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BP OSRP QUICK GUIDE

The BP OSRP Quick Guide is a concise set of easy-to-follow instructions and related information regarding actions to be performed by the person in charge, as well as other on duty personnel, in the event of a release of product in the region covered by the plan. Additional information and detail may be found in the corresponding sections and appendices of the Oil Spill Response Plan itself.

A. Safety

I. Introduction

Site Safety Planning is an essential element of emergency preparedness and response. BP is dedicated to ensuring the safety of company personnel and the public. In the event of an oil spill, or other emergency, BP will manage a coordinated response to minimize impacts to the environment while keeping safety issues in the forefront. The Site Safety Plan (with the ICS Forms at the end of this section) is a general plan intended to address initial safety criteria during the early stages of the response effort.

II. Roles and Responsibilities

*A list of responsibilities of response personnel in the Command Section, and other ICS positions, is detailed in **Section 4** of the OSRP.*

B. Spill Assessment

Upon receiving indication of an oil spill, or other chemical release that may threaten the Waters of the United States, the following actions are critical to initiating and sustaining an effective response:

•	Locate the spill
•	Determine size and volume of the spill
•	Predict spill movement
•	Monitor and track spill movement

Specific directions and strategies for performing the above actions are detailed in **Section 10** of the OSRP. Additionally, **Figure 1-1a** and **Figure 1-1b** provide information related to spill estimation and trajectory requests respectively. **Figures 1-25 – 1-28** are a list of facilities covered by this quick guide and the associated oil spill response plan. *For detailed information regarding spill assessment, see **Section 10** of the OSRP.*



<ul style="list-style-type: none"> • Initiate surveillance overflights of spill area at first light or as soon as possible with fixed wing or rotary wing aircraft to determine: <ul style="list-style-type: none"> a) Size and description of oil slick b) Direction of movement c) Coordinates of leading and trailing edge of oil slick d) Sensitivities endangered e) Population areas threatened
<ul style="list-style-type: none"> • Video and photograph spill area daily during surveillance over flights for documentation and operational purposes, dependent upon weather conditions.
<ul style="list-style-type: none"> • Activate the B P I ncident M anagement Team (SMT) along with the Unified Command ICS dependent upon the severity of the emergency event.
<ul style="list-style-type: none"> • Notify MSRC and other OSRO'S to respond to the emergency dependent upon spill response requirements.
<ul style="list-style-type: none"> • Obligate all funds required to maintain the coordinated and integrated response activities that are required and/or directed.
<ul style="list-style-type: none"> • Conduct tactical and planning meetings at predetermined time periods along with incident briefings and special purpose meeting which may include: <ul style="list-style-type: none"> a) Unified Command Meetings b) Command Staff Meetings c) Business Management Meetings d) Agency Representative Meetings e) Press Conferences

C. Locating a Spill

In the event of a significant release of oil, an accurate estimation of the spill's total volume along with the spill location and movement is essential in providing preliminary data to plan and initiate cleanup operations. Generating the estimation as soon as possible will aid in determining:

<ul style="list-style-type: none"> • Equipment and personnel required;
<ul style="list-style-type: none"> • Potential threat to shorelines and/or sensitive areas as well as ecological impact; and
<ul style="list-style-type: none"> • Requirements for storage and disposal of recovered materials.

As part of the initial response, BP will initiate a systematic search with aircraft, primarily helicopters, to locate a spill and determine the coordinates of the release. In the event weather prohibits use of aircraft, (both fixed wing and rotor) field boats may be utilized to conduct search operations.



Aircraft will also be utilized to photograph the spill on a daily basis, or more frequently if required, for operational purposes. The overflight information will assist with estimating the spill size and movement based upon existing reference points (i.e., oil rigs, islands, familiar shoreline features, etc.).

D. Determining the Size and Volume of a Spill

When a spill has been verified and located, the priority issue will be to estimate and report the volume and measurements of the spill as soon as possible. Spill measurements will primarily be estimated by using coordinates, pictures, drawings, and other information received from helicopter or fixed wing overflights.

Oil spill volume estimations may be determined by direct measurements or by calculations based upon visual assessment of the color of the slick and information related to length and width that can be calculated on existing charts. The appearance of oil on water varies with the oil’s type and thickness as well as ambient light conditions. Oil slick thicknesses greater than approximately 0.25 mm cannot be determined by appearance alone.

Direct measurements are the preferred method for determining the volume of a spill. Measurements can be obtained by:

•	Gauging the tank or container to determine volume lost
•	Measuring pressure lost over time
•	Determining the pump or spill rate (GPM) and elapsed time

Visual assessment for determining the volume of oil based on slick information begins with understanding the terminology listed below:

•	Sheen – oil visible on the water as a silvery <u>sheen</u> or with <u>tints of rainbow colors</u> . This is the smallest thickness of oil.
•	Dark colors – visible with dark colors (i.e., <u>yellowish brown</u> , <u>light brown</u>) with a <u>trace of rainbow color</u> but is not black or dark brown.
•	Black/Dark Brown – fresh oil after initial spreading will have a <u>black</u> or very <u>dark brown</u> color. This is the largest thickness of non emulsified oil.
•	Mousse – water-in-oil emulsion which is often <u>orange</u> to <u>rust colored</u> . It is thick and viscous and may contain 30% oil.



Several natural weathering processes occur which diminish the severity of the spill depending upon the composition of the oil. Natural weathering processes include the following:

•	Dispersion
•	Dissolution
•	Emulsification
•	Evaporation

Factors listed in **Figure 1-1a** and **Figure 1-1b** will be used to estimate the volume of oil in a spill unless an accurate amount is known by other means. Estimated spill volumes should be rounded off to avoid the misconception of a precise determination.

E. Predicting Spill Movement

Real time oil spill trajectory models predict the movement of spilled oil on water as well as identifying potential shoreline impact areas and other environmentally and ecologically sensitive areas.

The Response Group in Houston, TX, is the primary resource providing BP with predictions of both the movement of oil on water and potential impact areas. The Response Group is available on a 24 hour/day basis at (281) 880-5000 (Office) or (713) 906-9866 (Cellular). The Response Group relies on a number of sources that provide real time data in conjunction with condition variables in order to track and predict spill movement throughout the duration of an incident. Trajectory model results will be transferred to BP personnel via a fax or by modem directly into BP's computer system. Weather forecasts, buoy data, and National Weather Bureau satellite imagery may be collected from internet services or by contacting the National Weather Service as listed below:

•	Gulf of Mexico website: http://www.nws.noaa.gov/om/marine/zone/gulf/gulfmz.htm Slidell, LA (504) 589-2808
•	Houston/Galveston, TX Area (281) 337-5074
•	Brownsville, TX (956) 504-1432 Austin/San Antonio, TX (830) 606-3617
•	Miami, FL (305) 229-4550



The National Oceanic and Atmospheric Administration (NOAA) is another available resource that can provide oil trajectories. GNOME (General NOAA Operational Modeling Environment) is the oil spill trajectory model used by OR&R Emergency Response Division (ERD) responders during an oil spill. ERD trajectory modelers use GNOME in Diagnostic Mode to set up custom scenarios quickly. In Standard Mode, anyone can use GNOME (with a Location File) to:

- Predict how wind, currents, and other processes might move and spread oil spilled on the water.
- Learn how predicted oil trajectories are affected by inexactness ("uncertainty") in current and wind observations and forecasts.
- See how spilled oil is predicted to change chemically and physically ("weather") during the time that it remains on the water surface.

For more information, contact Charlie Henry, the NOAA Scientific Support Coordinator for Texas, Louisiana, Mississippi, Alabama and the Florida Panhandle at (504) 589-4414.

Trajectory models can be run with predicted weather information used as input over a several hour period. The Response Group offers the following services from the office and remote locations:

- ✓ Oilmap Trajectory Modeling program
- ✓ General NOAA Oil Modeling Environment
- ✓ Scripps/MMS Oceanographic Data
- ✓ Scripps SEA Current Information
- ✓ MMS Buoy Information
- ✓ NOAA Ship Drift Information
- ✓ Overflight GPS Positioning Data
- ✓ ETA's to Shoreline
- ✓ Offshore Response Plans
- ✓ Biological Resources in the path of the slick



BP personnel can initiate the trajectory mapping process by calling or submitting a trajectory request form, **Figure 1-3**, as soon as the following information is available:

- wind speed & direction
- current speed & direction
- sea state
- spill volume
- continuous or instantaneous release
- type of oil (API gravity)
- latitude & longitude (spill site)
- duration of spill
- direction of spill movement
- date & time of incident
- air & water temperature
- source of spill
- high tide & low tide

Trajectory model results may be updated periodically depending upon revised surveillance information and the latest weather updates.

F. Monitoring and Tracking the Spill Movement

Surveillance of the spill movement throughout the incident is essential to bringing response operations to a successful conclusion. BP will maintain the overflight and trajectory modeling programs to monitor and predict the movement of oil until spill response operations are completed.

Surveillance operations can be continued both day and night, and in inclement weather, through the use of infrared sensing cameras capable of detecting oil on water. Information from the infrared cameras can be downloaded to a computer and printed out on a chart and/or recorded on videotape.

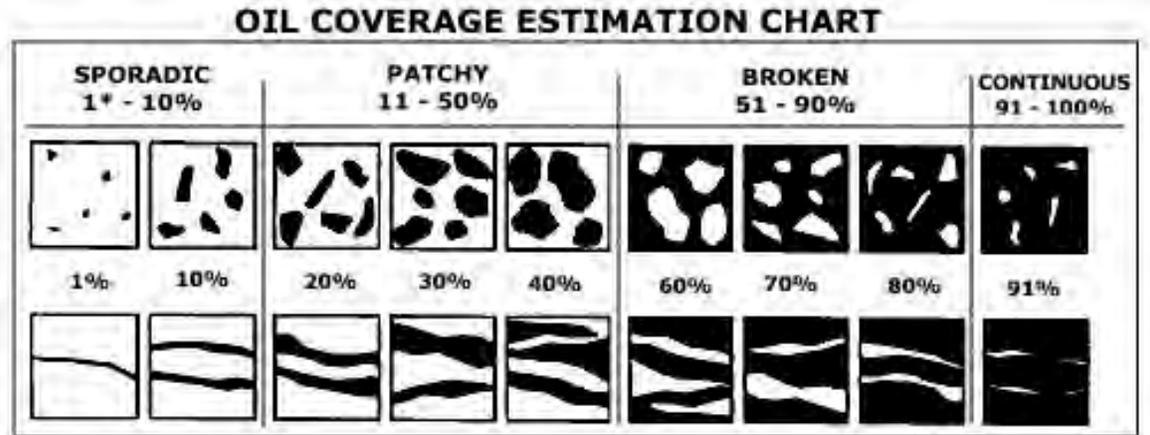


Oil Thickness Estimations				
Standard Term	Approx. Film Thickness		Approx. Quantity of Oil in Film	
	Inches	Mm		
Barely Visible	0.0000015	0.00004	25 gals/mile ²	44 liters/km ²
Silvery	0.000003	0.00008	50 gals/mile ²	88 liters/km ²
Slight Color	0.000006	0.00015	100 gals/mile ²	176 liters/km ²
Bright Color	0.000012	0.0003	200 gals/mile ²	351 liters/km ²
Dull	0.00004	0.001	666 gals/mile ²	1,168 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.

- Spill Volume Estimation Procedure**
1. Estimate dimensions (length x width) of the spill in miles. Multiply length times width to calculate area covered by oil in square miles
 2. Multiply each area calculated in (1) by the appropriate factor from the thickness estimation table (above) and add the parts together

Oil Coverage Estimation Chart **Figure 1-1a**



*TRACE = <1%

From Office of Response & Restriction, National Ocean Service, National Ocean & Atmospheric Administration



Oil Volume Estimation Chart

Figure 1-1b

<p>1. To establish the area affected by pollution.</p> <ul style="list-style-type: none"> • Determine spill size (use aircraft if possible). • Draw an imaginary box around the oil. • Measure the length and width of the box (5,280 feet = 1 mile). • Multiply the length x width = (a) m² 																																																																										
<p>2.) Extent of Oil Coverage</p> <ul style="list-style-type: none"> • Envision the oil pushed together into one part of the box. • Estimate % of box containing oil = (b) % coverage. 	<table style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">100</td></tr> <tr><td style="padding: 2px 5px;">80</td></tr> <tr><td style="padding: 2px 5px;">60</td></tr> <tr><td style="padding: 2px 5px;">40</td></tr> <tr><td style="padding: 2px 5px;">20</td></tr> </table> <div style="display: inline-block; border: 1px solid black; width: 100px; height: 100px; margin: 5px; text-align: center; vertical-align: middle;"> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> </table> </div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> <p>= __ % coverage (b)</p> </div>	100	80	60	40	20																																																																				
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<p>3.) Multiply estimated area (a) x estimated coverage (b) = (c) total m²</p>	<p>__ mi² x __ % coverage = __ total mi²</p> <p>(a) (b) (c)</p>																																																																									
<p>4.) Appearance of Oil:</p> <ul style="list-style-type: none"> • Estimate the percent of the oil matching each color under appearance. Enter that number in the percentage blank (e.g. 50% dull, 30% brightly colored, 20% slightly colored). • Enter total mi² (Item c). • Multiply % appearance x gal/mi² x mi² for each appearance. • Enter sum for total gallons. 	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="8">ESTIMATION TABLE</th> </tr> <tr> <th style="width: 25%;">Appearance</th> <th style="width: 5%;">%</th> <th style="width: 5%;">x</th> <th style="width: 10%;">Gal/ mi²</th> <th style="width: 5%;">x</th> <th style="width: 10%;">mi² (c)</th> <th style="width: 5%;">=</th> <th style="width: 30%;">Gal.</th> </tr> </thead> <tbody> <tr> <td>Barely Visible</td> <td></td> <td>X</td> <td>25</td> <td>X</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td>Silvery</td> <td></td> <td>X</td> <td>50</td> <td>X</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td>Slightly Colored</td> <td></td> <td>X</td> <td>100</td> <td>X</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td>Brightly Colored</td> <td></td> <td>X</td> <td>200</td> <td>X</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td>Dull</td> <td></td> <td>X</td> <td>666</td> <td>X</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td>Dark</td> <td></td> <td>X</td> <td>1332</td> <td>x</td> <td></td> <td>=</td> <td></td> </tr> <tr> <td colspan="7">Total Gallons</td> <td></td> <td></td> </tr> </tbody> </table>	ESTIMATION TABLE								Appearance	%	x	Gal/ mi ²	x	mi ² (c)	=	Gal.	Barely Visible		X	25	X		=		Silvery		X	50	X		=		Slightly Colored		X	100	X		=		Brightly Colored		X	200	X		=		Dull		X	666	X		=		Dark		X	1332	x		=		Total Gallons								
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Total Gallons																																																																										
<p>5). Final Calculation (divide gallons by 42):</p>	<p>__ Total gal/42 = __ bbls</p>																																																																									



BP

Regional Oil Spill Response Plan – Gulf of Mexico

Section 1
Quick Guide

BP Spill Reporting Form

Figure 1-2

PLEASE FILL OUT HIGHLIGHTED FIELDS IMMEDIATELY AND REPORT TO THE ENVIRONMENTAL PAGER (713)-612-4106

Date/Time of Spill: _____ **Date of Report:** _____

Date/Time Spill was Discovered: _____ **Time of Report:** _____

Sighted By: _____ Reported By: _____

Facility (Lat/Long) _____ **County/Parish:** _____ **State:** _____

Location: _____ **OCS-G** _____ **Well #:** _____

Area/Block: _____

Description of incident: _____

Spill Source: _____

Type of material released: _____

Quantity Discharged: _____ **Discharge Rate:** _____

Description of spill: (i.e., slick – colored film or layer of oil, sheen – thin clear film or thin layer of oil; rainbow – reflect on type film, size): _____

Length of Time Discharge Occurred: _____ **Quantity:** _____ **Recovered:** _____

Weather: Clear _____ Cloudy _____ Fog _____ Rain _____

Wind: Velocity _____ Dir. (from) _____ Current Dir. (to) _____ Velocity _____

Visibility: _____ Ceiling: _____

Temperature: _____ Wave: Height _____

Did spill affect any water? _____ If yes, describe and name: _____

Size of Oil: Width _____ Length _____

Percent Coverage: _____

Approximate Location of Oil: _____ **Long.** _____

Lat. _____

Direction of Movement: _____

Potential Hazard to Life and Property: _____

Description of effects of spill (on fish, wildlife, vegetation, etc.): _____

Damage: _____ Injuries: _____

Corrective Action Taken: _____

Cause: _____

Explain containment and cleanup measures taken (including equipment and material used): _____

How successful were these efforts (amount recovered): _____

Did representative of outside agency visit the scene? _____

If so, which agencies? _____

Additional remarks and recommendations (include any pertinent comments on public relations observation): _____

Supervisor In Charge

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 10 of 116 Pages
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BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 1
Quick Guide

Report To Regulatory Agencies

<u>Agency</u>	<u>Report By:</u>	<u>Report To:</u>	<u>Time and Date</u>
MMS	_____	_____	_____
NRC	_____	_____	_____
EPA	_____	_____	_____
USCG	_____	_____	_____
LSP	_____	_____	_____
LOSCO	_____	_____	_____
TGLO	_____	_____	_____
TRRC	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NRC Phone # - 1-800-424-8802

NRC Case Number (assigned by the NRC): _____

NOTES:



The Response Group Spill Trajectory Request Form

Figure 1-3

		SPILL TRAJECTORY REQUEST FORM	
THE RESPONSE GROUP		OFFICE: (281) 880-5000	24-HOUR: (800) 651-3942
FAX: (281) 880-5005		EFAX: (281) 596-6976	EMAIL: trajectory@responsegroupinc.com
ROY BARRETT		MOBILE: (713) 906-9866	HOME: (281) 213-8840
JEFF HILL		MOBILE: (832) 493-3153	HOME: (979) 865-9260
COMPANY INFORMATION	Company Name: _____		
	Company Contact Name: _____		
	Phone #: _____		
	Alternate # (ie: Mobile, Pager): _____		
	Fax #: _____		
	Email Address: _____		
SPILL SITE INFORMATION	Source Type (Circle): Platform/Well Pipeline Vessel Facility		
	Source Name & Location (Name/Area/Block): _____		
	Latitude: _____° _____' _____"		Longitude: _____° _____' _____"
	Date & Time of Incident (mm/dd/yy): ____ / ____ / ____ : ____ (Military)		
	Type of Product (ie: Medium Crude): _____		API Gravity _____
	Estimated Volume of Release: _____ Barrels or Gallons		
	Continues Release Rate: _____ bbls/hr		How Long: _____ hrs.
WEATHER CONDITIONS	Wind Direction (From the): _____		Wind Speed: _____ MPH or Knots
	Current Direction (Toward): _____		Current Speed: _____ MPH or Knots
	Air Temperature: _____° C or F		Water Temperature: _____° C or F
	High Tide: _____		Low Tide: _____
	Weather Forecast: _____		
OVERFLIGHT INFORMATION	Date & Time of Overflight (mm/dd/yy): ____ / ____ / ____ : ____ (Military)		
	Leading Edge Location:		
	Latitude: _____° _____' _____"		Latitude: _____° _____' _____"
	Trailing Edge Location:		
	Latitude: _____° _____' _____"		Latitude: _____° _____' _____"
	Length: _____ Feet / Yards / Miles		Width: _____ Feet / Yards / Miles
	Slick Appearance (Percent & Estimated Length & Width)		
	Barely Visible: _____% L x W: _____		Silvery: _____% L x W: _____
	Slight Color: _____% L x W: _____		Bright Color: _____% L x W: _____
	Dull: _____% L x W: _____		Dark: _____% L x W: _____
THE RESPONSE GROUP 13231 CHAMPION FOREST DRIVE, SUITE 310 HOUSTON, TX 77069			

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 12 of 116 Pages
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Initial Response Actions/Mitigation Procedures

Description	<p>BP company employees, contractors, and subcontractors are responsible for maintaining a vigilant watch for oil spill discharges of any magnitude and reporting all discharges to management personnel. In the event the discharge is determined to be from a BP facility or operation, the person in charge as well as on duty field personnel will take immediate action which may include but is not limited to the following:</p> <ul style="list-style-type: none"> • As quickly as possible, safely shut down the operation responsible for the discharge. • Conduct Hazard Assessment to determine the potential for fire, explosion, and hazardous/toxic vapors as well as to define Personal Protection Equipment (PPE) needed by responders. • Identify and evaluate exclusion zone in vicinity of spill site until completion of Hazard Assessment. • Initiate notification of management personnel as well as required government agencies as promptly as possible. Note: The Operations Section Chief is responsible for initial regulatory notifications. • The Person in Charge will assume the duties of Incident Commander until help arrives. • Use explosion proof equipment (i.e., air monitoring equipment) in high concentration vapor areas and monitor for flammable vapors until the response operation is completed. • Adopt a “Safety First” attitude throughout the duration of the emergency response, and continually ensure the safety of all personnel. • Notify BP operations personnel (i.e., platform operators) as well as other company operations that may be impacted by the spill incident. • Person discovering spill will: <ol style="list-style-type: none"> a) Sound alarm and notify Person in Charge immediately b) Shut off ignition points and restrict access to spill area; c) Isolate discharge source pending approval by Person in Charge. • The Person in Charge will initiate evacuation procedures in the event unsafe conditions persist to ensure personnel safety. • Sample discharged material as requested by the Incident Commander by using accepted procedures to prevent sample contamination and to protect the legal validity of the sample.
--------------------	--



<ul style="list-style-type: none"> • Initiate surveillance overflights of spill area at first light or as soon as possible with fixed wing or rotary wing aircraft to determine: <ul style="list-style-type: none"> a) Size and description of oil slick b) Direction of movement c) Coordinates of leading and trailing edge of oil slick d) Sensitivities endangered e) Population areas threatened
<ul style="list-style-type: none"> • Video and photograph spill area daily during surveillance over flights for documentation and operational purposes, dependent upon weather conditions.
<ul style="list-style-type: none"> • Activate the BP Incident Management Team (IMT) along with the Unified Command ICS dependent upon the severity of the emergency event.
<ul style="list-style-type: none"> • Notify Marine Spill Response Corporation, National Response Corporation, and other OSRO'S to respond to the emergency dependent upon spill response requirements.
<ul style="list-style-type: none"> • Obligate all funds required to maintain the coordinated and integrated response activities that are required and/or directed.
<ul style="list-style-type: none"> • Conduct tactical and planning meetings at predetermined time periods along with incident briefings and special purpose meeting which may include: <ul style="list-style-type: none"> a) Unified Command Meetings b) Command Staff Meetings c) Tactics Meetings d) Planning Meetings e) Press Conferences

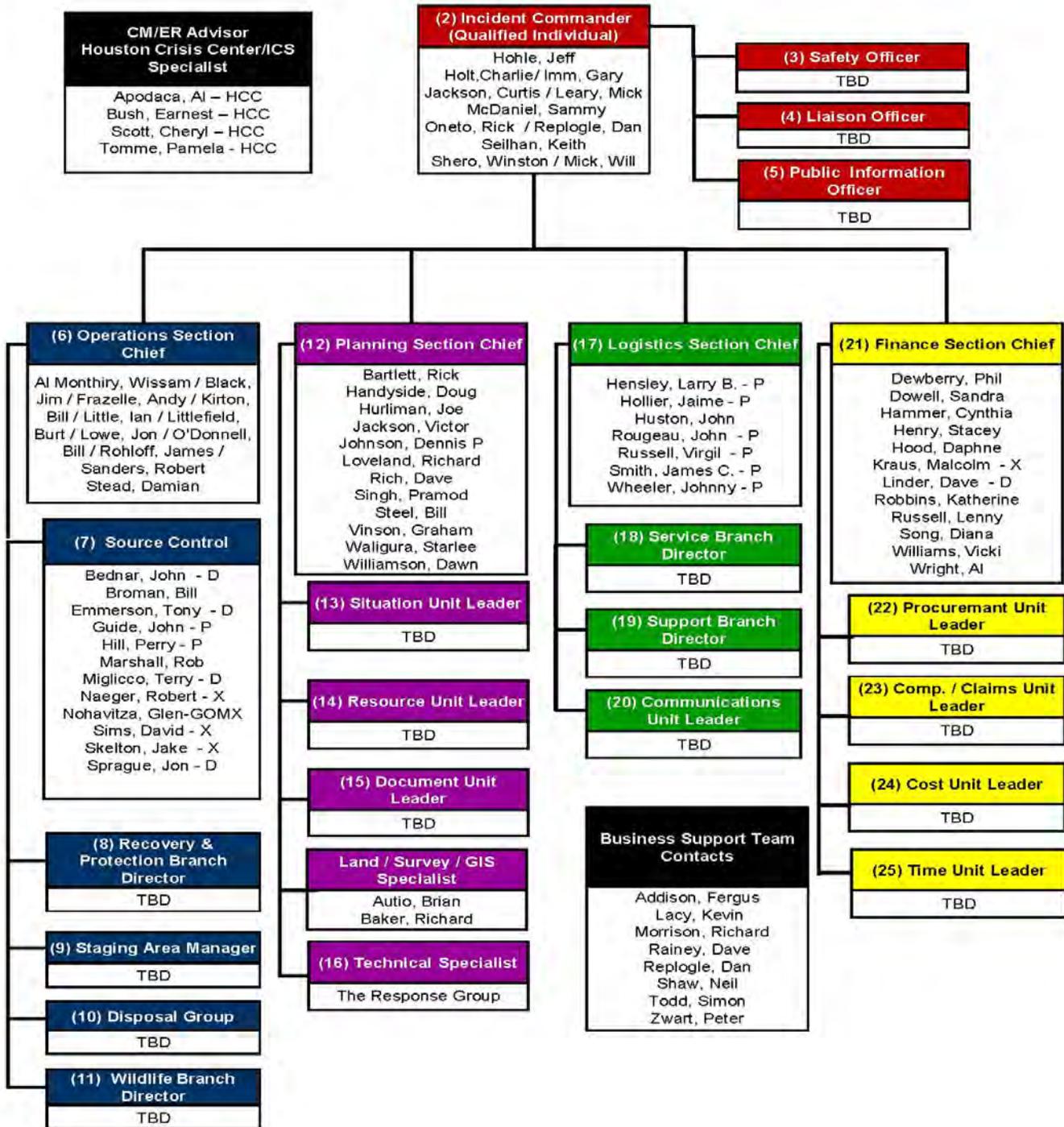
Notifications

Internal and external notifications are a critical part of initiating a response to an oil spill or other emergency. **Figure 1-5** and **Figure 1-6** display internal and external notification procedures for releases of less than 1 barrel greater than 1 barrel respectively. **Figure 1-4** contains flowcharts for notifications. **Figure 1-6 – Figure 1-11** details regulatory notification requirements and contact information for Federal and State Agencies. Additional notification information for Local Agencies can be found in Section 8 of the OSRP. Contact information for Oil Spill Response Organizations (OSROs) and the Spill Response Operating Team (SROT) can be found in **Section 7** of the OSRP. Finally, **Figure 1-10** is the BP Spill Reporting Form. *For detailed information regarding notifications, see **Section 7** and **Section 8** of the OSRP.*



IMT Organization Chart

Figure 1-4a



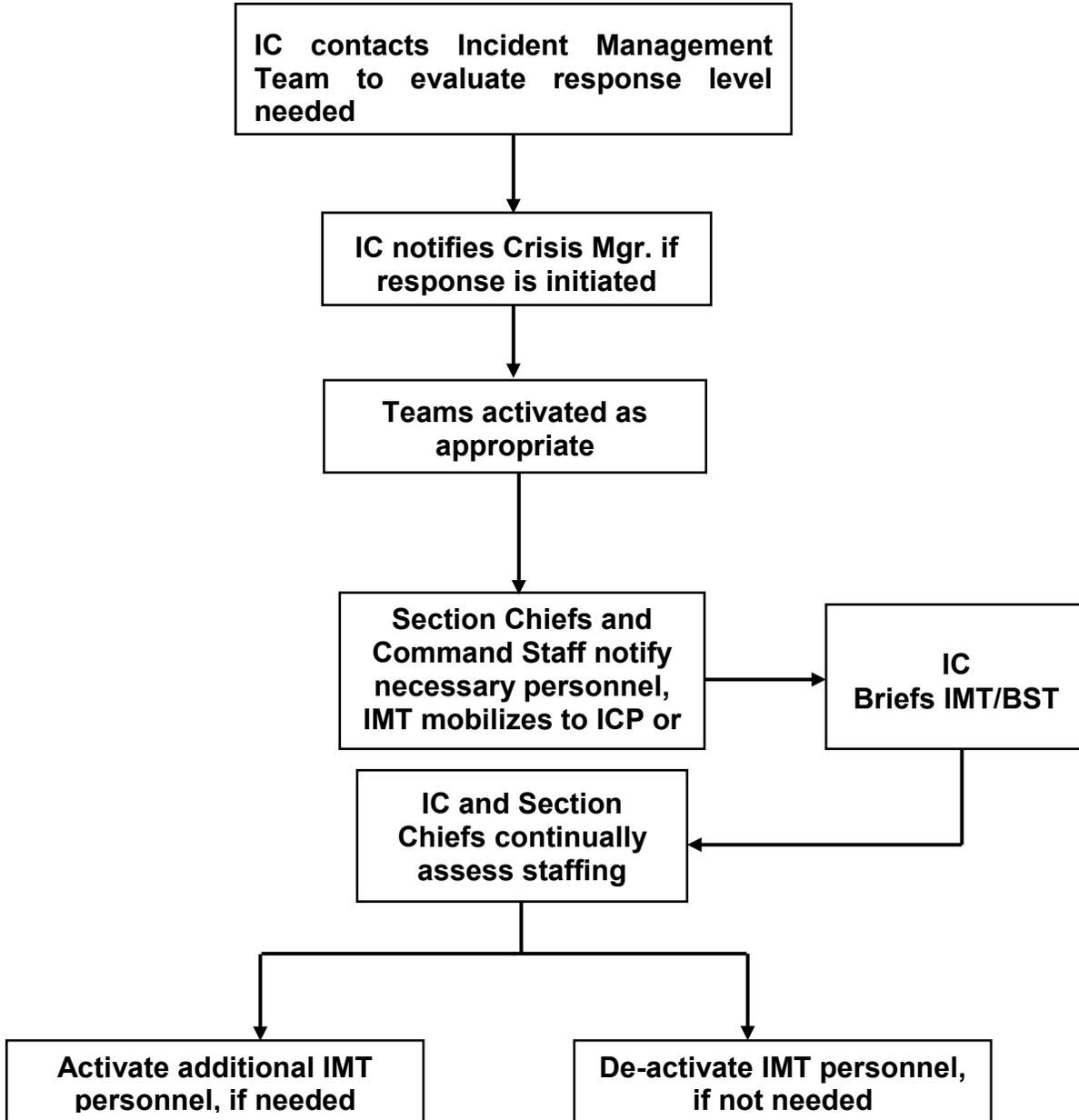
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 Issue Date: 12/01/00
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 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 15 of 116 Pages
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Incident Management Team Activation Procedure

