continuing waiver unless otherwise expressly provided.

15. **Force Majeure.** Neither party shall be considered in default in performance of its obligation under the Contract if delayed by Force Majeure (as herein defined). Force Majeure as used herein shall mean hostilities, restraint of rulers or people, revolution, civil commotion, strike epidemic, fire, flood, windstorm, explosion, embargo, or any law, proclamation, regulation, or ordinance of any Government, or any cause, whether of the same or different nature existing or future, which is beyond the reasonable control of the parties hereto. It will be the sole responsibility of the party so affected by Force Majeure to take all reasonable steps necessary to eliminate the cause of any delay but not to the extent of assenting to unreasonable demands of any third party. Nothing herein contained shall alter or vary Genesis's right to terminate this Contract as hereinabove provided.
16. **Confidential Information.** In the performance of the Services, CONTRACTOR may be exposed to confidential information of GENESIS and others. CONTRACTOR shall not disclose to anyone not employed by GENESIS nor use, except on behalf of GENESIS, any such confidential information acquired by it in the performance of the Services except as authorized by GENESIS in writing, and regardless of the term of this Contract, CONTRACTOR shall be bound by this obligation until such time as said confidential information shall become part of the public domain. Information regarding all aspects of GENESIS'S (including its parent and its affiliates) business and information concerning the Services (either directly or indirectly disclosed to it or developed by it in the performance of the Services) shall be presumed to be confidential except to the extent that same shall have been published or otherwise made freely available to the general public without restriction CONTRACTOR also agrees that it will not disclose to GENESIS, any information it holds subject to an obligation of confidence to any third persons.
17. **Conflict of Interest and Ethics.** CONTRACTOR, in performing its obligations under this Contract, shall establish and maintain appropriate business standards, procedures and controls including those necessary to avoid any real or apparent impropriety or adverse impact on the interests of GENESIS or its affiliates.

Executed this 7th day of June, 2001

GENESIS PIPELINE TEXAS, L.P.

by and through its general partner, GENESIS ENERGY, L.L.C.

By: [Signature]

Title: DIRECTOR of SAFETY HEALTH ENVIRONMENT & TRAINING

CONTRACTOR

By: [Signature]

Title: _____

MASTER SERVICE AGREEMENT

THIS MASTER SERVICE AGREEMENT (the "Agreement") made June 29, 2012, between **United States Environmental Services, L.L.C.** located at 365 Canal Street, Suite 2520, New Orleans, LA 70130, called ("CONTRACTOR") and **Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries**, hereinafter collectively called ("GENESIS"), covers all services and work ("Services") to be performed by CONTRACTOR for or on behalf of GENESIS.

1. **Contract Document.** This Agreement shall control and govern all Services to be provided by CONTRACTOR and shall define the rights and obligations of GENESIS and CONTRACTOR with regard to the matters covered hereby, to the exclusion of verbal or written work orders, purchase orders, bids or any other writings not specifically referring to this agreement and signed by each of the parties. This Agreement supersedes any agreement concerning work or services previously entered into between GENESIS and CONTRACTOR.
2. **Time and Manner.** GENESIS may from time to time by written notice request CONTRACTOR to perform Services. CONTRACTOR shall promptly advise GENESIS whether or not it is willing to perform the requested Services. If CONTRACTOR agrees to perform such Services, it shall notify GENESIS in writing and promptly commence after the same is ordered and shall render such services with due diligence until completion in a good and workmanlike manner in accordance with standard industry practice and to GENESIS's satisfaction. Any variances or exceptions to the scope of work specified shall be identified in writing by CONTRACTOR.
3. **Items Supplies; Liens.** Except as otherwise notified by GENESIS, CONTRACTOR shall furnish all labor, services, equipment, appliances, tools, facilities, supervision, and materials necessary for the complete performance of the Services to be performed hereunder.
4. **Contract Price; Billing.** GENESIS shall pay CONTRACTOR for the Services in accordance with schedules of rates and prices or lump sum amount as specified in Exhibits hereto or as otherwise agreed upon between GENESIS and CONTRACTOR, such agreement referencing this Agreement. Prices or rates shall not be increased without prior written approval from GENESIS. GENESIS shall pay CONTRACTOR for completed services within 30 days of receipt of the invoice subject to 10% retention of invoice amount. Payment of the retainage will be made upon GENESIS's receipt of CONTRACTOR'S affidavit of completion including lien releases from Sub-Contractors and suppliers.
5. **Inspection.** GENESIS and its representatives shall have the right to witness all *Services being performed hereunder.*

6. **Examination of Premises, etc.** Prior to the commencement of Services, CONTRACTOR will make sufficient examination and tests of the premises and facilities at which the Services are to be undertaken to determine the difficulties and hazards incident to rendering Services and to satisfy itself as to the procedures to be followed, the adequacy of available safety equipment and other requirements necessary or appropriate to the performance of the Services.
7. **Compliance with Laws.** CONTRACTOR will obtain all necessary permits and licenses and will comply with applicable government laws, rules, regulations, executive orders, priorities, ordinances and restrictions now or hereafter in force (including, but not limited to Federal and State labor, health and safety and nondiscrimination laws, regulations and executive orders) in rendering Services. CONTRACTOR will furnish GENESIS any documentation required to evidence such compliance and will file with governmental agencies any reports required to be filed by CONTRACTOR. If CONTRACTOR is required to meet the requirements of Title 49, Part 195, Subpart G Qualification of Pipeline Personnel, 195.501 – 195.509 to perform certain services on Genesis regulated property, CONTRACTOR shall subscribe to and shall maintain current records on ISNetworld so long as CONTRACTOR is performing such services for GENESIS.
8. **Insurance.** During the performance of the Services hereunder, CONTRACTOR shall take out, carry and maintain, with an insurance company or companies approved by GENESIS, and in policies of insurance acceptable to GENESIS, the following insurance sufficient to address the liabilities that may be generated by the Services. All liability policies shall be on an occurrence basis with limits not less than those shown below:
 - (a) **Workers Compensation and Occupational Disease Insurance.** Workers Compensation and Occupational Disease Insurance, including coverage under the Longshoremen and Harbor Workers' Compensation Act and the Jones Act (if applicable) and Employer's Liability Insurance with limits complying with the laws of the State in which such Services are to be rendered.
 - (b) **Comprehensive General Liability Insurance.** Comprehensive General Liability Insurance, including Premises, Operations, Explosion, Collapse and Underground Damage, and Contractual Liability (including this Agreement with Genesis) with policy limits not less than \$2,000,000 in the aggregate, and \$1,000,000 combined single limit personal injury each occurrence and \$1,000,000 property damage each occurrence.
 - (c) **Automobile Liability Insurance.** Automobile Liability Insurance, including Contractual Liability, covering all motor vehicles owned, hired or used while rendering Services with limits not less than \$1,000,000, combined single limit personal injury and property damage each occurrence.

(d) Excess Liability. Excess Liability Insurance with a limit of at least \$4,000,000 per occurrence, including but not limited to (i) Excess Employers Liability Insurance, (ii) Commercial General Liability Insurance and (iii) Automobile Liability Insurance.

CONTRACTOR hereby waives rights of subrogation against GENESIS and all insurance policies mentioned above shall contain a waiver of subrogation in favor of GENESIS. Before commencing Services, CONTRACTOR shall furnish GENESIS for its approval and retention, Certificates of Insurance naming "Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries" (hereinafter the "GENESIS ENTITIES") as the certificate holder and additional named insured, further providing that in the event of any material changes in or cancellation of the insurance thirty days advance written notice shall be given to GENESIS. If CONTRACTOR cannot provide such thirty days advance written notice due to the revised Acord form which requires language substantially similar to "Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions," then GENESIS reserves the right to require updated certificates of insurance prior to making payment(s) to CONTRACTOR for Services.

9. **INDEMNITY. CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS GENESIS AND ITS OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES AND ANY AFFILIATED OR RELATED COMPANIES, FROM AND AGAINST ANY AND ALL SUITS, ACTIONS, LEGAL OR ADMINISTRATIVE PROCEEDINGS, CLAIMS, DEMANDS, DAMAGES, LIABILITIES, INTEREST, ATTORNEY'S FEES, COSTS AND EXPENSES OF WHATSOEVER KIND OR NATURE ARISING OUT OF ANY BODILY INJURY (INCLUDING DEATH), PROPERTY DAMAGE, OR ECONOMIC DAMAGE, WHETHER ARISING BEFORE OR AFTER COMPLETION OF THE SERVICES HEREUNDER AND WHICH ARE IN ANY MANNER DIRECTLY OR INDIRECTLY CAUSED OR OCCASIONED BY REASON OF ANY INTENTIONAL MISCONDUCT OR NEGLIGENCE, WHETHER ACTIVE OR PASSIVE, OF CONTRACTOR OR OF ANYONE ACTING UNDER ITS DIRECTION, CONTROL, OR ON ITS BEHALF IN CONNECTION WITH OR INCIDENT TO THE SERVICES PERFORMED UNDER THIS AGREEMENT.**

NOTWITHSTANDING ANY OF THE FOREGOING, CONTRACTOR SHALL NOT BE OBLIGATED HEREUNDER TO HOLD HARMLESS OR INDEMNIFY GENESIS FOR LOSS, COST OR EXPENSE OF INCIDENT OR ACCIDENT ARISING OUT OF THE WORK AND PROXIMATELY CAUSED BY THE GROSS NEGLIGENCE OF GENESIS OR ITS EMPLOYEES. NO INDEMNITY, HOLD HARMLESS, OR AGREEMENT TO DEFEND PROVIDED HEREIN WITH RESPECT TO AN OIL

POLLUTION INCIDENT SUBJECT TO THE OIL POLLUTION ACT OF 1990 (OPA), AS AMENDED, SHALL OBLIGATE CONTRACTOR TO PROTECT, INDEMNIFY, HOLD HARMLESS, OR DEFEND COMPANY FROM LIABILITY FOR OIL POLLUTION REMOVAL COSTS OR DAMAGES. IT IS EXPRESSLY UNDERSTOOD AND AGREED BY THE PARTIES THAT OPA PROVIDES THAT A RESPONSIBLE PARTY CANNOT TRANSFER OPA LIABILITY TO AN OIL SPILL RESPONSE ORGANIZATION AND THAT WHILE ACTING IN SUCH A CAPACITY, THAT THE CONTRACTOR IS IMMUNE FROM LIABILITY FOR ACTIONS TAKEN OR OMITTED TO BE TAKEN IN THE COURSE OF RENDERING ASSISTANCE, CARE, OR ADVISE CONSISTENT WITH THE NATIONAL CONTINGENCY PLAN OR AS DIRECTED BY THE PRESIDENT.