Figure 1-4b



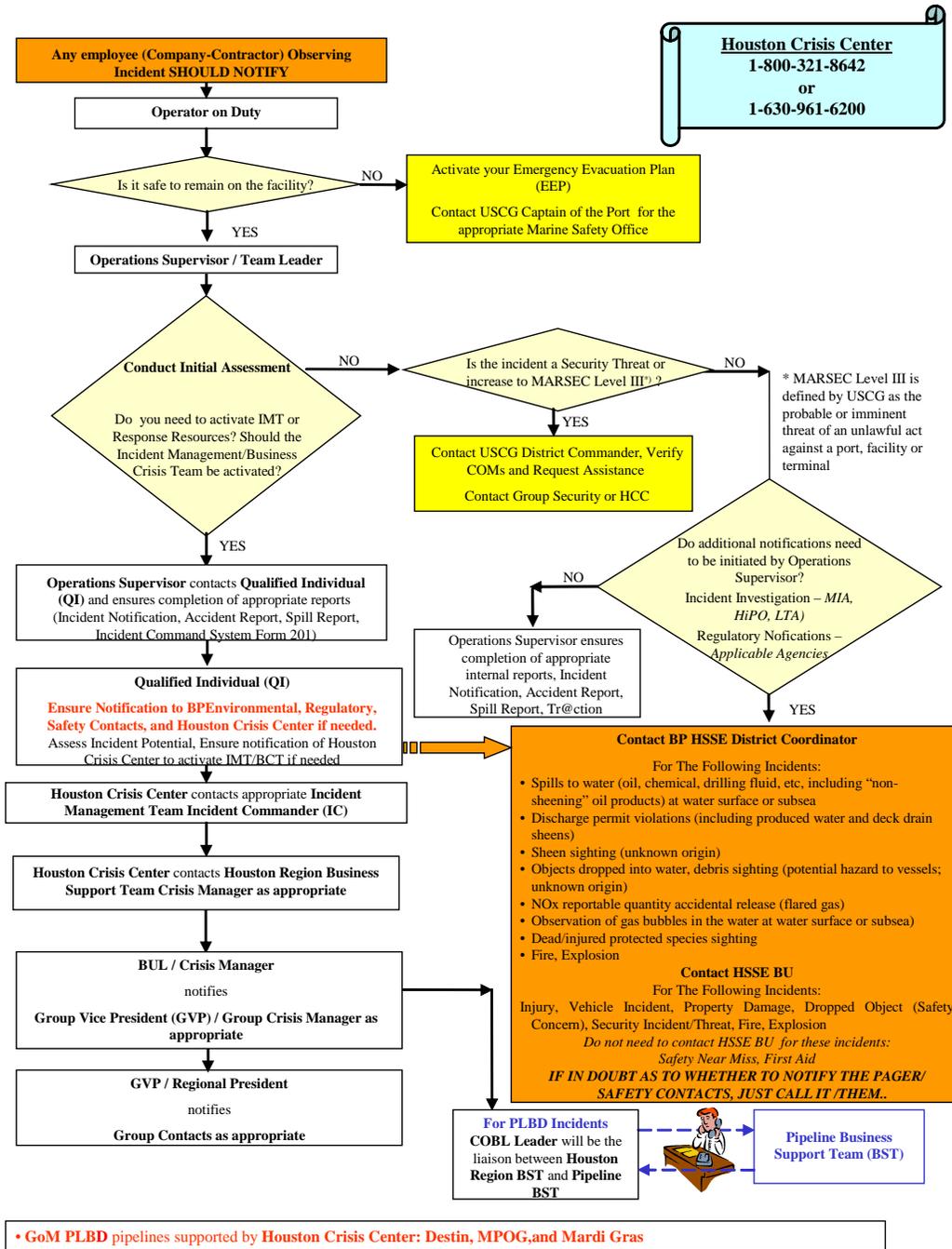


BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 1
Quick Guide

GoM PLBD – Incident Notification Flow Chart

Figure 1-4c



*** Concerns not adequately addressed? Call anonymous (confidential) Hotline 1.800.225.6141**

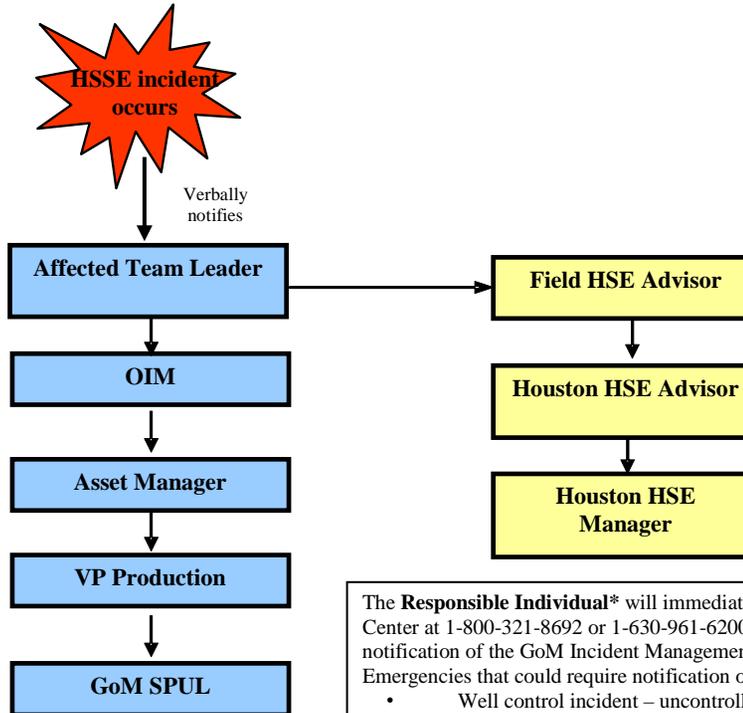
Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

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 Issuing Dept.: GOM SPU
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 Section 1, Page 17 of 116 Pages
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Production Assets (Non-D&C Related) Incident Notification

Figure 1-4d



The **Responsible Individual*** will immediately contact the BP Notification Center at 1-800-321-8692 or 1-630-961-6200 to report an emergency requiring notification of the GoM Incident Management Team.

Emergencies that could require notification of the IMT include:

- Well control incident – uncontrolled blow out
- Stability issue of facility
- Emergency requiring any evacuation of facility
- Or any other issues where the **Responsible Individual*** needs assistance

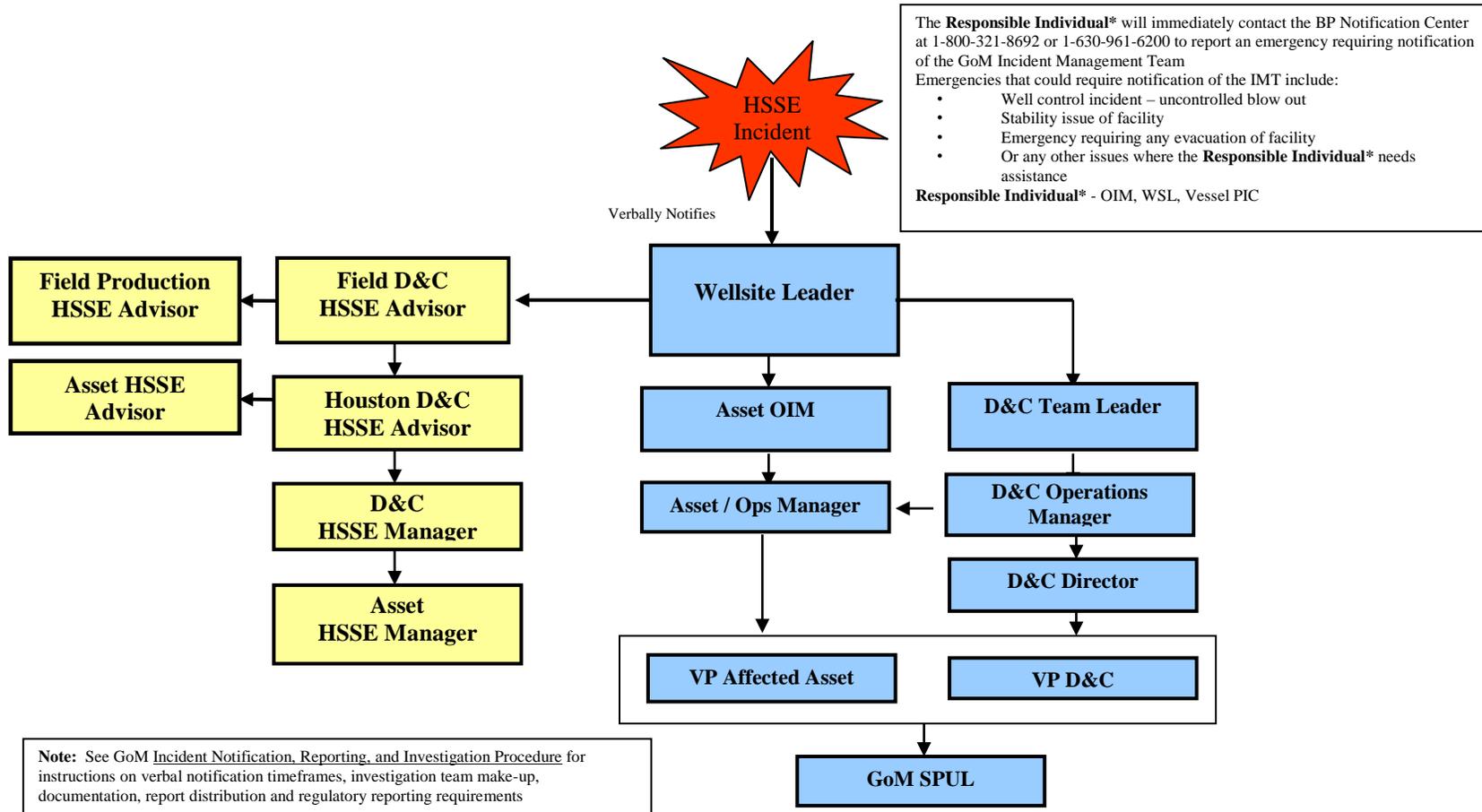
Responsible Individual* - OIM, WSL, Vessel PIC

Note: See GoM Incident Notification, Reporting, and Investigation Procedure for instructions on verbal notification timeframes, investigation team make-up, documentation, report distribution and regulatory reporting requirements.



BP Owned Facilities – D&C Incident Notification

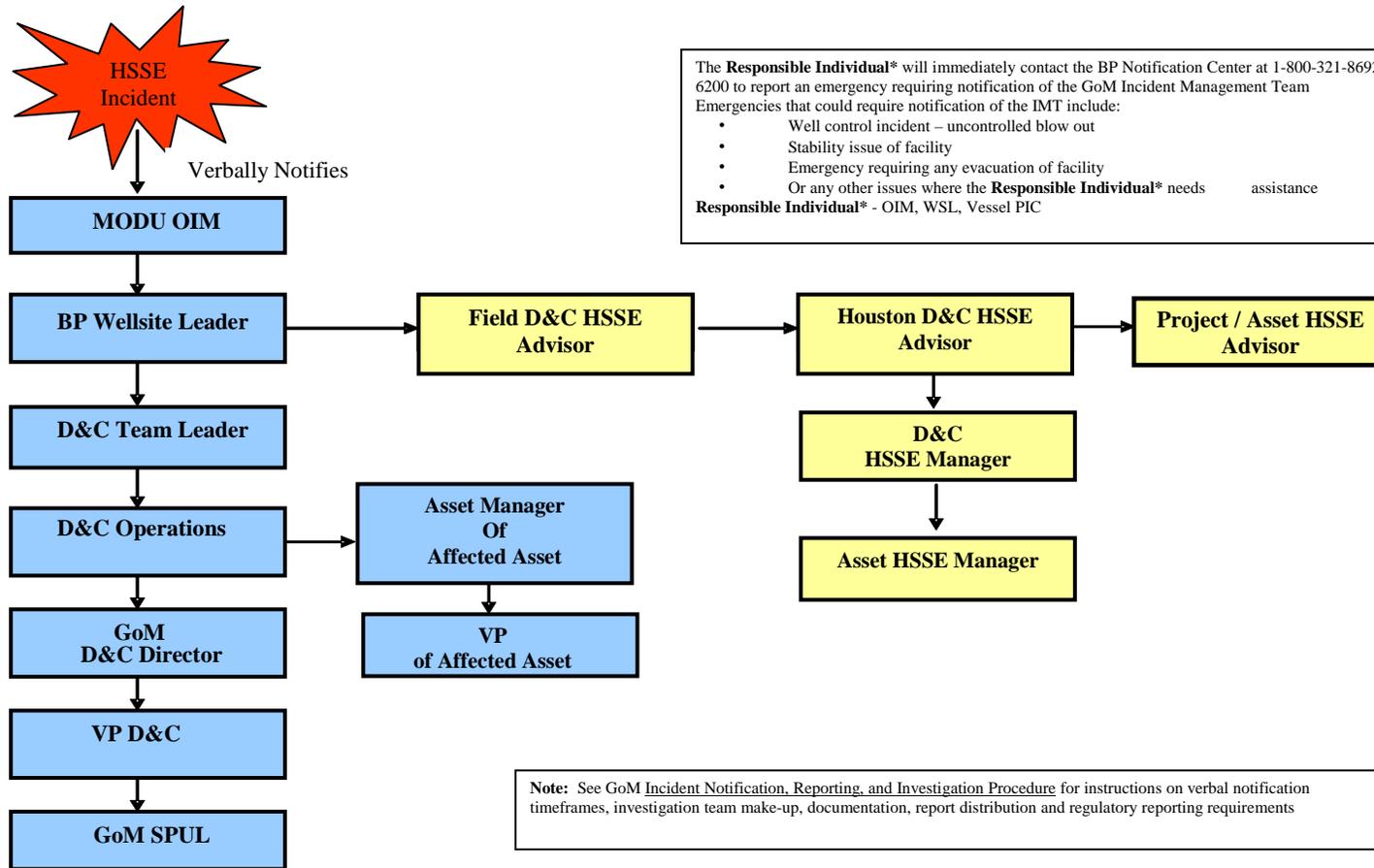
Figure 1-4e





MODU Incident Notification

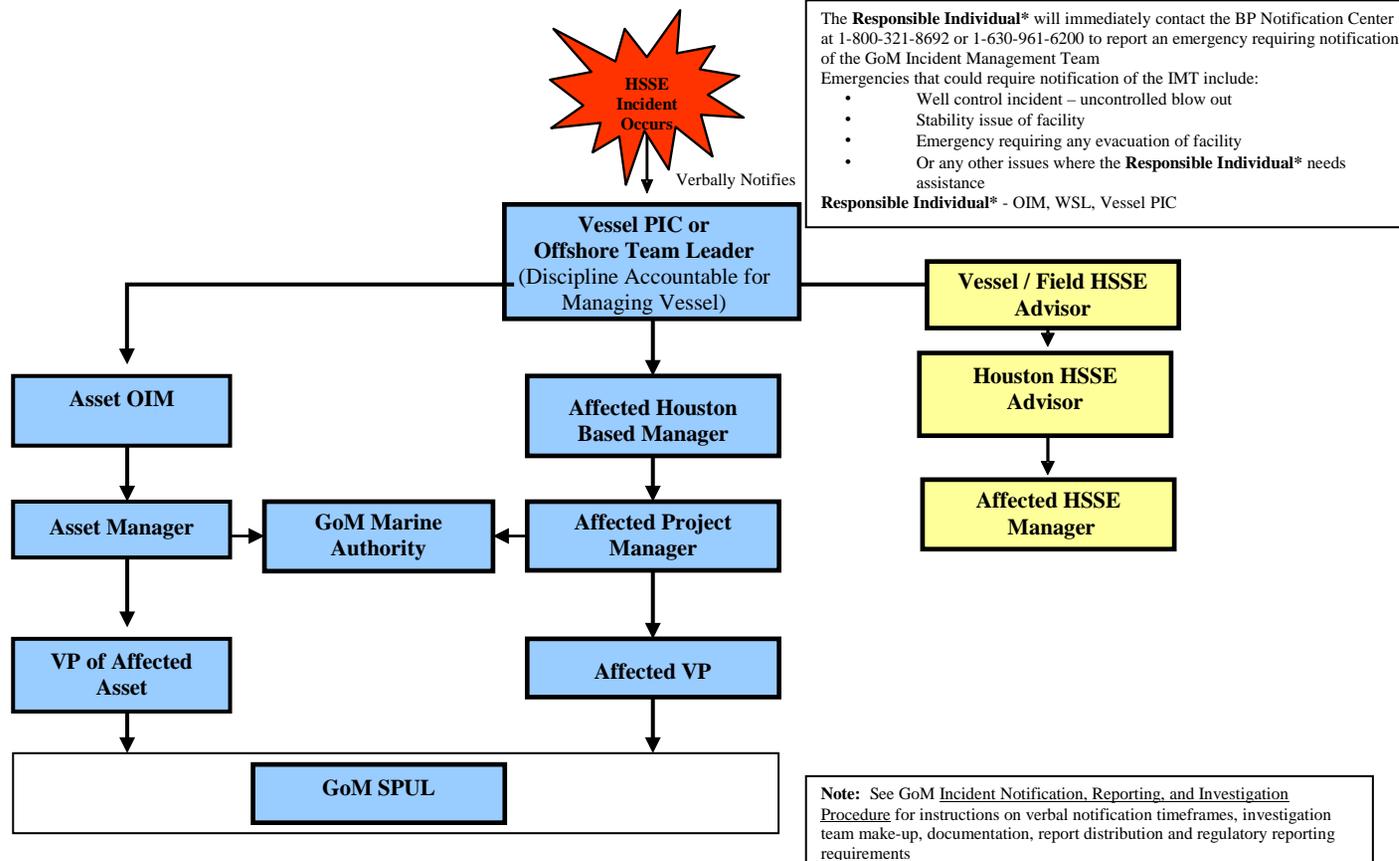
Figure 1-4f





Vessels – Incident Notification

Figure 1-4g





Incident Management Team and Internal Notifications

Figure 1-5

Please see the BP Quick Guide Organizational Supplement, found in the front pocket.



Federal Agency Regulatory Notifications

Figure 1-6

National Response Center	Phone Number
NRC – Hotline	800-424-8802
<p>Contact NRC immediately if any of the following conditions occur:</p> <ul style="list-style-type: none"> • A sheen, slick, or spill is observed or discovered. • A reportable quantity or more of a hazardous substance is released. • A DOT gas pipeline release causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery. • A DOT oil or condensate pipeline spill exceeds 5 gallons or causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery. <p>Verbal reports to the NRC should not state that a DOT pipeline was involved whenever applicable. A RSPA F7000-1 Form (<i>Accident Report – Hazardous Liquid Pipeline Systems</i>) should be completed and submitted to the DOT within 30 days to:</p> <p>Information Resources Manager Office of Pipeline Safety, RSPA U. S. Dept. of Transportation – Room 2335 400 Seventh Street SW Washington D. C. 20590</p>	

USCG SECTOR / MSU	Phone Number
Sector Corpus Christi 8930 Ocean Dr. Corpus Christi, TX 78419	(361) 939-6393 (24 hrs) (361) 939-6349 (24 hrs) (361) 939-6240 Fax
Sector Houston – Galveston 9640 Clinton Drive Houston, TX 77029	(713) 671-5100 Office (713) 671-5113 (24 hrs) (713) 671-5147 Fax
MSU Port Arthur 2901 Turtle Creek Drive Port Arthur, TX 77642	(409) 723-6500 Office (409) 719-5000 (24 hrs) (409) 723-6534 Fax
Sector New Orleans 1615 Poydras, 7 th Floor New Orleans, LA 70112	(504) 846-5923 Office (504) 589-6196 (24 hrs) (504) 846-5919 Fax
MSU Morgan City 800 David Drive RM 232 Morgan City, LA 70380	(985) 380-5320 (24 hrs) (985) 385-1687 Fax



Federal Agency Regulatory Notifications (Cont'd)

Figure 1-6

USCG SECTOR / MSU (continued)	Phone Number
Sector Mobile Building 101, Brookley Complex Mobile, AL 36615	(251) 441-5720 Office (251) 441-5121 (24 hrs) (251) 441-6168 Fax
Sector Jacksonville 4200 Ocean Street Atlantic Beach, FL 32233	(904) 564-7500 Office (904) 564-7511/7512 (24 hrs) (904) 564-7519 Fax
Sector Miami 100 Macarthur Causeway Miami Beach, FL 33139	(305) 535-8700 Office (305) 535-4472/4473 (24 hrs) (305) 535-8761 Fax
MSU St. Petersburg: Prevention Department Tampa 155 Columbia Drive Tampa, FL 33606	(813) 228-2191 Office (727) 824-7506 (24 hrs) (813) 228-2050 Fax

Reporting Updates

Report significant changes or new information to the appropriate USCG Marine Safety Office instead of the NRC. Include the NRC number assigned to the initial spill. Update other agencies as appropriate.

MMS	Phone Number
New Orleans 990 North Corporate Drive, Suite 100 New Orleans, LA 70123	(504) 734-6740 Office (504) 734-6742 Office (504) 734-6741 Fax (504) 615-0114 Cell Phone
Houma 3804 Country Drive P.O. Box 760 Bourg, LA 70343-0760	(985) 853-5884 Office (985) 879-2738 Fax (985) 688-6050 Cell Phone
Lafayette 201 Energy Parkway, Suite 410 Lafayette, LA 70508	(337) 289-5100 Office (337) 354-0008 Fax (337) 280-0227 Cell Phone
Lake Charles 620 Esplanade Street, Suite 200 Lake Charles, LA 70607-2984	(337) 480-4600 Office (337) 477-9889 Fax (337) 370-2419 Cell Phone



Federal Agency Regulatory Notifications (Cont'd)

Figure 1-6

MMS	Phone Number
Lake Jackson Oak Park Center 102 Oak Park Drive, Suite 200 Clute, TX 77531	(979) 238-8121 Office (979) 238-8122 Fax (979) 292-9334 Cell Phone
Pipeline Section 1201 Elmwood Park Boulevard, MS 5232 New Orleans, LA 70123-2394	(504) 736-2814 Office (504) 736-2408 Fax (504) 452-3562 Cell Phone
<p>Spill Reporting You must report all spills of <i>1 barrel or more</i> to the appropriate MMS district office without delay. For spills related to drilling or production operations:</p> <ul style="list-style-type: none"> • Fax the appropriate district office to report spills of 10 barrels or less. • Phone the appropriate district office immediately to report spills in excess of 10 barrels. • You must also immediately notify the appropriate MMS District Office and the responsible party, if known, if you observe a spill resulting from operations at another offshore facility. <p>Within 15 days, confirm all spills of 1 barrel or more in a written follow-up report to the appropriate MMS district office. For any spill of 1 barrel or more, your follow-up report must include the cause, location, volume, and remedial action taken. In addition, for spills of more than 50 barrels, the report must include information on the sea state, meteorological conditions, and size and appearance of the slick.</p> <p>Pipeline Reporting You must immediately notify the Pipeline Section of any serious accident, serious injury or fatality, fire, explosion, oil spills of <i>1 barrel or more</i> or gas leaks related to lease term or right-of-way grant pipelines. Phone the Pipeline Section immediately to report all pipeline spills of 1 barrel or more.</p>	



Federal Agency Regulatory Notifications (Cont'd)

Figure 1-6

Flower Garden Banks	Phone Number
Office: Galveston, Texas George Schmahl Marine Sanctuary Division Lisa Symons	(409) 621-5151 Office (409) 621-5151 x102 (George Schmahl) (979) 693-6018 Home (979) 229-6542 Cell (800) 715-3271 Pager (800) 218-1232 Pager (301) 529-1860 Cell
Spill Reporting You must report all spills from leases & ROW located near the Flower Garden Banks.	

Department of Transportation Office of Pipeline Safety	Phone Number
Notify NATIONAL RESPONSE CENTER	See Section 8, Page 3
Spill Reporting You must report any discharge from DOT Pipeline immediately.	



Federal Agency Regulatory Notifications (Cont'd)

Figure 1-6

Environmental Protection Agency	Phone Number
REGION IV Superfund/ERRB 61 Forsyth Street Atlanta, GA 30303 Oil Spill NPDES Permit Violations	 (404) 562-8700 (404) 562-9279 (Issuances only)
REGION VI 6SF-R 1445 Ross Avenue Dallas, TX 75202 Oil Spill Alternate Number NPDES Permit Violations	 (866) EPASPILL (866) 372-7745 (214) 665-6444 (214) 665-7180 (Dina Granado)
Spill Reporting Contact EPA within 24 hours if any of the following conditions occur: <ul style="list-style-type: none"> • Any unanticipated bypass exceeding limitation in permit. • Any upset condition which exceeds any effluent limitation in permit. • Violation of maximum daily discharge limitation or daily minimum toxicity limitation. • Chemical spills of a reportable quantity. 	



State Of Texas Regulatory Notifications

Figure 1-7

Agency	Phone Number
General Land Office (TGLO) Stephen F. Austin Building 1700 Congress Avenue, # 340 Austin, TX 78701	(800) 832-8224 (Emergency Hotline) (800) 998-4GLO (Toll-Free) (512) 463-5001
Railroad Commission of Texas (TRRC) Main Office 1701 North Congress P.O. Box 12967 Austin, TX 78711-2967	(877) 228-5740 (Office) (512) 463-6788 (Emergency, 24 hrs) (512) 463-7288
RRC District 2 Office 115 Travis, Suite 1610 San Antonio, TX 78205	(210) 227-1313 (24 hrs)
RRC District 3 Office 1706 Seamist Drive Ste 501 Houston, TX 77008-3135	(713) 869-5001 (24 hrs)
RRC District 4 Office 10320 IH 37 Corpus Christi, TX 78410	(361) 242-3113 (24 hrs)
Texas Parks and Wildlife	800-792-1112
<p>TRRC/TGLO When a sheen, slick, or spill is observed or discovered, or a chemical release occurs, call the TRC Oil & Gas Division and the Texas General Land Office's 24-hour hotline immediately.</p> <p>Parks and Wildlife When a spill impacts or has potential to impact a state wildlife management area, call the Texas Parks and Wildlife Department immediately.</p>	
Texas LEPC/Sheriff's Department	Phone Number
Aransas County	(361) 729-2222 (24 hrs)
Brazoria County	(979) 849-2441 (24 hrs)
Calhoun County	(361) 553-4646 (24 hrs)
Chambers County	(409) 267-8322 (24 hrs)
Galveston County	(409) 766-2322 (24 hrs)
Kleberg County	(361) 595-8500 (24 hrs)
Matagorda County	(979) 245-5526 (24 hrs)
Nueces County	(361) 887-2222 (24 hrs)
Willacy County	(956) 689-5576 (24 hrs)



State Of Louisiana Regulatory Notifications

Figure 1-8

Agency	Phone Number
Emergency Response Commission C/O Office of State Police	(877) 925-6595 (225) 925-6595 (24 hrs, Louisiana one-call emergency number)
Department of Environmental Quality Single Point of Contact	(225) 342-1234 (24 hrs) (225) 925-6595 (Emergency)
Oil Spill Response Coordinator, Louisiana 625 North Fourth St Ste 800 Baton Rouge, LA 70802	(225) 219-5800
Louisiana Department of Environmental Quality (LDEQ) P.O. Box 4312 Baton Rouge, LA 70821-4312	(225) 219-3953 (225) 342-1234 (24 Hour Hotline) (225) 219-3640 (SPOC)
Louisiana Department of Natural Resources (LDNR)	(225) 342-4500 (Business Hours) (225) 342-5505 (After Hours)
State or Federal Wildlife Management Pass à l'Outre Wildlife Refuge	(337) 373-0032 (New Iberia Office)
Rockefeller Wildlife Refuge	(337) 538-2276
US Fish and Wildlife Service	(800) 344-WILD
Delta Wildlife Refuge	(985) 882-2000
McFadden National Refuge	(409) 971-2909
Sabine National Refuge	(337) 762-3816
Breton Sound National Wildlife Refuge	(985) 882-2000



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 1-8

In the circumstances shown below, call the State Police 24-hour Louisiana Emergency Hazardous Materials hotline. In addition, call the LEPC that has jurisdiction over the facility and the LEPCs for the affected parish. Calls should be made no later than one hour after becoming aware of the emergency.

- When an *emergency condition* exists which could reasonably be expected to endanger the public, cause significant environmental damage, or cause severe property damage. The hotline will inform the Louisiana Department of Environmental Quality (LDEQ).
- When one of the following occurs and the spill or release escapes to water, air, or ground outside the facility boundaries:
 - *Ten gallons or more (100 lbs.)* of crude oil is spilled.
 - *Twenty MCFD or more* of sweet natural gas are released.
 - A release of sour gas occurs with a hydrogen sulfide (H₂S) component of *more than 100 pounds*.
 - A hazardous substance release meets or exceeds its *Reportable Quantity*.
- Facilities must make follow-up written reports within 5 days after the release occurs to the LEPC with jurisdiction over the facility, and to the:

Emergency Response Commission
c/o Department of Public Safety and Correction
Office of State Police
Transportation and Environmental Safety Section, Mail Slip 21
P. O. Box 66614
Baton Rouge, LA 70896



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 1-8

Notify the LDEQ under these conditions:

- When an *emergency condition* exists which could reasonably be expected to endanger the public, cause significant environmental damage, or cause severe property damage. A separate call is not needed; as stated above, the State Police hotline will notify the LDEQ. *Written follow-up to the DEQ is required within seven days. Written reports should be mailed to:*

**LA Department of Environmental Quality
Attention Surveillance Division – SPOC
“Unauthorized Discharge Notification Report”
P. O. Box 4312
Baton Rouge, LA 70821-4312**

- When one of the following occurs *and* the spill or release is *not totally contained*:
- *More than one barrel* of crude oil is spilled.
- A release of sweet natural gas exceeds *1 MMCFD*.
- A release of sour gas occurs with an H2S component of *more than 100 pounds*.
- A hazardous substance release exceeds its *RQ*.

Call the LDNR immediately, but no later than two hours after discovery, for any of the following:

- A DOT *gas* pipeline release causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery.
- A DOT *oil or condensate* pipeline spill exceeds 5 gallons or causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery.

Verbal reports to the DNR should note that a DOT pipeline was involved.

If a spill impacts or has potential to impact a state or federal wildlife refuge, notify the appropriate refuge staff.



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 1-8

LA Parish Sheriff's Department	Phone Number
Cameron Parish (Cameron)	(337) 775-5111 (24 hrs)
Vermilion Parish (Abbeville)	(337) 893-0871 (24 hrs)
Iberia Parish (New Iberia)	(337) 369-3714 (24 hrs)
St. Mary Parish (Franklin)	(337) 828-1960 (24 hrs)
Terrebone Parish (Houma)	(985) 876-2500 (24 hrs)
LaFourche Parish (Thibodeaux)	(985) 449-2255 (24 hrs)
Jefferson Parish (Gretna)	(504) 363-5500 (24 hrs)
Plaquemines Parish (Pointe A La Hache)	(504) 564-2525 (24 hrs)
St. Bernard Parish (Chalmette)	(504) 271-2501 (24 hrs)
Orleans Parish (New Orleans)	(504) 822-8000 (24 hrs)



State Of Mississippi Regulatory Notifications **Figure 1-9**

Agency	Phone Number
Mississippi Emergency Management Agency (MEMA) P.O. Box 4501 Jackson, MS 39296-4501	(601) 933-6362 (24 hrs) (800) 222-6362 (24 hrs)
Mississippi DEQ Bureau of Pollution Control (MDEQ) P.O. Box 10385 Jackson, MS 39289-0385 Oil and Hazardous Coordinator – Eric Deare	(601) 352-9100 (24 hrs) (800) 222-6362 (24 hrs)
Mississippi Department of Marine Resources (MDMR) 1141 Bayview Avenue, Suite 111 Biloxi, MS 39530 Lieutenant Frank Wescovich	(228) 374-5000 (228) 523-4134 (24 hrs) (Marine Patrol)
Mississippi State Oil and Gas Board (MS&GB) 500 Greymont Avenue, Suite E Jackson, MS 39202 Kent Ford	(601) 354-7142 (24 hrs)
When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the Mississippi state agencies listed in the table.	

Mississippi EMA & Sheriff's Offices	Phone Number
Hancock County EMA Sheriff's Office	(228) 466-8320 (228) 466-6900
Harrison County EMA Sheriff's Office	(228) 865-4002 (228) 896-3000
Jackson County EMA Sheriff's Office	(228) 769-3111 (228) 769-3063
When five barrels or more of crude oil or condensate are spilled, call the appropriate Mississippi CCD agency or sheriff's office immediately.	