Nothing herein shall prohibit GENESIS from filing suit or obtaining a judgment against CONTRACTOR for such claim, loss, injury or damage if such is necessary in order to collect or receive payment under any such insurance carried by CONTRACTOR.

10. **Safety.** CONTRACTOR shall maintain adequate protection of persons and property during CONTRACTOR's performance hereunder. Where Services are rendered on GENESIS'S premises, all of GENESIS'S safety rules shall be strictly observed and smoking shall be limited to such locations and occasions as are specifically authorized by GENESIS. Contractor shall be solely responsible for the safety of the work and its employees. The possession and/or use of illegal or unauthorized drugs, intoxicating beverages, firearms or other weapons is prohibited on all GENESIS property. To insure the safety of persons and to prevent the loss of GENESIS property, GENESIS may, but is not required to, conduct security inspections or searches at random. GENESIS shall have the right to search the person, personal effects or vehicle of any person on GENESIS property to enforce compliance with this policy. Persons found to be in violation of this policy will be immediately removed and barred from GENESIS property. Illegal or unauthorized drugs, intoxicating beverages, firearms, or other weapons discovered as a result of any such inspection may be confiscated and turned over to law enforcement officers at GENESIS's discretion.
11. **Termination.** GENESIS may, at its absolute discretion, direct the Services to be halted at any time, but where CONTRACTOR is not in default hereunder, GENESIS shall pay CONTRACTOR for all work completed in accordance with the approved price schedule.
12. **Independent Contractor.** In the performance of all Services, CONTRACTOR is an independent contractor, with the sole right to supervise, manage, control and direct the performance of the details. GENESIS is interested only in the results to be obtained, but the Services must meet with the approval of GENESIS, whose representatives shall be entitled to make such inspections of the Services and of

CONTRACTOR's records relating thereto as may be necessary to assure such results and compliance with the provisions hereof.

13. **Non-Assignability and Encumbrances.** This Agreement or any rights or interests or amounts which may be due hereunder shall not be transferred, assigned, sublet, pledged or encumbered without the advance written approval of GENESIS to be withheld or denied in its sole discretion. Any subcontracting permitted hereby shall not relieve CONTRACTOR of primary responsibility for any Services performed thereunder or hereunder. Any assignments, pledges, encumbrances, factoring agreements, security interests or mortgages in violation hereof shall in all respects be and remain subject to any and all claims, defenses, set offs or rights or remedies of GENESIS
14. **Interpretation and Integration.** This Agreement, together with the Exhibits which are attached hereto and incorporated herein by this reference, constitutes the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the parties. No supplement, modification or waiver of this Agreement shall be binding unless executed in writing by the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provision hereof (regardless of whether similar), nor shall any such waiver constitute a continuing waiver unless otherwise expressly provided.
15. **Governing Law.** The parties hereto agree that all of the provisions of this Agreement and any questions concerning its interpretation and enforcement shall be governed by the laws of the state in which the services or work are performed, without regard to its principles of conflicts of law.
16. **Force Majeure.** Neither party shall be considered in default in performance of its obligation under the Agreement if delayed by Force Majeure (as herein defined). Force Majeure as used herein shall mean hostilities, restraint of rulers or people, revolution, civil commotion, strike, epidemic, fire, flood, windstorm, explosion, embargo, or any law, proclamation, regulation, or ordinance of any Government, or any cause, whether of the same or different nature, existing or future, which is beyond the reasonable control of the parties hereto. It will be the sole responsibility of the party so affected by Force Majeure to take all reasonable steps necessary to eliminate the cause of any delay but not to the extent of assenting to unreasonable demands of any third party. Nothing herein contained shall alter or vary Genesis's right to terminate this Agreement as hereinabove provided.
17. **Headings.** Section headings or titles are included for ease of reference and do not constitute any part of the text or affect its meaning or interpretation.

18. **Severability.** If any provision herein is or becomes invalid or illegal in whole or in part, such provisions shall be deemed amended, as nearly as possible to be consistent with the intent expressed in this Master Service Agreement, and if such is impossible, that provision shall fall by itself without invalidating any of the remaining provisions not otherwise invalid or illegal.
19. **Confidential Information.** In the performance of the Services, CONTRACTOR may be exposed to confidential information of GENESIS and others. CONTRACTOR shall not disclose to anyone not employed by GENESIS nor use, except on behalf of GENESIS, any such confidential information acquired by it in the performance of the Services except as authorized by GENESIS in writing, and regardless of the term of this Agreement, CONTRACTOR shall be bound by this obligation until such time as said confidential information shall become part of the public domain. Information regarding all aspects of GENESIS'S (including its parent and its affiliates) business and information concerning the Services (either directly or indirectly disclosed to it or developed by it in the performance of the Services) shall be presumed to be confidential except to the extent that same shall have been published or otherwise made freely available to the general public without restriction. CONTRACTOR also agrees that it will not disclose to GENESIS any information it holds subject to an obligation of confidence to any third persons.
20. **Conflict of Interest and Ethics.** CONTRACTOR, in performing its obligations under this Agreement, shall establish and maintain appropriate business standards, procedures and controls including those necessary to avoid any real or apparent impropriety or adverse impact on the interests of GENESIS or its affiliates.

Executed this 11 day of July, 2012.

Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries

By: [Signature]

Title: VP/Gen Processes and Information

CONTRACTOR

United States Environmental Services, L.L.C.

By: [Signature]

Title: CAO/Secretary

OSRO CLASSIFICATIONS

United States Environmental Services, L.L.C.
2809 E. Judge Perez Drive, P.O. Box 949
Meraux, LA 70075
OSRO 38

COTP Zone	Operating Environment	Facility MMPD	Facility WCD1	Facility WCD2	Facility WCD3	Vessel MMPD	Vessel WCD1	Vessel WCD2	Vessel WCD3
Corpus Christi, TX	River or Canal	~	~	X	X	~	~	X	X
Corpus Christi, TX	Inland	~	~	X	~	~	~	X	~
Houston, TX	River or Canal	~	~	X	X	X	X	X	X
Houston, TX	Inland	~	~	X	~	X	~	X	~
Huntington, WV	River or Canal	~	~	X	X	X	X	X	X
Huntington, WV	Inland	~	~	X	~	X	X	X	~
Lower Mississippi River	River or Canal	X	X	X	X	X	X	X	X
Lower Mississippi River	Inland	X	X	X	~	X	X	X	~
Mobile, AL	River or Canal	X	X	X	X	X	X	X	X
Mobile, AL	Inland	X	X	X	~	X	X	X	~
Mobile (Panama City, FL)	River or Canal	X	X	X	X	X	X	X	X
Mobile (Panama City, FL)	Inland	X	X	X	~	X	X	X	~
Morgan City, LA	River or Canal	X	X	X	X	X	X	X	X
Morgan City, LA	Inland	X	X	X	~	X	X	X	~
New Orleans, LA	River or Canal	X	X	X	X	X	X	X	X
New Orleans, LA	Inland	X	X	X	~	X	X	X	~
Ohio Valley	River or Canal	~	~	X	X	X	X	X	X
Ohio Valley	Inland	~	~	X	~	X	X	X	~
Paducah, KY	River or Canal	X	X	X	X	X	X	X	X
Paducah, KY	Inland	~	~	X	~	X	X	X	~
Pittsburg, PA	River or Canal	~	~	X	X	X	~	X	X
Pittsburg, PA	Inland	~	~	X	~	~	~	X	~
Port Arthur, TX	River or Canal	X	~	X	X	X	X	X	X
Port Arthur, TX	Inland	X	~	X	~	X	X	X	~
St. Petersburg, FL	River or Canal	~	~	X	X	X	X	X	X
St. Petersburg, FL	Inland	~	~	X	~	X	X	X	~
Upper Mississippi River	River or Canal	~	~	X	X	X	X	X	X
Upper Mississippi River	Inland	~	~	X	~	X	X	X	~

February 2012

NOTE: The U. S. Coast Guard no longer issues letters confirming OSRO classifications.

Current classifications are available at: <https://cgrri.uscg.mil/UserReports/WebClassificationReport.aspx>

Date: 12/29/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation						
Date(s):		2-Sep	Year:	2011	Office:	USES Mobile, AL
Actual Response	X	Announced Exercise		Unannounced Exercise		
QI Notification		SMT Table Top		Equipment Deployment	X	
Scenario, Location: Barge leaking at the Stern and lost approximately 100 barrels of Crude into Three Mile Creek.						
Time Started:		7:00	9/2/2011	Time Completed:		17:00 9/18/2011
Which Response Plan components were exercised? (Check each that applies)						
Notifications	X	Staff Mobilization	X	Response Management System	X	
Discharge Control		Assessment	X	Containment	X	
Recovery	X	Protection	X	Disposal	X	
Communications	X	Transportation	X	Personnel Support	X	
Equipment Maintenance/Support	X	Procurement	X	Documentation	X	
Actions: USES deployed 2000 ft of boom in the Mobile River to help protect barges and wet lands from a 40000 gallon oil spill from a tank failure at Gulf Coast Asphalt. USES was one of five different contractors working on this response. USES also deployed two 24 inch drum skimmers and 7 work boats and 14 men.						
Deployed Equipment was:		Facility-owned		OSRO-owned	X	Both
Equipment Type					Amount	
18inch containment boom and trailers					2000	
7-26 ft Deck Boats					7	
2- 24 inch Drum Skimmers					2	
7- Hot Water machine for decon of barges					7	
Personnel Titles					Number	
Supervisors					1	
Technicians					6	
Boat Operators					7	
Deployment Goals: Boom was deployed to help protect barges and wet lands. USES worked on deconning all barges on the Mobile River.						
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A	
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					Yes	
Was the equipment deployed in its intended operating environment?					Yes	
Are all personnel responsible for response operations in a comprehensive training program?					Yes	
Describe. Personnel maintain 40-Hour HAZWOPER qualification and receive equipment and spill training.					Yes	
Is all response equipment covered by a comprehensive maintenance program?					Yes	
Describe. Equipment is maintained per manufacturer's recommendations.					Yes	
Was all deployed equipment operational? Describe any equipment failures.					Yes	
Lessons Learned			Follow Up			
Description			Name		Due Date	
No corrective action required						

Certifying Signature: _____



Date: 12/7/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 7-Jun		Year: 2011		Office: USES Birmingham	
Actual Response		Announced Exercise	X	Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	X
Scenario, Location: Approximately 100,000 gallons of gasoline was released into the river from a ruptured tank.					
Time Started: 8:00		Time Completed: 17:30			
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization	X	Response Management System	X
Discharge Control	X	Assessment	X	Containment	X
Recovery	X	Protection	X	Disposal	X
Communications	X	Transportation	X	Personnel Support	X
Equipment Maintenance/Support	X	Procurement	X	Documentation	X
Actions, Results: Deployment of boom to permit gasoline recovery. Observed boom placement and retrieval. Deployed vacuum truck and skimmer to recover and store gasoline from water.					
Deployed Equipment was:		Facility-owned		OSRO-owned	
		Equipment Type		Amount	
		18" Containment Boom		1100 Feet	
		16' John Boat w/ 20-HP Motor		2	
		ER Trailer w/ Drum Skimmer		1	
		80-Barrel Vacuum Truck		1	
		4X4 Pickup Truck		1	
		Personnel Titles		Number	
		Supervisor		1	
		Recovery Technician		2	
		Boat Operator		2	
Deployment Goals: Attach sketch of deployments, booming strategies. Deployed boom to contain and recover gasoline at the source.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					Yes
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Personnel maintain current 40-Hour HAWOPER qualifications and receive response and equipment training.					Yes
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. All equipment is maintained per manufacturer's specifications.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No deficiencies noted					

 Certifying Signature: /s/Kenny Owen, Division Manager

 Date: 12/29/2011

Date: 12/29/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation

Date(s): 1/26/2011 Year: 2011 Office: USES Jackson, MS

Actual Response	x	Announced Exercise		Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	

Scenario, Location: USES personnel Mobilized to Brookhaven, MS to Denbury Onshore's Mallalieu Facility to an oil spill in Jordan Creek. USES personnel deployed 250 ft of 4" to 6" boom

Time Started: 16:00 Time Completed: 19:00

Which Response Plan components were exercised? (Check each that applies)

Notifications		Staff Mobilization		Response Management System	
Discharge Control		Assessment		Containment	x
Recovery	x	Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	

Actions, Results: USES personnel placed containment boom in Jordan Creek near the Mallalieu Facility in response to an oil spill from a ruptured inhibitor oil line.

Deployed Equipment was:	Facility-owned		OSRO-owned	x	Both	
Equipment Type					Amount	
4"to 6" Containment boom					250 ft	
24" drum skimmer					1	
Personnel Titles					Number	
Project Manager					1	
Recovery Technician					9	

Deployment Goals: Attach sketch of deployments, booming strategies.

Was adequate FACILITY-owned equipment deployed to respond to AMPD?	N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?	No
Was the equipment deployed in its intended operating environment?	Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe. Yes- Personnel have current HAZWOPER qualifications, and specific training on response equipment.	Yes
Is all response equipment covered by a comprehensive maintenance program? Describe. Yes- all equipment is maintained according to manufacture recommendations.	Yes
Was all deployed equipment operational? Describe any equipment failures.	Yes

Lessons Learned	Follow Up	
Description	Name	Due Date
No Corrective Actions Required		

Certifying Signature: _____

Date: 12/28/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 4/6/2011		Year: 2011		Office: USES Jackson, MS	
Actual Response		Announced Exercise	x	Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	
Scenario, Location: USES personnel mobilized to Vicksburg, MS to Bungee- Ergon Facility and deployed 300 ft of 18" boom					
Time Started: 9:30		Time Completed: 13:00			
Which Response Plan components were exercised? (Check each that applies)					
Notifications		Staff Mobilization		Response Management System	
Discharge Control		Assessment		Containment	x
Recovery		Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	
Actions, Results: USES personnel placed containment boom in the port of Vicksburg, MS.					
Deployed Equipment was:		Facility-owned		OSRO-owned	x
		Both			
Equipment Type					Amount
18" Containment boom					300Ft
70-80 Barrel Vacuum truck					1
Oil Spill Trailer					1
Vessel less than 16", less than 50 HP					1
Personnel Titles					Number
Project Manager					1
Recovery Technician					4
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					No
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Yes- Personnel have current HAZWOPER qualifications, and specific training on response equipment.					Yes
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. Yes- all equipment is maintained according to manufacture recommendations.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No Corrective Actions Required					

Certifying Signature: _____

Date: 12/28/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 4/6/2011		Year: 2011		Office: USES Jackson, MS	
Actual Response		Announced Exercise	x	Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	
Scenario, Location: USES personnel mobilized to Vicksburg, MS to Hunt Southland Facility and deployed 300 ft of 18" boom					
Time Started: 13:30		Time Completed: 17:30			
Which Response Plan components were exercised? (Check each that applies)					
Notifications		Staff Mobilization		Response Management System	
Discharge Control		Assessment		Containment	x
Recovery		Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	
Actions, Results: USES personnel placed containment boom in the port of Vicksburg, MS.					
Deployed Equipment was:		Facility-owned		OSRO-owned	x
		Both			
Equipment Type					Amount
18" Containment boom					300Ft
70-80 Barrel Vacuum truck					1
Oil Spill Trailer					1
Vessel less than 16", less than 50 HP					1
Personnel Titles					Number
Project Manager, Recovery Technicians					1
Recovery Technician					4
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					No
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe. Yes- Personnel have current HAZWOPER qualifications, and specific training on response equipment.					Yes
Is all response equipment covered by a comprehensive maintenance program? Describe. Yes- all equipment is maintained according to manufacture recommendations.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No Corrective Actions Required					

Certifying Signature: _____

Date: 12/28/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 6/14/2011		Year: 2011		Office: USES Jackson, MS	
Actual Response	x	Announced Exercise		Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	
Scenario, Location: USES personnel mobilized to Vicksburg, MS to Big River Ship Builders Facility and deployed 400 ft of 18" boom around a sinking vessel.					
Time Started: 7:00		Time Completed: 10:00			
Which Response Plan components were exercised? (Check each that applies)					
Notifications		Staff Mobilization		Response Management System	
Discharge Control		Assessment		Containment	x
Recovery	x	Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	
Actions, Results: USES personnel placed containment boom in the port of Vicksburg, MS. Spill area contained and released material has been recovered.					
Deployed Equipment was:		Facility-owned		OSRO-owned	x
		Both			
Equipment Type					Amount
18" Containment boom					400Ft
70-80 Barrel Vacuum truck					1
Oil Spill Trailer					1
Vessel less than 16", less than 50 HP					1
Personnel Titles					Number
Foreman					1
Recovery Technician					4
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					No
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Yes- Personnel have current HAZWOPER qualifications, and specific training on response equipment.					Yes
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. Yes- all equipment is maintained according to manufacture recommendations.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No Corrective Actions Required					

 Certifying Signature: 

Date: 12/28/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s):	9/13/2011	Year:	2011	Office:	USES Jackson, MS
Actual Response		Announced Exercise	x	Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	
Scenario, Location: USES personnel mobilized to Vicksburg, MS to CITGO Petroleum and deployed 500 ft of 18" boom.					

Time Started: 7:00 Time Completed: 10:00
Which Response Plan components were exercised? (Check each that applies)

Notifications		Staff Mobilization		Response Management System	
Discharge Control		Assessment		Containment	x
Recovery		Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	

Actions, Results: USES personnel placed 500 ft of 18" containment boom in the port of Vicksburg, MS.

Deployed Equipment was:	Facility-owned		OSRO-owned	x	Both	
	Equipment Type				Amount	
	18" Containment boom				500Ft	
	Vessel less than 16", less than 50 HP				1	

Personnel Titles	Number
Project Manager	1
Recovery Technician	3

Deployment Goals: Attach sketch of deployments, booming strategies.

Was adequate FACILITY-owned equipment deployed to respond to AMPD?	N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?	No
Was the equipment deployed in its intended operating environment?	Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe. Yes- Personnel have current HAZWOPER qualifications, and specific training on response equipment.	Yes
Is all response equipment covered by a comprehensive maintenance program? Describe. Yes- all equipment is maintained according to manufacture recommendations.	Yes
Was all deployed equipment operational? Describe any equipment failures.	Yes

Lessons Learned	Follow Up	
Description	Name	Due Date
No Corrective Actions Required		

Certifying Signature: _____

Date: 12/28/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 24-May		Year: 2011		Office: USES Southaven, MS	
Actual Response	X	Announced Exercise		Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	X
Scenario, Location: Mississippi River approximately 7 miles south of Helena, AR, bridge. Diesel tank on land trailer, trailer leg failed and tank rolled into drainage channel, releasing diesel fuel.					
Time Started: 4:00		Time Completed: 12:00 5/27/2011			
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization	X	Response Management System	
Discharge Control	X	Assessment	X	Containment	X
Recovery	X	Protection	X	Disposal	X
Communications		Transportation		Personnel Support	X
Equipment Maintenance/Support		Procurement		Documentation	X
Actions, Results: Deployed boom to contain 2,000 gallon diesel fuel spill in the channel, prevented fuel from further migration. Deployed two skimmers to recover fuel, picked up recovered oil with vacuum trucks. On site storage of fuel in frac tanks.					
Deployed Equipment was:		Facility-owned		OSRO-owned	X
		Equipment Type		Amount	
John Boat				2	
18" River Containment Boom - 1800' Boom on trailer				300'	
6" Containment Boom				300'	
Oil Skimmer				2	
70-Barrel Vacuum Truck				2	
130-Barrel Vacuum Truck				2	
500-Barrel Frac Tank				4	
		Personnel Titles		Number	
Foreman				2	
Tech				30	
Supervisor				1	
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					No
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe. Personnel maintain 40-Hour HAZWOPER qualification and receive equipment- and spill-specific training.					Yes
Is all response equipment covered by a comprehensive maintenance program? Describe. All equipment is maintained per manufacturer's recommendations					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No corrective actions required					

Certifying Signature: /s/ Dwayne Gilliam, Operations Manager

Date: 12/29/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 20-Dec		Year: 2011		Office: USES Southaven, MS	
Actual Response		Announced Exercise	X	Unannounced Exercise	
QI Notification	X	SMT Table Top		Equipment Deployment	X
Scenario, Location: Drill, Lake Washington, Greenville, MS					
Time Started: 7:00		Time Completed: 17:00			
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization		Response Management System	X
Discharge Control		Assessment		Containment	
Recovery		Protection		Disposal	
Communications		Transportation		Personnel Support	
Equipment Maintenance/Support		Procurement		Documentation	X
Actions, Results: Equipment deployment for personnel training and annual certification.					
Deployed Equipment was:		Facility-owned		OSRO-owned	X
		Both			
Equipment Type					Amount
24' Response Boat, Twin 90-HP					1
18" River Containment Boom					200'
Personnel Titles					Number
Foreman					1
Technician					2
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					No
Was the equipment deployed in its intended operating environment?					N/A
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Personnel maintain 40-Hour HAZWOPER qualification and receive equipment- and spill-specific training.					
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. All equipment is maintained per manufacturer's recommendations					
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No corrective actions required					