State Of Alabama Regulatory Notifications

Figure 1-10

Agency	Phone Number
AL Department of Environmental Management (ADEM) Mobile Field Office 2204 Perimeter Road Mobile, AL 36615 Chief of Mobile Branch (John Carlton)	(251) 450-3400 (24 hrs) (251) 242-4378 (24 hrs) (800) 424-8802 (State Warning Point)
AL Department of Environmental Management (ADEM) P.O. Box 301463 Montgomery, AL 36130-1463	(800) 843-0699 (24 hrs)
AL Oil and Gas Board (AO&GB) 4173 Commander Drive Mobile, AL 36615	(251) 438-4848 (251) 943-4326 (24 hrs)
AL Oil and Gas Board (AO&GB) Tuscaloosa, AL P.O. Box "O" Tuscaloosa, AL 35486-0004	(205) 349-2852
AL Civil Defense Mobile, AL	(251) 460-8000 (24 hrs)
AL Dept. of Conservation & Natural Resources (ADCNR) State Lands Division 64 North Union Street, Room 464 Montgomery, AL 36130 Nancy Cone	(334) 242-3467
When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the ADEM immediately. In addition, call the appropriate office of the AO&GB.	



State Of Florida Regulatory Notifications

Figure 1-11

Agency	Phone Number
State Warning Point (24-hour)	(800) 320-0519 or (850) 413-9911 (850) 413-9900 Emergency Response
Florida DEP District Emergency Response Offices (8am – 5pm) Tallahassee Pensacola Jacksonville Orlando Tampa Ft. Myers Ft. Lauderdale	(850) 245-2010 (850) 595-8300 (904) 807-3300 x3246 (407) 894-7555 (813) 632-7600 (239) 332-6975 (561) 681-6600
Florida Marine Patrol (24-hour)	(888) 404-3922

When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the State Warning Point, Florida Bureau of Emergency Response, and the Florida Marine Patrol.

The following information should be provided upon notification to Florida authorities:

1. Name, address, and telephone number of person reporting
2. Name, address, and telephone number of person responsible for the discharge or release, if known
3. Date and time of the discharge or release
4. Type or name of substance discharged or released
5. Estimated amount of the discharge or release
6. Location or address of discharge or release
7. Source and cause of the discharge or release
8. Size and characteristics of area affected by the discharge or release
9. Containment and cleanup actions taken to date
10. Other persons or agencies contacted



Alabama & Florida Local Notifications

Figure 1-11

Contact Information	Phone Number
<u>Mobile, AL</u>	
Sheriff's Department	(251) 574-2423
Police Department	(251) 208-7211
Fire Department	(251) 208-7351
Port Authority Security Department	(251) 441-7777 (24 hrs)
Emergency Management Agency	(251) 460-8000 (24 hrs)
<u>Pensacola, FL</u>	
Florida Highway Patrol	(850) 484-5000
Police Department	(850) 435-1900
Fire Department	(850) 436-5200

National Response Corporation Contact Information

Figure 1-12a

International Operations Center	
Toll Free Hotline – Spills Only	(800) 899-4672
Telephone	(631) 224-9141
Facsimile	(631) 224-9086
Telex	496 173 80
Email	iocdo@nrcc.com
Gulf of Mexico Operations Center	
Toll Free Hotline	(877) 334-4466
Telephone	(985) 380-3166
Facsimile	(985) 380-3163
Email	iocdo@nrcxchange.nrcc.com



Response Organization and Structure

BP's emergency response organization is designed to manage the response to any emergency involving BP's operations. The organizational structure of the IMT is based on NIMS ICS and operates within a tiered response framework, which allows for the mobilization of resources at varying levels as dictated by incident circumstances. **Figure 1-13** display a general and a detailed representation of the Incident Management Team Organizational structure within BP.

The Unified Command structure allows all agencies with responsibility for the incident, whether geographical or functional, to manage an incident by establishing a common set of incident objectives and strategies. The Unified Command is responsible for the overall management of the incident and directs incident activities including the development and implementation of strategic decisions as well as approving the ordering and releasing of resources. **Figure 1-13** displays the Unified Command structure within the BP response organization. *For detailed information regarding the response organization and structure, please see **Section 4** of the OSRP.*

Multi-Tiered Response Organization – Tactical Response Team

BP's emergency response organization is designed to manage the response to any emergency involving BP's operations. It consists of three interfunctional tiers, each with its own response team, roles, and responsibilities. The first tier is the Tactical Response Team (TRT). The TRT is comprised of the highly trained personnel who initially respond to the incident and conduct the at-the-scene, hands-on tactical response operations. This team may include BP personnel (BP Strike Team), response contractors (OSROs), and government agency personnel (police and/or fire departments). Upon activation of an IMT, the TRT is integrated into and forms the bulk of the Operations Section of the IMT.

Multi-Tiered Response Organization – Incident Management Team

BP's Incident Management Teams are primarily comprised of BP personnel; however, the IMT may include BP Americas Response Team members, government agency personnel, and/or contractors. The primary roles of the IMT are:

- to provide strategic direction to incident response operations
- support the TRT
- address issues best handled at the IMT level
- interface with/provide information to external parties.

The organizational structure of the IMT is based on NIMS ICS and operates within a tiered response framework, which allows for the mobilization of resources at varying levels as dictated by incident circumstances. IMT duties and responsibilities are illustrated in **Figure 4-2**.

Refer to **Figure 4-1** for the BP IMT Organization Chart. The IMT Organization Chart is illustrated in **Figure 7-1** while the names and phone numbers for IMT members are listed in **Figure 7-6a**.



Multi-Tiered Response Organization – Business Support Team

The third tier of BP’s emergency response organization is the Business Support Team (BST). The BST has two basic responsibilities – to provide support to the IMT and to address ancillary issues that are related to the incident but fall outside the IMT’s responsibility to manage the immediate incident. Examples of BST responsibilities include:

•	Identify potential resources for use by the IMT
•	Liaise with local government representatives to mitigate potential ramifications of the incident on current or future legislation
•	Serve as communication conduit between the IMT and the Group Crisis Team
•	Assist in any matters or issues as requested by the IMT, e.g. media inquiries, HR, press releases
•	Provide assistance and support to the Group Crisis Team in the development of the strategic response to the incident
•	IP Worksheet assessment or further assessment of incident potential

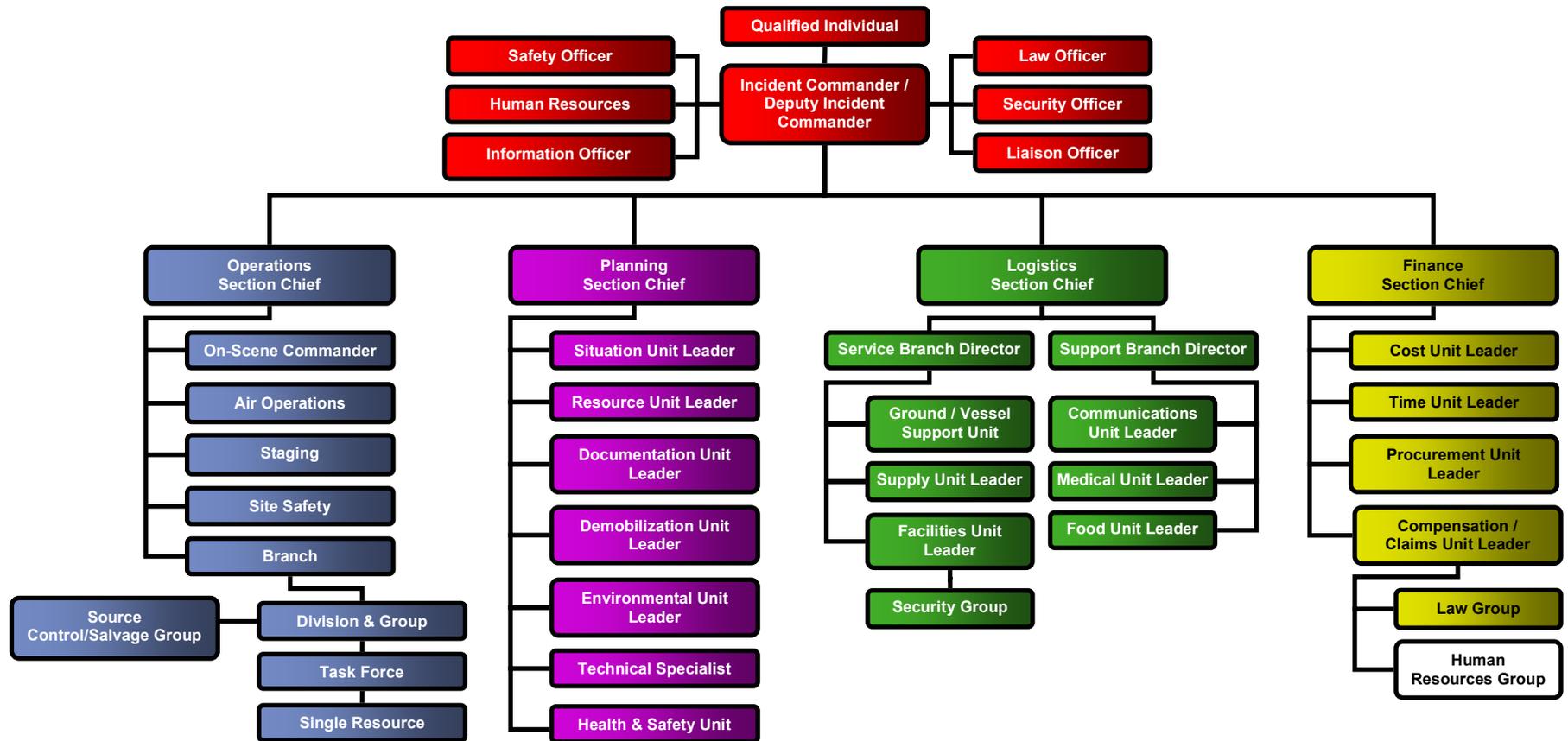
The BST is small in comparison to a typical IMT, consisting of up to nine advisors who work in support of the BST Business Support Manager. It is important to note that the BST does not give response directions to the IMT. However, it is the responsibility of the BST Business Support Manager to confirm the qualifications of the Incident Commander for leading the IMT and, if appropriate, to designate a new Incident Commander to lead the IMT.



BP
Regional Oil Spill Response Plan – Gulf of Mexico

Incident Management Team Organizational Chart

Figure 1-13



Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Appendix A, Page 39 of 116 Pages
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G. Initial ICS Responsibilities

BP Incident Management Team Duties and Responsibilities Checklist	
INCIDENT COMMANDER (IC) (QUALIFIED INDIVIDUAL) (QI)	
<i>Responsible for overall command and control of emergency response effort</i>	
*	Response Actions
	Review common responsibilities.
	Review Incident Commander responsibilities and serve in such capacity until IMT is activated and in place.
	Serve as initial point of contact for RP personnel in initial response.
	Assess incident situation and ensure appropriate response steps are being taken.
	Ensure adequate safety measures are in place.
	Ensure regulatory notifications have been completed.
	Establish appropriate communications with FOSC, SOSC and other federal and state officials, as appropriate.
	Oversee initial response actions.
	Notify and activate Oil Spill Removal Organizations as is appropriate.
	Obligate funds, as is appropriate, to support the conduct of incident response activities.
	Ensure activation of Incident Management Team and The Response Group is completed.
	Request maps and trajectories from The Response Group.
	Perform additional responsibilities as designated by BP.
	Review general ICS procedures and common responsibilities.
	Obtain a briefing from the prior IC (201 Briefing), if applicable.
	Determine Incident Objectives & general direction for managing the incident.
	Establish the immediate priorities.
	Establish an ICP.
	Brief Command Staff and General Staff.
	Establish an appropriate organization.
	Ensure planning meetings are scheduled as required.
	Approve and authorize the implementation of an IAP.
	Ensure that adequate safety measures are in place.
	Coordinate activity for all Command and General Staff.
	Coordinate and serve as primary on-site contact with key people and officials.
	Approve requests for additional resources or for the release of resources.
	Keep agency administrator informed of incident status.
	Approve the use of trainees, volunteers, and auxiliary personnel.
	Serve as primary spokesperson and authorize release of information to the news media.
	Ensure ICS 209 is completed and forwarded to appropriate higher authority.
	Order the demobilization of the incident when appropriate.
	Supervise incident response operations and ensure that they are carried out in a manner consistent with BP's policy, appropriate government directives, and the needs and concerns of impacted areas.
	Analyze incident potential.
	Serve as primary on-site contact person for BP senior management, government representatives, and BP partners.
	Ensure that source control and response operations are carried out safely and closely coordinated.
	Monitor and evaluate effectiveness of source control and response operations.
	Approve and authorize implementation of General Plan.
	Consider need for an alternate or backup person for extended (24 hour) coverage.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
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 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 40 of 116 Pages
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BP Incident Management Team Duties and Responsibilities Checklist	
SAFETY OFFICER	
<i>Responsible for the overall safety of emergency response operations</i>	
*	Response Actions
	Review general ICS procedures and common responsibilities.
	Participate in tactics and planning meetings, and other meetings and briefings as required.
	Identify hazardous situations associated with the incident.
	Review the IAP for safety implications.
	Provide safety advice in the IAP for assigned responders.
	Exercise emergency authority to stop and prevent unsafe acts.
	Investigate accidents that have occurred within the incident area.
	Assign assistants, as needed.
	Review and approve the medical plan (ICS Form 206).
	Develop the Site Safety Plan and publish a summary (ICS Form 208) as necessary.

BP Incident Management Team Duties and Responsibilities Checklist	
LIAISON OFFICER	
<i>Responsible for assuming main point of contact role for regulatory agency involvement</i>	
*	Response Actions
	Review general ICS procedures and common responsibilities.
	Be a contact point for Agency Representatives.
	Maintain a list of assisting and cooperating agencies and Agency Representatives, including name and contact information. Monitor check-in sheets daily to ensure that all Agency Representatives are identified.
	Assist in establishing and coordinating interagency contacts.
	Keep agencies supporting the incident aware of incident status.
	Monitor incident operations to identify current or potential inter-organizational problems.
	Participate in planning meetings, providing current resource status, including limitations and capability of assisting agency resources.
	Coordinate response resource needs for Natural Resource Damage Assessment and Restoration (NRDAR) activities with the OSC during oil and HAZMAT responses.
	Coordinate response resource needs for incident investigation activities with the OSC.
	Ensure that all required agency forms, reports and documents are completed prior to demobilization.
	Brief Command on agency issues and concerns.
	Have debriefing session with the IC prior to departure.
	Coordinate activities of visiting dignitaries.



**BP Incident Management Team
Duties and Responsibilities Checklist**

PUBLIC INFORMATION OFFICER

Responsible for developing and releasing information about the incident and managing personnel issues due to accidents/injuries

*	Response Actions
	Review general ICS procedures and common responsibilities.
	Determine from the IC if there are any limits on information release.
	Develop material for use in media briefings.
	Obtain IC approval of media releases.
	Inform media and conduct media briefings.
	Arrange for tours and other interviews or briefings that may be required.
	Manage a Joint Information Center (JIC) if established.
	Obtain media information that may be useful to incident planning.
	Maintain current information summaries and/or displays on the incident and provide information on the status of the incident to assigned personnel.

**BP Incident Management Team
Duties and Responsibilities Checklist**

LEGAL OFFICER

The Legal Officer will act in an advisory capacity during an oil spill response

*	Response Actions
	Review Common Responsibilities.
	Obtain briefing from the Incident Commander.
	Advise the Incident Commander (IC) and the Unified Command (UC), as appropriate, on all legal issues associated with response operations.
	Establish documentation guidelines for & provide advise regarding response activity documentation to the response team.
	Provide legal input to the Documentation Unit, the Compensation/Claims Unit, and other appropriate Units as requested.
	Review press releases, documentation, contracts & other matters that have legal implications for the Comp.
	Participate in Incident Command System (ICS) meetings and other meetings, as requested.
	Participate in incident investigations and the assessment of damages (including natural resource damage assessments).
	Maintain Individual/Activity Log (ICS Form 214a).



**BP Incident Management Team
Duties and Responsibilities Checklist**

HUMAN RESOURCES SPECIALIST

The Human Resources specialist is responsible for providing direct human resources services to the response organization, including ensuring compliance with all labor-related laws and regulations

*	Response Actions
	Review general ICS procedures and common responsibilities.
	Provide a Point Of Contact (POC) for incident personnel to discuss human resource issues.
	Participate in daily briefings and planning meetings to provide appropriate human resource information.
	Post human resource information, as appropriate.
	Receive and address reports of inappropriate behavior, acts, or conditions through appropriate lines of authority.
	Maintain Unit Log (ICS 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

SOURCE CONTROL BRANCH

Source Branch Group is responsible for coordinating and directing all salvage/source control activities related to the incident

*	Response Actions
	Review Common Responsibilities.
	Review Division/Group Supervisor Responsibilities.
	Coordinate the development of Salvage/Source Control Plan.
	Determine Salvage/Source Control resource needs.
	Direct and coordinate implementation of the Salvage/Source Control Plan.
	Manage dedicated salvage/Source Control resources.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

OPERATIONS SECTION CHIEF

Responsible for management of all operations directly applicable to the response effort

*	Response Actions
	Review Common Responsibilities.
	Obtain briefing from IC.
	Request sufficient Section supervisory staffing for both ops & planning activities.
	Convert operational incident objectives into strategic and tactical options through a work analysis matrix.
	Coordinate and consult with the PSC, SOFR technical specialists, modeling scenarios, trajectories, etc., on selection of appropriate strategies and tactics to accomplish objectives.
	Identify kind and number of resources required to support selected strategies.
	Subdivide work areas into manageable units.
	Develop work assignments and allocate tactical resources based on strategy requirements.
	Coordinate planned activities with the SOFR to ensure compliance with safety practices.
	Prepare ICS 234 Work Analysis Matrix with PSC to ensure Strategies & Tactics and tasks are in line with ICS 202 Response Objectives to develop ICS 215.
	Participate in the planning process and the development of the tactical portions (ICS 204 and ICS 220) of the IAP.
	Assist with development of long-range strategic, contingency, and demobilization plans.
	Supervise Operations Section personnel.
	Monitor need for and request additional resources to support operations as necessary.
	Coordinate with the LOFR and AREPs to ensure compliance with approved safety practices.
	Evaluate and monitor current situation for use in next operational period planning.
	Interact and coordinate with Command on achievements, issues, problems, significant changes special activities, events, and occurrences.
	Troubleshoot operational problems with other IMT members.
	Supervise and adjust operations organization and tactics as necessary.
	Participate in operational briefings to IMT members as well as briefings to media, and visiting dignitaries.
	Develop recommended list of Section resources to be demobilized and initiate recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Establish Command Network and communications protocol.
	Review and ensure the appropriateness of strategy and tactics being employed by On-scene Commander; provide necessary strategic direction.
	Provide Planning Section Chief or Situation Unit up-to-date information on nature and status of tactical response operations.
	Assist Planning Section Chief or Plan Development Unit preparing Incident Action Plan in Preparation of General Plan.
	Assist Planning Section Chief or Plan Development Unit preparing General Plan in preparation of General Plan.
	Ensure that Operations Section Personnel are aware of & follow BP safety polices, appropriate government agency directives, & Site Safety Plan.
	Ensure that concerns of government agencies & impacted citizens are adequately considered in formulation & execution of response strategies.
	Receive information from Planning Section Chief on location & movement of spilled or emitted materials.
	Work with Environmental Unit Leader Officers to develop an overall Shoreline Protection/Cleanup Strategy.
	Provide Information & Liaison Officers Updates on nature & status of tactical response operations.
	Ensure that appropriate documentation is compiled by On-scene Commander and forwarded to Planning Section Chief of Documentation Unit.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 44 of 116 Pages
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**BP Incident Management Team
Duties and Responsibilities Checklist**

RECOVERY AND PROTECTION BRANCH DIRECTOR

The Recovery and Protection Branch Director is responsible for overseeing and implementing the protection, containment and cleanup activities established in the IAP

*	Response Actions
	Review common responsibilities
	Receive briefing from OSC/DOSC.
	Identify Divisions, Groups, and resources assigned to the Branch.
	Obtain briefing from person you are relieving.
	Ensure that Division Supervisors (DIVS) have a copy of the IAP.
	Implement IAP for Branch.
	Develop with subordinates alternatives for Branch control operations.
	Review Division/Group Assignment Lists (ICS 204) for Divisions/Groups within the Branch. Modify lists based on effectiveness of current operations.
	Assign specific work tasks to DIVS.
	Supervise Branch operations.
	Resolve logistic problems reported by subordinates.
	Attend planning meetings at the request of the OSC/DOSC.
	Ensure through chain of command that Resources Unit is advised of changes in the status of resources assigned to the Branch.
	Report to OSC/DOSC when: the IAP is to be modified; additional resources are needed; surplus resources are available; or hazardous situations or significant events occur.
	Approve accident and medical reports (home agency forms) originating within the Branch.
	Consider demobilization well in advance.
	Debrief with OSC/DOSC and/or as directed at the end of each shift.



**BP Incident Management Team
Duties and Responsibilities Checklist**

STAGING AREA MANAGER

Responsible for managing all aspects of Staging Area(s) including safety and security

✱	Response Actions
	Review Common Responsibilities.
	Proceed to Staging Area.
	Establish Staging Area layout.
	Obtain briefing from person you are relieving, if applicable.
	Determine any support needs for equipment, feeding, sanitation and security.
	Establish check-in function as appropriate.
	Ensure security of staged resources.
	Post areas for identification and traffic control.
	Request maintenance service for equipment at Staging Area as appropriate.
	Respond to request for resource assignments. (Note: This may be direct from the OSC/DOSC or via the Incident Communications Center.)
	Obtain and issue receipts for radio equipment and other supplies distributed and received at Staging Area.
	Determine required resource levels from the OSC/DOSC.
	Advise the OSC/DOSC when reserve levels reach minimums.
	Maintain and provide status to Resource Unit of all resources in Staging Area.
	Maintain Staging Area in orderly condition.
	Demobilize Staging Area in accordance with the Incident Demobilization Plan.
	Debrief with OSC/DOSC or as directed at the end of each shift.



**BP Incident Management Team
Duties and Responsibilities Checklist**

DISPOSAL GROUP

The Disposal Group Supervisor is responsible for coordinating the on-site activities of personnel engaged in collecting, storing, transporting, and disposing of waste materials

*	Response Actions
	Review Division/Group Supervisor Responsibilities.
	Implement the Disposal Portion of the IAP.
	Ensure compliance with all hazardous waste laws and regulations.
	Maintain accurate records of recovered material.
	Maintain Unit/Activity Log (ICS Form 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

WILDLIFE BRANCH DIRECTOR

Responsible for minimizing wildlife losses during spill response operations

*	Response Actions
	Review Branch Director Responsibilities.
	Develop the Wildlife Branch portion of the IAP.
	Supervise Wildlife Branch operations.
	Determine resource needs.
	Review the suggested list of resources to be released and initiate recommendation for release of resources.
	Assemble and disassemble teams/task forces assigned to the Wildlife Branch.
	Report information about special activities, events, and occurrences to the OPS.
	Assist the Volunteer Coordinator in determining training needs of wildlife recovery volunteers.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

PLANNING SECTION CHIEF

Responsible for collection, evaluation of information about development of incident

*	Response Actions
	Review Common Responsibilities.
	Collect, process, and display incident information.
	Assist OSC in the development of response strategies.
	Supervise preparation of the IAP.
	Facilitate planning meetings and briefings.
	Assign personnel already on-site to ICS organizational positions as appropriate.
	Establish information requirements and reporting schedules for Planning Section Units (e.g., Resources, Situation).
	Determine the need for any specialized resources in support of the incident.
	Establish special information collection activities as necessary (e.g., weather, environmental, toxics, etc.).
	Assemble information on alternative strategies.
	Provide periodic predictions on incident potential.
	Keep IMT apprised of any significant changes in incident status.
	Compile and display incident status information.
	Oversee preparation and implementation of the Incident Demobilization Plan.
	Incorporate plans (e.g., Traffic, Medical, Communications, and Site Safety) into the IAP.
	Develop other incident supporting plans (e.g., salvage, transition, security).
	Assist Operations with development of the ICS 234 Work Analysis Matrix.
	Maintain Unit Log (ICS 214).
	Advise Incident Commander on all environmental aspects of source control & response operations, & ensure compliance with environmental laws, regulations, &/or government directives.
	Facilitate collection & retention of appropriate documentation.
	Ensure technical specialists are checked in & assigned to appropriate Units within IMT/TRT
	Environmentally sensitive areas, wildlife affected by incident, &/or status of protection efforts.
	Assist Information & Liaison Officers in responding to requests for information from media, government agencies, & other external parties.



**BP Incident Management Team
Duties and Responsibilities Checklist**

SITUATION UNIT LEADER

Responsible for collection and analysis of incident data to determine current status of unit activities (i.e., trajectory modeling, GIS information)

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Begin collection and analysis of incident data as soon as possible.
	Prepare, post, or disseminate resource and situation status information as required, including special requests.
	Prepare periodic predictions or as requested by the PSC.
	Prepare the Incident Status Summary Form (ICS Form 209).
	Provide photographic services and maps if required.
	Conduct situation briefings at the Command and General Staff Meetings, Tactics Meeting, Planning Meeting and Operations Briefing.
	Conduct situation briefings at other meetings/ briefings as required.
	Develop and maintain master chart(s)/map(s) of the incident.
	Maintain chart/map of incident in the common area of the ICP for all responders to view.
	Maintain Unit Log (ICS 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

RESOURCE UNIT LEADER

Responsible for maintaining an accounting system indicating location and status of all resources

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Establish the check-in function at incident locations.
	Prepare Organization Assignment List (ICS Form 203) and Organization Chart (ICS Form 207).
	Prepare appropriate parts of Division Assignment Lists (ICS Form 204).
	Maintain and post the current status and location of all resources.
	Maintain master roster of all resources checked in at the incident.
	Review Resource Unit Leader Job Aid.
	Maintain Unit/Activity Log (ICS Form 214).



BP Incident Management Team Duties and Responsibilities Checklist	
DOCUMENTATION UNIT LEADER	
<i>Responsible for providing incident documentation, reviewing records for accuracy and storing documentation files</i>	
*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Set up work area; begin organization of incident files.
	Establish duplication service; respond to requests.
	File all official forms and reports.
	Review records for accuracy and completeness; inform appropriate units of errors or omissions.
	Provide incident documentation as requested.
	Organize files for submitting final incident documentation package.
	Prepare ICS 231 Meeting Summary & ICS 233 Action Item Tracker.
	Maintain Unit/Activity Log (ICS Form 214).

BP Incident Management Team Duties and Responsibilities Checklist	
TECHNICAL SPECIALISTS	
<i>Responsible for coordinating activities with appropriate consultants and contractors (i.e., NRDA reps, Scientific Support Coordinator, etc.)</i>	
*	Response Actions
	Review Common Responsibilities.
	Provide technical expertise and advice to Command and General Staff as needed.
	Attend meetings and briefings to clarify and help to resolve technical issues.
	Provide expertise during the development of the IAP and other support plans.
	Work with the Safety Officer to mitigate unsafe practices.
	Work closely with Liaison Officer to help facilitate understanding among stakeholders and special interest groups.
	Be available to attend press briefings to clarify technical issues.
	Work with Operations Section to monitor compliance with planned actions.
	Research technical issues and provide findings to decision makers.
	Provide appropriate modeling and predictions as needed.
	Trouble shoot technical problems and provide advice on resolution.
	Review specialized plans and clarify meaning.
	Review THSP Job Aid.
	Maintain Unit Log (ICS 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

LOGISTICS SECTION CHIEF

Responsible for managing all incident logistics

*	Response Actions
	Review Common Responsibilities.
	Plan the organization of the Logistics Section.
	Assign work locations and preliminary work tasks to Section personnel.
	Notify the Resources Unit of the Logistics Section units activated including names and locations of assigned personnel.
	Assemble and brief Branch Directors and Unit Leaders.
	Determine and supply immediate incident resource and facility needs.
	In conjunction with Command, develop and advise all Sections of the IMT resource approval and requesting process.
	Review proposed tactics for upcoming operational period for ability to provide resources and logistical support.
	Identify long-term service and support requirements for planned and expected operations.
	Advise Command and other Section Chiefs on resource availability to support incident needs.
	Provide input to and review the Communications Plan, Medical Plan and Traffic Plan.
	Identify resource needs for incident contingencies.
	Coordinate and process requests for additional resources.
	Track resource effectiveness and make necessary adjustments.
	Advise on current service and support capabilities.
	Develop recommended list of Section resources to be demobilized and initiate recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Ensure the general welfare and safety of Logistics Section personnel.
	Maintain Unit Log (ICS 214).
	Work with Finance Section Chief to institute requisition procedure and provide the Finance Section Chief with copies of all Purchase Orders.
	Ensure that an overall inventory and inventory management system is maintained of all equipment system is maintained of all equipment, materials, and supplies purchased, rented, borrowed, or otherwise obtained during incident response operations.
	Ensure that records are maintained on equipment and services provided and contracts executed during incident response operations.
	Provide Planning Section Chief or Resource Unit with up-to-date information on destination and ETA of all equipment and personnel resources obtained for incident response operations.
	Assist Planning Section Chief or Plan Development Units in preparation of Incident Action Plans and General Plan.
	Provide Operations Section Chief with recommendations on timing of release of logistics services and support personnel and equipment.



**BP Incident Management Team
Duties and Responsibilities Checklist**

SERVICE BRANCH DIRECTOR

The Service Branch Director, when activated, is under the supervision of the LSC, and is responsible for the management of all service activities at the incident

*	Response Actions
	Review Common Responsibilities.
	Obtain working materials.
	Determine the level of service required to support operations.
	Confirm dispatch of branch personnel.
	Participate in planning meetings of Logistics Section personnel.
	Review the IAP.
	Organize and prepare assignments for Service Branch personnel.
	Coordinate activities of Branch Units.
	Inform the LSC of branch activities.
	Resolve Service Branch problems.
	Maintain Unit/Activity Log (ICS Form 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

SUPPORT BRANCH DIRECTOR

Responsible for development of logistic plans in support of IAP for supply, facilities and transportation

*	Response Actions
	Review Common Responsibilities.
	Obtain work materials.
	Identify Support Branch personnel dispatched to the incident.
	Determine initial support operations in coordination with the LSC and Service Branch Director.
	Prepare initial organization and assignments for support operations.
	Assemble and brief Support Branch personnel.
	Determine if assigned branch resources are sufficient.
	Maintain surveillance of assigned units work progress and inform the LSC of their activities.
	Resolve problems associated with requests from the Operations Section.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COMMUNICATIONS UNIT LEADER

Responsible for distribution, installation, maintenance, technical advice and overall Communication Plan for incident response operation

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Determine Unit personnel needs.
	Prepare and implement the Incident Radio Communications Plan (ICS Form 205).
	Ensure the Incident Communications Center and the Message Center is established.
	Establish appropriate communications distribution/maintenance locations within the Base.
	Ensure communications systems are installed and tested.
	Ensure an equipment accountability system is established.
	Ensure personal portable radio equipment from cache is distributed per Incident Radio Communications Plan.
	Provide technical information as required on: <ul style="list-style-type: none"> - Adequacy of communications systems currently in operation. - Geographic limitation on communications systems. - Equipment capabilities/limitations. - Amount and types of equipment available. - Anticipated problems in the use of communications equipment.
	Supervise Communications Unit activities.
	Maintain records on all communications equipment as appropriate.
	Ensure equipment is tested and repaired.
	Recover equipment from units being demobilized.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

FINANCE SECTION CHIEF

Responsible for managing and supervising financial aspects of emergency response operations

*	Response Actions
	Review Common Responsibilities.
	Participate in incident planning meetings and briefings as required.
	Review operational plans and provide alternatives where financially appropriate.
	Manage all financial aspects of an incident.
	Provide financial and cost analysis information as requested.
	Gather pertinent information from briefings with responsible agencies.
	Develop an operating plan for the Finance/Admin Section; fill supply and support needs.
	Determine the need to set up and operate an incident commissary.
	Meet with Assisting and Cooperating Agency Representatives, as needed.
	Maintain daily contact with agency(s) administrative headquarters on Finance/Admin matters.
	Ensure that all personnel time records are accurately completed and transmitted to home agencies, according to policy.
	Provide financial input to demobilization planning.
	Ensure that all obligation documents initiated at the incident are properly prepared and completed.
	Brief agency administrative personnel on all incident-related financial issues needing attention or follow-up prior to leaving incident.
	Develop recommended list of Section resources to be demobilized and initial recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Maintain Unit Log (ICS 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

PROCUREMENT UNIT LEADER

Responsible for managing all financial matters pertaining to vendors, contracts, leases and fiscal agreements

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Review incident needs and any special procedures with Unit Leaders, as needed.
	Coordinate with local jurisdiction on plans and supply sources.
	Obtain the Incident Procurement Plan.
	Prepare and authorize contracts and land-use agreements.
	Draft memoranda of understanding as necessary.
	Establish contracts and agreements with supply vendors.
	Provide for coordination between the Ordering Manager and all other procurement organizations supporting the incident.
	Ensure that a system is in place that meets agency property management requirements. Ensure proper accounting for all new property.
	Interpret contracts and agreements; resolve disputes within delegated authority.
	Coordinate with the Compensation/Claims Unit for processing claims.
	Complete final processing of contracts and send documents for payment.
	Coordinate cost data in contracts with the Cost Unit Leader.
	Brief the Finance Section Chief on current problems and recommendations, outstanding issues, and follow-up requirements.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COMPENSATION / CLAIMS UNIT LEADER

The Compensation/Claims Unit Leader is responsible for the overall management and direction of all administrative matters pertaining to compensation for injury and claims related activities (other than injury) for an incident

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Obtain a briefing from the Finance Section Chief.
	Establish contact with the incident MEDL, SOFR and NLO (or Agency Representatives if no NLO is assigned).
	Determine the need for Compensation for Injury and Claims Specialists and order personnel as needed.
	Establish a Compensation for Injury work area within or as close as possible to the Medical Unit.
	Review Incident Medical Plan. (ICS Form 206).
	Ensure that Compensation/Claims Specialists have adequate workspace and supplies.
	Review and coordinate procedures for handling claims with the Procurement Unit.
	Brief the Compensation/Claims Specialists on incident activity.
	Periodically review logs and forms produced by the Compensation/Claims Specialists to ensure that they are complete, entries are timely and accurate and that they are in compliance with agency requirements and policies.
	Ensure that all Compensation for Injury and Claims logs and forms are complete and routed to the appropriate agency for post-incident processing prior to demobilization.
	Keep the Finance Section Chief briefed on Unit status and activity.
	Demobilize unit in accordance with the Incident Demobilization Plan.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COST UNIT LEADER

Responsible for providing incident cost analysis

*	Response Actions
	Review Unit Leader Responsibilities.
	Obtain a briefing from the Finance Section Chief.
	Coordinate with agency headquarters on cost reporting procedures.
	Collect and record all cost data.
	Develop incident cost summaries.
	Prepare resources-use cost estimates for the Planning Section.
	Make cost-saving recommendations to the Finance Section Chief.
	Ensure all cost documents are accurately prepared.
	Maintain cumulative incident cost records.
	Complete all records prior to demobilization.
	Provide reports to the Finance Section Chief.
	Maintain Unit/Activity Log (ICS Form 214).

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 1, Page 57 of 116 Pages
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Dispersant Approval Process

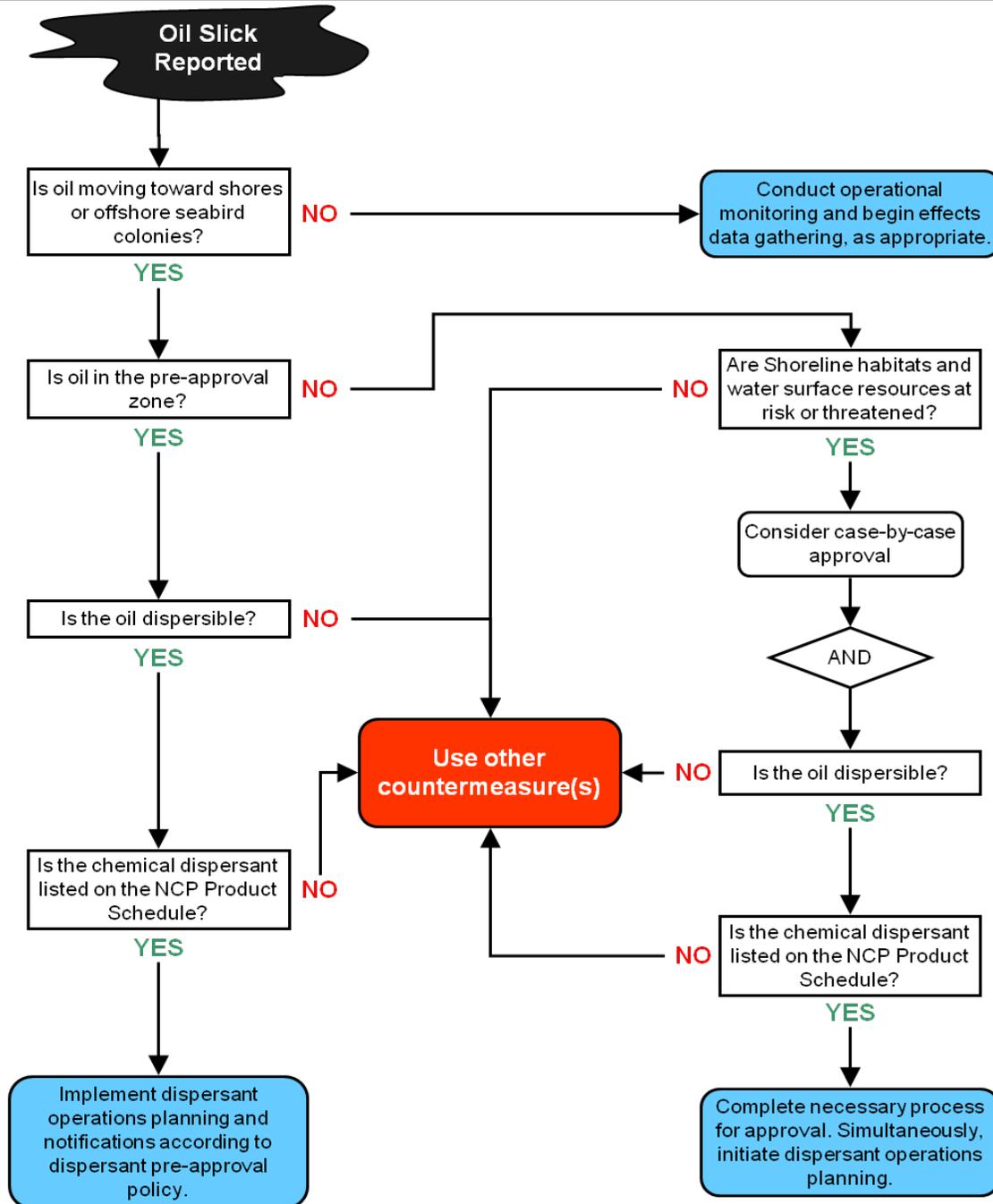
Dispersants are chemicals used to remove floating oil from the water surface and disperse it into the water column in order to reduce impact to sensitive shoreline habitats and animals that are present on the water surface. Specially formulated products containing surface-active agents are sprayed onto the slicks by aircraft or boat and are applied undiluted or mixed with water. The dispersants reduce the oil/water surface tension and decrease the energy needed for the slick to break into small particles and mix into the water column. Some turbulence is needed to mix the dispersant into the oil and the treated oil into the water.

Figure 1-14 represents a Dispersant Use Decision Tree to aid in determining whether or not to pursue dispersants as a response option. **Figure 1-15** is the Dispersant Application form for Pre-Approval by the Regional Response



Dispersant Use Decision Tree

Figure 1-14





DISPERSANT SPRAY OPERATION

Dispersant Spray Contractor	
Name:	_____
Address:	_____
Street:	_____
City:	_____
State:	_____ Zip Code: _____
Telephone:	_____
Dispersant:	Name: _____
	Quantity Available: _____
Platform:	Aircraft Type: _____
	Multi-Engine (<input type="checkbox"/>) or Single-Engine (<input type="checkbox"/>)
Boat Type:	_____
Other:	_____
	Dispersant Load Capability (Gal): _____
	Time to First Drop on the oil (Hours): _____



Available Technical Expertise – Texas

Figure 1-16

Name	Address	Telephone
Texas Marine Mammal Stranding Network	5001 Ave. U, Suite 105C Galveston, TX 78741	(800) 9MAMMAL*
Texas Parks & Wildlife Wildlife Rescue & Rehab Dave Buzan Kills & Spills Team	4200 Smith School Road Building D Austin, TX 78741	(512) 389-4848* (800) 299-4099 (Pg)
Trajectories/Sensitivities		
The Response Group	13231 Champion Forest, Ste. 310 Houston, TX 77069	(281) 880-5000 (Off) (713) 906-9866* (C) (281) 861-6880 (F)
Wildlife Rehab & Education		
US Fish & Wildlife Service Wildlife Rescue & Rehab John Huffman – Containment Specialist	17629 El Camino Real Suite 211 Houston, TX 77058	(281) 286-8282 (Off) (281) 282-9344 (Fax)
Wildlife Rehab and Education Sharon Schmalz Michele Johnson	Houston, TX	(281) 332-8319 (H) (713) 279-1417 (Pg) (281) 418-8100 (Pg)
Texas General Land Office		(800) 832-8224
US Fish & Wildlife Service Eco System Corpus Christi State University	Corpus Christi, TX	(361) 994-9005
East Matagorda Bay South Clara Lee – Env. Contaminant Specialist		(361) 994-9005 ext 247
Houston Audubon Society	Houston, TX	(713) 932-1639 (713) 932-1392*
Institute of Marine Life Sciences Texas A&M University Dr. Wursid	Galveston, TX	(409) 740-4413
Marine Mammal Research Pgrm Texas A&M University	Galveston, TX	(409) 740-4413 (409) 740-4421
NOAA National Maritime Fishery Service-Sea Turtles Sibyl Bodamer – Permitted Ind.	Galveston, TX Houston, TX	(409) 766-3500 (281) 379-7961*
Environmental Assessments		
ENTRIX	Houston, TX	(713) 666-6223 (Off)

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
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 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
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Available Technical Expertise – Texas (continued)

Figure 1-16

Name	Address	Telephone
United States Coast Guard		
MSO Port Arthur	Port Arthur, TX	(409) 723-6509 (409) 723-6501 *
MSO Houston-Galveston	Houston, TX	(713) 671-5100 *
MSO Corpus Christi	Corpus Christi, TX	(800) 434-9486 * (361) 939-6227 (361) 888-3162 *
Wildlife Management Areas & Refuges**		
(1) Lower Rio Grande Valley NWR	Alamo, TX	(956) 784-7500
(2) Bentsen SP	Mission, TX	(956) 585-1107
(3) Laguna Atascosa NWR	Rio Hondo, TX	(956) 748-3607
(4) Padre Island National Seashore National Park Service (at PINS)	Corpus Christi, TX	(361) 949-7275* (361) 949-8173
(5) Mustang Island State Park	Port Aransas, TX	(361) 749-5246
(6) Goose Island State Park	Rockport, TX	(361) 729-2858
(7) Aransas Wildlife Refuge Tom Stehn – Biologist	Austwell, TX	(361) 286-3533 (361) 286-3559 ext. 221
(9) Welder Flats WMA	Bay City, TX	(979) 244-7697
(10) Big Boggy NWR	Angleton, TX	(979) 849-6062
(11) San Bernard NWR	Angleton, TX	(409) 849-6062
(12) Peach Point WMA	Freeport, TX	(979) 244-7697
(13) Brazoria NWR	Angleton, TX	(979) 849-6062
(14) Galveston Island SP	Galveston, TX	(409) 737-1222
(15) Moody NWR	Anahuac, TX	(409) 267-3337
(16) Anahuac NWR	Anahuac, TX	(409) 267-3337
(17) McFaddin NWR	Sabine Pass, TX	(409) 971-2909
(18) Sea Rim State Park	Sabine Pass, TX	(409) 971-2559
(19) Texas Point NWR	Sabine Pass, TX	(409) 971-2909
(20) Flower Garden Banks National Marine Sanctuary	Bryan, TX	(979) 693-6018 O (409) 621-5151 H (409) 621 1316 F

** See reference numbers for WMA, NWR, SP locations on Texas area map

* Indicates 24 hour number



Available Technical Expertise – Louisiana

Figure 1-17

Name	Address	Telephone
Dept of Wildlife and Fisheries Jim Hanifen – Oil Spill Coordinator	2000 Quail Drive Baton Rouge, LA	(225) 765-2801 (225) 765-2379
LA. Dept of Environmental Quality (Water Resources)	7290 Bluebonnet Baton Rouge, LA	(225) 342-1234*
LOSCO – Roland Guidry	Baton Rouge, LA	(225) 219-5800*
US Fish & Wildlife Service Ecological Services Warren Lorenty – Field Response Coordinator Buddy Goatcher – Field Response Coordinator Russel Watson – Alternate Gerald Bodin – Alternate	825 Kaliste Saloom, Bldg II Lafayette, LA	(337) 291-3100 (337) 291-3126 (337) 280-1157 (after hrs) (337) 291-3125 (337) 886-0893 (after hrs) (337) 291-3116 (337) 988-6311 (after hrs) (337) 291-3118
Minerals Management Services		
New Orleans District Tim Lannigan Main Switchboard Alex Alvarado	New Orleans, LA	(504) 423-2505 (Office) (504) 423-5340* (504) 736-2544 (504) 736-2861 (504) 736-2547
Louisiana State Police	Baton Rouge, LA	(225) 925-6595*
United States Coast Guard MSO New Orleans Search & Rescue Team	New Orleans, LA New Orleans, LA	(504) 589-4218 (504) 589-6216* (504) 589-6225
Weather Service		
Alert Weather Service	Lafayette, LA	(337) 233-5565
A.H. Glenn & Assoc.	New Orleans, LA	(504) 241-2222
Ed Roy LTD.	Lafayette, LA	(337) 233-3816
Environmental Assessments		
Coastal Environments, Inc.	Baton, Rouge, LA	(225) 383-7451
LA Marine Mammal Stranding Network		(800) 442-2511
Marine Mammal Stranding Network	Baton Rouge, LA	(225) 765-2821
Oil Analysis		
Analysis Laboratories, Inc.	Metairie, LA	(504) 889-0710 (Off)

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Available Technical Expertise – Louisiana (Cont'd)

Figure 1-17

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges**</i>		
(1) Cameron Prairie NWR	Bell City, LA	(337) 598-2216
(2) Lacassine NWR	Lake Arthur, LA	(337) 774-5923
(3) Rockefeller SWR	Grand Chenier, LA	(337) 538-2165
(4) Marsh Island WMA	New Iberia, LA	(337) 373-0032
(5) Atchafalaya Delta WMA	New Iberia, LA	(337) 373-0174
(6) Isle Dernieres – USGS Wetlands Research Center	Terrebonne, LA	(337) 266-8550
(7) Point e AuChien WMA	Montigut, LA	(985) 594-5494
(8) Wisner WMA	Baton Rouge, LA	(225) 765-2811
(9) Biloxi WMA	Baton Rouge, LA	(225) 765-2360
(10) Pearl River WMA	Baton Rouge, LA	(504) 765-2360
Louisiana SWM	New Iberia, LA	(337) 373-0032

** See reference numbers for WMA, NWR, SP locations on Louisiana area map

* Indicates 24 hour number



Available Technical Expertise – Mississippi

Figure 1-18

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges**</i>		
(1) Buccaneer	Waveland, MS	228-467-3822
(2) Gulf Island National Seashore	Ocean Springs, MS	(228) 875-9057
(3) Mississippi Sandhill Crane NWR	Gautier, MS	(228) 497-6322
(4) Shepard State Park	Gautier, MS	(228) 497-2244
(5) Grand Bay NWR	Moss Point, MS	(228) 475-0765
Management Agency		(800) 222-6362*

** See reference numbers for WMA, NWR, SP locations on MS / AL area map

* Indicates 24 hour number

Available Technical Expertise – Alabama

Figure 1-19

Name	Address	Telephone
Alabama Dept. of Conservation Marine Resources Division	21055 Mildred Casey Dr Gulf Shores, AL	(251) 968-7575
Alabama Oil & Gas Board Headquarters Office Douglas Hall – So. AL Geologist	420 Hackberry Lane Tuscaloosa, AL	(205) 349-2852
Mobile Office Ralph Hellmich – Chief Geologist	4173 Commanders Drive Mobile, AL	(251) 438-4848 (251) 943-4326*
US Fish & Wildlife Service Ecological Services	1208 B Main St. Daphne, AL	(251) 441-5181
(6) Bon Secour NWR	Gulf Shores, AL	(251) 540-7720
Gulf State Park	Gulf Shores, AL	(251) 948-7275
Alabama Dept. of Environmental Management		(251) 450-3400
Alabama Emergency Management Agency		(800) 843-0699*

** See reference numbers for WMA, NWR, SP locations on MS / AL area map

* Indicates 24 hour number



Available Technical Expertise – Florida

Figure 1-20

Name	Address	Telephone
Big Lagoon State Recreation Area	12301 Gulf Beach Hwy Pensacola, FL	(850) 492-1595
Florida Dept of Environmental Protection (Bureau of Emergency Response)	3900 Commonwealth Blvd. Tallahassee, FL 32399	(850) 245-2010*
<i>Florida Fish & Wildlife Conservation Commission (FWCC)</i>		
Southwest Florida	3900 Drane Field Road Lakeland, FL	(863) 648-3200*
North Central Florida	Route 7, Box 440 Lake City, FL	(386) 758-0529*
<i>National Park Service</i>		
Gulf Island National Seashore Dispatch	Gulf Breeze, FL	(850) 916-3010*
Escambia County Sheriff Dept.		(850) 436-9620*
<i>US Fish & Wildlife Service</i>		
Ecological Services John Hemming – Contaminate Assessment Specialist	1612 June Ave. Panama City, FL	(850) 769-0552 (850) 215-1435*
<i>Mammal Stranding Services</i>		
Marine Mammal Stranding Network NMFS SE Fisheries Science Center		(305) 862-2850
Florida State Warning Point		(800) 320-0519* (850) 413-9911*
<i>United States Coast Guard</i>		
Detached Duty Office	Panama City, FL	(850) 233-0366



Available Technical Expertise – Florida (Cont'd)

Figure 1-20

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges**</i>		
(1) Gulf Island National Seashore	Gulf Breeze, FL	(850) 934-2600
(2) Saint Vincent NWR, Apalachicola Bay Aquatic Preserve & Apalachicola River & Bay National Estuarine	479 Market St. Apalachicola, FL	(850) 653-8808
(3) Saint Marks NWR	1255 Lighthouse Road St. Marks, FL	(850) 925-6930
(4) Lower Suwannee NWR	16450 NW 31 st Place Chiefland, FL	(352) 493-0238
(5) Cedar Keys NWR	16450 NW 31 st Place Chiefland, FL	(352) 493-0238
(6) Chassahowitski NWR	1502 SE Kings Bay Drive Crystal River, FL	(352) 563-2088
(7) Egmont Key NWR	Crystal River, FL	(352) 563-2088
(8) Pine Island NWR	Sanibel, FL	(239) 472-1100
(9) J.N. "Ding" Darling Wilderness	Sanibel, FL	(239) 472-1100
(10) Matlacha Pass NWR	Sanibel, FL	(239) 472-1100
(11) Ten Thousand Island NWR	Naples, FL	(239) 353-8442
(12) Majory Stoneman Douglas Wilderness	Homestead, FL	(305) 242-7700
(13) Great White Heron NWR	Big Pine Key, FL	(305) 872-2239
(14) National Key Deer Refuge	Big Pine Key, FL	(305) 872-2239
(15) Key West NWR	Big Pine Key, FL	(305) 872-2239
(16) Dry Tortugas National Park	Key West, FL	(305) 242-7717
(17) Crocodile Lake NWR	Key Largo, FL	(305) 451-4223
(18) Biscayne National Park	Homestead, FL	(305) 230-7275
Saint Andrew State Recreation Area & State Park Aquatic Preserve	7255 Hwy 90 East Milton, FL	(850) 983-5359
Crystal River NWR	1502 SE Kings Bay Drive Crystal River, FL	(352) 563-2088
Saint Martins Marsh Aquatic Preserve	3266 N. Sailboat Ave Crystal River, FL	(352) 563-0246
Steinhatchee WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Fort Pickens State Aquatic Preserve	7255 Hwy 90 E Milton, FL	(850) 983-5359

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Available Technical Expertise – Florida (Cont'd)

Figure 1-20

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges (cont.)</i>		
Alligator Harbor Aquatic Preserve	350 Carroll St. Eastpoint, FL	(850) 670-4783
Saint Joseph Bay Aquatic Preserve	350 Carroll St. Eastpoint, FL	(850) 670-4783
Saint Joseph Peninsula State Park	8899 Cape San Blas Road Port St. Joe, FL	(850) 227-1327
Aucilla WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Gulf Hammock WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Tide Swamp WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Big Bend Segrasses Aquatic Preserve	3266 N. Sailboat Ave. Crystal River, FL	(352) 563-0450
Point Washington WMA	3911 Hwy 2321 Panama City, FL	(850) 265-3676

** See reference numbers for WMA, NWR, SP locations on Florida area map



Available Technical Expertise – Gulf Coast

Figure 1-21

NAME	ADDRESS	TELEPHONE
International Bird Rescue & Research Center Jay Holcomb – Executive Dir Home Mobile James Lewis – Admin Mgr.	4369 Cordelia Road Fairfield, CA	(707) 207-0380* (707) 429-4052 (707) 249-4870*
National Park Service	Atlanta, GA	(404) 562-3123
NOAA Marine Mammal Stranding Network – SE Region Hotline		(305) 862-2850
Tri – State Bird Rescue Oil Spill Alert - Dr. Heidi Stout Oil Spill Alert – Sarah Tegtmeier	110 Possum Hollow Road Newark, DE	(302) 737-7241 (302) 218-7371* Cell (800) 710-0696* Pager (302) 363-5086* Cell (800) 710-0695* Pager
<i>US Dept of The Interior</i>		
Office of Env. Policy & Compliance Gregory Hogue – Regional Environmental Officer	75 Spring St., Suite 345 Atlanta, GA	(404) 331-4524 (404) 939-8454* Home (404) 909-0537* Cell
Office of Environmental Policy & Compliance Steve Spencer - Regional Environmental Officer	PO Box 26567 (MC-9) Albuquerque, NM	(505) 563-3572 (505) 249-2462*
<i>US Fish & Wildlife Service</i>		
Region IV Ecological Services Diane Beeman – Spill Response Coordinator	1875 Century Blvd. Ste 200 Atlanta, GA	(404) 679-7140 (404) 679-7094 (404) 895-7093* Pager

* Indicates 24 hour number



External / OSRO Contact Information List

Figure 1-22

- BP Approved Contractor

Company	Full Range Response	Other	Locations	Super-visor	Technical/ Operator	Support/ General Laborer
Eagle Construction 800-336-0909 www.ecesi.com			Eastland, TX Ft. Worth, TX San Antonio, TX La Porte, TX Gonzales, LA	-	-	-
ES & H/Cenac Environmental Services 877-437-2634* 888-422-3622 www.esandh.com trey@esandh.com	*	Emergency response, industrial cleaning, waste transportation and disposal and remediation consulting	Houma, LA Fourchon, LA New Iberia, LA Morgan City, LA Belle Chasse, LA Venice, LA Port Allen, LA Port Arthur, TX	12	25	14
Garner Environmental Services 800-424-1716* www.garner-es.com reese@garner-es.com		Emergency response, remediation, and disaster response	Deer Park, TX Palacios, TX LaMarque, TX Port Arthur, TX New Orleans, LA	11	19	
C-Mac Environmental Group 251-580-9400			Bay Manette, AL			
Industrial Cleanup, Inc. 800-436-0883 www.industrialcleanup.net info@industrialcleanup.net	*	Emergency response and oil spill clean up	Garyville, LA Baton Rouge, LA Scott, LA	5 1	10 2	56
Shaw Environmental & Infrastructure Inc. 800-537-9540	*	Environmental clean up	Houston, TX Port Allen, TX	5	13	32
Miller Environmental Services, Inc. 800-537-9540 www.miller-env.com info@miller-env.com	*	Environmental clean up	Corpus Christi, TX Port Arthur, TX Sulphur, LA	11 4	27 14	25 6
American Pollution Control Inc (AMPOL) 800-48-AMPOL/337-365-7847 www.ampol.net		Emergency Spill Response, remediation, environmental cleanup	New Iberia, LA			



External / OSRO Contact Information List (Cont'd)

Figure 1-22

Company	Full Range Response	Other	Locations	Super-visor	Technical/ Operator	Support/ General Laborer
Oil Mop, Inc. 800-OIL MOP1 800-645-6671	*	Emergency response and clean up	Galveston, TX Lake Charles, LA Cameron, LA Baton Rouge, LA Belle Chasse, LA Intercoastal City, LA New Iberia, LA Fourchon, LA Houma, LA Lafayette, LA Morgan City, LA Venice, LA	3 2 1	10 6 2	
Oil Recovery Company, Inc. 800-350-0443 251-690-9010 www.oilrecoveryco.com Oilrecoveryco@aol.com	*	Oil spill clean up	Mobile, AL Baton Rouge, LA			
Pneumatic Industrial Services 888-279-9930 www.usesgroup.com/pneumatic/industrial.php arry@pneumaticindustrial.com		Vacuum work and plant services	La Porte, TX Orangefield, TX		4	
Southern Waste Services, Inc. 800-852-8878 www.swsefr.com	*	Emergency spill response, hazardous materials and waste disposal	Panama City, FL Pensacola, FL Tampa, FL Pinellas Park, FL Ft. Meyers, FL Mobile, AL Galveston, TX	3	10 2	
T & T Marine Salvage, Inc. 409-744-1222 www.tandtmarine.com donnat@tandtmarine.com	*	Marine salvage and oil spill clean up	Meraux, LA Galveston, TX	6	11	6
The Response Group, Inc. 281-880-5000 713-906-9866* www.responsegroupinc.com nformation@responsegroupinc.com		Spill Trajectories IAP/ICS Support	Houston, TX			
United States Environmental Services 888-279-9930* www.usesgroup.com uses@usesgroup.com	*	Emergency response remediation, site restoration, plant services	Saraland, AL Port Allen, LA Mereaux, LA Venice, LA Channelview, TX	3 3	4 Personnel available based on need	4

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Regional Oil Spill Response Plan – Gulf of Mexico

Section 1
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Response Equipment

a. Equipment Inventory

The National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) are the primary equipment providers for BP in the Gulf of Mexico Region, and maintain a dedicated fleet of vessels and other equipment permanently located at designated ports. NRC & MSRC have the capability to plan the mobilization and rapid deployment of spill response resources on a 24 hour, 7 days a week basis.

The specification sheets in **Figure E-1** detail the locations and capabilities of each NRC vessel in the Gulf of Mexico area. **Figure E-2** describes the miscellaneous equipment available in the Gulf of Mexico area through NRC. **Figure E-3** describes MSRC's response equipment. For additional information about the response equipment available from NRC & MSRC, please visit their websites, listed below:

<http://www.nrcc.com/equipment.html>

<http://www.msrc.com/Equipment.htm>

b. Inspection and Maintenance Programs

As certified OSRO's, BP's primary equipment providers and their affiliates have established programs for inspecting, testing, and maintaining their oil spill response equipment. Additionally, the equipment hours are logged and routine maintenance activities such as oil changes continue to occur even when the equipment is in active use.

Detailed records of maintenance, testing and inspections on NRC equipment located in the Gulf of Mexico can be obtained through the NRC's office in Houston, TX at 281-899-4848. Records for MSRC's equipment may be obtained from the MSRC's office at 703-326-5600. These records are retained by the companies for an indefinite period of time.



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Regional Oil Spill Response Plan – Gulf of Mexico

Section 1 Quick Guide

Rating system for potential worst case discharge:

Rating	Volume (Barrels)
A	0 - 1,000
B	1,001 – 3,000
C	3,001 – 10,000
D	10,001 – 20,000
E	20,001+

Table 1 OCS Production Facilities	
1	Provide the 2-letter MMS area designation of the facility (e.g., MP, PS, WC).
2	Provide the OCS Block No. of the facility (e.g., 25, 251, A-375).
3	Provide the OCS Lease No. of the facility (e.g., 091, 0425, G 10112).
4	Provide the facility designation (e.g., No. 2, A, JA).
5	Provide the 5-digit MMS complex identification number for the facility.
6	Provide the water depth at the site of the facility in feet.
7	Provide the latitude and longitude of the facility in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
8	Provide the distance from the facility to the nearest shoreline in miles.
9	Provide the API gravity of the densest oil being produced or stores at the facility.
10	Enter the appropriate worst-case discharge volume rating (e.g., A, B, C, D, or E).
11	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the rate that oil is being produced in barrels per day from an uncontrolled flow of the highest capacity well at the facility.

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Section 1
Quick Guide

Table 1 OCS Production Facilities (continued)

12	If “Rating” in column 10 is “E” or if high rate well has a daily flow rate greater than 2,500 barrels, provide the total volume in barrels of all tanks on the facility used for the storage of oil including production (e.g., fuel oil including diesel fuel, corrosion inhibitors).
13	If “Rating” in column 10 is “E” or if high rate well has a daily flow rate greater than 2,500 barrels, provide the throughput volume in barrels of oil per day of the lease term pipelines that depart the facility.