 Certifying Signature: /s/ Dwayne Gilliam, Operations Manager

 Date: 12/29/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s):	7/15/2011	Year:	2011	Office:	Little Rock
Actual Response	X	Announced Exercise		Unannounced Exercise	
QI Notification		SMT Table Top		Equipment Deployment	
M/V Victoria (Inland Tug) took on water flooding engine room, releasing oil and diesel into Lock 15 on the Arkansas River outside of Salisaw, Oklahoma. Lock 15 was unable to be closed. Allowing sheen to move into adjoining lake.					
Time Started:		6:00 am	Time Completed:		9:30 pm
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization	X	Response Management System	
Discharge Control		Assessment	X	Containment	X
Recovery	X	Protection	X	Disposal	X
Communications	X	Transportation	X	Personnel Support	X
Equipment Maintenance/Support		Procurement		Documentation	X
Arrived on scene and completed walk around and scene size-up. Within 15 minutes of arrival crew deployed 500 feet of absorbent boom to protect lake from sheen. Hard boom arrived and 700' was deployed initially to reinforce absorbent boom. Additional 300' of hard boom was deployed around stern of M/V Victoria once lake side of lock was secured. Oil Skimmer was placed in area and used briefly but could not be adequately utilized due to constraints of the location and spill being between multiple barges and the tug while still inside of the lock. Contaminant was padded up and disposed of by OSRO.					
Deployed Equipment was:		Facility-owned		OSRO-owned	X
Equipment Type		Amount			
18' Containment boom		1,000'			
Vessel 32' twin 150 hp (300 hp total)		1			
8" x 10' absorbent boom		960'			
Oil Skimmer		1			
Personnel Titles		Number			
Health and Safety Manager		1			
Foreman		1			
Recovery Technician		7			
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					Yes
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program? Describe.					Yes
Is all response equipment covered by a comprehensive maintenance program? Describe.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date

 Certifying Signature:

 Date: 7-15-11

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 5-Oct		Year: 2011		Office: USES Nashville, TN	
Actual Response		Announced Exercise	X	Unannounced Exercise	
QI Notification		SMT Table Top	X	Equipment Deployment	X
Scenario, Location: BP Terminal, Nashville, TN- Oil in creek heading to Cumberland River keep oil and chemicals from migrating in to the Cumberland River.					
Time Started: 8:00		Time Completed: 16:30			
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization	X	Response Management System	X
Discharge Control	X	Assessment	X	Containment	X
Recovery	X	Protection	X	Disposal	X
Communications	X	Transportation	X	Personnel Support	X
Equipment Maintenance/Support		Procurement	X	Documentation	
Actions, Results: USES mobilized personnel and equipment (boat and boom) to contain and secure simulated oil spillage from migrating in to the Cumberland River. No recovery due to simulation of spill.					
Deployed Equipment was:		Facility-owned		OSRO-owned	X
		Both			
Equipment Type					Amount
16' John Boat with 90 HP engine.					1
Ford F350					1
18" River Boom					1000
Personnel Titles					Number
Forman					1
Technician					2
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					Yes
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Personnel are trained through out the year in joint efforts with the BP, USACOE and USES training course.					Yes
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. All equipment is inspected after use and each month.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date
No corrective action required					

 Certifying Signature: /s/ Todd Taylor, Division Manager

 Date: 12/27/2011

United States Environmental Services, L.L.C. - PREP Exercise Evaluation					
Date(s): 3-Nov		Year: 2011		Office: USES Nashville, TN	
Actual Response	X	Announced Exercise		Unannounced Exercise	
QI Notification	X	SMT Table Top		Equipment Deployment	X
Scenario, Location: Old Hickory Lake, near Dupont wharf area					
Time Started: 11:00		Time Completed: 16:30			
Which Response Plan components were exercised? (Check each that applies)					
Notifications	X	Staff Mobilization	X	Response Management System	
Discharge Control	X	Assessment	X	Containment	X
Recovery	X	Protection	X	Disposal	X
Communications	X	Transportation	X	Personnel Support	X
Equipment Maintenance/Support		Procurement		Documentation	X
<p>Actions, Results: USES mobilized personnel and equipment (boat) to assist with deployment of boom to contain and secure oil and fuel released from the shore line piping at the Dupont Facility at Old Hickory Lake and prevent migration to the Cumberland River. Recovery was made with boom and pads. Boom and pads were collected and disposed of on site at the Dupont facility.</p>					
Deployed Equipment was:		Facility-owned		OSRO-owned	X
		Equipment Type		Amount	
16' John Boat with 90 HP engine.				1	
Ford F350				1	
18" River Boom				1000'	
Sorbent Boom				3 bales	
Pads				2 bales	
		Personnel Titles		Number	
Forman				1	
Technician				1	
Deployment Goals: Attach sketch of deployments, booming strategies.					
Was adequate FACILITY-owned equipment deployed to respond to AMPD?					N/A
Was at least 1000' of each type of boom and one of each type of skimmer deployed from OSRO-owned equipment?					Yes
Was the equipment deployed in its intended operating environment?					Yes
Are all personnel responsible for response operations in a comprehensive training program?					Yes
Describe. Personnel are trained through out the year in joint efforts with the BP, USACOE and USES training course.					Yes
Is all response equipment covered by a comprehensive maintenance program?					Yes
Describe. All equipment is inspected after use and each month.					Yes
Was all deployed equipment operational? Describe any equipment failures.					Yes
Lessons Learned			Follow Up		
Description			Name		Due Date

 Certifying Signature: /s/ Todd Taylor, Division Manager

 Date: 12/27/2011



EMERGENCY RESPONSE EQUIPMENT LIST

24-Hour Emergency Number: 888-279-9930

<p><u>COMPANY HEADQUARTERS</u> 24-Hour Emergency Numbers: 888-279-9930 (or) 504-279-9930 365 Canal Street, Suite 2520 New Orleans, Louisiana 70130 Fax: 504-566-8309</p>	<p><u>BEACH, NORTH DAKOTA</u> 24-Hour Emergency Numbers: 701-872-2122 16950 Thelen Road Beach, North Dakota 58621</p>
<p><u>BATON ROUGE, LOUISIANA</u> 24-Hour Emergency Numbers: 888-267-4901 (or) 225-673-4200 6338 Highway 73 Geismar, Louisiana 70734 Fax: 225-677-9549</p>	<p><u>NEW ORLEANS, LOUISIANA</u> 24-Hour Emergency Numbers: 504-279-9934 2809 East Judge Perez Drive Meraux, Louisiana 70075 Fax: 504-279-7756</p>
<p><u>VENICE, LOUISIANA</u> 24-Hour Emergency Number: 504-534-2744 42156 Hwy. 23 South Venice, Louisiana 70091 Fax: 504-534-7042</p>	<p><u>SHREVEPORT, LOUISIANA</u> 24-Hour Emergency Number: 318-861-0880 9435 St. Vincent Avenue Shreveport, Louisiana 71106</p>
<p><u>JACKSON, MISSISSIPPI</u> 24-Hour Emergency Number: 601-372-3232 1075 Mendell Davis Drive Jackson, Mississippi 39272 Fax: 601-372-3356</p>	<p><u>BILOXI, MISSISSIPPI</u> 24-Hour Emergency Number: 228-396-3866 13032 Highway 67 North Biloxi, Mississippi 39532 Fax: 228-396-3836</p>
<p><u>LITTLE ROCK, ARKANSAS</u> 24-Hour Emergency Number: 501-945-0092 261 Newman Drive N Little Rock, Arkansas 72117 Fax: 501-945-0202</p>	<p><u>MEMPHIS, TENNESSEE</u> 24-Hour Emergency Numbers: 866-281-3232 (or) 662-280-3232 1855 Veterans Drive Southaven, Mississippi 38671 Fax: 662-280-3011</p>
<p><u>BIRMINGHAM, ALABAMA</u> 24-Hour Emergency Number: 205-663-8737 228 Regency Park Alabaster, Alabama 35007 Fax: 205-663-4404</p>	<p><u>MOBILE, ALABAMA</u> 24-Hour Emergency Number: 251-662-3500 3750 Halls Mill Road Mobile, Alabama 36693 Fax: 251-662-3400</p>
<p><u>LAREDO, TEXAS</u> 24-Hour Emergency Number: 877-398-9911 4401 Highway 359, Suite 1 Laredo, Texas 78046 Fax: 956-722-9914</p>	<p><u>HOUSTON, TEXAS</u> 24-Hour Emergency Number: 281-867-4100 950 Seaco Ave. Deer Park, Texas 77536 Fax: 281-867-4101</p>

RESPONSE EQUIPMENT (Geismar, Louisiana and Service Locations)**Containment Boom, Geismar, Louisiana**

Qty. (ft.)	Model	Size	Description
1,000	River	18"	Quick Connect, 100 ft. sections, 22 oz. Fabric

Vacuum Trucks & Skimmers (*Effective Daily Recovery Capacity, Derated to 20% Efficiency per NVIC 7-92), Geismar, Louisiana

Qty.	Type	EDRC* (Barrels)	Description
1	Pelican	240	24" Aluminum Weir Skimmer
1	Vacuum Truck	500	80-Barrel Capacity

Temporary Storage Capacity, Geismar, Louisiana (Minimum in Inventory)

Qty.	Type	Capacity	Description
10	Overpack Drums	95 Gal.	Polyethylene
10	Overpack Drums	85 Gal.	Steel
25	Open Top Drums	55 Gal.	

Vessels and Motors, Geismar, Louisiana

Qty.	Type	Size, ft.	HP	MPH	Range, Mi.	Lbs.	Crew Size
3	Jon Boats	16	25	25	30	1,000	2

Transportation Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
6	Stake Trucks	1	32' HazMat Response Trailer/Chemical Transfer Unit
18	Pick-up Trucks	1	20' Equipment Trailer for Hydrocarbon Spills
2	4-WD ATVs with trailer	1	24' Remediation/Construction Trailer
1	20' Boom Trailer	1	12' Remediation/Construction Trailer
1	32' Industrial Division Trailer	1	20' Industrial Division Trailer

Supplies, Consumable, Geismar, Louisiana (Minimum in Inventory)

Qty.	Description	Qty.	Description
25	Bales, Absorbent Boom	40	Bags, Absorbent Particulate
50	Bales, Absorbent Pads	15	Boxes, Oil Snare

Personal Protective Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
6	Level A Suits	36	Pair, PVC Gloves
40	NexGen Suits	48	Pair, Nitrile Gloves
24	Level B Suit, CPF2	12	Pair, Silver Shield Gloves
32	Level B Suit, CPF3	12	Pair, Silver Shield Booties
40	Poly-Coated Tyvek Suits	20	Latex Booties
6	Bunker Gear (used for fire fighting)	500	Pair, Inner Gloves

Respiratory Protective Equipment, Geismar, Louisiana

Qty.	Description
8	MSA Self-Contained Breathing Apparatus
8	MSA 60-Minute Spare Bottles
20	MSA Ultra Twin Respirators, Full Face

Safety Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
1	4 Gas Passport with Chlorine Sensor	1	LEL/O ₂ /H ₂ S Meter
2	Draeger Pump	2	Rae Entryrae
2	Multi Rae Plus 4-Gas with PID	1	MSA Passport
1	ITX Multi Gas with Chlorine	1	Industrial Scientific
1	Jerome Meter	1	HazCat Kit
3	MSA Orion 4 Gas		

RESPONSE EQUIPMENT (Geismar, Louisiana and Service Locations)**Pumps and Miscellaneous Equipment, Geismar, Louisiana**

Qty.	Description	Qty.	Description
1	3" Poly Chem Air Diaphragm	150	Feet, 3" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
2	2" Poly Chem Air Diaphragm	150	Feet, 2" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
2	1" Poly Chem Air Diaphragm	150	Feet, 1" Acid/Chemical Hose with Stainless Steel Fittings with Strainers
4	3" Stainless Steel Air Diaphragm	150	Feet, 2" Acid/Chemical Hose with Poly Fittings with Strainers
2	2" Stainless Steel Air Diaphragm	150	Feet, 1" Acid/Chemical Hose with Poly Fittings with Strainers
4	2" Gasoline Trash Pump	150	Feet, 2" Petroleum Hose with Strainers
1	3" Diesel Pump	100	Feet, 1" Petroleum Hose with Strainers
1	2" Aluminum Air Diaphragm	100	Feet, 2" Discharge Hose with Strainers
2	1" Aluminum Air Diaphragm	100	Feet, 1 1/2" Rag Hose with Strainers
1	Lutz Chemical Pump	1	Midland Capping Kit
2	Betts Evacuator Valve	1	Chlorine "C" Kit
1	O Ring Kit	1	Haz-Hammock
1	Iso Container Conversion Kit	1	A & E Patch Kit
1	6500 kW Generator	1	Trident Quick Frame Magnetic Patch
1	4000-watt Light Tower	1	Wheel Barrow Portable Air Compressor
1	5000-lb. Fork Lift and Pallet Jack	1	185 CFM Air Compressor
1	Drill Kit for Drilling Tankers	3	Lid Lock Dome Clamps
2	Nitrogen Cylinders with Nitrogen Purge Kit	50	Feet, 3/16 Stainless Steel Pressure hose With Related Fittings
200	Feet, No. 2 Ground wire with clamps	1	Chain Saw
4	Copper Coated Grounding Rods	1	Mercury Vacuum

Comprehensive supply of stainless steel and polyethylene fittings, valves, nipples, brushings, reducers, and couplings.

Communications, Geismar, Louisiana

Qty.	Type	Frequency	Range, Mi.	Description
8	Motorola Hand-Held	851-866 MHz	20-30	Intrinsically Safe
25	Cellular Telephones		Nationwide	Hand Held
3	GPS Units			Hand Held
5	Digital Cameras			
3	Lazer Heat Guns			

Heavy Equipment, Geismar, Louisiana

Qty.	Description
3	Bobcat Skid Steer
2	Volvo Excavator
1	Mini Excavator
5	Bobcat MT 52 Dingo
1	4-Wheel Drive John Deere Extended Hoe with Front-Loader

Industrial Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
2	10,000/20,000 psi Hydro Blaster	2	4,000 psi Hot/Cold Water Pressure Washer
1	3D Nozzel with Attachments		

Remediation/Construction Equipment, Geismar, Louisiana

Qty.	Description	Qty.	Description
1	20" Toolbox (Miscellaneous Hand Tools)	1	Threading Oiler
1	4-Point Cable Harness	1	Rigid Pipe Vise
1	2" Pneumatic Diaphragm Pump with hoses	5	Miscellaneous Pipe Wrenches (up to 48")
1	3,000 psi Pressure Washer	1	Dewalt 18V Cordless Drill, Circular Saw, Reciprocating Saw, and Work Light
4	15-Ton Shackle	1	Tap and Die Set
1	15-Ton Swivel	1	True RMS Digital Multimeter with miscellaneous electrical tools
1	Venturi Blower	1	5KW Dewalt Generator
4	10-Ton Shackle	3	3" x 20' Nylon Slings
2	10-Ton Hooks		

Comprehensive supply of hand tools, sorbent materials, placards, PPE, and other miscellaneous supplies.

MASTER SERVICE AGREEMENT

THIS MASTER SERVICE AGREEMENT (the "Agreement") made **February 28, 2012** between Oil Mop, LLC d/b/a OMI Environmental Solutions located at 145 Keating Drive, Belle Chasse, LA 70037 called ("CONTRACTOR") and **Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries**, hereinafter collectively called ("GENESIS"), covers all services and work ("Services") to be performed by CONTRACTOR for or on behalf of GENESIS.

1. **Contract Document.** This Agreement shall control and govern all Services to be provided by CONTRACTOR and shall define the rights and obligations of GENESIS and CONTRACTOR with regard to the matters covered hereby, to the exclusion of verbal or written work orders, purchase orders, bids or any other writings not specifically referring to this agreement and signed by each of the parties. This Agreement supersedes any agreement concerning work or services previously entered into between GENESIS and CONTRACTOR.
2. **Time and Manner.** GENESIS may from time to time by written notice request CONTRACTOR to perform Services. CONTRACTOR shall promptly advise GENESIS whether or not it is willing to perform the requested Services. If CONTRACTOR agrees to perform such Services, it shall notify GENESIS in writing and promptly commence after the same is ordered and shall render such services with due diligence until completion in a good and workmanlike manner in accordance with standard industry practice and to GENESIS's satisfaction. Any variances or exceptions to the scope of work specified shall be identified in writing by CONTRACTOR.
3. **Items Supplies; Liens.** Except as otherwise notified by GENESIS, CONTRACTOR shall furnish all labor, services, equipment, appliances, tools, facilities, supervision, and materials necessary for the complete performance of the Services to be performed hereunder.
4. **Contract Price; Billing.** GENESIS shall pay CONTRACTOR for the Services in accordance with schedules of rates and prices or lump sum amount as specified in Exhibits hereto or as otherwise agreed upon between GENESIS and CONTRACTOR, such agreement referencing this Agreement. Prices or rates shall not be increased without prior written approval from GENESIS. GENESIS shall pay CONTRACTOR for completed services within 30 days of receipt of the invoice subject to 10% retention of invoice amount. Payment of the retainage will be made upon GENESIS's receipt of CONTRACTOR'S affidavit of completion including lien releases from Sub-Contractors and suppliers.
5. **Inspection.** GENESIS and its representatives shall have the right to witness all Services being performed hereunder.

6. **Examination of Premises, etc.** Prior to the commencement of Services, CONTRACTOR will make sufficient examination and tests of the premises and facilities at which the Services are to be undertaken to determine the difficulties and hazards incident to rendering Services and to satisfy itself as to the procedures to be followed, the adequacy of available safety equipment and other requirements necessary or appropriate to the performance of the Services.
7. **Compliance with Laws.** CONTRACTOR will obtain all necessary permits and licenses and will comply with applicable government laws, rules, regulations, executive orders, priorities, ordinances and restrictions now or hereafter in force (including, but not limited to Federal and State labor, health and safety and nondiscrimination laws, regulations and executive orders) in rendering Services. CONTRACTOR will furnish GENESIS any documentation required to evidence such compliance and will file with governmental agencies any reports required to be filed by CONTRACTOR. If CONTRACTOR is required to meet the requirements of Title 49, Part 195, Subpart G Qualification of Pipeline Personnel, 195.501 – 195.509 to perform certain services on Genesis regulated property, CONTRACTOR shall subscribe to and shall maintain current records on ISNetworld so long as CONTRACTOR is performing such services for GENESIS.
8. **Insurance.** During the performance of the Services hereunder, CONTRACTOR shall take out, carry and maintain, with an insurance company or companies approved by GENESIS, and in policies of insurance acceptable to GENESIS, the following insurance sufficient to address the liabilities that may be generated by the Services. All liability policies shall be on an occurrence basis with limits not less than those shown below:
 - (a) **Workers Compensation and Occupational Disease Insurance.** Workers Compensation and Occupational Disease Insurance, including coverage under the Longshoremen and Harbor Workers' Compensation Act and the Jones Act (if applicable) and Employer's Liability Insurance with limits complying with the laws of the State in which such Services are to be rendered.
 - (b) **Comprehensive General Liability Insurance.** Comprehensive General Liability Insurance, including Premises, Operations, Explosion, Collapse and Underground Damage, and Contractual Liability (including this Agreement with Genesis) with policy limits not less than \$2,000,000 in the aggregate, and \$1,000,000 combined single limit personal injury each occurrence and \$1,000,000 property damage each occurrence.
 - (c) **Automobile Liability Insurance.** Automobile Liability Insurance, including Contractual Liability, covering all motor vehicles owned, hired or used while rendering Services with limits not less than \$1,000,000, combined single limit personal injury and property damage each occurrence.

(d) Excess Liability. Excess Liability Insurance with a limit of at least \$4,000,000 per occurrence, including but not limited to (i) Excess Employers Liability Insurance, (ii) Commercial General Liability Insurance and (iii) Automobile Liability Insurance.

CONTRACTOR hereby waives rights of subrogation against GENESIS and all insurance policies mentioned above shall contain a waiver of subrogation in favor of GENESIS. Before commencing Services, CONTRACTOR shall furnish GENESIS for its approval and retention, Certificates of Insurance naming "Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries" (hereinafter the "GENESIS ENTITIES") as the certificate holder and additional named insured, further providing that in the event of any material changes in or cancellation of the insurance thirty days advance written notice shall be given to GENESIS. If CONTRACTOR cannot provide such thirty days advance written notice due to the revised Acord form which requires language substantially similar to "Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions," then GENESIS reserves the right to require updated certificates of insurance prior to making payment(s) to CONTRACTOR for Services.