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Table 1 – Production Platforms & Structures in OCS Waters

Figure 1-25

Production Platforms and Structures in OCS Waters													
Oper.	Area	Block	Lease	Facility Name	Facility ID ¹	Water Depth	Latitude/ Longitude	Distance to Shore	API Gravity	Rating ²	High Well ³	All Storage ⁴	Thru Volume ⁵
2481	GC	645	G- 11081	A-Holstein Spar	1035	4340'	N 27° 19' 16.43"/ W 90° 32' 07.69"	119	31.0	E	E	E	N/A
2481	GC	782	G-15610	A-Mad Dog Spar	1215	4420'	N 27° 11' 18.12"/ W 90° 16' 07.36"	111.4	27.2		E	E	N/A
2481	GC	743	G15607	Atlantis DC-1	N/A	6830'	N 27° 13' 28"/ W 90° 01' 56"	122			N/A	N/A	
2481	GC	787	G-23579	A-Atlantis PQ	1223	7080'	N 27° 11' 43.64"/ W 90° 01' 37.15"	124			E	E	N/A
2481	MC	28	G09771	Pompano Phase II	N/A	1865'	N 28° 55' 58.25/ W 88° 34' 29.19"	24.4					
2481	MC	84	G08484	Marlin King West	N/A	5475'	N 28° 53.5' / W 88° 59.0'	55.9					
2481	MC	85	G08797	Marlin King	N/A	5235'	N 28° 55.2' / W 87° 57.9'	56.3					
2481	MC	127	G-19925	A-Horn Mtn.	00876-1	5400'	N 28° 51' 57.65"/ W 88° 03' 22.55"	53.0	35.0	B	E	E	N/A
2481	MC	383	G07937	Na Kika Kepler	N/A	5810'	N 28° 35.9' / W 88° 26.1'	43.0					
2481	MC	429	G07944	Na Kika Ariel	N/A	5200'	N 28° 33.9' / W 88° 19.0'	48.0					
2481	MC	474	10997	A-Nakika	22088	6340'	N 28° 31' 15.25"/ W 88° 17' 19.64"	52.2			C	E	N/A
2481	MC	520	G09821	Na Kika Herschel	N/A	6800'	N 28° 27.9' / W 88° 10.2'	58.9					
2481	MC	522	G08823	Na Kika Fourier	N/A	6930'	N 28° 27.8' / W 88° 06.3'	61.7					
2481	MC	608	G09838	Na Kika E. Anstey	N/A	6660'	N 28° 24.3' / W 88° 12.3'	59.7					
2481	MC	462	G28008		N/A	6095'	N 28° 30' 47.42"/ W 88° 52' 40.84"	33	26	E	N/A	N/A	N/A

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Section 1 Quick Guide

Production Platforms and Structures in OCS Waters (Cont'd)													
Oper.	Area	Block	Lease	Facility Name	Facility ID ¹	Water Depth	Latitude/ Longitude	Distance to Shore	API Gravity	Rating ²	High Well ³	All Storage ⁴	Thru Volume ⁵
2481	MC	764	G08852	King	#4	3283'	N 28° 11' 38.40"/ W 89° 10' 39.64"	60.0	29	C	N/A	N/A	N/A
2481	MC	776	G09866	Thunder Horse DC32	N/A	5630'	N 28° 12.0' / W 88° 33.5'	55.2					
2481	MC	777	G09867	Thunder Horse DC33	N/A	5610'	N 28° 13.2' / W 88° 31.0'	55.9					
2481	MC	778	G-9868	Thunder Horse PDQ	1101	6030'	N 28° 11' 26.70"/ W 88° 29' 44.50"	59.4	33.0	N/A	N/A	N/A	N/A
2481	MC	822	G14658	Thunder Horse DC45	N/A	6260'	N 28° 09' 48"/ W 88° 29' 01"	69.1					
2481 ^b	SM	205	G-05475	B	27014	530'	N 27° 55' 39.66"/ W 91° 54' 09.57"	85.1			N/A	N/A	N/A
2530	SP	89	G-23429	E	1093	392'	N 28° 41' 50.55"/ W 89° 23' 45.29"	15		E	N/A	N/A	N/A
2481	VK	915	G-06894	A-Marlin TLP	235-1	3236'	N 29° 06' 27.46"/ W 87° 56' 37.15"	55.7	43.1	E	N/A	N/A	40,972
2481	VK	989	G-06898	A-Pompano	24130	1290'	N 28° 58' 22.92"/ W 88° 37' 33.55"	23.0	31.7	D	5,253	N/A	49,404

¹ Five (5) digit MMS complex identification number of facility.

² Worst-case discharge volume rating based on the following table:

Rating	Volume (Barrels)	Rating	Volume (Barrels)
A	0-1,000	D	10,001-20,000
B	1,001-3,000	E	>20,000
C	3,001-10,000		

³ If Rating is E or if high rate well has a daily flow rate > 2,500 bbls, provide the rate that oil is being produced in bpd from an uncontrolled flow

If Rating is E or if high rate well has a daily flow rate > 2,500 bbls, provide the total volume in bbls of all tanks on the facility used for the storage of oil including production (e.g., fuel oil including diesel fuel, corrosion inhibitors).

⁵ If Rating is E or if high rate well has a daily flow rate > 2,500 bbls, provide the throughput volume in bpd of the lease term pipelines that depart the facility.

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Table 2 OCS Pipelines	
1	Provide the 2-letter MMS area designation and the OCS Block No. of the originating point of the ROW pipeline (e.g., WC 425, HI A-375).
2	Provide the latitude and longitude of the originating point of the ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
3	Provide the 2-letter MMS area designation and the OCS Block No. of the terminus of the ROW pipeline (e.g., WC 425, HI A-375).
4	Provide the latitude and longitude of the terminus of the ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
5	Indicate whether the ROW pipeline either terminates or originates at the Federal / State boundary (i.e., Yes, No).
6	Provide the 5-digit MMS Segment No. of the ROW pipeline (e.g., 00006, 01234, 11456).
7	Provide the OCS ROW No. of the ROW pipeline (e.g., 092, 0436, G 10992).
8	Provide the length of the ROW pipeline in feet.
9	Provide the internal diameter of the ROW pipeline in inches.
10	Provide the API Gravity of the oil being transported by the ROW pipeline.
11	Indicate whether the ROW pipeline is monitored by a leak detection system (i.e., yes, no).
12	Provide the throughput volume in barrels of oil per day of the ROW pipeline.
13	Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
14	Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e. Yes, No)

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B. Table 2 – ROW Pipelines in OCS Waters

Figure A-3

ROW Pipelines in OCS Waters														
Oper	1 From	2 Latitude/ Longitude	3 To	4 Latitude Longitude	5 F/S Boundary ¹	6 Segment Number	7 ROW #	8 Length (feet)	9 Size (in)	10 API Gravity	11 Leak Detect System	12 Thru Volume ² (bbls)	13 Distance To Shore ³	14 Appurt. Platform ⁴
00751	GC 645A	N 27 19' 16.71" W 90 32' 07.38"	SS 332 B	N 28 06' 13.63" W 90 47' 32.71"	No	13677	23445	368,508	24-28	29	Yes	500,000	67.0	YES
00751	GC 645A	N 27 19' 16.71" W 90 32' 07.38"	SS 332 A	N 28 06' 13.63" W 90 47' 32.71"	No	13676	23444	368,066	16-20	Gas	Yes	Prop	67.0	YES
2481	GC 743	N 27 13' 27.95" W 90 01' 54.53"	GC 787 A	N 27 13' 44.39" W 90 01' 36.97"	No	15263	G26918	8259	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.95" W 90 01' 54.53"	GC 787 A	N 27 13' 44.39" W 90 01' 36.97"	No	15264	G26918	8259	16	CSNG	Yes			
2481	GC 743	N 27 13' 27.72" W 90 01' 56.54"	GC 787 A	N 27 11' 44.24" W 90 01' 37.73"	No	15266	G26919	7985	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.72" W 90 01' 56.54"	GC 787 A	N 27 11' 44.24" W 90 01' 37.73"	No	15267	G26919	7985	16	CSNG	Yes			
2481	GC 743	N 27 13' 27.56" W 90 01' 57.24"	GC 787 A	N 27 11' 44.20" W 90 01' 37.89"	No	15269	G26920	8406	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.56" W 90 01' 57.24"	GC 787 A	N 27 11' 44.20" W 90 01' 37.89"	No	15270	G26920	8406	16	CSNG	Yes			
2481	GC 743	N 27 13' 28.06" W 90 01' 54.08"	GC 787 A	N 27 11' 44.42" W 90 01' 36.79"	No	15273	G26921	8675	10	BLOH	Yes			
2481	GC 743	N 27 13' 28.06" W 90 01' 54.08"	GC 787 A	N 27 11' 44.42" W 90 01' 36.79"	No	15274	G26921	8675	16	CSNG	Yes			
2481	GC 743	N 27 13' 28.44" W 90 01' 53.88"	GC 787 A	N 27 11' 44.41" W 90 01' 36.61"	No	15276	G26922	9231	10	BLOH	Yes			
2481	GC 743	N 27 13' 28.44" W 90 01' 53.88"	GC 787 A	N 27 11' 44.41" W 90 01' 36.61"	No	15277	G26922	9231	16	CSNG	Yes			
00751	GC 782A	N 27.1946 W 90.2638	GC 603 24 SSTI	N 27.3765 W 90.4125	No	13674	23445	111,042	24	29	Yes	365,000	117.0	NO
00751	GC 787A	N 27° 11' 43.64" W 90° 01' 37.15"	GC 739 24 SSTI	N 27° 14' 06.7" W 90° 14' 07.7"	No	14007	G24634	95,442	24	29	Yes	Prop	N/A	YES
00751	GC 787A	N 27° 11' 43.64" W 90° 01' 37.15"	GC 739 24 SSTI	N 27° 14' 09.90" W 90° 13' 56.07"	No	14008	G24635	93,380	16	Gas	Yes	N/A	N/A	YES

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ROW Pipelines in OCS Waters														
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Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbls)	Distance To Shore ³	Appurt. Platform ⁴
2481	MC 85	N 28° 55'11.48" W 87° 57'57.71"	MC 85	N 28° 55'11.92" W 87° 57'57.71"	No	14055	G24655	45	6	BLKO				

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Oper	1 From	2 Latitude/ Longitude	3 To	4 Latitude Longitude	5 F/S Boundary ¹	6 Segment Number	7 ROW #	8 Length (feet)	9 Size (in)	10 API Gravity	11 Leak Detect System	12 Thru Volume ² (bbls)	13 Distance To Shore ³	14 Appurt. Platform ⁴
2481	MC 127A	N 28.866197 W 88.05625	MP 260P	N 29.342661 W 88.066794	No	13359	G22472	206,538	10	Gas	Yes	Gas	41.0	YES
2481	MC 127A	N 28.866197 W 88.056281	MP 289C	N 29.248622 W 88.441314	No	13360	G22473	184,814	12	Oil	Yes		41.0	YES
2481	MC 129 SS manifo	N 28.88943714 W 87.94281293	VK 915 TLP	N 29.10782578 W 87.94344306	No	13384	G22475	85,302	8	41	Yes	22500	72.0	YES
2481	MC 129 SS manifo	N 28.88943714 W 87.94281293	VK 915 TLP	N 29.10782578 W 87.94344306	No	13385	G22475	85,302	12	Meth	Yes	N/A	72.0	YES
2481	MC 129 SS manifo	N 28.88942627 W 87.94283671	VK 915 TLP	N 29.10779009 W 87.9434018	No	13386	G22476	87,185	8	41	Yes	14500	72.0	YES
2481	MC 129 SS manifo	N 28.53' 29.8" W 87.56' 08.3"	VK 915	N 29.06' 28.6" W 82.56' 36.4"	No	13387	G22476	87,185	12.75	Glycol H2O	Yes	N/A	72.0	YES
2481	MC 383	N 28° 35'52.89" W 88° 26'07.68"	MC 474	N 28° 31'15.66" W 88° 17'20.49"	No	13814	G24240	53,378	05-10	BLKO				
2481	MC 383	N 28° 35'52.89" W 88° 26'07.68"	MC474	N 28° 31'15.66" W 88° 17'20.49"	No	13815	G24240	53,378	16	CSNG				
2481	MC 429	N 28° 33'53.68" W 88° 19'02.53"	MC 474	N 28° 31'16.06" W 88° 17'20.13"	No	13822	G24242	16,032	16	CSNG				
2481	MC 429	N 28° 33'53.68" W 88° 19'02.53"	MC 474	N 28° 31'16.06" W 88° 17'20.13"	No	13821	G24242	16,032	10	BLKO				
0751	MC 474 A	N 28.5210 W 88.2890	MP 260 P	N 29.3424 W 88.0669	No	13591	G23093	388,023	20-24	GAS	Yes	N/A	41.0	YES
2481	MC 474 A	N 28° 31'50.87" W 88° 19'36.23"	MC 473	N 28° 31'15.79" W 88° 17'20.48"	No	13812	G24241	10,084	5	LIFT				
2481	MC 474 A	N 28° 33'53.65" W 88° 19'02.29"	MC 429	N 28° 31'16.04" W 88° 17'20.02"	No	13826	G24243	15,824	04-05	LIFT				
2481	MC 520	N 28°27'57.77" W 88° 10'11.08"	MC 474	N 28° 31'07.31" W 88° 16'50.21"	No	13788	G24236	41,023	05-08	BLKO				

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2481	MC 520	N 28° 27'57.77" W 88° 10'11.08"	MC 474	N 28° 31'07.31" W 88° 16'50.21"	No	13789	G24236	41,023	12	CSNG				
2481	MC 522	N 28° 27'49.34" W 88° 06'17.48"	MC 474	N 28° 31'10.30" W 88° 16'50.20"	No	13799	G24238	61,287	08	BLKG				
2481	MC 522	N 28° 28'19.33" W 88° 06'09.98"	MC 474	N 28° 31'11.83" W 88° 16'49.83"	No	13802	G24239	61,504	08	BLKG				
2481	MC 608	N 28° 24'18.0" W 88° 12'18.04"	MC 474	N 28° 31'14.64" W 88° 17'18.82"	No	13786	G23729	49,415	05-08	BLKG				
00751	MC 778 A	N 28 11' 27.964" W 88 29' 44.503"	SP 89 E	N 28 41' 51.132" W 89 23' 45.3"	No	13633	G23429	373,166	24-28	34	Yes	416,000	17.0	YES
00751	MC 778	N 28.2004 W 88.4985	MC 428 SSTI	N 28.5448 W 88.4035	No	13632	G23428	130,398	20	Gas	Yes			NO
00751	MP 225 A	N 29 23.59 / W 88 02.34	MP 69	N 29 16.28 / W 89 00.58	Yes	11015	G16048	317,988	18	34.8	Yes	72,000	3.0	NO
02193 Destin PL	MP 260	N 29 20.7 W 88 4.0	MO 819FS	N 30 9.8 W 88 22.6	Yes	11273	0176	325,867	36	Gas	Yes	Gas	3	YES
00751	MP 281A	N 29 17.05 W 88 10.47	MP 245 18 SSTI	N 29 22.25 W 88 12.14	No	11928	G20541	30,638	10	45.2	Yes	6,016	55.6	NO

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02193	MP284 SS FLANG	N 29 16.2 W 88 15.2	MP 260 P	N 29 20.7 W 88 4.0	No	11930	G20542	69,183	24	Gas	Yes	Gas	45	YES
00751	SP 89 E	N 28° 41'51.86" W 89° 23'47.70"	G119	N 29° 15'23.67" W 89° 57'46.04"	Yes	13534	G23068	243,588	30	Oil	Prop			
00751	VK 823 A	N 29 10.55? W 88 10.01	MP 281 10 SSTI	N 29 17.05? W 88 10.47?	No	12255	G21257	43,895	8	51.9	Yes	823	50	NO
00751	VK 826 A	N 29 09.49 W 87 59.27	MP 225 A	N 29 23.59 W 88 02.34	No	10981	G16032	92,525	8	34.4	Yes	14,030	65.6	NO
02193	VK 900 A	N 29 5.3 W 88 42.4	MP 284 FLANGE	N 29 16.2 W 88 15.2	No	11935	G20547	162,900	24	58-62	Yes	250	19	YES
2481	VK 914 SS #1	N 29 4' 39.88887 W -88 0' 56.0937	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	12757	Lease term ppl	23,059	6	51	Yes	2000	64.0	YES
2481	VK 914 SS #1	N 29 4' 39.88887 W -88 0' 56.0937	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	12758	Lease term ppl	23,059	6	51	Yes	Gas	64.0	YES
0114	VK 915 A Marlin	N 29.10760444 W 87.94367797	MP 225A	N 29 23 58.3 W 88 02 35.1	No	11765	G19681	115,063	10	Oil	Yes			YES
0114	VK 915 #1 SSW	N 29.1075525 W 87.94362108	MP 260 A	N 29 20.7 W 88 4.0	No	11766	G19682	98,270	14	Gas	Yes			YES

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Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbbls)	Distance To Shore ³	Appurt. Platform ⁴
2367	VK 915 SS #2	N 29.0973542 W -87.935516	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13146	Lease term ppl	5095	6	Gas	Yes	4000	64.0	YES
2367	VK 915 SS#1	N 29.0973028 W -87.9357319	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13145	Lease term ppl	5196	6	Gas	Yes	Gas	64	YES
2367	VK 915 Plet#1	N 29.0973028 W -87.9357319	VK 915 Pelt #2	N 29.0973542 W -87.935516	No	13147	Lease term ppl	94	6	Serv	Yes		64.0	YES
2367	VK 915 SS#2	N 29.0973542 W -87.935516	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13146	Lease term ppl	5095	6	Gas	Yes	Gas	64.0	YES
2481	VK 989A	N 28.9730325 W 88.6259775	SP 62 12" SSTI - SHELL	N 29.07806271 W 88.74905482	No	10269	G14680	57,557	12	31.7	Yes	49,404	26.0	YES
2481	VK 989A	N 28.9730325 W 88.6259775	SP 62 20" SSTI - SONAT	N 29.10603035 W 88.72120222	No	10270	G14681	61,956	12	Gas	Yes	Gas	27.0	YES

- ¹ Indicate whether the ROW pipeline either terminates or originates at the Federal/State boundary (i.e., Yes or No).
- ² Provide the throughput volume in barrels of oil per day of the ROW pipeline.
- ³ Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
- ⁴ Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e., Yes or No).

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Table 3 Platforms in State Waters

1	Provide the 2-letter MMS area designation of the State facility (e.g., MP, PS, WC).
2	Provide the State Block No. of the State facility.
3	Provide the State Lease No. of the State facility.
4	Provide the State facility designation.
5	Provide the State-assigned identification number for the facility.
6	Provide the water depth at the site of the State facility in feet.
7	Provide the latitude and longitude of the State facility in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
8	Provide the distance from the facility to the nearest shoreline in miles.
9	Provide the API Gravity of the densest oil being produced or stored at the State facility.
10	Enter the appropriate worst-case discharge volume rating (e.g., A, B, C, D, or E).
11	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the rate that oil is being produced in barrels per day from an uncontrolled flow of the highest capacity well at the facility.
12	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the total volume in barrels of all tanks on the facility used for the storage of oil including production (e.g., fuel oil including diesel fuel, corrosion inhibitors).
13	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the throughput volume in barrels of oil per day of the lease term pipelines that depart the facility.

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C. Table 3 – Production Platforms & Structures in State Waters

Figure A-4

Not Applicable.



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Table 4 Pipelines in State Waters

1	Provide the 2-letter MMS area designation and the Block No. of the originating point of the State ROW pipeline (e.g., SP 2, EI 21).
2	Provide the latitude and longitude of the originating point of the State ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
3	Provide the 2-letter MMS area designation and the Block No. of the terminus of the State ROW pipeline or the point at which the ROW pipeline crosses the coastline (e.g., HI 96, SS 10).
4	Provide the latitude and longitude of the terminus of the State ROW pipeline (if in State waters) or the point at which the ROW crosses the coastline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
5	Indicate whether the ROW pipeline either terminates or originates at the Federal / State boundary (i.e., yes, no).
6	Provide the State-assigned identification number of the State ROW pipeline, if assigned.
7	Provide the State-assigned ROW No. of the State ROW pipeline.
8	Provide the length of the State ROW pipeline in feet.
9	Provide the internal diameter of the State ROW pipelines in inches.
10	Provide the API Gravity of the oil being transported by the State ROW pipeline.
11	Indicate whether the State ROW pipeline is monitored by a leak detection systems (i.e., Yes, No).
12	Provide the throughput volume in barrels of oil per day of the State ROW pipeline.
13	Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
14	Indicate whether the ROW pipeline has an associated appurtenance platform(s) (Yes, No).

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Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

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Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
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Regional Oil Spill Response Plan – Gulf of Mexico

D. Table 4 – ROW Pipelines in State Waters

Figure A-5

ROW Pipelines in State Waters														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbls)	Distance To Shore ³	Appurt. Platform ⁴
02193	MO 819 FS	29° 16.28' 89° 00.58'	MP 69	29° 15.22' 89° 01.16'	YES	---	---	6,893.2	16.876	34.8	YES	72,000	3.0	

¹ Indicate whether the ROW pipeline either terminates or originates at the Federal/State boundary (i.e., Yes or No).

² Provide the throughput volume in barrels of oil per day of the ROW pipeline.

³ Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.

⁴ Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e., Yes or No).

⁵ State identification numbers are not issued to facilities or pipelines.

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Weather Report			
Incident:		Prepared By: at	
Period: _____		Version Name:	
Present Conditions			
Wind Speed:		Wave Height:	
Wind Direction From The:		Wave Direction:	
Air Temperature:		Swell Height:	
Barometric Pressure:		Swell Interval:	
Humidity:		Current Speed:	
Visibility:		Current Direction Toward:	
Ceiling:		Water Temperature:	
Next High Tide (Time):		Next Low Tide (Time):	
Next High Tide (Height):		Next Low Tide (Height):	
Sunrise:		Sunset:	
Notes:			
24 Hour Forecast			
Sunrise:		Sunset:	
High Tide (Time):		High Tide (Time):	
High Tide (Height):		High Tide (Height):	
Low Tide (Time):		Low Tide (Time):	
Low Tide (Height):		Low Tide (Height):	
Notes:			
48 Hour Forecast			
Sunrise:		Sunset:	
High Tide (Time):		High Tide (Time):	
High Tide (Height):		High Tide (Height):	
Low Tide (Time):		Low Tide (Time):	
Low Tide (Height):		Low Tide (Height):	
Notes:			
Weather Report		© 1997-2009 TRG/dbSoft, Inc.	



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Regional Oil Spill Response Plan – Gulf of Mexico

Section 1
Quick Guide

Notification Status Report									
Incident:				Prepared By:					at:
Period:				to					Version Name:
Organization Notified	Phone	Date /Time Notified	Person Contacted	Person Contacted Email	Case No.	Follow Up	ETA On Site	Notified By	
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
Notification Status Report				© 1997-2009 TRG/dbSoft, Inc.					

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ICS 201-1 Incident Briefing Map/Sketch

Incident:	Prepared By: _____ at _____
Period:	Version Name:

ICS 201-1 Incident Briefing Map/Sketch	© 1997-2009 TRG/dbSoft, Inc.
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ICS 201-2 – Summary of Current Actions

Incident:	Prepared By:	at:
Period:	to	Version Name:

Incident Information

--

Initial Incident Objectives

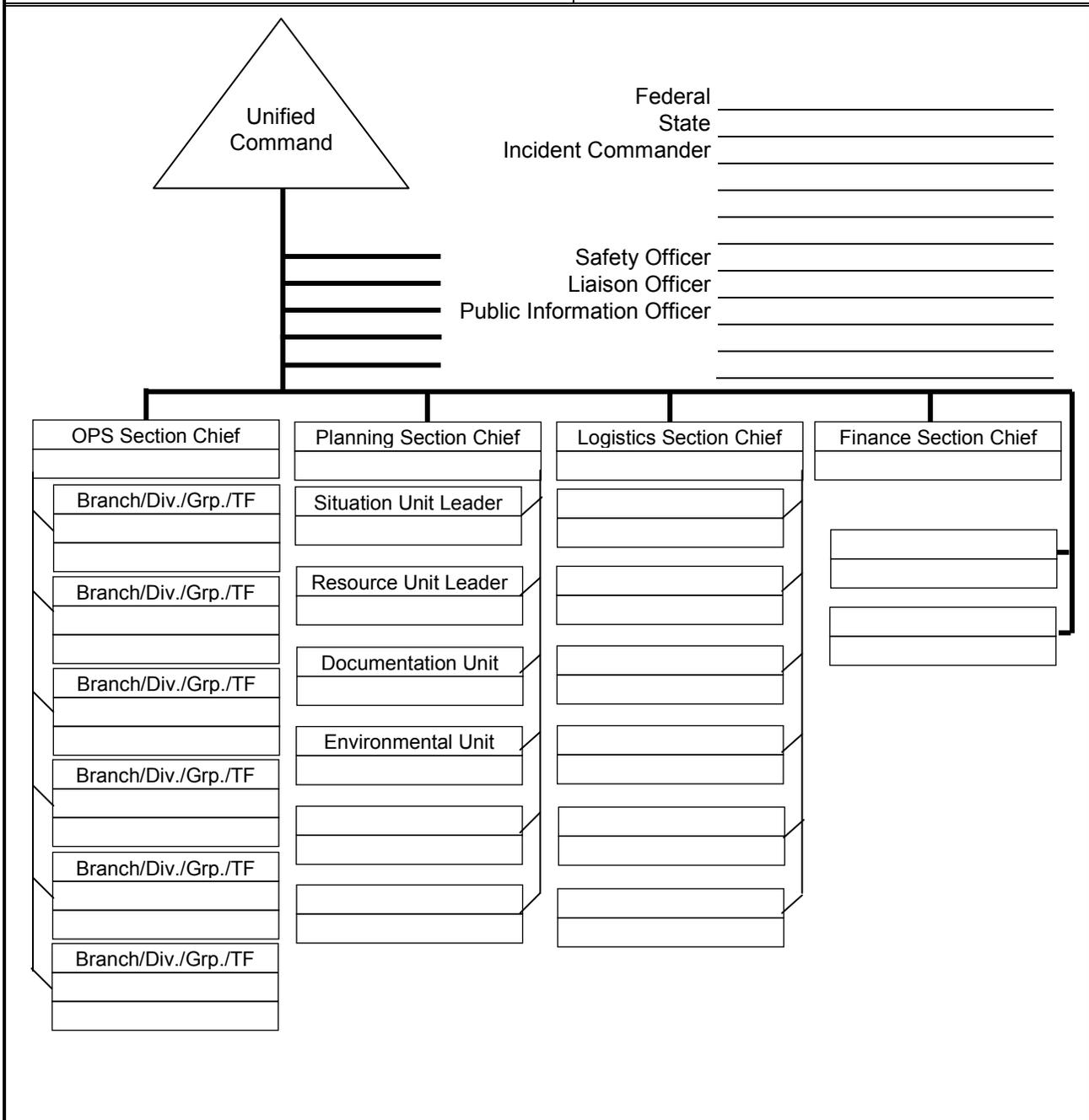
Summary of Current Actions

Date/Time	Action/Note



ICS 201-3 Current Organization

Incident:	Prepared By:	at:
Period:	Version Name:	



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Goals – Objectives – Strategies Development Matrix

Figure 1-25

The checklist and matrix below will assist in developing goals, objectives and strategies.

Step	Action		
1	Use the matrix below to assist in developing objectives and priorities. Priorities are situation dependent and influenced by many factors. Safety of life is always the highest priority. Concerns may or may not be present. Concerns should be considered in every incident.		
	<i>Concerns</i>	<i>Issues</i>	<i>Criteria to Meet</i>
	People/Public	General safety exposure	Overall objectives must be: Attainable Measurable Flexible
		Personal Protective Equipment	
		Slips, trips, falls, drowning	
		Reaction/Perception	
	Environment	Sensitive Areas	
		Special interests	
		Resources at risk	
	Property	Fire	
Contamination			
Flooding			
Source Control			
Economic	Industry		
	Tourism		
	Stakeholders		
2	Provide guidance to Command and general staff on goals, objectives and strategies		
3	Develop the general objectives for the IAP		
4	Approve and authorize implementation of the IAP for each operational period.		
5	Approve the internal and external information dissemination strategy developed by the Information Officer (IO). <i>Examples: web pages, emails to media/other agencies/supervisors/ stakeholders</i> Note: The IC should emphasize the role that the IO plays in keeping the members of the response organization informed as well as the press and stakeholders.		



Response Objectives & Strategies

Figure 1-26

Strategic Objective VS Tactical Objective	
INCIDENT OBJECTIVES – Statements of guidance and direction necessary for the selection of appropriate strategies, and the tactical direction of resources. Incident objectives are based on realistic expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet flexible enough to allow for strategic and tactical alternatives.	
STRATEGIES – The general plan or direction selected to accomplish incident objectives.	
TACTICS – Deploying and directing resources during an incident to accomplish the desired objective.	
OBJECTIVES (Unified Command) = What you plan to do in priority order.	
STRATEGIES (Planning & Operations) = How you plan to accomplish objectives.	
TACTICS (Operations) = How you use resources during each operational period to implement strategies.	
Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
1. Ensure the Safety of Citizens & Response Personnel	<ul style="list-style-type: none"> • Identify hazard(s) of released material • Establish site control (hot zone, warm zone, cold zone and security) • Consider evacuations as needed • Setup first aid/triage stations • Establish vessel and/or aircraft restrictions • Monitor air in impacted areas • Setup decontamination stations • Develop site safety and health plan for response personnel • Ensure safety briefings are conducted
2. Control the Source	<ul style="list-style-type: none"> • Complete emergency shutdown • Conduct firefighting • Initiate temporary repairs • Transfer and/or lighter product • Conduct salvage operations as necessary

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Response Objectives & Strategies (continued)

Figure 1-26

Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
3. Manage Coordinated Response Efforts	<ul style="list-style-type: none"> • Complete or confirm notifications • Establish a unified command organization and facilities (command post, etc) • Ensure local & tribal officials are included in response organization • Initiate emergency response Incident Action Plan (IAP) • Ensure mobilization and tracking of response resources • Account for personnel and equipment • Complete documentation • Evaluate planned response objectives vs. actual response (debrief)
4. Maximize Protection of Environmentally Sensitive Areas	<ul style="list-style-type: none"> • Implement pre-designated response strategies • Identify resources at risk in impacted and potential impacted areas • Track pollutant movement & develop trajectories/plume modeling • Develop/implement appropriate protection tactics • Prioritize sensitive areas to be protected
5. Contain and Recover Spilled Material	<ul style="list-style-type: none"> • Deploy oil containment boom at the spill source • Deploy containment boom at appropriate collection areas • Conduct open water skimming with vessels • Evaluate time-sensitive response strategies (i.e., dispersants, <i>in-situ</i> burning) • Develop disposal plan
6. Recover and Rehabilitate Injured Wildlife	<ul style="list-style-type: none"> • Establish oiled wildlife reporting hotline • Conduct injured wildlife search and rescue operations • Notify wildlife agencies and accredited wildlife rescue services • Setup primary care unit for injured wildlife • Operate wildlife rehabilitation center • Initiate citizen volunteer effort for oiled bird rehabilitation
7. Remove Oil from Impacted Areas	<ul style="list-style-type: none"> • Conduct appropriate shoreline cleanup efforts • Clean oiled structures (piers, docks, etc.) • Clean oiled vessels
8. Minimize Economic Impacts	<ul style="list-style-type: none"> • Consider tourism, vessel movements and local economic impacts throughout response • Protect public and private assets as resources permit • Establish damage claims process

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Response Objectives & Strategies (continued)

Figure 1-26

Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
9. Keep Stakeholders Informed of Response Activities	<ul style="list-style-type: none"> • Provide forum to obtain stakeholder input and concerns • Provide stakeholders with details of response actions • Identify stakeholder concerns and issues and address as practical • Provide elected officials details of response actions
10. Keep the Public Informed of Response Activities	<ul style="list-style-type: none"> • Provide timely safety announcements • Establish a Joint Information Center (JIC) • Conduct regular news briefings • Manage news media access to spill response activities • Conduct public meetings as appropriate
11. Minimize Business Interruption	<ul style="list-style-type: none"> • Identify business interruption and potential business interruption issues • Notification of joint venture partners • Assist with internal/external investigations

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ICS 202 - General Response Objectives			
Incident:		Prepared By:	at:
Period:		Version Name:	
Overall and Tactical Objectives			
		Assigned to:	Status
1. Ensure the Safety of Citizens and Response Personnel			
<input type="checkbox"/>	1a. Identify hazard(s) of spilled material		
<input type="checkbox"/>	1b. Establish site control (hot zone, warm zone, cold zone, & security)		
<input type="checkbox"/>	1c. Consider evacuations if needed		
<input type="checkbox"/>	1d. Establish vessel and/or aircraft restrictions		
<input type="checkbox"/>	1e. Monitor air in impacted areas		
<input type="checkbox"/>	1f. Develop site safety plan for personnel & ensure safety briefings are conducted		
2. Control the Source of the Spill			
<input type="checkbox"/>	2a. Complete emergency shutdown		
<input type="checkbox"/>	2b. Conduct firefighting		
<input type="checkbox"/>	2c. Initiate temporary repairs		
<input type="checkbox"/>	2d. Transfer and/or lighter product		
<input type="checkbox"/>	2e. Conduct salvage operations, as necessary		
3. Manage a Coordinated Response Effort			
<input type="checkbox"/>	3a. Complete or confirm notifications		
<input type="checkbox"/>	3b. Establish a unified command organization and facilities (command post, etc.)		
<input type="checkbox"/>	3c. Ensure local and tribal officials are included in response organizations		
<input type="checkbox"/>	3d. Initiate spill response Incident Action Plans (IAP)		
<input type="checkbox"/>	3e. Ensure mobilization & tracking of resources & account for personnel & equip		
<input type="checkbox"/>	3f. Complete documentation		
4. Maximize Protection of Environmentally-Sensitive Areas			
<input type="checkbox"/>	4a. Implement pre-designated response strategies		
<input type="checkbox"/>	4b. Identify resources at risk in spill vicinity		
<input type="checkbox"/>	4c. Track oil movement and develop spill trajectories		
<input type="checkbox"/>	4d. Conduct visual assessments (e.g., overflights)		
<input type="checkbox"/>	4e. Development/implement appropriate protection tactics		
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ICS 202 - GENERAL RESPONSE OBJECTIVES

Incident:	Prepared By:	at:
Period:	Version Name:	
Overall and Tactical Objectives		
	Assigned to:	Status
5. Contain and Recover Spilled Material		
<input type="checkbox"/> 5a. Deploy containment boom at the spill site & conduct open-water skimming		
<input type="checkbox"/> 5b. Deploy containment boom at appropriate collection areas		
<input type="checkbox"/> 5c. Evaluate time-sensitive response technologies (e.g., dispersants, in-situ burning)		
<input type="checkbox"/> 5d. Develop disposal plan		
6. Recover and Rehabilitate Injured Wildlife		
<input type="checkbox"/> 6a. Establish oiled wildlife reporting hotline		
<input type="checkbox"/> 6b. Conduct injured wildlife search and rescue operations		
<input type="checkbox"/> 6c. Setup primary care unit for injured wildlife		
<input type="checkbox"/> 6d. Operate wildlife rehabilitation center		
<input type="checkbox"/> 6e. Initiate citizen volunteer effort for oiled bird rehabilitation		
7. Remove Oil from Impacted Areas		
<input type="checkbox"/> 7a. Conduct appropriate shoreline cleanup efforts		
<input type="checkbox"/> 7b. Clean oiled structures (piers, docks, etc.)		
<input type="checkbox"/> 7c. Clean oiled vessels		
8. Minimize Economic Impacts		
<input type="checkbox"/> 8a. Consider tourism, vessel movements, & local economic impacts		
<input type="checkbox"/> 8b. Protect public and private assets, as resources permit		
<input type="checkbox"/> 8c. Establish damage claims process		
9. Keep Stakeholders and Public Informed of Response Activities		
<input type="checkbox"/> 9a. Provide forum to obtain stakeholder input and concerns		
<input type="checkbox"/> 9b. Provide stakeholders with details of response actions		
<input type="checkbox"/> 9c. Identify stakeholder concerns and issues, and address as practical		
<input type="checkbox"/> 9d. Provide timely safety announcements		
<input type="checkbox"/> 9e. Establish a Joint Information Center (JIC)		
<input type="checkbox"/> 9f. Conduct regular news briefings		
ICS 202 General Response Objectives		© 1997-2009 TRG/dbSoft, Inc.