9. **INDEMNITY.** CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS GENESIS AND ITS OFFICERS, EMPLOYEES, AGENTS OR REPRESENTATIVES AND ANY AFFILIATED OR RELATED COMPANIES, FROM AND AGAINST ANY AND ALL SUITS, ACTIONS, LEGAL OR ADMINISTRATIVE PROCEEDINGS, CLAIMS, DEMANDS, DAMAGES, LIABILITIES, INTEREST, ATTORNEY'S FEES, COSTS AND EXPENSES OF WHATSOEVER KIND OR NATURE ARISING OUT OF ANY BODILY INJURY (INCLUDING DEATH), PROPERTY DAMAGE, OR ECONOMIC DAMAGE, WHETHER ARISING BEFORE OR AFTER COMPLETION OF THE SERVICES HEREUNDER AND WHICH ARE IN ANY MANNER DIRECTLY OR INDIRECTLY CAUSED OR OCCASIONED BY REASON OF ANY INTENTIONAL MISCONDUCT OR NEGLIGENCE, WHETHER ACTIVE OR PASSIVE, OF CONTRACTOR OR OF ANYONE ACTING UNDER ITS DIRECTION, CONTROL, OR ON ITS BEHALF IN CONNECTION WITH OR INCIDENT TO THE SERVICES PERFORMED UNDER THIS AGREEMENT.

NOTWITHSTANDING ANY OF THE FOREGOING, CONTRACTOR SHALL NOT BE OBLIGATED HEREUNDER TO HOLD HARMLESS OR INDEMNIFY GENESIS FOR LOSS, COST OR EXPENSE OF INCIDENT OR ACCIDENT ARISING OUT OF THE WORK AND PROXIMATELY CAUSED BY THE GROSS NEGLIGENCE OF GENESIS OR ITS EMPLOYEES.

Nothing herein shall prohibit GENESIS from filing suit or obtaining a judgment against CONTRACTOR for such claim, loss, injury or damage if such is necessary in order to collect or receive payment under any such insurance carried by CONTRACTOR.

10. **Safety.** CONTRACTOR shall maintain adequate protection of persons and property during CONTRACTOR's performance hereunder. Where Services are rendered on GENESIS'S premises, all of GENESIS'S safety rules shall be strictly observed and smoking shall be limited to such locations and occasions as are specifically authorized by GENESIS. Contractor shall be solely responsible for the safety of the work and its employees. The possession and/or use of illegal or unauthorized drugs, intoxicating beverages, firearms or other weapons is prohibited on all GENESIS property. To insure the safety of persons and to prevent the loss of GENESIS property, GENESIS may, but is not required to, conduct security inspections or searches at random. GENESIS shall have the right to search the person, personal effects or vehicle of any person on GENESIS property to enforce compliance with this policy. Persons found to be in violation of this policy will be immediately removed and barred from GENESIS property. Illegal or unauthorized drugs, intoxicating beverages, firearms, or other weapons discovered as a result of any such inspection may be confiscated and turned over to law enforcement officers at GENESIS's discretion.
11. **Termination.** GENESIS may, at its absolute discretion, direct the Services to be halted at any time, but where CONTRACTOR is not in default hereunder, GENESIS shall pay CONTRACTOR for all work completed in accordance with the approved price schedule.
12. **Independent Contractor.** In the performance of all Services, CONTRACTOR is an independent contractor, with the sole right to supervise, manage, control and direct the performance of the details. GENESIS is interested only in the results to be obtained, but the Services must meet with the approval of GENESIS, whose representatives shall be entitled to make such inspections of the Services and of CONTRACTOR's records relating thereto as may be necessary to assure such results and compliance with the provisions hereof.
13. **Non-Assignability and Encumbrances.** This Agreement or any rights or interests or amounts which may be due hereunder shall not be transferred, assigned, sublet, pledged or encumbered without the advance written approval of GENESIS to be withheld or denied in its sole discretion. Any subcontracting permitted hereby shall not relieve CONTRACTOR of primary responsibility for any Services performed thereunder or hereunder. Any assignments, pledges, encumbrances, factoring agreements, security interests or mortgages in violation hereof shall in all respects be and remain subject to any and all claims, defenses, set offs or rights or remedies of GENESIS.

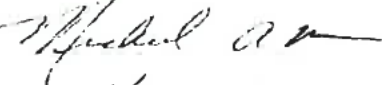
14. **Interpretation and Integration.** This Agreement, together with the Exhibits which are attached hereto and incorporated herein by this reference, constitutes the entire agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the parties. No supplement, modification or waiver of this Agreement shall be binding unless executed in writing by the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provision hereof (regardless of whether similar), nor shall any such waiver constitute a continuing waiver unless otherwise expressly provided.
15. **Governing Law.** The parties hereto agree that all of the provisions of this Agreement and any questions concerning its interpretation and enforcement shall be governed by the laws of the state in which the services or work are performed, without regard to its principles of conflicts of law.
16. **Force Majeure.** Neither party shall be considered in default in performance of its obligation under the Agreement if delayed by Force Majeure (as herein defined). Force Majeure as used herein shall mean hostilities, restraint of rulers or people, revolution, civil commotion, strike, epidemic, fire, flood, windstorm, explosion, embargo, or any law, proclamation, regulation, or ordinance of any Government, or any cause, whether of the same or different nature, existing or future, which is beyond the reasonable control of the parties hereto. It will be the sole responsibility of the party so affected by Force Majeure to take all reasonable steps necessary to eliminate the cause of any delay but not to the extent of assenting to unreasonable demands of any third party. Nothing herein contained shall alter or vary Genesis's right to terminate this Agreement as hereinabove provided.
17. **Headings.** Section headings or titles are included for ease of reference and do not constitute any part of the text or affect its meaning or interpretation.
18. **Severability.** If any provision herein is or becomes invalid or illegal in whole or in part, such provisions shall be deemed amended, as nearly as possible to be consistent with the intent expressed in this Master Service Agreement, and if such is impossible, that provision shall fall by itself without invalidating any of the remaining provisions not otherwise invalid or illegal.
19. **Confidential Information.** In the performance of the Services, CONTRACTOR may be exposed to confidential information of GENESIS and others. CONTRACTOR shall not disclose to anyone not employed by GENESIS nor use, except on behalf of GENESIS, any such confidential information acquired by it in the performance of the Services except as authorized by GENESIS in writing, and regardless of the term of this Agreement, CONTRACTOR shall be bound by this obligation until such time as said confidential information shall become part of the public domain. Information regarding all aspects of GENESIS'S (including its

parent and its affiliates) business and information concerning the Services (either directly or indirectly disclosed to it or developed by it in the performance of the Services) shall be presumed to be confidential except to the extent that same shall have been published or otherwise made freely available to the general public without restriction. CONTRACTOR also agrees that it will not disclose to GENESIS any information it holds subject to an obligation of confidence to any third persons.

20. **Conflict of Interest and Ethics.** CONTRACTOR, in performing its obligations under this Agreement, shall establish and maintain appropriate business standards, procedures and controls including those necessary to avoid any real or apparent impropriety or adverse impact on the interests of GENESIS or its affiliates.

Executed this 25th day of April, 2012.

Genesis Energy, LLC, Genesis Energy, L.P., Genesis Crude Oil, L.P. and their affiliates and subsidiaries

By: 

Title: VP/Gen PIPELINES AND TRANSPORTATION

CONTRACTOR

Oil Map, LLC d/b/a OMI Environmental Solutions

By: 

Title: Contract Administrator

**Corporate**

131 Kestring Drive
Belle Chasse, LA 70037
Office: (504) 394 6110
Fax: (504) 392 8977

August 10, 2012

Louisiana

221 Clendenning Road
Houma, LA 70363
Office: (985) 868 0119
Fax: (985) 868 0425

9625 Highway 182
Morgan City, LA 70381
Office: (985) 631 9654
Fax: (985) 631 2823

3407 Jark Brooks Road
New Iberia, LA 70560
Office: (337) 364 5373
Fax: (337) 367 9444

5227 N. River Road
Port Allen, LA 70767
Office: (225) 388 9992
Fax: (225) 388 0895

11966 River Road
St. Rose, LA 70087
Office: (504) 712 6947
Fax: (504) 712 6949

42519 Highway 23
Venice, LA 70091
Office: (504) 534 7563
Fax: (504) 534 7566

Texas

2308 W Fairmont Pkwy
La Porte, TX 77571
Office: (281) 470-2016
Fax: (281) 470 2216

8725 Industrial Circle
Port Arthur, TX 77640
Office: (409) 962 7226
Fax: (409) 962 7260

5172 W Loop 281
Longview, TX 75603
Office: (903) 232 7131
Fax: (903) 232 7151

Environmental & Safety Products

1601 4th Street
Harvey, LA 70058
Office: (504) 367 7567
Fax: (504) 367 7567

Genesis Energy, L.L.C
Attn: Bruce McElheny
8550 United Plaza Blvd., Suite 401
Baton Rouge, LA 70809

RE: OPA "90" Compliance 2011 Deployment Letter

Dear Mr. McElheny,

Please allow this letter to serve as documentation to meet the PREP requirements for all your facilities. OMI Environmental Solutions is a U.S. Coast Guard Classified "MM" through "W3" company. OMIES deploys, drills or inspects all of its equipment annually.

DATE	LOCATION	BOATS	BOOM	SKIMMER	PERSONNEL
1/15/2011	Bay St. Elaine (Cocodrie LA)	1	400'	1	9
1/15/2011	Beaumont, TX	5	1100'	2	13
1/20/2011	West Cote Blanche Bay LA	1	600'	0	6
3/19/2011	Morgan City LA	2	700'	2	7
6/8/2011	Breton Sound LA	8	11300	4	30
9/11/2011	Lafitte LA	9	6700	2	33
9/28/2011	Pecan Island LA	1	150'	1	4
9/24/2011	Houston Ship Channel TX	2	2200	0	4
10/20/2011	Plaquemine, LA	1	800'	0	7

All OMIES equipment is properly inspected, maintained, and documented in accordance with our maintenance program. In addition, all our spill response personnel have received the necessary training which includes 29 CFR 1910.120/OSHA HAZWOPER, to safely and effectively respond to an oil spill. A record of this training is on file and available upon request.

In conclusion, OMI Environmental Solutions certifies that our files are current and in compliance with OPA'90 regulations pertaining to Oil Spill Removal Organizations (OSROs)

If you need any further assistance or additional information please feel free to call me at 832-758-1457.