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ICS 205 – Communications Plan					
Incident:			Prepared By:		at:
Period:			Version Name:		
Phone Listing					
Name	Main Phone	Fax	Other No. – Desc.	Other No. – Desc.	Radio
Radio Utilization					
System	Channel	Function	Frequency	Assignment	Notes
ICS 205 Communications Plan					© 1997-2009 TRG/dbSoft, Inc.

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ICS 206 – Medical Plan					
Incident:			Prepared By:		at:
Period:			Version Name:		
First Aid Stations					
Name	Location	EMT (On-Site)	Phone	Radio	
Transportation (Ground and/or Ambulance Services)					
Name	Location	EMT	Phone	Radio	
Air Ambulances					
	Location		Phone	Radio	
Hospitals					
Name	Location	Helipad	Burn Center	Phone	Radio
Special Medical Emergency Procedures					
ICS 206 Medical Plan			© 1997-2009 TRG/dbSoft, Inc.		

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ICS 208 – Site Safety Plan	
Incident:	Prepared by: _____ at: _____
Period:	Version Name: _____
Revision: _____	
Applies To Site: _____	
Products: _____ (Attach MSDS)	
SITE CHARACTERIZATION	
Water: _____	Wave Direction: _____
Wave Height: _____	Current Direction: _____
Current Speed: _____	Use: _____
Land: _____	Temp: _____
Weather: _____	Wind Direction: _____
Wind Speed: _____	
Pathways for Dispersion:	
Site Hazards	
<input type="checkbox"/> Boat Safety	<input type="checkbox"/> Fire, explosion, in-situ burning
<input type="checkbox"/> Chemical hazards	<input type="checkbox"/> Heat stress
<input type="checkbox"/> Cold Stress	<input type="checkbox"/> Helicopter operations
<input type="checkbox"/> Confined Spaces	<input type="checkbox"/> Lifting
<input type="checkbox"/> Drum handling	<input type="checkbox"/> Motor vehicles
<input type="checkbox"/> Equipment operations	<input type="checkbox"/> Noise
<input type="checkbox"/> Electrical operations	<input type="checkbox"/> Overhead/buried utilities
<input type="checkbox"/> Fatigue	<input type="checkbox"/> Plants/wildlife
<input type="checkbox"/> Other	<input type="checkbox"/> Other
<input type="checkbox"/> Pump hose	<input type="checkbox"/> Slips, trips, and falls
<input type="checkbox"/> Steam and hot water	<input type="checkbox"/> Trenching/Excavation
<input type="checkbox"/> UV Radiation	<input type="checkbox"/> Visibility
<input type="checkbox"/> Weather	<input type="checkbox"/> Work near water
<input type="checkbox"/> Other	<input type="checkbox"/> Other
Air Monitoring	
%O₂: _____	%LEL: _____
ppm H₂S: _____	ppm Benzene: _____
<input type="checkbox"/> Other (Specify): _____	
CONTROL MEASURES	
Engineering Controls	
<input type="checkbox"/> Source of release secured	<input type="checkbox"/> Valve(s) closed
<input type="checkbox"/> Site secured	<input type="checkbox"/> Facility shut down
<input type="checkbox"/> Energy source locked/tagged out	<input type="checkbox"/> Other _____
Personal Protective Equipment	
<input type="checkbox"/> Impervious suit	<input type="checkbox"/> Respirators
<input type="checkbox"/> Inner gloves	<input type="checkbox"/> Eye protection
<input type="checkbox"/> Outer gloves	<input type="checkbox"/> Personal floatation
<input type="checkbox"/> Flame resistance clothing	<input type="checkbox"/> Boots
<input type="checkbox"/> Hard hats	<input type="checkbox"/> Other _____
Additional Control Measures	
<input type="checkbox"/> Decontamination	<input type="checkbox"/> Stations established
<input type="checkbox"/> Sanitation	<input type="checkbox"/> Facilities provided – OSHA 29 CFR 1910.120n
<input type="checkbox"/> Illumination	<input type="checkbox"/> Facilities provided – OSHA 29 CFR 1910.120m
<input type="checkbox"/> Medical Surveillance	<input type="checkbox"/> Provided – OSHA 29 CFR 1910.120fg
ICS 208 Site Safety Plan	
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ICS 208 – Site Safety Plan		
Incident:	Prepared By: _____ at: _____	
Period:	Version Name: _____	
WORK PLAN		
<input type="checkbox"/> Booming	<input type="checkbox"/> Skimming	<input type="checkbox"/> Vac trucks
<input type="checkbox"/> Heavy equipment	<input type="checkbox"/> Sorbent pads	<input type="checkbox"/> Patching
<input type="checkbox"/> Other	<input type="checkbox"/> Pumping	<input type="checkbox"/> Excavation
	<input type="checkbox"/> Hot work	<input type="checkbox"/> Appropriate permits used
TRAINING		
<input type="checkbox"/> Verified site workers trained per OSHA 29 CFR 1920.120		
ORGANIZATION		
	Title	Name
	Telephone/Radio	
Incident Commander:	_____	_____
Deputy Incident Commander:	_____	_____
Safety Officer:	_____	_____
Public Affaire Officer:	_____	_____
Other:	_____	_____
EMERGENCY PLAN		
<input type="checkbox"/> Alarm system:	_____	
<input type="checkbox"/> Evacuation plan:	_____	
<input type="checkbox"/> First aid location	_____	
Notified		
<input type="checkbox"/> Hospital	_____	Phone: _____
<input type="checkbox"/> Ambulance	_____	Phone: _____
<input type="checkbox"/> Air ambulance	_____	Phone: _____
<input type="checkbox"/> Fire	_____	Phone: _____
<input type="checkbox"/> Law enforcement	_____	Phone: _____
<input type="checkbox"/> Emergency response/rescue	_____	Phone: _____
PRE-ENTRY BRIEFING		
<input type="checkbox"/> Initial briefing prepared for each site		
INCLUDING ATTACHMENTS/APPENDICES		
Attachments		Appendices
<input type="checkbox"/> Site Map	<input type="checkbox"/> Hazardous Substance Information Sheets	<input type="checkbox"/> Site Safety Program Evaluation Checklist
<input type="checkbox"/> Site Hazards	<input type="checkbox"/> Monitoring Program	<input type="checkbox"/> Confined Space Entry Checklist
<input type="checkbox"/> Training Program	<input type="checkbox"/> Confined Space Entry Procedure	<input type="checkbox"/> Heat Stress Consideration
<input type="checkbox"/> Safe Work Practices for Boats	<input type="checkbox"/> PPE Description	<input type="checkbox"/> Cold Stress and Hypothermia Consideration
<input type="checkbox"/> Decontamination	<input type="checkbox"/> Communication and Organization	<input type="checkbox"/> First Aid for Bites, Stings, and Poisonous Plant Contact
<input type="checkbox"/> Site Emergency Response Plan		<input type="checkbox"/> Safe Work Practice for Oily Bird Rehabilitation
		<input type="checkbox"/> SIPI Site Pre-Entry Briefing
		<input type="checkbox"/> Personnel Tracking System
ICS 208 – Site Safety Plan		© 1997-2006 TRG/dbSoft, Inc.

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IMT Locations

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Record Of Revision – Update Procedures

BP will control and maintain this Oil Spill Response Plan (OSRP) in the Houston, Texas office for the period of time prescribed by applicable regulation. All suggestions and recommendations should be submitted to the primary contact listed below. All updates and revisions made to the plan will be recorded on the Record of Revisions Form and distributed to the appropriate plan holders listed on the Distribution List.

PRIMARY CONTACT	Earnest Bush 200 Westlake Park Boulevard, Houston, Texas 77079 281-366-8295 (office) 281-513-1067 (cell)
BIENNIAL UPDATES	This Oil Spill Response Plan will be updated at a minimum of every two years to ensure the plan is current regarding personnel changes, contact information, contractor and available equipment changes, and other relevant information as required.
SIGNIFICANT UPDATES	Plan revisions will be submitted to the MMS for approval within 15 days as required in the event of: a) Changes occur which will impact response capabilities; b) Any change occurs with regard to the name or capabilities of the OSRO's on the approved list. c) The worst case discharge scenario changes; d) Company name changes or significant facility updates due to mergers and acquisitions; e) Relevant modifications to the Area Contingency Plan (ACP) which require revisions to the BP OSRP
PLAN REVIEW	Plan modifications will be submitted to the MMS Regional Field Operations supervisor in a timely manner for review and approval.
DOCUMENTATION & DISTRIBUTION	All revisions will be recorded on the Record of Revisions Form, Figure 2-1 . The Notebook Distribution list is located in Figure 2-2 and the Quick Guide Distribution list is located in Figure 2-3 .



Notebook Distribution (Hardcopy)

Figure 2-2

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 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

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Figure 2-2

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Notebook Distribution (Quick Guide Only)

Figure 2-3

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Abbreviations / Acronyms

Figure 2-4

ACP	Area Contingency Plan
ADP	Automatic Data Processing
AFFF	Aqueous Film-Forming Foam
ALOHA	Aerial Location of Hazardous Atmosphere
AMPD	Average Most Probable Discharge
AOC	Area Operations Coordinator
APHIS	Animal and Plant Health Inspection Service
ASTDR	Agency for Toxic Substances and Disease Registry
ASTM	American Society of Testing Materials
Bbls	Barrels
BLM	Bureau of Land Management (USDOI)
BNTM	Broadcast Notice to Mariners (USCG)
BOA	Basic Ordering Agreement
CAER	Community Awareness and Emergency Response
CEM	Continuous Emission Monitors
CEMP	Comprehensive Emergency Management Plan
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980, as amended
CFR	Code of Federal Regulations
CGHQ	Coast Guard Headquarters(USCG)
CHEMTREC	Chemical Transportation Emergency Center
CHRIS	Chemical Hazards Response Information System
CMA	Chemical Manufacturers Association
CO	Commanding Officer (USCG)
COFR	Certificate of Financial Officer
COS	Chief of Staff
COTP	Captain of the Port
CPR	Cardiopulmonary Resuscitation
CR	Control Room
CRO	Control Room Operator
CWA	Clean Water Act of 1977 (Federal)
DCO	Discharge Clean-Up Organization
DCT	Damage Control Team
DEM	Governor's Division of Emergency Management
DLI	Department of Labor & Industries
DNR	Department of Natural Resources
DOC	Department of Commerce
DOI	Department of Interior
DOS	Department of State
DOSC	Deputy On-Scene Coordinator
DOT	Department of Transportation
DPS	Department of Public Safety
DRAT	District Response Advisory Team (USCG)
DRG	District Response Group (USCG)
ECC	Emergency Command Center
EEZ	Exclusive Economic Zone
ELIRT	Emergency Local Interfunctional Response Team

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Abbreviations / Acronyms (Cont'd)

Figure 2-4

EM	Emergency Management
EMP	Emergency Management Plan
EMT	Emergency Management Team
EOC	Emergency Operations Center
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERAP	Emergency Response Action Plan
ERC	Emergency Response Coordinator
ERO	Emergency Response Organization
ERP	Emergency Response Plan
ERT	Emergency Response Team
ERTL	Emergency Response Team Leader
ESD	Emergency Shutdown
ES&H	Environmental Safety & Health
EPZ	Emergency Planning Zone
FAA	Federal Aviation Administration
FDA	Food and Drug Administration
FEMA	Federal Emergency Management Administration
FOSC	Federal on-Scene Coordinator
FR	Federal Register
FRDA	Freshwater Resource Damage Assessment
FRP	Facility Response Plan
FWPCA	Federal Water Pollution Control Act
G-C	Office of the Commandant (USCG)
G-L	Office of Chief counsel (USCG)
G-M	Office of Marine Safety, Security, and Environmental Protection (USCG)
G-MEP	Office of Marine Environmental Protection(USCG)
G-N	Office of Navigation Safety and Waterway Services (USCG)
GAL	Gallons
GIS	Geographic Information System
GOM	Gulf of Mexico
GPM	Gallons Per Minute
GRU	Group (USCG)
GSA	General Services Administration
GST	Gulf Strike Team (Mobile, AL) (USCG)
HACS	Hazard Assessment Computer System
HAZMAT	Hazardous Materials
HAZWOPER	Hazardous Waste Operations and Emergency Response
HHS	Department of Health and Human Services
HMIS	Hazardous Material Information System
HUD	Department of Housing and Urban Development
HWCP	Hazardous Waste Contingency Plan
IAP	Incident Action Plan
ICP	Incident Contingency Plan
IC/QI	Incident Commander/Qualified Individual

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Abbreviations / Acronyms (Cont'd)

Figure 2-4

ICS	Incident Command System
ICW	Intracoastal Waterway (Same as IWW)
I.D. BOATS	Identified Deployment Boats
IMO	International Marine Organization
INS	Immigration and Naturalization Service
IPIECA	International Petroleum Industry Environmental Conservation Association
IRT	Initial Response Team
IWW	Intracoastal Waterway (Same as ICW)
JIB	Joint Information Bureau
JOC	Joint Operations Center
JRC	Joint Response Center
JTC	Joint Transportation Center
LCP	Local Oil and Hazardous Substances Contingency Plan
LDEQ	Louisiana Department of Environmental Quality
LEL	Lower Explosive Limit
LEPC	Local Emergency Planning Committee
LEPD	Local Emergency Planning District
LLEA	Local Law Enforcement Agency
LNG	Liquefied Natural Gas
LOOP	Louisiana Offshore Oil Port
LOSC	Local On-Scene Coordinator
LPG	Liquefied Petroleum Gas
LRT	Local Response Team
MIRG	Marine Industry Resource Gulf (Tankers)
MMPD	Maximum Most Probable Discharge
MMS	Minerals Management Services
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
M&O	Management and Operations
MPA	Marine Preservation Association
MRL	Minimum Response Levels
MSD	Marine Safety Detachment (USCG)
MSDS	Material Safety Data Sheets
MSIS	Marine Safety Information System (USCG)
MSM	Marine Safety Manual (USCG)
MSO	Marine Safety Office (USCG)
MSD	Marine Safety Detachment
MSDS	Material Safety Data Sheets
MSIS	Marine Safety Information System (USCG)
MSM	Marine Safety Manual (USCG)
MSO	Marine Safety Office
MSRC	Marine Spill Response Corporation
MSU	Marine Safety Unit
MTR	Marine Transportation Related
NCP	National Contingency Plan
NIC	National Incident Commander

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Abbreviations / Acronyms (Cont'd)

Figure 2-4

NICa	Alternate National Incident Commander
NIIMS	National Interagency Incident Management System
NIOSH	National Institute for Occupational Safety and Health
NITF	National Incident Task Force
NM	Nautical Miles
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NPFC	National Pollution Funds Center (USCG)
NRC	National Response Center
NRC	National Response Corporation (OSRO)
NRDA	Natural Resources Damage Assessment
NRS	National Response System
NRT	National Response Team
NSFCC	National Strike Force Coordination Center (USCG)
NTL	Notice to Lessees and Operations
NVIC	Navigation and Vessel Inspection Center (USCG)
O&M	Operations and Maintenance
OCI	Office of Criminal Investigation (EPA)
OCS	Outer Continental Shelf
OPA-90	Oil Pollution Act of 1990
OSC	On-Scene Coordinator/ Commander
OSCP	Oil Spill Contingency Plan
OSRP	Oil Spill Response Plan
OSHA	Occupational Safety & Health Administration
OSLTF	Oil Spill Liability Trust Fund
OSPR	Oil Spill Prevention and Response Act of 1991 (TWC)
OSRAM	Oil Spill Risk Analysis Model
OSRC	Oil Spill Response Coordinator
OSRL	Oil Spill Response, Ltd.
OSRO	Oil Spill Response Organization
OSRP	Oil Spill Response Plan
PAO	Public Affairs Officer (USCG)
P/F	Platform
PFD	Personal Flotation Device
PHS	Public Health Service
PIAT	Public Information Assist Team
PIC	Person in Charge
PIP	Pre-Incidence Planning
P/L	Pipeline
POLREP	Pollution Report Message (USCG)
PPE	Personal Protective Equipment
PREP	National Preparedness for Response Exercise Program
QA	Quality Assurance
QI	Qualified Individual
RA	EPA Regional Administrator
RAT	Rapid Assessment Team

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Abbreviations / Acronyms (Cont'd)

Figure 2-4

RCP	Regional Oil and Hazardous Substance Pollution Contingency Plan
RCRA	Resource Conservation and Recovery Act
ROW	Right of Way
RP	Responsible Party
RRC	Regional Response Centers
RRI	Regional Resource Inventory
RRT	Regional Response Team (Federal)
RSPA	Research and Special Programs Administration
RQ	Reportable Quantity
SAR	Search and Rescue
SARA	Superfund Amendments and Reauthorization Act
SARS	Safety Analysis Review System
SCADA	Supervisory Control & Data Acquisition
SCAT	Shoreline Countermeasures Assessment Team
SCBA	Self-Contained Breathing Apparatus
SDHPT	State Department of Highways and Public Transportation
SDWA	Safe Drinking Water Act of 1986
SDWF	State Department of Wildlife and Fisheries
SERC	State Emergency Response Commission
SI	Surface Impoundment
SIC	Standard Industrial Classification
SIP	Significant Incident Plan
SITREP	Situation Report Message (USCG)
SMART	Special Monitoring of Advanced Response Technologies
SMT	Spill Management Team
SONS	Spill of National Significance
SOP	Standard Operating Procedures
SOCS	State On-Scene Coordinator
SPCC	Spill Prevention, Control, and Countermeasures
SRG	State Response Group
SROC	Spill Response Operations Center
SROT	Spill Response Operating Team
SSC	Scientific Support Coordinator (NOAA)
STRCC	Spill Team Response Containment/ Cleanup
SUPSALV	U.S. Navy Supervisor of Salvage
SWLAMA	Southwest Louisiana Mutual Aid Association
SWS	Shallow Water Skimmer
TARC	Tiered Area Response Consortium
TAT	Tactical Assist Team (EPA)
TCEQ	Texas commission on Environmental Quality
TEAP	Transportation Emergency Action Plan
TGLO	Texas General Land Office
TRG	The Response Group
ROW	Right of Way
RRC	Railroad Commission of Texas
RRT	Regional Response Team

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Abbreviations / Acronyms (continued)

Figure 2-4

UCS	Unified Command System
US	United States
USA	U.S. Army
USACE	U.S. Army Corps of Engineers
USAF	U.S. Air Force
USCG	U.S. Coast Guard
USDA	U.S. Department of Agriculture
USDOD	U.S. Department of Defense
USDL	U.S. Department of Labor
USDOE	U.S. Department of Energy
USDOJ	U.S. Department of Interior
USDOJ	U.S. Department of Justice
USDOT	U.S. Department of Transportation
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service (USDOJ)
USGC	U.S. Coast Guard
USGS	U.S. Geological Survey (USDOJ)
USHHS	U.S. Department of Health & Human Services
USMC	U.S. Marine Corps
USN	U.S. Navy
USPHS	U.S. Public Health Service
VRP	Vessel Response Plan
VTS	Vessel Traffic System
WCD	Worst Case Discharge



3. INTRODUCTION

A. Facilities Covered

This Oil Spill Response Plan (OSRP) encompasses all facilities operated by BP, herein the jurisdiction of the Minerals Management Service (MMS) and the Department of Transportation. Information on Federal or State leases and/or pipelines operated by BP is included in **Appendix A**.

A.

Corporate Name	MMS ID Code	Type Facility			
		OCS		State	
		Leases	ROW P/Ls	Leases	ROW P/Ls
BP America, Inc.	21591				
Arco Pipeline Company	00486		X		X
BP America Production Company	0114	X	X		X
BP Corporation North America, Inc.	2367		X		
BP Exploration & Production Inc.	2481	X	X		
BP Pipeline (North America) Inc.	00751		X		X
Caesar Oil Pipeline Company*	2554				
Cleopatra Gas Gathering Company, LLC*	2553				
Destin Pipeline Company LLC	02193		X		
Mardi Gras Endymion Oil Pipeline Company, LLC	2529				X
Mardi Gras Transportation System, Inc.	2527		X		X
Okeanos Gas Gathering Company, LLC*	2545				
Proteus Oil Pipeline Company, LLC	2530	X	X		
Vastar Pipeline, LLC	2317				
Vastar Resources, Inc.	1855		X		X

* - The assets owned/operated under these companies are listed as being under the responsibility of BP Pipeline (North America), Inc. (MMS ID Code 0751).



B. Purpose and Use

This OSRP was developed in order to respond effectively to all emergency incidents that occur in the Gulf of Mexico, and will be utilized in the event of an oil spill occurring in Federal or State waters.

The purpose of the Plan is to establish procedures, clarify responsibilities, and provide lines of authority and the sequence of communications to be followed in the event of an emergency response. Proper execution of the procedures detailed in this manual will help to limit environmental and ecological damage to sensitive areas as well as minimizing loss or damage to BP facilities in the event of a petroleum release and/or other emergency response incidents.

Objectives of the plan are as follows:

Plan Objectives	
•	Protect the health and safety of all company personnel, contractors, and others who may be affected by the incident.
•	Enable a coordinated and integrated response by industry, contractors, federal, state, and local agencies and others to protect the environment from the damaging effects of pollution discharges.
•	Provide a list of procedures to follow when an incident occurs in order to promote a quick and effective response.
•	Minimize the effect of released material on aquatic and terrestrial ecosystems.
•	Minimize the effect of released material on public and private property.
•	Detail viable mechanisms for: <ol style="list-style-type: none"> a) Spill detection and notification b) Spill assessment and initiation of action c) Spill containment and countermeasures d) Spill material removal and proper disposal e) Spill documentation and cost recovery



C. Types of Leases and ROW Pipelines

Types of Leases and ROW Pipelines	Yes	No
OCS Leases	X	
OCS ROW Pipelines	X	
State Facilities		X
State ROW Pipelines	X	

D. Facility Information Statement

All BP facilities covered under this Oil Spill Response Plan are listed in **Appendix A**, Facility Information.

E. Contract Certification Statement

BP hereby certifies that contracts and/or agreements are in place with NRC and MSRC that will provide immediate access to appropriate spill response equipment and personnel to respond to an incident. See **Appendix D** for the company certification and procurement contacts to review contracts related to emergency response.



4. ORGANIZATION

A. Qualified Individual/Incident Commander (QI/IC)

Identification of Qualified Individuals is required under Section 311(j)(s)(c)(ii) of the Federal Water Pollution Control Act. The Qualified Individual representing BP will also serve as the Incident Commander as defined in the Oil Pollution Act of 1990 (OPA '90). In this capacity, the QI/IC has the responsibility and authority to:

•	Initiate spill cleanup operations.
•	Obligate any funds necessary to carry out all required and/or directed Oil Spill Response activities.
•	Activate and contract with required oil spill removal organizations.
•	Act as liaison with the Federal On-Scene Coordinator (FOSC).
•	Authorize immediate notification of Federal, State, and Local agencies.

For a complete listing of Qualified Individual duties see **Figure 4-2**. Refer to **Figure 7-1** for a BP contact list of primary and alternate Qualified Individuals. Refer to **Appendix B**, training information, for a description of required training for Qualified Individuals/ Incident Commanders. Training records for Qualified Individuals, as well as other Incident Management Team Members, will be retained by BP for the time period specified by 30 CFR § 254.41.

B. Incident Management Team (Incident Management Team – IMT)

Multi-Tiered Response Organization – Tactical Response Team

BP's emergency response organization is designed to manage the response to any emergency involving BP's operations. It consists of three interfunctional tiers, each with it's own response team, roles, and responsibilities. The first tier is the Tactical Response Team (TRT). The TRT is comprised of the highly trained personnel who initially respond to the incident and conduct the at-the-scene, hands-on tactical response operations. This team may include BP personnel (BP Strike Team), response contractors (OSROs), and government agency personnel (police and/or fire departments). Upon activation of an IMT, the TRT is integrated into and forms the bulk of the Operations Section of the IMT.



Multi-Tiered Response Organization – Incident Management Team

BP’s Incident Management Teams are primarily comprised of BP personnel; however, the IMT may include BP Americas Response Team members, government agency personnel, and/or contractors. The primary roles of the IMT are:

- to provide strategic direction to incident response operations
- support the TRT
- address issues best handled at the IMT level
- interface with/provide information to external parties.

The organizational structure of the IMT is based on NIMS ICS and operates within a tiered response framework, which allows for the mobilization of resources at varying levels as dictated by incident circumstances. IMT duties and responsibilities are illustrated in **Figure 4-2**.

Refer to **Figure 4-1** for the BP IMT Organization Chart. The IMT Organization Chart is illustrated in **Figure 7-1** while the names and phone numbers for IMT members are listed in **Figure 7-6a**.

Multi-Tiered Response Organization – Business Support Team

The third tier of BP’s emergency response organization is the Business Support Team (BST). The BST has two basic responsibilities – to provide support to the IMT and to address ancillary issues that are related to the incident but fall outside the IMT’s responsibility to manage the immediate incident. If an incident occurs that requires the activation of the GoM Incident Management Team, then Incident Commander, will contact and inform the BST Crisis Manager or alternate at the earliest opportunity, and they will determine if the BST should be activated. Examples of BST responsibilities include:

•	Identify potential resources for use by the IMT
•	Liaise with local government representatives to mitigate potential ramifications of the incident on current or future legislation
•	Serve as communication conduit between the IMT and the Group Crisis Team
•	Assist in any matters or issues as requested by the IMT, e.g. media inquiries, HR, press releases
•	Provide assistance and support to the Group Crisis Team in the development of the strategic response to the incident
•	IP Worksheet assessment or further assessment of incident potential

The BST is small in comparison to a typical IMT, consisting of up to nine advisors who work in support of the BST Business Support Manager. It is important to note that the BST does not give response directions to the IMT. However, it is the responsibility of the BST Business Support Manager to confirm the qualifications of the Incident Commander for leading the IMT and, if appropriate, to designate a new Incident Commander to lead the IMT.



See **Appendix B**, Training Information, for a description of training provided to IMT members responsible for spill management decision making.

C. Spill Response Operating Team (SROT) / Tactical Response Team (TRT)

The BP Spill Response Operating Team (SROT) / Tactical Response Team (TRT) is comprised of a number of Oil Spill Removal Organizations (OSROs). The SROT duties include but are not limited to:

•	Ensuring the availability of trained personnel, services, and response equipment on a 24 hour per day basis.
•	Provide personnel, equipment, and materials of sufficient quality and recovery capacity to respond effectively to oil spills from the facilities and leases covered by this plan, including worst case scenarios.
•	Respond immediately upon notification of an oil spill and begin containment and recovery operations as soon as possible. Response time will be dependent upon spill location, weather conditions, and safety considerations.
•	Comply with annual training requirements for employees. See Appendix B for a description of training received by SROT members.
•	Refer to Appendix D , Contractual Agreements, for OSRO and SROT contract information.
•	For a listing of Oil Spill Removal Organizations (OSROs) that are members of the BP Spill Response Operating Team refer to Figure 7-6a & 7-6b .