Sincerely,

Rod Dillon

Rod Dillon Compliance Manager

WWW.OMIES.COM 24/7 EMERGENCY RESPONSE 1-800-645-6671

24/7 Oil Spill Response • 24/7 Haz-Mat Response • Industrial Services • Standby Rescue • Waste Management & Disposal
Transportation Services • Safety / Compliance / Training • Environmental & Safety Products

OIL MOP,LLC RESOURCE AVAILABILITY

Response Units	Belle Chasse	Port Allen	New Iberia	Morgan City	Port Arthur	Houma	Venice	Houston	TOTAL
Boat 14'			4						4
Boat 16'					3		2		5
Boat 18'		3	2		4	2			11
Boat 20'				1	2			2	5
Boat 24'		1							1
Boat 26'	3	1	1		1	1		1	8
Boat 28'									0
Boat 30'							1		1
Boat JBF 20'		1	1		1				3
Alsafé (Rib) Boat 20'	1							1	2
Cabin Boat 24'	1						1	1	3
Cabin Boat-Radar								1	1
Jon Boat 10'						1			1
Jon Boat 14'	1			1		1			3
Jon Boat 16'	6		2	1		2		6	17
Marco Boat 28'					1				1
Barge Boat 30'	1						1		2
Yellow Barge Boat 28'	1								1
Pro Drive Boat							1		1
Work Boat 26'	1			1					3
Work Boat 27'		1	1			2			4
Boat Trailer 14'				1					1
Boat Trailer 16'	2		1			1			4
Boat Trailer 20' (Rib Boat)	1		2	1				1	5
Boat (Cabin)Trailer 24'	1								
Boat Trailer 27'				1		2			3
Boat trailer 26'	1			1		1			3
ATV Trailer	1								1

[illegible]

[illegible]

[illegible]

EFFECTIVE DAILY RECOVERY CAPABILITIES

Listed below are the recovery capabilities of all-major skimmers and storage bladders and tanks in the OMI inventory.

• Rope Mop 1-4	1413 BBLS per day	
• Rope Mop 2-4	2208 BBLS per day	
• Rope Mop 2-6	3091 BBLS per day	
• Rope Mop 2-9	4416 BBLS per day	
• Drum Skimmer	3908 BBLS per day	
• Disc Skimmer	114 BBLS per day	
• Marco Harbor 28	1900 BBLS per day	30 BBL Storage
• JBF Skimmer	1600 BBLS per day	20 BBL Storage
• Barge Boat		25 BBL Storage
• Storage Bladders		85 BBL Storage
• Frac-Tank		500 BBL Storage
• Fast Tank		21 BBL Storage
• Vacuum Boat		700 Gal
• Vacuum Truck		70 BBL
• Guzzler		90 BBL

Wier skimmers are considerably less and are only efficient in calm waters and conditions.



Texas General Land Office Oil Spill Prevention and Response

Oiled Wildlife Response Information Guide

General Response

- Federal regulations prohibit handling of migratory birds.
- Untrained personnel should not attempt to rescue oiled wildlife because of the potential of serious, sometimes fatal zoonotic diseases (transmission of disease from animal to human.)
- Oiled animals can inflict serious injury to untrained personnel.
- Only personnel from state fish & game agencies and U.S. Fish & Wildlife Service, or properly trained and permitted rehabilitators designated by these agencies are allowed to capture oiled wildlife.
- Make appropriate notifications and await instruction from licensed personnel on how to deal with affected wildlife.
- Only personnel licensed by the State of Texas are allowed to handle oil wildlife.

Resources

TX General Land Office 24 Hour Oil Spill Notification
800-832-8224

Wildlife Rehab & Education

Sharon Schmalz, Certified Oiled Wildlife and Response Team Member
Federal License # PRT673173 • State License # SPH090-090 • LA License # R-09-30

Margaret Pickell, Certified Oiled Wildlife & Response Team Member

Upper and Lower Coast: Cell 281-731-8826 • Office 713-861-9453 • Pager 713-279-1417 • Home (b) (6)

Wildlife Response Services LLC

Rhonda Murgatroyd, Certified Oiled Wildlife & response Team Member
Federal License # SPRH039465, TX License # REH-0401-713, LA License # R-07-13
713-705-5897 • Pager 281-266-0054

UPPER COAST

Region 1 (Beaumont/Port Arthur)
Region 2 (LaPorte / Houston)

Texas Parks and Wildlife
281-842-8100 (24 hrs)

Texas Parks and Wildlife – Spills and Kills-Winston Denton
281-534-0138 • 281-842-8100 • 281-534-0130 (office)

U.S. Fish & Wildlife (pager for Ron Brinkley)
281-286-8282 • Pager 281-505-4754 • Cell 713-542-1873

LOWER COAST

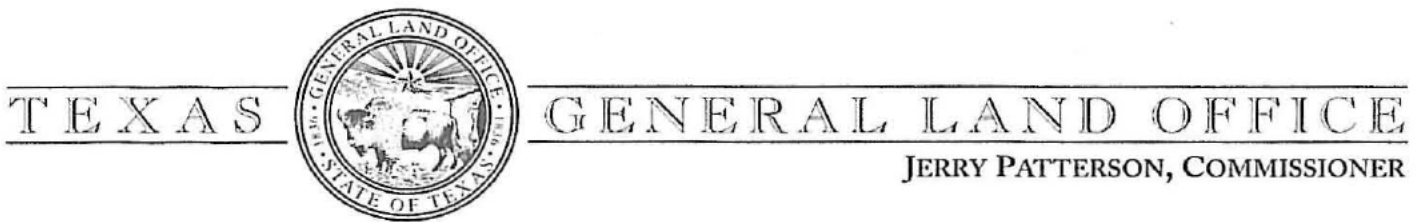
Region 3 (Corpus Christi • Region 4 (Brownsville)
Region 5 (Pt. Lavaca)

Texas Parks and Wildlife
956-350-4490

Texas Parks and Wildlife - Spills and Kills
361-825-3246

U.S. Fish & Wildlife (pager for Claire Lee)
512-994-9005

Animal Rehabilitation Keep (ARK) – Port Aransas, TX
361-749-6793



December 3, 2010

Mr. Michael Moore
Genesis Pipeline Texas, L.P.
17411 Village Green Drive
Houston, TX 77040-1004

Re: Genesis Pipeline Texas – Certificate No. 20106

(b) (7)(F)

Dear Mr. Moore:

The Texas General Land Office, Oil Spill Prevention and Response Program conducted an inspection of your facility on November 10, 2010. No issues of non-compliance were identified during this inspection.

Thank you for your cooperation. Please feel free to contact our Compliance Coordinator, Craig Kartye, at (281) 470-6597 with any questions you have regarding the facility certification or any other oil spill prevention and response matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard A. Arnhart', is written over a horizontal line.

Richard A. Arnhart
Director, Region 2

RAA:dfw



Dispersant Policy

All facility personnel who might be involved in an oil spill have been informed that detergents and/or other surfactants are prohibited from being used in the event of an oil spill in the water.

Dispersants may be used only if approved by the Texas General Land Office and the Regional Response Team in accordance with the Area Contingency Plan.

Signature of Authorized Representative

Truck Load/Unload Response Plan

This plan provides general guidance for procedures to prevent oil spills as well as response and mitigation considerations in the event of a spill. Personnel safety must be assessed as the first priority. Safety concerns including potential for ignition and/or toxic exposure must be continuously monitored. The primary objective first and foremost is prevention through proper operating practices.

PERSONNEL TRAINING AND DISCHARGE PREVENTION PROCEDURES

(1) PERSONNEL TRAINING

- ☐ Formal training on the operation and maintenance of oil field equipment is provided through Company-sponsored schooling on an "as needed" basis.
- ☐ Pollution prevention and applicable regulatory requirements are brought to the attention of employees on a continuing basis in safety meetings, personal consultations, posters, literature distribution, etc.
- ☐ Qualified and experienced personnel conduct on-the-job training of new and/or inexperienced employees.
- ☐ The Company provides initial awareness training to all employees prior to the employee commencing operational duties. The employees are informed of the SPCC Plan, the purpose of the plan, and proper best management practices.
- ☐ The Company has developed an employee-training program that addresses proper operation and maintenance of equipment to prevent oil discharges.
- ☐ The overall purpose of this training program is ensuring that employees are kept informed of current operational procedures and applicable spill prevention methods and pollution control laws, rules, and regulations.
- ☐ The training program includes a review of the Facility's SPCC Plan, new revised regulations / laws / instructions, safe handling of hazardous materials, a review of product storage and transfer operations, and recognizing and identifying pollution prevention opportunities.

(2) SPILL PREVENTION BRIEFINGS

- ☐ In addition to the regular employee training, the Company will schedule annual briefings to assure that employees have current knowledge of spill prevention techniques and associated equipment.

(3) SPILL PREVENTION BRIEFINGS

- ☐ The record of these briefings will be documented. An example form is included with this plan. Documentation will be maintained for a minimum period of three years.
- ☐ Employees are instructed in applicable pollution control laws, rules, and regulations.
- ☐ Briefings are given as necessary at tailgate meetings as part of an incident review or at other meetings as necessary. Operation and maintenance procedures are explained and problems with existing equipment are discussed.
- ☐ Examples of any recent spill events, malfunctioning equipment, etc., are described, along with any resulting or otherwise recently developed precautionary measures.

FACILITY TANK TRUCK LOADING/UNLOADING

(1) TRANSFER AREA DRAINAGE

- ☐ The Facility requires all drivers to comply with the DOT regulations outlined in 49 CFR Part 177 and the Facility Standard Operating Procedures (SOP).
- ☐ All drivers must be authorized and certified by Genesis Crude Oil, L.P. to unload crude oil.
- ☐ Truck unloading procedures are posted at the Facility.
- ☐ There are no unloading racks at this Facility. Unloading is handled through a single coupling. The unload coupling is located inside of a header box, and drivers are in attendance throughout unloading operations. Spill response equipment is available to drivers in case of a spill.

(2) INTERLOCKED WARNING LIGHT OR PHYSICAL BARRIER

- ☐ Warning signs are posted in all the loading/unloading areas to prevent vehicular departure before disconnecting flexible or fixed transfer lines. A trained Genesis truck driver is present to observe all loading/unloading operations.

(3) TRUCK DRAIN / OUTLET EXAMINATION

- ☐ Prior to filling and departure of any truck, the lower most drains and outlets on tank trucks are closely examined for leakage. Any sign of leakage is immediately corrected to prevent spills while in transit.
- ☐ Warning signs are posted in the loading/unloading areas to remind drivers to examine drain outlets prior to departure. A trained Genesis employee is present to observe all loading/unloading operations.

RESPONSE PROCEDURES**RESPONSE ACTIONS****PERSON DISCOVERING SPILL**

- Notify Immediate Supervisor

IMMEDIATE SUPERVISOR

- Notify Qualified Individual (Incident Commander)
- If safe, assess the situation
- If safe, begin to minimize the spill

QUALIFIED INDIVIDUAL

- Evaluate health and safety hazards/review MSDS
- If safe, direct source control
- If safe, direct deployment of company response equipment
- Complete Oil Spill Report Form
- Mobilize spill response contractors
- Notify Regional HSSE Department

REGIONAL HSSE DEPARTMENT

- Assess incident and assume role of IC, if necessary
- Mobilize additional spill response contractors
- Document response actions
- Notify required agencies
- Notify management
- Refer to site specific Emergency Response Plan

SOURCE CONTROL AND MITIGATION

This section provides general guidance for spill mitigation. Each situation is unique and must be treated according to the circumstance present. In every situation, however, personnel safety must be assessed as the first priority. The potential for ignition and/or toxic exposure must be promptly evaluated.

SPILL MITIGATION PROCEDURES

TYPE	MITIGATION PROCEDURE
Failure of Transfer Equipment	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Terminate transfer operations and close block valves. 3. Drain product into containment areas if possible. 4. Eliminate sources of vapor cloud ignition by shutting down all engines and motors.

Tank Overfill/Failure	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Shut down or divert source of incoming flow to tank. 3. Transfer fluid to another tank with adequate storage capacity (if possible). 4. Shut down source of vapor cloud ignition by shutting down all engines and motors. 5. Ensure that dike discharge valves are closed. 6. Monitor diked containment area for leaks and potential capacity limitations. 7. Begin transferring spilled product to another tank as soon as possible.
Piping Rupture/Leak (under pressure and no pressure)	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Shut down pumps. Close the closest block valves on each side of the rupture. 3. Drain the line back into contained areas (if possible). Alert nearby personnel of potential safety hazards. 4. Shut down source of vapor cloud ignition by shutting down all engines and motors. 5. If piping is leaking and under pressure, then relieve pressure by draining into a containment area or back to a tank (if possible). Then repair line according to established procedures.
Fire/Explosion	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at risk of injury. 2. Notify local fire and police departments. 3. Attempt to extinguish fire if it is in incipient (early) stage. 4. Shut down transfer or pumping operation. Attempt to divert or stop flow of product to the hazardous area (if it can be done safely). 5. Eliminate sources of vapor cloud ignition shutting down all engines and motors. 6. Control fire before taking steps to contain spill.
Manifold Failure	<ol style="list-style-type: none"> 1. Personnel safety is the first priority. Evacuate nonessential personnel or personnel at high risk. 2. Terminate transfer operations immediately. 3. Isolate the damaged area by closing block valves on both sides of the leak/rupture. 4. Shut down source of vapor cloud ignition by shutting down all engines and motors. 5. Drain fluids back into containment areas (if possible).

SPILL VOLUME ESTIMATING

Early in a spill response, estimation of spill volume is required in order to:

- Report to agencies.
- Determine liquid recovery requirements.
- Assess manpower and equipment requirements.
- Estimate disposal and interim storage requirements.

In the event that actual spill volumes are not available, it may be necessary to estimate this volume. Some methods to estimate this volume are:

- For tank overfills, the total volume would be limited to the elapsed time multiplied by the pumping rate.
- In the event that a more accurate method is not available, an estimate of spill size can be made by visual assessment of the surface area and thickness. Be aware that these factors may yield inaccurate results because:
 - Interpretation of sheen color varies with different observers.
 - Appearance of a slick varies depending upon amount of available sunlight, and viewing angle.
 - Different products may behave differently, depending upon their properties.

SPILL ESTIMATION FACTORS**OIL THICKNESS ESTIMATIONS**

Standard Form	Approx. Film Thickness		Approx. Quantity of Oil in Film	
	inches	mm		
Barely Visible	0.0000015	0.00004	25 gals/mile ²	44 liters/km ²
Silvery	0.000003	0.00008	50 gals/mile ²	88 liters/km ²
Slightly colored	0.000006	0.00015	100 gals/mile ²	179 liters/km ²
Brightly colored	0.000012	0.0003	200 gals/mile ²	351 liters/km ²
Dull	0.00004	0.001	666 gals/mile ²	1,167 liters/km ²
Dark	0.00008	0.002	1,332 gals/mile ²	2,237 liters/km ²
Thickness of light oils: 0.0010 inches to 0.00010 inches				
Thickness of heavy oils: 0.10 inches to 0.010 inches				

OIL SPILL REPORT FORM

INVOLVED PARTIES			
Reporting Party		Suspected Responsible Party	
Name:		Name:	
Phone:	(Day)	Phone:	(Day)
	(Evening)		(Evening)
Position:		Company:	
Company:		Organizational Type:	
Address:		<input type="checkbox"/> Private Citizen	
		<input type="checkbox"/> Private Enterprise	
		<input type="checkbox"/> Public Utility	
		<input type="checkbox"/> Local Government	
		<input type="checkbox"/> State Government	
		<input type="checkbox"/> Federal Government	
Person Discovering Incident			
Name:			
Company/Organization:			
City:	State:	Zip:	
Were materials released? <input type="checkbox"/> Yes <input type="checkbox"/> No		Calling for Responsible Party <input type="checkbox"/> Yes <input type="checkbox"/> No	
INCIDENT DESCRIPTION			
Incident Classification: <input type="checkbox"/> Tier I <input type="checkbox"/> Tier II <input type="checkbox"/> Tier III			
Date:	Time: <input type="checkbox"/> AM <input type="checkbox"/> PM		
Incident Address/Location:		Weather:	
		Latitude: _____ degrees _____ min _____ sec N	
		Longitude: _____ degrees _____ min _____ sec W	
Mile Post/River Marker:			
City/County:		Distance from City:	
State:		Direction from City:	
Source and Cause of Incident:			
Storage Tank Type: <input type="checkbox"/> Above Ground <input type="checkbox"/> Below Ground <input type="checkbox"/> Unknown			
Tank Capacity:		Facility Capacity:	
MATERIAL INFORMATION			
CHRIS Code	Product Released	Released Quantity (Include units of measure)	Quantity in Water (Include units of measure)

Note: Refer to the Incident Database for spill history and spill reporting.

*** INITIAL NOTIFICATION SHOULD NOT BE DELAYED PENDING COLLECTION OF ALL INFORMATION**

OIL SPILL REPORT FORM, CONTINUED

INITIAL IMPACT			
Number of injuries:		Number of Deaths:	
Were there Evacuations? <input type="checkbox"/> Yes <input type="checkbox"/> No		Number Evacuated:	
Was there any Damage? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Damage in dollars (estimate):			
Is the Spill Contained within the boundaries of the facility? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Direction of Flow:			
RESPONSE ACTION(S)			
Action(s) Taken to Correct, Control or Mitigate Incident:			
ADDITIONAL INFORMATION			
Any information about the incident not recorded elsewhere in the report (e.g., duration of spill, treatment or disposal measures).			
COMPLETED NOTIFICATIONS			
Local	State	Federal	Other

Note: Refer to the Incident Database for spill history and spill reporting.

*** INITIAL NOTIFICATION SHOULD NOT BE DELAYED PENDING COLLECTION OF ALL INFORMATION**



Certificate Number: 20106
Expiration: May 13, 2018

Texas General Land Office
Oil Spill Prevention and Response
Discharge Prevention and Response Certificate

Genesis Pipeline Texas, L.P.

Webster, TX

Facility Name

Location

Genesis Pipeline Texas, L.P.

Genesis Pipeline Texas, L.P.

Owner

Operator

This certificate carries with it the need to maintain a high level of prevention awareness at your facility and the need to respond in a 'planned' manner to unauthorized discharges.

Jerry Patterson
Commissioner
Texas General Land Office

Greg Pollock
Deputy Commissioner, Oil Spill Prevention & Response
Texas General Land Office

February 10, 2014

DISPERSANT GUIDANCE FOR OIL SPILL RESPONSE

To: File**From:** Dean Duplantis, Jr.**Re:** Dispersant Guidance for Oil Spill Response**Purpose:** Discussion of applicability of Dispersants and method for approval**Overview of Dispersants:**

Dispersants are liquid solutions of detergent-like surfactants dissolved in a solvent. The surfactants reduce surface tension and allow oil to enter the water column as tiny droplets which are degraded by natural bacteria. Once dispersed through the water column, these droplets allow for an acceleration of natural biodegradation and make oil less adhesive. Dispersants should be used as a complement to mechanical recovery. The most practical applications are offshore when oil is moving toward the shore and all available methods of control are required to minimize environmental impact. The primary benefit of dispersants is preventing shoreline pollution. Reducing shoreline pollution can eliminate or reduce potential wildlife exposure. Dispersants are very cost effective and are very effective when mechanical recovery systems are precluded due to weather and sea conditions.

Dispersants do have a level of toxicity and the value of dispersing a product through the water column has to be weighed before considering application. Potential damage to the fisheries and marine food webs should be considered before deployment.

Deployment:

Favorable conditions for dispersants include high water temperatures and high salinity. Wave action increases the effectiveness of the product and breaking apart of a slick. Oil to Dispersant ratio of 20:1 should be considered for planning purposes. Contracts with MSRC would allow for the primary provider of dispersant. Dispersants may be applied to oil from airplanes, helicopters, or vessels. Spray systems are designed to provide the correct droplet size and dosage. Weather conditions for the deployment technique should be considered during the planning process. The time to target should be considered during planning process and the inventory of dispersant when planning additional sorties.

Approval:

Dispersant approval falls under two categories; pre-authorized and near-shore. In the pre-authorized zone the Regional Response Team has authorized the FOSC to determine if dispersant use is acceptable or not. For near-shore, the entire Regional Response Team must be contacted and grand approval. The pre-authorization zone is greater than 3 miles from coastal shoreline, greater than 10 meter water depth, product API gravity between 17-45, winds less than 25 knots, visibility greater than 3 nautical miles, and a ceiling greater than 1000 feet. The product must be NCP-listed. An inadequacy of other recovery measures should exist.

For deployment in the pre-authorized zone, complete the pre-authorization checklist (provided by contractor) and contact the relevant Captain of the Port office. Provide the USCG with the required information and they will make the determination if dispersants may be used. For deployment in the near-shore zone, complete the pre-authorization checklist and request the FOSC to notify the Regional Response Team. The Regional Response Team will make determination and reply in an expected 1-2 hours.

February 10, 2014

DISPERSANT GUIDANCE FOR OIL SPILL RESPONSE

I certify on behalf of Genesis Energy that the facility personnel who might be involved in an oil spill response have been informed that detergents or other surfactants are prohibited from being used on all oil spills in water and that dispersants or other surfactants are prohibited from being used on an oil spill in the water and dispersants can only be used with the approval of the Regional Response Team.



Dean Duplantis, Jr.
Environmental Specialist
Spill Planning and Response