D. Oil Spill Removal Organizations

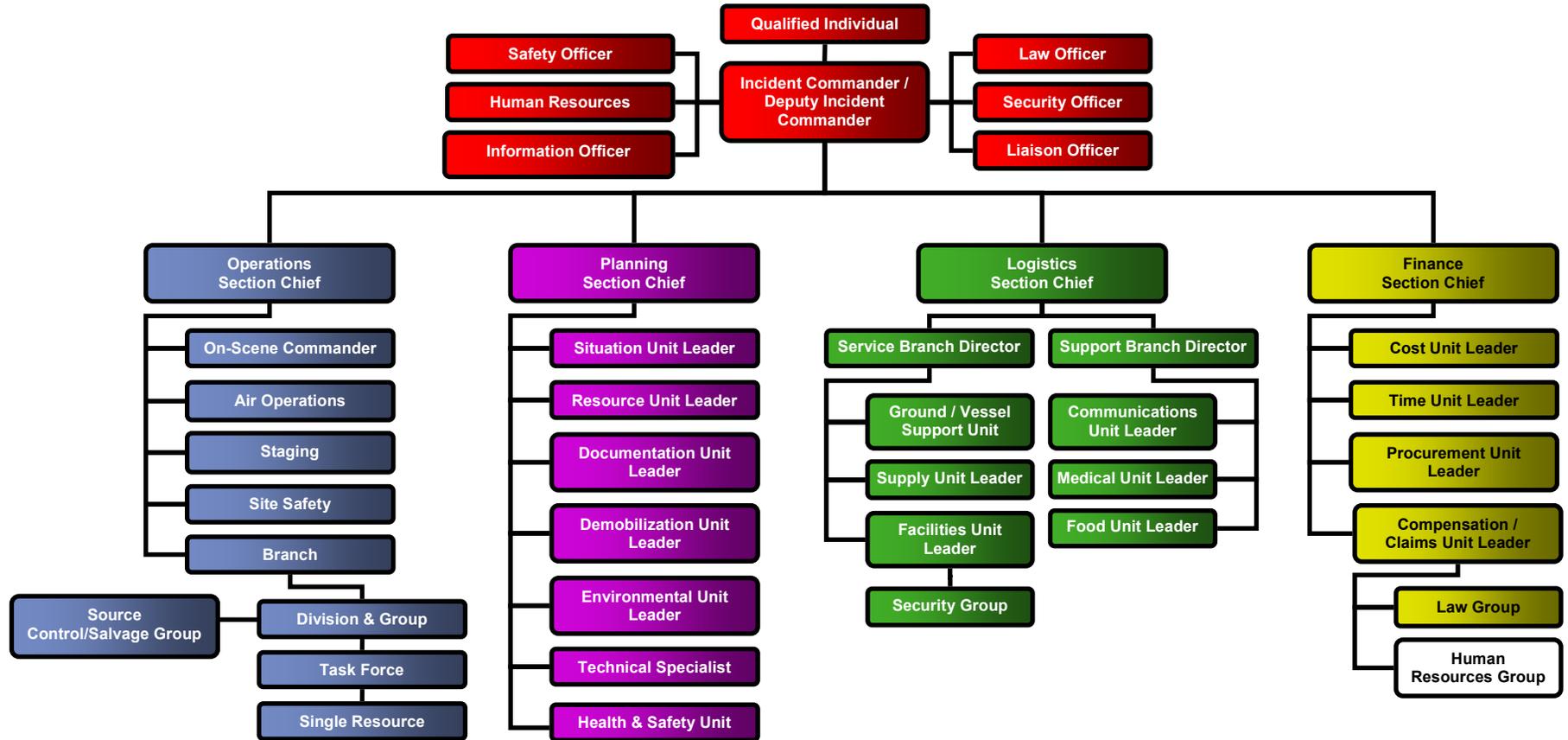
For a listing of oil spill removal organizations refer to **Figure 7-7**.

Primary Equipment Providers	
•	BP is a member of both the National Response Corporation (NRC) and the Marine Spill Response Corporation (MSRC) cooperatives. Membership provides for the use of NRC & MSRC equipment. Refer to Appendix D , Contractual Agreements, for information concerning contracts and/or agreements. Refer to Appendix E , Response Equipment, for an up-to-date inventory of NRC equipment and supplies.
•	See Appendix F , Support Services and Supplies, for a telephone list of support services that may be required in the event of a spill.



Incident Management Team Organizational Structure

Figure 4-1



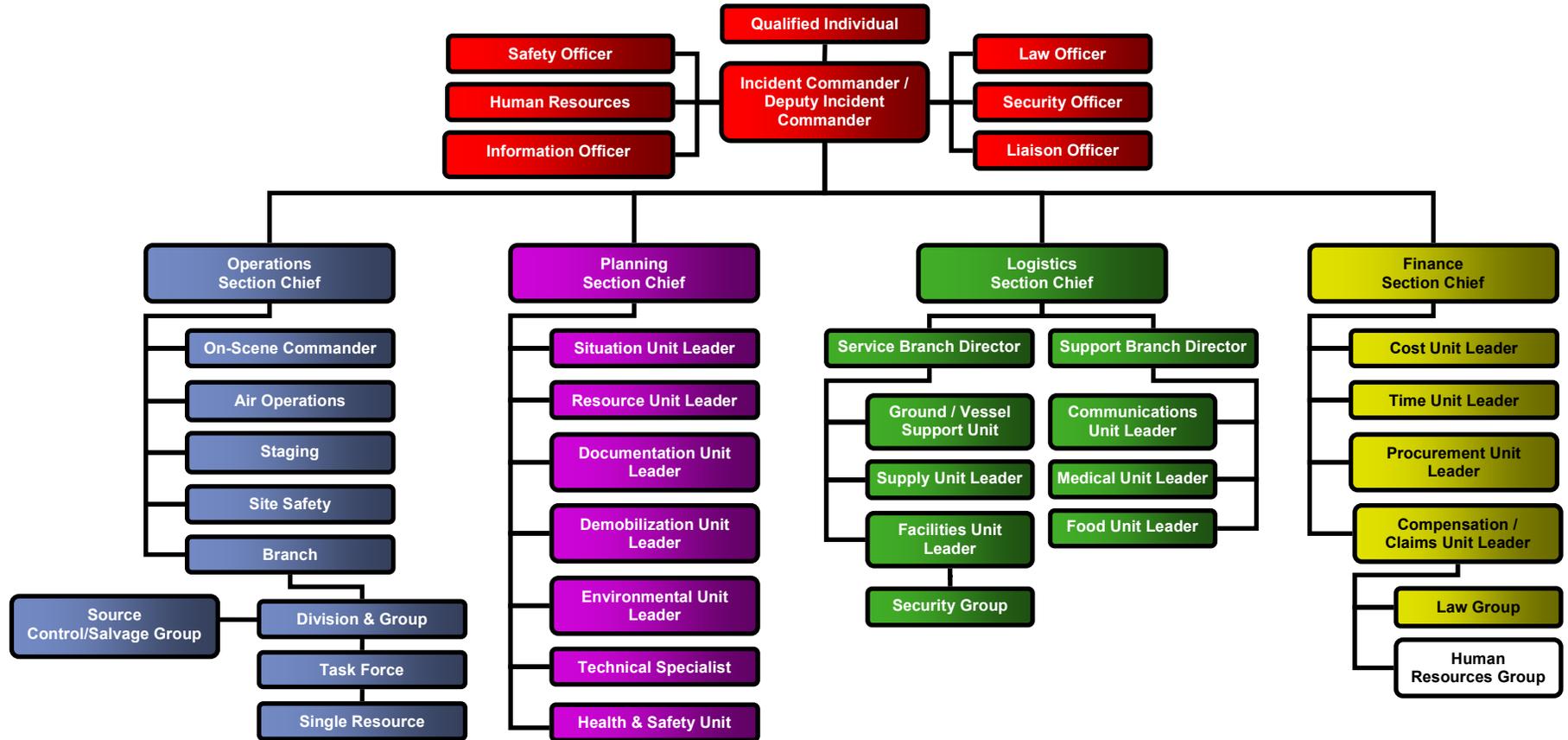
Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 4, Page 4 of 24 Pages
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Incident Management Team Organizational Structure

Figure 4-1



Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
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IMT Duties & Responsibilities Checklists

Figure 4-2

BP Incident Management Team Duties and Responsibilities Checklist	
INCIDENT COMMANDER (IC) (QUALIFIED INDIVIDUAL) (QI)	
<i>Responsible for overall command and control of emergency response effort</i>	
*	Response Actions
	Review common responsibilities.
	Review Incident Commander responsibilities and serve in such capacity until IMT is activated and in place.
	Serve as initial point of contact for RP personnel in initial response.
	Assess incident situation and ensure appropriate response steps are being taken.
	Ensure adequate safety measures are in place.
	Ensure regulatory notifications have been completed.
	Establish appropriate communications with FOSC, SOSC and other federal and state officials, as appropriate.
	Oversee initial response actions.
	Notify and activate Oil Spill Removal Organizations as is appropriate.
	Obligate funds, as is appropriate, to support the conduct of incident response activities.
	Ensure activation of Incident Management Team and The Response Group is completed.
	Request maps and trajectories from The Response Group.
	Perform additional responsibilities as designated by BP.
	Review general ICS procedures and common responsibilities.
	Obtain a briefing from the prior IC (201 Briefing), if applicable.
	Determine Incident Objectives & general direction for managing the incident.
	Establish the immediate priorities.
	Establish an ICP.
	Brief Command Staff and General Staff.
	Establish an appropriate organization.
	Ensure planning meetings are scheduled as required.
	Approve and authorize the implementation of an IAP.
	Ensure that adequate safety measures are in place.
	Coordinate activity for all Command and General Staff.
	Coordinate and serve as primary on-site contact with key people and officials.
	Approve requests for additional resources or for the release of resources.
	Keep agency administrator informed of incident status.
	Approve the use of trainees, volunteers, and auxiliary personnel.
	Serve as primary spokesperson and authorize release of information to the news media.
	Ensure ICS 209 is completed and forwarded to appropriate higher authority.
	Order the demobilization of the incident when appropriate.
	Supervise incident response operations and ensure that they are carried out in a manner consistent with BP's policy, appropriate government directives, and the needs and concerns of impacted areas.
	Analyze incident potential.
	Serve as primary on-site contact person for BP senior management, government representatives, and BP partners.

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 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 4, Page 5 of 24 Pages
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*	Response Actions (Cont'd)
	Ensure that source control and response operations are carried out safely and closely coordinated.
	Monitor and evaluate effectiveness of source control and response operations.
	Approve and authorize implementation of General Plan.
	Consider need for an alternate or backup person for extended (24 hour) coverage.



BP Incident Management Team Duties and Responsibilities Checklist	
SAFETY OFFICER	
<i>Responsible for the overall safety of emergency response operations</i>	
*	Response Actions
	Review general ICS procedures and common responsibilities.
	Participate in tactics and planning meetings, and other meetings and briefings as required.
	Identify hazardous situations associated with the incident.
	Review the IAP for safety implications.
	Provide safety advice in the IAP for assigned responders.
	Exercise emergency authority to stop and prevent unsafe acts.
	Investigate accidents that have occurred within the incident area.
	Assign assistants, as needed.
	Review and approve the medical plan (ICS Form 206).
	Develop the Site Safety Plan and publish a summary (ICS Form 208) as necessary.

BP Incident Management Team Duties and Responsibilities Checklist	
LIAISON OFFICER	
<i>Responsible for assuming main point of contact role for regulatory agency involvement</i>	
*	Response Actions
	Review general ICS procedures and common responsibilities.
	Be a contact point for Agency Representatives.
	Maintain a list of assisting and cooperating agencies and Agency Representatives, including name and contact information. Monitor check-in sheets daily to ensure that all Agency Representatives are identified.
	Assist in establishing and coordinating interagency contacts.
	Keep agencies supporting the incident aware of incident status.
	Monitor incident operations to identify current or potential inter-organizational problems.
	Participate in planning meetings, providing current resource status, including limitations and capability of assisting agency resources.
	Coordinate response resource needs for Natural Resource Damage Assessment and Restoration (NRDAR) activities with the OSC during oil and HAZMAT responses.
	Coordinate response resource needs for incident investigation activities with the OSC.
	Ensure that all required agency forms, reports and documents are completed prior to demobilization.
	Brief Command on agency issues and concerns.
	Have debriefing session with the IC prior to departure.
	Coordinate activities of visiting dignitaries.



BP Incident Management Team Duties and Responsibilities Checklist	
PUBLIC INFORMATION OFFICER	
<i>Responsible for developing and releasing information about the incident and managing personnel issues due to accidents/injuries</i>	
*	Response Actions
	Review general ICS procedures and common responsibilities.
	Determine from the IC if there are any limits on information release.
	Develop material for use in media briefings.
	Obtain IC approval of media releases.
	Inform media and conduct media briefings.
	Arrange for tours and other interviews or briefings that may be required.
	Manage a Joint Information Center (JIC) if established.
	Obtain media information that may be useful to incident planning.
	Maintain current information summaries and/or displays on the incident and provide information on the status of the incident to assigned personnel.

BP Incident Management Team Duties and Responsibilities Checklist	
LEGAL OFFICER	
<i>The Legal Officer will act in an advisory capacity during an oil spill response</i>	
*	Response Actions
	Review Common Responsibilities.
	Obtain briefing from the Incident Commander.
	Advise the Incident Commander (IC) and the Unified Command (UC), as appropriate, on all legal issues associated with response operations.
	Establish documentation guidelines for & provide advise regarding response activity documentation to the response team.
	Provide legal input to the Documentation Unit, the Compensation/Claims Unit, and other appropriate Units as requested.
	Review press releases, documentation, contracts & other matters that have legal implications for the Comp.
	Participate in Incident Command System (ICS) meetings and other meetings, as requested.
	Participate in incident investigations and the assessment of damages (including natural resource damage assessments).
	Maintain Individual/Activity Log (ICS Form 214a).



**BP Incident Management Team
Duties and Responsibilities Checklist**

HUMAN RESOURCES SPECIALIST

The Human Resources specialist is responsible for providing direct human resources services to the response organization, including ensuring compliance with all labor-related laws and regulations

*	Response Actions
	Review general ICS procedures and common responsibilities.
	Provide a Point Of Contact (POC) for incident personnel to discuss human resource issues.
	Participate in daily briefings and planning meetings to provide appropriate human resource information.
	Post human resource information, as appropriate.
	Receive and address reports of inappropriate behavior, acts, or conditions through appropriate lines of authority.
	Maintain Unit Log (ICS 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

SOURCE CONTROL BRANCH

Source Branch Group is responsible for coordinating and directing all salvage/source control activities related to the incident

*	Response Actions
	Review Common Responsibilities.
	Review Division/Group Supervisor Responsibilities.
	Coordinate the development of Salvage/Source Control Plan.
	Determine Salvage/Source Control resource needs.
	Direct and coordinate implementation of the Salvage/Source Control Plan.
	Manage dedicated salvage/Source Control resources.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

OPERATIONS SECTION CHIEF

Responsible for management of all operations directly applicable to the response effort

✱	Response Actions
	Review Common Responsibilities.
	Obtain briefing from IC.
	Request sufficient Section supervisory staffing for both ops & planning activities.
	Convert operational incident objectives into strategic and tactical options through a work analysis matrix.
	Coordinate and consult with the PSC, SOFR technical specialists, modeling scenarios, trajectories, etc., on selection of appropriate strategies and tactics to accomplish objectives.
	Identify kind and number of resources required to support selected strategies.
	Subdivide work areas into manageable units.
	Develop work assignments and allocate tactical resources based on strategy requirements.
	Coordinate planned activities with the SOFR to ensure compliance with safety practices.
	Prepare ICS 234 Work Analysis Matrix with PSC to ensure Strategies & Tactics and tasks are in line with ICS 202 Response Objectives to develop ICS 215.
	Participate in the planning process and the development of the tactical portions (ICS 204 and ICS 220) of the IAP.
	Assist with development of long-range strategic, contingency, and demobilization plans.
	Supervise Operations Section personnel.
	Monitor need for and request additional resources to support operations as necessary.
	Coordinate with the LOFR and AREPs to ensure compliance with approved safety practices.
	Evaluate and monitor current situation for use in next operational period planning.
	Interact and coordinate with Command on achievements, issues, problems, significant changes special activities, events, and occurrences.
	Troubleshoot operational problems with other IMT members.
	Supervise and adjust operations organization and tactics as necessary.
	Participate in operational briefings to IMT members as well as briefings to media, and visiting dignitaries.
	Develop recommended list of Section resources to be demobilized and initiate recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Establish Command Network and communications protocol.
	Review and ensure the appropriateness of strategy and tactics being employed by On-scene Commander; provide necessary strategic direction.
	Provide Planning Section Chief or Situation Unit up-to-date information on nature and status of tactical response operations.
	Assist Planning Section Chief or Plan Development Unit preparing Incident Action Plan in Preparation of General Plan.
	Assist Planning Section Chief or Plan Development Unit preparing General Plan in preparation of General Plan.
	Ensure that Operations Section Personnel are aware of & follow BP safety policies, appropriate government agency directives, & Site Safety Plan.
	Ensure that concerns of government agencies & impacted citizens are adequately considered in formulation & execution of response strategies.
	Receive information from Planning Section Chief on location & movement of spilled or emitted materials.



*	Response Actions (Cont'd)
	Work with Environmental Unit Leader Officers to develop an overall Shoreline Protection/Cleanup Strategy.
	Provide Information & Liaison Officers Updates on nature & status of tactical response operations.
	Ensure that appropriate documentation is compiled by On-scene Commander and forwarded to Planning Section Chief of Documentation Unit.



**BP Incident Management Team
Duties and Responsibilities Checklist**

RECOVERY AND PROTECTION BRANCH DIRECTOR

The Recovery and Protection Branch Director is responsible for overseeing and implementing the protection, containment and cleanup activities established in the IAP

*	Response Actions
	Review common responsibilities
	Receive briefing from OSC/DOSC.
	Identify Divisions, Groups, and resources assigned to the Branch.
	Obtain briefing from person you are relieving.
	Ensure that Division Supervisors (DIVS) have a copy of the IAP.
	Implement IAP for Branch.
	Develop with subordinates alternatives for Branch control operations.
	Review Division/Group Assignment Lists (ICS 204) for Divisions/Groups within the Branch. Modify lists based on effectiveness of current operations.
	Assign specific work tasks to DIVS.
	Supervise Branch operations.
	Resolve logistic problems reported by subordinates.
	Attend planning meetings at the request of the OSC/DOSC.
	Ensure through chain of command that Resources Unit is advised of changes in the status of resources assigned to the Branch.
	Report to OSC/DOSC when: the IAP is to be modified; additional resources are needed; surplus resources are available; or hazardous situations or significant events occur.
	Approve accident and medical reports (home agency forms) originating within the Branch.
	Consider demobilization well in advance.
	Debrief with OSC/DOSC and/or as directed at the end of each shift.



BP Incident Management Team Duties and Responsibilities Checklist	
STAGING AREA MANAGER	
<i>Responsible for managing all aspects of Staging Area(s) including safety and security</i>	
*	Response Actions
	Review Common Responsibilities.
	Proceed to Staging Area.
	Establish Staging Area layout.
	Obtain briefing from person you are relieving, if applicable.
	Determine any support needs for equipment, feeding, sanitation and security.
	Establish check-in function as appropriate.
	Ensure security of staged resources.
	Post areas for identification and traffic control.
	Request maintenance service for equipment at Staging Area as appropriate.
	Respond to request for resource assignments. (Note: This may be direct from the OSC/DOSC or via the Incident Communications Center.)
	Obtain and issue receipts for radio equipment and other supplies distributed and received at Staging Area.
	Determine required resource levels from the OSC/DOSC.
	Advise the OSC/DOSC when reserve levels reach minimums.
	Maintain and provide status to Resource Unit of all resources in Staging Area.
	Maintain Staging Area in orderly condition.
	Demobilize Staging Area in accordance with the Incident Demobilization Plan.
	Debrief with OSC/DOSC or as directed at the end of each shift.

BP Incident Management Team Duties and Responsibilities Checklist	
DISPOSAL GROUP	
<i>The Disposal Group Supervisor is responsible for coordinating the on-site activities of personnel engaged in collecting, storing, transporting, and disposing of waste materials</i>	
*	Response Actions
	Review Division/Group Supervisor Responsibilities.
	Implement the Disposal Portion of the IAP.
	Ensure compliance with all hazardous waste laws and regulations.
	Maintain accurate records of recovered material.
	Maintain Unit/Activity Log (ICS Form 214).



BP Incident Management Team Duties and Responsibilities Checklist	
WILDLIFE BRANCH DIRECTOR	
<i>Responsible for minimizing wildlife losses during spill response operations</i>	
*	Response Actions
	Review Branch Director Responsibilities.
	Develop the Wildlife Branch portion of the IAP.
	Supervise Wildlife Branch operations.
	Determine resource needs.
	Review the suggested list of resources to be released and initiate recommendation for release of resources.
	Assemble and disassemble teams/task forces assigned to the Wildlife Branch.
	Report information about special activities, events, and occurrences to the OPS.
	Assist the Volunteer Coordinator in determining training needs of wildlife recovery volunteers.
	Maintain Unit/Activity Log (ICS Form 214).

BP Incident Management Team Duties and Responsibilities Checklist	
PLANNING SECTION CHIEF	
<i>Responsible for collection, evaluation of information about development of incident</i>	
*	Response Actions
	Review Common Responsibilities.
	Collect, process, and display incident information.
	Assist OSC in the development of response strategies.
	Supervise preparation of the IAP.
	Facilitate planning meetings and briefings.
	Assign personnel already on-site to ICS organizational positions as appropriate.
	Establish information requirements and reporting schedules for Planning Section Units (e.g., Resources, Situation).
	Determine the need for any specialized resources in support of the incident.
	Establish special information collection activities as necessary (e.g., weather, environmental, toxics, etc.).
	Assemble information on alternative strategies.
	Provide periodic predictions on incident potential.
	Keep IMT apprised of any significant changes in incident status.
	Compile and display incident status information.
	Oversee preparation and implementation of the Incident Demobilization Plan.
	Incorporate plans (e.g., Traffic, Medical, Communications, and Site Safety) into the IAP.
	Develop other incident supporting plans (e.g., salvage, transition, security).
	Assist Operations with development of the ICS 234 Work Analysis Matrix.
	Maintain Unit Log (ICS 214).
	Advise Incident Commander on all environmental aspects of source control & response operations, & ensure compliance with environmental laws, regulations, &/or government directives.



*	Response Actions (Cont'd)
	Facilitate collection & retention of appropriate documentation.
	Ensure technical specialists are checked in & assigned to appropriate Units within IMT/TRT
	Environmentally sensitive areas, wildlife affected by incident, &/or status of protection efforts.
	Assist Information & Liaison Officers in responding to requests for information from media, government agencies, & other external parties.

BP Incident Management Team Duties and Responsibilities Checklist	
SITUATION UNIT LEADER	
<i>Responsible for collection and analysis of incident data to determine current status of unit activities (i.e., trajectory modeling, GIS information)</i>	
*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Begin collection and analysis of incident data as soon as possible.
	Prepare, post, or disseminate resource and situation status information as required, including special requests.
	Prepare periodic predictions or as requested by the PSC.
	Prepare the Incident Status Summary Form (ICS Form 209).
	Provide photographic services and maps if required.
	Conduct situation briefings at the Command and General Staff Meetings, Tactics Meeting, Planning Meeting and Operations Briefing.
	Conduct situation briefings at other meetings/ briefings as required.
	Develop and maintain master chart(s)/map(s) of the incident.
	Maintain chart/map of incident in the common area of the ICP for all responders to view.
	Maintain Unit Log (ICS 214).



BP Incident Management Team Duties and Responsibilities Checklist	
RESOURCE UNIT LEADER	
<i>Responsible for maintaining an accounting system indicating location and status of all resources</i>	
*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Establish the check-in function at incident locations.
	Prepare Organization Assignment List (ICS Form 203) and Organization Chart (ICS Form 207).
	Prepare appropriate parts of Division Assignment Lists (ICS Form 204).
	Maintain and post the current status and location of all resources.
	Maintain master roster of all resources checked in at the incident.
	Review Resource Unit Leader Job Aid.
	Maintain Unit/Activity Log (ICS Form 214).

BP Incident Management Team Duties and Responsibilities Checklist	
DOCUMENTATION UNIT LEADER	
<i>Responsible for providing incident documentation, reviewing records for accuracy and storing documentation files</i>	
*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Set up work area; begin organization of incident files.
	Establish duplication service; respond to requests.
	File all official forms and reports.
	Review records for accuracy and completeness; inform appropriate units of errors or omissions.
	Provide incident documentation as requested.
	Organize files for submitting final incident documentation package.
	Prepare ICS 231 Meeting Summary & ICS 233 Action Item Tracker.
	Maintain Unit/Activity Log (ICS Form 214).



BP Incident Management Team Duties and Responsibilities Checklist	
TECHNICAL SPECIALISTS	
<i>Responsible for coordinating activities with appropriate consultants and contractors (i.e., NRDA reps, Scientific Support Coordinator, etc.)</i>	
*	Response Actions
	Review Common Responsibilities.
	Provide technical expertise and advice to Command and General Staff as needed.
	Attend meetings and briefings to clarify and help to resolve technical issues.
	Provide expertise during the development of the IAP and other support plans.
	Work with the Safety Officer to mitigate unsafe practices.
	Work closely with Liaison Officer to help facilitate understanding among stakeholders and special interest groups.
	Be available to attend press briefings to clarify technical issues.
	Work with Operations Section to monitor compliance with planned actions.
	Research technical issues and provide findings to decision makers.
	Provide appropriate modeling and predictions as needed.
	Trouble shoot technical problems and provide advice on resolution.
	Review specialized plans and clarify meaning.
	Review THSP Job Aid.
	Maintain Unit Log (ICS 214).

BP Incident Management Team Duties and Responsibilities Checklist	
SOURCE CONTROL/SALVAGE DIRECTOR	
<i>Responsible for supervising at-the-scene source control operations.</i>	
*	Response Actions
	Travel to incident scene; check in at Tactical Command Post (TCP); report to On-scene Commander
	Assist On-scene Commander in sizing up situation, and/or in developing solution(s) (i.e., a strategy) to address source control/salvage-related problem(s)
	Receive assignments from On-scene Commander
	Supervise at-the-scene source control/salvage operations
	Ensure health & safety of all at-the-scene source control/salvage personnel
	Brief personnel assigned to carry out source control/salvage-related tasks; ensure that assigned personnel have information and equipment they need to carry out tasks safely and effectively
	Account for all assigned personnel and equipment
	Maintain proper span-of-control
	Keep On-scene Commander informed about nature and status of source control/salvage operations
	Ensure that appropriate actions are taken to stop, isolate, and/or control source of incident
	Assess damage to affected facilities and take appropriate action(s) to minimize additional damage
	If necessary, identify location(s) of Branch-specific staging area(s)
	Provide Staging Area Manager information on resource needs
	Compile and maintain appropriate documentation



**BP Incident Management Team
Duties and Responsibilities Checklist**

LOGISTICS SECTION CHIEF

Responsible for managing all incident logistics

*	Response Actions
	Review Common Responsibilities.
	Plan the organization of the Logistics Section.
	Assign work locations and preliminary work tasks to Section personnel.
	Notify the Resources Unit of the Logistics Section units activated including names and locations of assigned personnel.
	Assemble and brief Branch Directors and Unit Leaders.
	Determine and supply immediate incident resource and facility needs.
	In conjunction with Command, develop and advise all Sections of the IMT resource approval and requesting process.
	Review proposed tactics for upcoming operational period for ability to provide resources and logistical support.
	Identify long-term service and support requirements for planned and expected operations.
	Advise Command and other Section Chiefs on resource availability to support incident needs.
	Provide input to and review the Communications Plan, Medical Plan and Traffic Plan.
	Identify resource needs for incident contingencies.
	Coordinate and process requests for additional resources.
	Track resource effectiveness and make necessary adjustments.
	Advise on current service and support capabilities.
	Develop recommended list of Section resources to be demobilized and initiate recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Ensure the general welfare and safety of Logistics Section personnel.
	Maintain Unit Log (ICS 214).
	Work with Finance Section Chief to institute requisition procedure and provide the Finance Section Chief with copies of all Purchase Orders.
	Ensure that an overall inventory and inventory management system is maintained of all equipment system is maintained of all equipment, materials, and supplies purchased, rented, borrowed, or otherwise obtained during incident response operations.
	Ensure that records are maintained on equipment and services provided and contracts executed during incident response operations.
	Provide Planning Section Chief or Resource Unit with up-to-date information on destination and ETA of all equipment and personnel resources obtained for incident response operations.
	Assist Planning Section Chief or Plan Development Units in preparation of Incident Action Plans and General Plan.
	Provide Operations Section Chief with recommendations on timing of release of logistics services and support personnel and equipment.



**BP Incident Management Team
Duties and Responsibilities Checklist**

SERVICE BRANCH DIRECTOR

The Service Branch Director, when activated, is under the supervision of the LSC, and is responsible for the management of all service activities at the incident

*	Response Actions
	Review Common Responsibilities.
	Obtain working materials.
	Determine the level of service required to support operations.
	Confirm dispatch of branch personnel.
	Participate in planning meetings of Logistics Section personnel.
	Review the IAP.
	Organize and prepare assignments for Service Branch personnel.
	Coordinate activities of Branch Units.
	Inform the LSC of branch activities.
	Resolve Service Branch problems.
	Maintain Unit/Activity Log (ICS Form 214).

**BP Incident Management Team
Duties and Responsibilities Checklist**

SUPPORT BRANCH DIRECTOR

Responsible for development of logistic plans in support of IAP for supply, facilities and transportation

*	Response Actions
	Review Common Responsibilities.
	Obtain work materials.
	Identify Support Branch personnel dispatched to the incident.
	Determine initial support operations in coordination with the LSC and Service Branch Director.
	Prepare initial organization and assignments for support operations.
	Assemble and brief Support Branch personnel.
	Determine if assigned branch resources are sufficient.
	Maintain surveillance of assigned units work progress and inform the LSC of their activities.
	Resolve problems associated with requests from the Operations Section.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COMMUNICATIONS UNIT LEADER

*Responsible for distribution, installation, maintenance, technical advice and overall
Communication Plan for incident response operation*

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Determine Unit personnel needs.
	Prepare and implement the Incident Radio Communications Plan (ICS Form 205).
	Ensure the Incident Communications Center and the Message Center is established.
	Establish appropriate communications distribution/maintenance locations within the Base.
	Ensure communications systems are installed and tested.
	Ensure an equipment accountability system is established.
	Ensure personal portable radio equipment from cache is distributed per Incident Radio Communications Plan.
	Provide technical information as required on: - Adequacy of communications systems currently in operation. - Geographic limitation on communications systems. - Equipment capabilities/limitations. - Amount and types of equipment available. - Anticipated problems in the use of communications equipment.
	Supervise Communications Unit activities.
	Maintain records on all communications equipment as appropriate.
	Ensure equipment is tested and repaired.
	Recover equipment from units being demobilized.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

FINANCE SECTION CHIEF

Responsible for managing and supervising financial aspects of emergency response operations

✱	Response Actions
	Review Common Responsibilities.
	Participate in incident planning meetings and briefings as required.
	Review operational plans and provide alternatives where financially appropriate.
	Manage all financial aspects of an incident.
	Provide financial and cost analysis information as requested.
	Gather pertinent information from briefings with responsible agencies.
	Develop an operating plan for the Finance/Admin Section; fill supply and support needs.
	Determine the need to set up and operate an incident commissary.
	Meet with Assisting and Cooperating Agency Representatives, as needed.
	Maintain daily contact with agency(s) administrative headquarters on Finance/Admin matters.
	Ensure that all personnel time records are accurately completed and transmitted to home agencies, according to policy.
	Provide financial input to demobilization planning.
	Ensure that all obligation documents initiated at the incident are properly prepared and completed.
	Brief agency administrative personnel on all incident-related financial issues needing attention or follow-up prior to leaving incident.
	Develop recommended list of Section resources to be demobilized and initial recommendation for release when appropriate.
	Receive and implement applicable portions of the incident Demobilization Plan.
	Maintain Unit Log (ICS 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

PROCUREMENT UNIT LEADER

Responsible for managing all financial matters pertaining to vendors, contracts, leases and fiscal agreements

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Review incident needs and any special procedures with Unit Leaders, as needed.
	Coordinate with local jurisdiction on plans and supply sources.
	Obtain the Incident Procurement Plan.
	Prepare and authorize contracts and land-use agreements.
	Draft memoranda of understanding as necessary.
	Establish contracts and agreements with supply vendors.
	Provide for coordination between the Ordering Manager and all other procurement organizations supporting the incident.
	Ensure that a system is in place that meets agency property management requirements. Ensure proper accounting for all new property.
	Interpret contracts and agreements; resolve disputes within delegated authority.
	Coordinate with the Compensation/Claims Unit for processing claims.
	Complete final processing of contracts and send documents for payment.
	Coordinate cost data in contracts with the Cost Unit Leader.
	Brief the Finance Section Chief on current problems and recommendations, outstanding issues, and follow-up requirements.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COMPENSATION / CLAIMS UNIT LEADER

The Compensation/Claims Unit Leader is responsible for the overall management and direction of all administrative matters pertaining to compensation for injury and claims related activities (other than injury) for an incident

*	Response Actions
	Review Common Responsibilities.
	Review Unit Leader Responsibilities.
	Obtain a briefing from the Finance Section Chief.
	Establish contact with the incident MEDL, SOFR and NLO (or Agency Representatives if no NLO is assigned).
	Determine the need for Compensation for Injury and Claims Specialists and order personnel as needed.
	Establish a Compensation for Injury work area within or as close as possible to the Medical Unit.
	Review Incident Medical Plan. (ICS Form 206).
	Ensure that Compensation/Claims Specialists have adequate workspace and supplies.
	Review and coordinate procedures for handling claims with the Procurement Unit.
	Brief the Compensation/Claims Specialists on incident activity.
	Periodically review logs and forms produced by the Compensation/Claims Specialists to ensure that they are complete, entries are timely and accurate and that they are in compliance with agency requirements and policies.
	Ensure that all Compensation for Injury and Claims logs and forms are complete and routed to the appropriate agency for post-incident processing prior to demobilization.
	Keep the Finance Section Chief briefed on Unit status and activity.
	Demobilize unit in accordance with the Incident Demobilization Plan.
	Maintain Unit/Activity Log (ICS Form 214).



**BP Incident Management Team
Duties and Responsibilities Checklist**

COST UNIT LEADER

Responsible for providing incident cost analysis

*	Response Actions
	Review Unit Leader Responsibilities.
	Obtain a briefing from the Finance Section Chief.
	Coordinate with agency headquarters on cost reporting procedures.
	Collect and record all cost data.
	Develop incident cost summaries.
	Prepare resources-use cost estimates for the Planning Section.
	Make cost-saving recommendations to the Finance Section Chief.
	Ensure all cost documents are accurately prepared.
	Maintain cumulative incident cost records.
	Complete all records prior to demobilization.
	Provide reports to the Finance Section Chief.
	Maintain Unit/Activity Log (ICS Form 214).

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 Document Administrator: Kristy McNease,
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5. INCIDENT COMMAND POST AND COMMUNICATIONS

A. Spill Response Operations Center

The Spill Response Operations Center, also known as the Incident Command Post (ICP), will be maintained by BP's IMT during a spill event. The ICP is the facility from which the IMT will provide support and coordination to emergency activities. The ICP is located at:

BP
Houston Crisis Center
200 Westlake Park Blvd., Room 351
Houston, TX 77079

Refer to **Figure 5-1** for the ICP location map. An alternate location for the ICP is located at

BP
Houma Operations Learning Center
1597 Highway 311
Schriever, LA 70395-3237

Refer to **Figure 5-2** for a map of the alternate ICP location.

The ICP is equipped with appropriate work space, status boards, clocks, maps, communications equipment, and additional equipment for efficient operations.

Upon activation of the Incident Command Post or alternate location, the IC/QI will assume control and coordination of responsibilities. The ICP communication systems will be activated and manned by trained personnel under the direction of the IC/QI.

Driving Directions to BP

From Hobby Airport, TX

Start out going east on Airport Blvd. toward Glencrest St. Make a u-turn at Glencrest St. onto Airport Blvd., Turn right onto Broadway St., Turn slight left onto Gulf Fwy., Merge onto I-45 N / US-75 N via the ramp on the left., Merge onto I-10 W / US-90 W via exit 48B on the left toward San Antonio., Take the 753A exit- exit 753A., Stay straight to go onto Katy Fwy., Turn left onto TX-6 S / FM 1960 S., Turn left onto I-10 / Katy Fwy. Continue to follow Katy Fwy.



From George Bush Intercontinental Airport, TX

Start out going west on Terminal Rd. N., Turn left toward Airport Exit / Parking, Turn left onto Terminal Rd. S., Turn slight right onto JFK Blvd./ John F Kennedy Blvd., Take the Beltway 8 west ramp toward I-45, Turn slight right onto N. Sam Houston Pkwy W. via the ramp on the left toward I-45. Beltway 8 w / Sam Houston Pkwy W becomes Sam Houston Toll way W, Merge onto I-10 W / US-90 W toward San Antonio, Take the 753A exit – 753A, Stay straight to go onto Katy Fwy, Turn left onto TX-6 S / FM 1960, Turn left onto I-10 / Katy Fwy. Continue to follow Katy Fwy.

Driving Directions to BP Houma Operations Learning Center

From New Orleans International Airport (MSY)

Start out going southwest toward S. Access Road / Turn right onto West Airline Hwy/US-61 / Merge onto I-310 South toward Boutte / Merge onto US-90 West toward Houma / Merge onto LA-311 South via exit 200 toward Houma / Travel 1.8 miles to reach destination.

B. COMMUNICATIONS

Land telephone lines and cellular phones will be used as the primary and secondary communication systems to direct and coordinate oil spill response. Cellular phones and portable radios will be used for communication by field operations personnel. (See **Figures 5-2 – 5-5** for frequency assignments).

The following communications systems list, includes possible systems that may be used to help direct and coordinate response operations.

- Cellular Phones / Portable Telephone (i.e. Nextel 2 Way)
- Hardline Telephone System
- VHF/UHF Radios
- Commercial Telephone System
- Motorola UHF Portable Radios with Chargers & Accessories
- Motorola VHF Portable Radios with Chargers & Accessories
- Portable Communications Trailer/Command Post

Radio communications systems provided by National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) may be used in the event of a large incident.

Other Communications Resources

The companies listed in **Appendix F** under the Communication section are available for support in obtaining additional repeaters, radios, batteries, and other miscellaneous communications equipment. They can also provide information on tower availability, trunk system availability, and have technicians available that are familiar with their local areas.

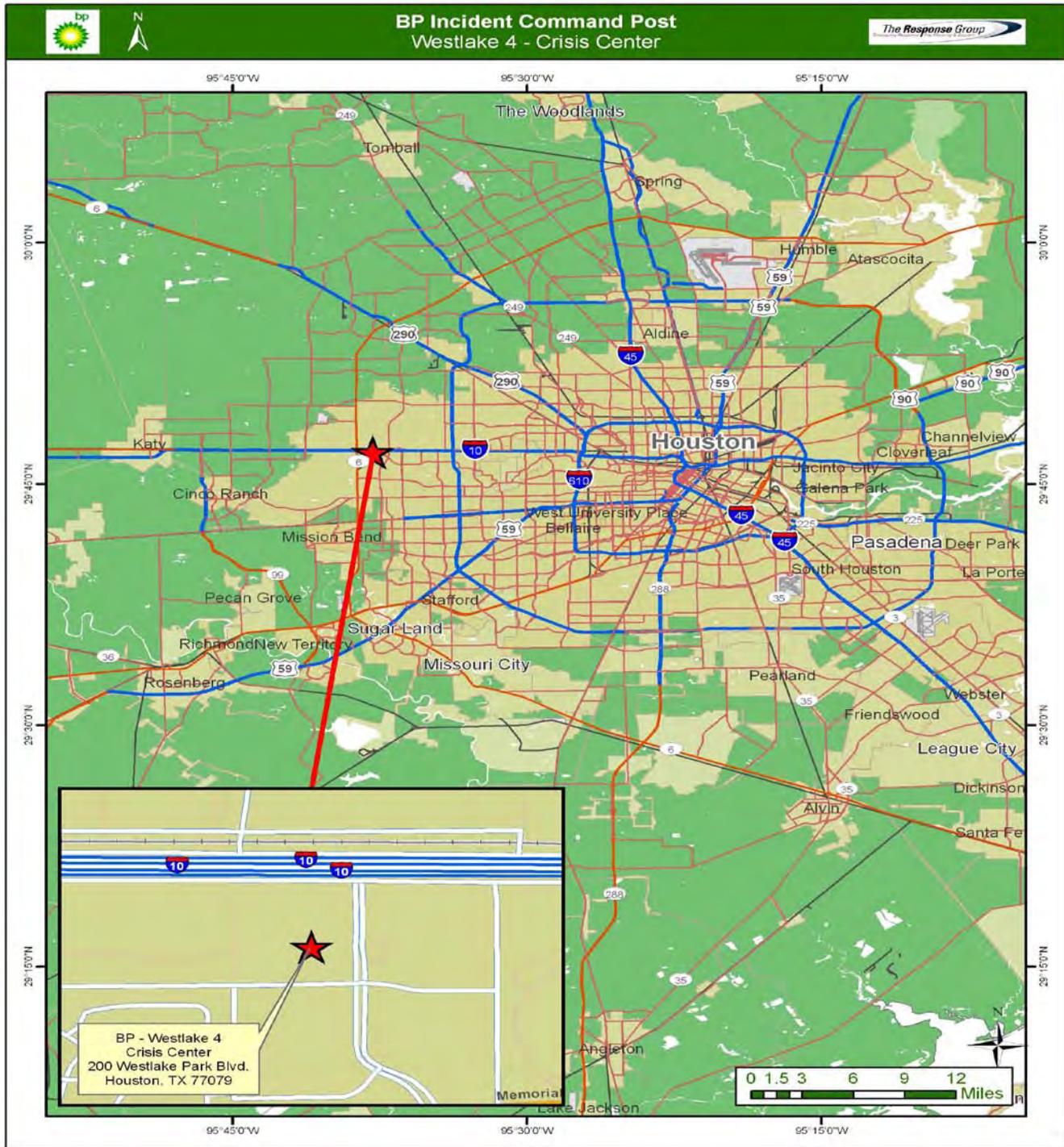


BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 5
Incident Command
Post and
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BP Incident Command Post Location Map

Figure 5-1



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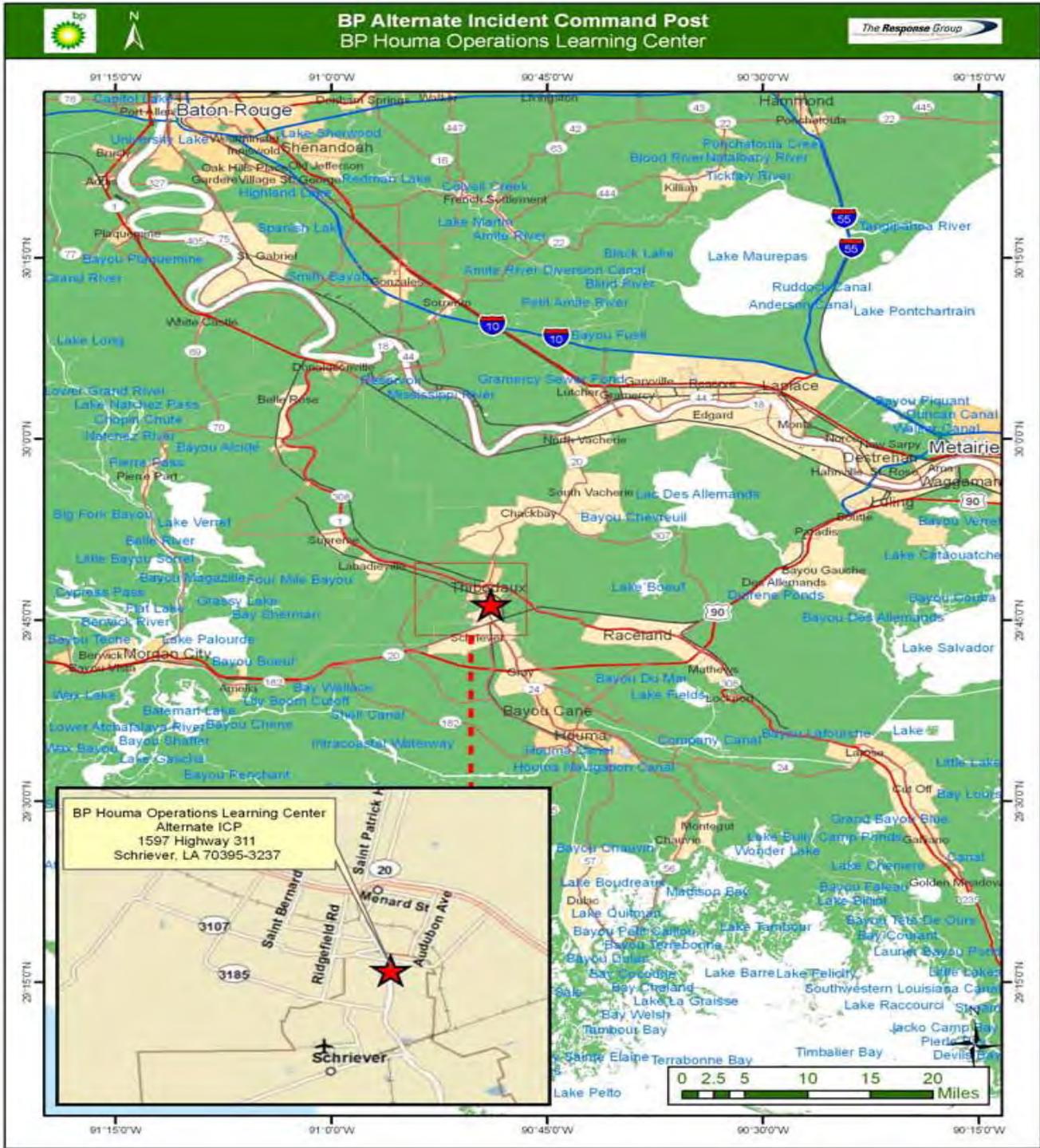


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Section 5
Incident Command
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BP Alternate Incident Command Post Location Map

Figure 5-2



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GOM – Handheld Frequency Assignment For Spill Response

Figure 5-3

Channel	Frequency	Use	Remarks
6	156.3	Ship-to-Ship Safety	Use for Ship-to-Ship Safety and Search and Rescue
11	156.55	Vessel Traffic Service (VTS)	Use to communicate with VTS from Houston Turning Basin to Exxon Baytown
12	156.6	Vessel Traffic Service (VTS)	Use to communicate with VTS from Exxon Baytown to sea buoy including Texas City ship channel, Galveston ship channel and intracoastal waterway
13	156.65	Bridge to Bridge	Message must be about ship navigation
16	156.8	International Distress, Safety, and Calling	Only for hailing and distress
21A	157.5	U.S. Coast Guard Only	
22A	157.1	U.S. Liaison & Maritime	Use this Channel to talk to Coast Guard
23A	157.05	U.S. Coast Guard Only	
81A	157.075	Sector Houston-Galveston MSU Galveston	Use this Channel to talk to Unified Command at MSO Houston-Galveston
83A	157.175	Sector Houston-Galveston MSU Galveston	Use this Channel to talk to Unified Command at MSU Galveston

TGLO – Central Texas Coastal Geographic Response Plan



BP
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USCG Monitored Frequencies

Figure 5-4

Channel	Band	Receive	Transmit	** TPL	Application	Description
1	VHF	150.980	150.980	103.5	Operations Talk Around	
2	VHF	150.980	154.585	103.5	Operations Network (Repeated)	Ops to Field Ops
3	VHF	159.480	159.480	103.5	Command Talk Around	
4	VHF	159.480	158.445	103.5	Command Network (Repeated)	ICP/Staff/Ops
5	VHF	Open	Open		Shoreline Cleanup - Div I	Apply to FCC for Temporary
6	VHF	Open	Open		Shoreline Cleanup - Div II	Frequency Authorization
7	VHF	Open	Open		Company Specific Business Freq's	
8	VHF	Open	Open		Company Specific Business Freq's	
9	VHF	156.450	156.450		Marine 9	John Boats
10	VHF	156.500	156.500		Marine 10	Near Shore
11	VHF	156.900	156.900		Marine 18A—On Water Div I	Commercial
12	VHF	156.950	156.950		Marine 19A—On Water Div II	Commercial
13	VHF	156.975	156.975		Marine 79A—On Water Div III	Commercial
14	VHF	157.025	157.025		Marine 80A—On Water Div IV	Commercial
15	VHF	156.925	156.925		Marine 78A	Intership/Command Vessel
16	VHF	156.800	156.800		Marine 16A	Distress, Safety & Calling
* 1	UHF	454.000	459.000	103.5	Logistics Net / Command	
* 2	UHF	454.000	454.000	103.5	Logistics / Tactical	
	Aviation	122.85	122.85		Air to OSRV / Command	

* On Dual Band VHF/UHF Radios, Recommend Channels 1 - 16 VHF, 17 & 18 UHF.

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TGLO – Handheld Radio Frequency Assignments Figure 5-5

Channel	Band	Receive	Transmit	TPL	Name
1	UHF	454	459	103.5	Log-net
2	UHF	459	459	103.5	Log T/A
3	VHF	158.445	158.445	103.5	OSV-1
4	VHF	159.48	159.48	103.5	OSV-1T
5	VHF	150.98	154.585	103.5	OSV-2
6	VHF	150.98	150.98	103.5	OSV-2T
7	VHF	156.3	156.3		Marine-6
8	VHF	156.9	156.9		Marine-16
9	VHF	157.05	157.05		Marine 21A
10	VHF	157.1	157.1		Marine 22A
11	VHF	157.15	157.15		Marine 23A
12	VHF	157.075	157.075		Marine 81A
13	VHF	157.175	157.175		Marine 83A
14	VHF	466.0625	466.0625	103.5	GLO 1
15	VHF	466.0875	466.0875	103.5	GLO 2
16	VHF				Weather 1
17	VHF				Weather 1
18	VHF				Weather 1
19	VHF				Weather 1

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USCG VHF-FM High Sites

Figure 5-6

High Site	Latitude	Longitude	Control	Height FT
(A) Cameron	29-47.34N	93-18.00W	GRU Galveston	N/A
(B) Freeport	28-58.40N	95-18.42W	GRU Galveston	480
(C) Galveston	29-20.00N	94-47.00W	VTS Hou-Galv	125
(D) Houston	29-44.00N	95-16.00W	VTS Hou-Galv	200
(E) Lake Charles	30-14.00N	93-04.45W	MSU Port Arthur	500
(F) Morgan's Point	29-41.00N	94-59.00W	GRU Galveston	170
(G) Pelican Island	29-40.31N	92-30.12W	VTS Hou-Galv	520
(H) Port Bolivar	29-23.45N	95-44.10W	MSU Galveston	540
(I) Port Neches	29-58.45N	93-55.50W	MSU Port Arthur	500
(J) Oyster Creek	29-02.37N	95-20.11W	MSU Galveston	500
(K) Sabine	29-42.49N	93-51.45W	GRU Galveston	415
(L) Port O' Connor	28-25.43N	96-28.05W	Sector Corpus Christi	N/A
(M) Robstown	27-39.12N	97-33.55W	Sector Corpus Christi	N/A
(N) Port Mansfield	26-33.12N	97-26.38W	Sector Corpus Christi	N/A

TGLO – Central Texas Coastal Geographic Response Plan



6. SPILL DETECTION & SOURCE IDENTIFICATION & CONTROL

A. Spill Detection

BP has a number of safety systems and practices in place to minimize the occurrence and subsequent impact of accidental releases. The systems are designed to alert operators with alarms in the event of a release. Platform operators are trained to respond to the various system alarms in order to identify and control releases immediately. Their routine responsibilities that ensure oil spills will be detected and mitigated as soon as possible by platform operation personnel may include, but are not limited to the following:

•	Daily visual monitoring of all discharge points to ensure no presence of oil on the water.
•	Routine walk-through and monitoring of equipment and vessel pressures, temperatures, levels, etc. to ensure proper operation of all equipment at each facility.
•	Immediate response to alarms and signals that may indicate a possible release of oil.
•	Identify and shut off the source as soon as possible, taking safety into account.
•	Notify the BP Person in Charge as soon as possible to mitigate spill event.



B. Pipeline Spill Detection and Location

All pipelines operated by BP are equipped with high and low pressure sensors. In the event of a change in pipeline pressure beyond a specified set point, the pressure sensors will trigger an alarm to the facility operator and/or shut down the pipeline. BP operators will perform the following procedures when alerted to a potential pipeline emergency:

•	Ensure that the pipeline pressure sensing equipment is not malfunctioning and note operating pressure.
•	Visually observe the water in the direction of the pipeline ROW for an oil release. In the event oil is observed on the water, initiate emergency notification procedures as outlined in the BP Oil Spill Response Plan.
•	In the event oil is not observed in the vicinity of the pipeline ROW, the operator will contact the sending and/or receiving facilities to determine the source of the abnormal pressure. In the absence of pressure problems at the sending and receiving facilities, the operator will assume a loss of pipeline containment and notify his/her immediate supervisor.
•	The supervisor will request an in-field inspection of the pipeline ROW in question via boat or helicopter to find the source of the suspected leak. In the absence of BP boats or helicopters, assistance may be requested from other area operators.
•	In the event oil is discovered on the water, the BP Oil Spill Response Plan will be activated.
•	In the event a leak is not found, an investigation into the cause of the pressure change will continue until determined.



C. Source Control

BP operators have been trained to respond to spill events according to severity at each. Source control will be maintained with the following systems and procedures:

•	BP facilities are equipped with Emergency Support Systems (ESS) as required by 30 C FR 250 and A PI RP 14C (i.e., sumps, gas/fire detection, subsurface safety control valves, emergency shutdowns, etc.). The systems operate by alarming facility operator(s) and automatically shutting down individual processes or the entire platform.
•	In the event the incident scenario does not allow automatic control, the operator has the flexibility to control a release by manually engaging ESS devices or closing valves, etc. provided that the personnel are not exposed to the released substances.
•	In the event the spill source cannot be controlled by the facility operator or remotely with a safety system, BP will activate the Oil Spill Response Plan and assemble a team of technical experts to respond to the situation. The team will be comprised of personnel familiar with the facility including production superintendents, foremen, facility engineers, and production and/or drilling engineers. The Deputy Incident Commander or Operations Section Chief will be responsible for monitoring information produced by the team, as well as their progress, and reporting the results to the Incident Commander.



7. QI, IMT, SROT AND OSRO NOTIFICATIONS

A. Reporting Procedures

Field Personnel

BP employees, contractors, and subcontractors are responsible for maintaining a vigilant watch for oil spill discharges of any magnitude from BP facilities and operations. Any person who observes or becomes aware of an oil spill shall immediately report the incident to the person in charge of the facility. The person in charge must then immediately notify the Qualified Individual/Incident Commander. Information related to the reported incident should be captured on the appropriate spill reporting form.

Qualified Individual/Incident Commander

The Qualified Individual/Incident Commander is responsible for activation of the IMT Command Staff and Section Chiefs. The Section Chiefs will then activate their support personnel based on the severity of the incident. Once activated, the QI/IC or a designee will complete the regulatory notifications, including the National Response Center for spills of known and unknown sources.

B. Company Contact Information

The BP Incident Management Team (IMT) may be activated as a group or individually, depending upon the size, location, nature, and complexity of the incident. Refer to **Figure 7-6a** for a telephone listing of Incident Management Team personnel including, but not limited to, the following:

- 1) QI/IC and alternates
- 2) IMT Members and alternates

C. SROT / TRT Contact Information

The Spill Response Operating Team (SROT) / Tactical Response Team (TRT) consists of a number of independent Oil Spill Removal Organizations (OSROs) that are located across the Gulf Coast. SROT members are capable of providing trained personnel, services, and response equipment on a 24 hour per day basis. IMT personnel are commonly segregated into the following categories:



Supervisors
Personnel capable of directing and reporting the activities of a group of personnel (Technical/Operators and/or Support/General Laborers) assigned to complete a particular work assignment.
Technical/Operator
Personnel trained to assemble, deploy, and/or operate response equipment.
Support/General Laborer
Personnel used to carry out tasks that do not require operation of complex equipment or supervising other personnel.

Refer to **Figure 7-7** for a complete listing of participating SROT organizations.

D. OSRO Contact Information

Primary Equipment Providers

**National Response Corporation
Marine Spill Response Corporation**

Company	Toll Free – Emergency	Toll Free – Non Emergency	Main	Internet
Airborne Support, Inc.			(985) 851-6391	http://www.airbornesupport.com
National Response Corporation (NRC)	(880) 899-4672	(631) 224-9141	(631) 224-9082	http://www.nrcc.com/index.html
Marine Spill Response Corporation (MSRC)		(703) 326-5660	(703) 326-5600	http://www.msrc.org/

See **Appendix E**, Response Equipment for a listing of equipment available through the primary equipment providers. Additional equipment, services, supplies, and personnel can be found in **Appendix F**, Support Services.

E. Internal Spill Reporting Forms

Personnel should complete spill reporting forms as required by the Oil Spill Response Plan and/or company policy. Copies of reporting forms can be found in **Appendix G**, Notifications and Reporting Forms.

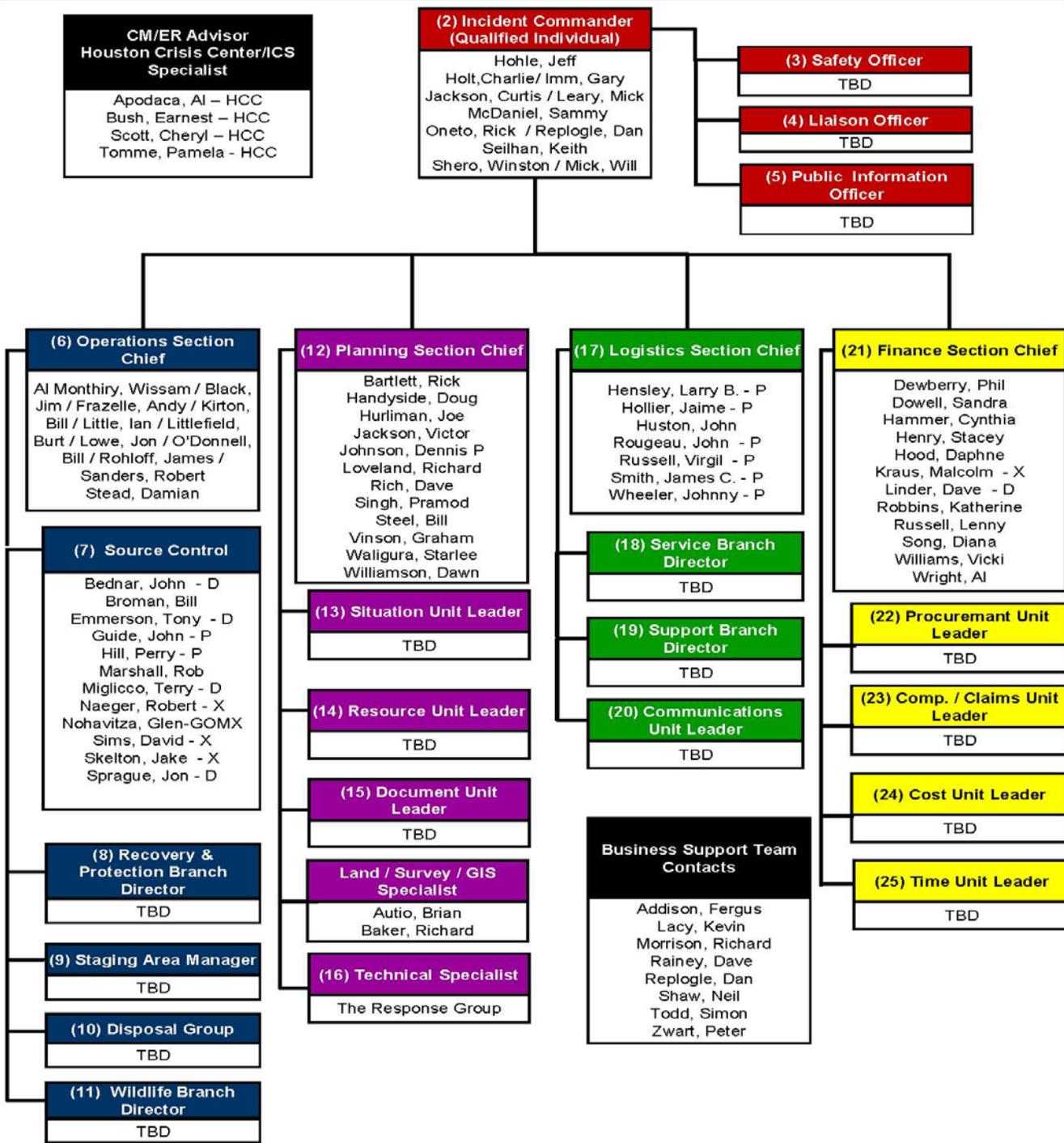


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Section 7
QI, SMT, SROT
AND OSRO
Notifications

BP IMT Organization Chart

Figure 7-1



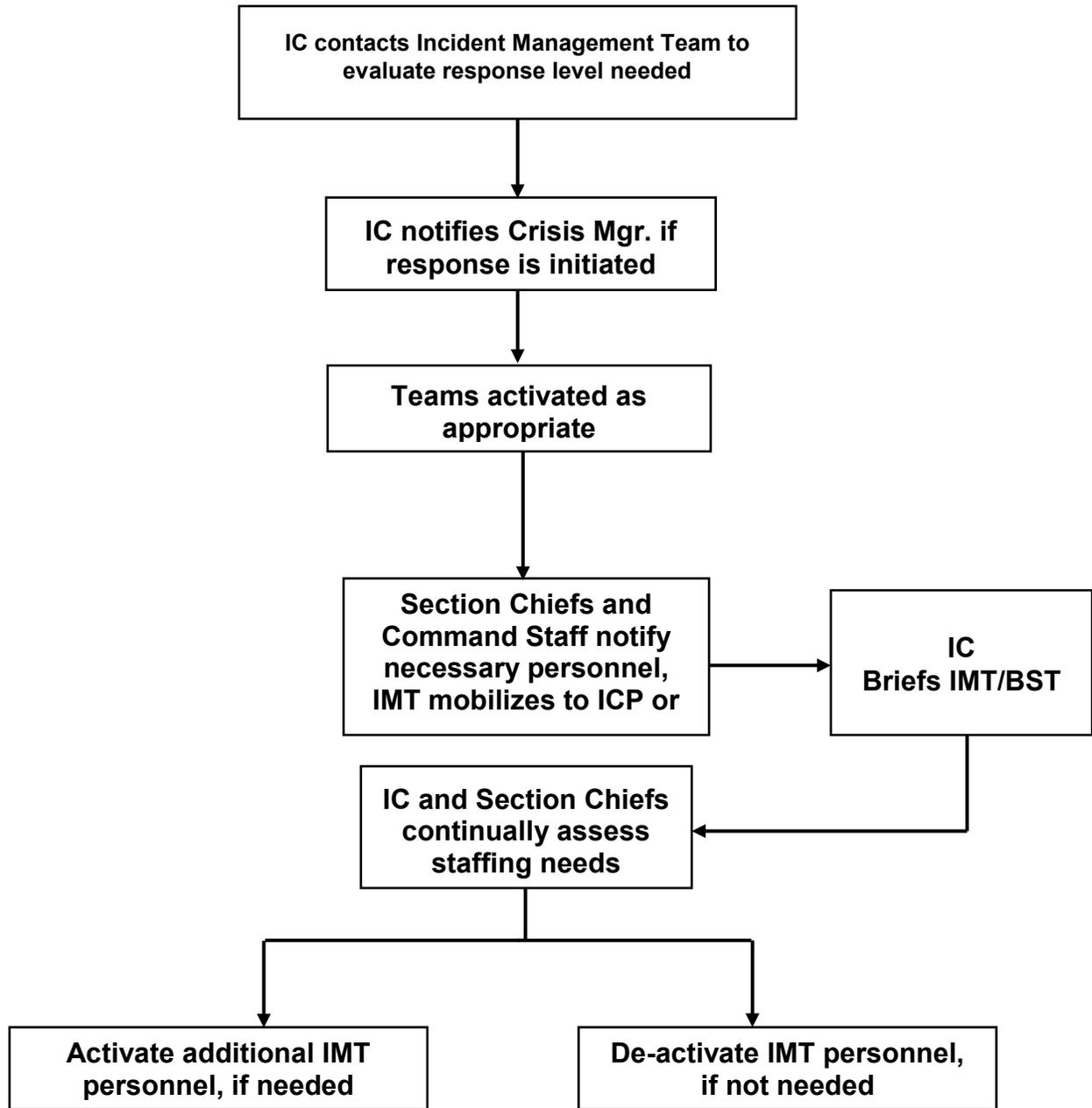
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Incident Management Team Activation Procedure

Figure 7-2



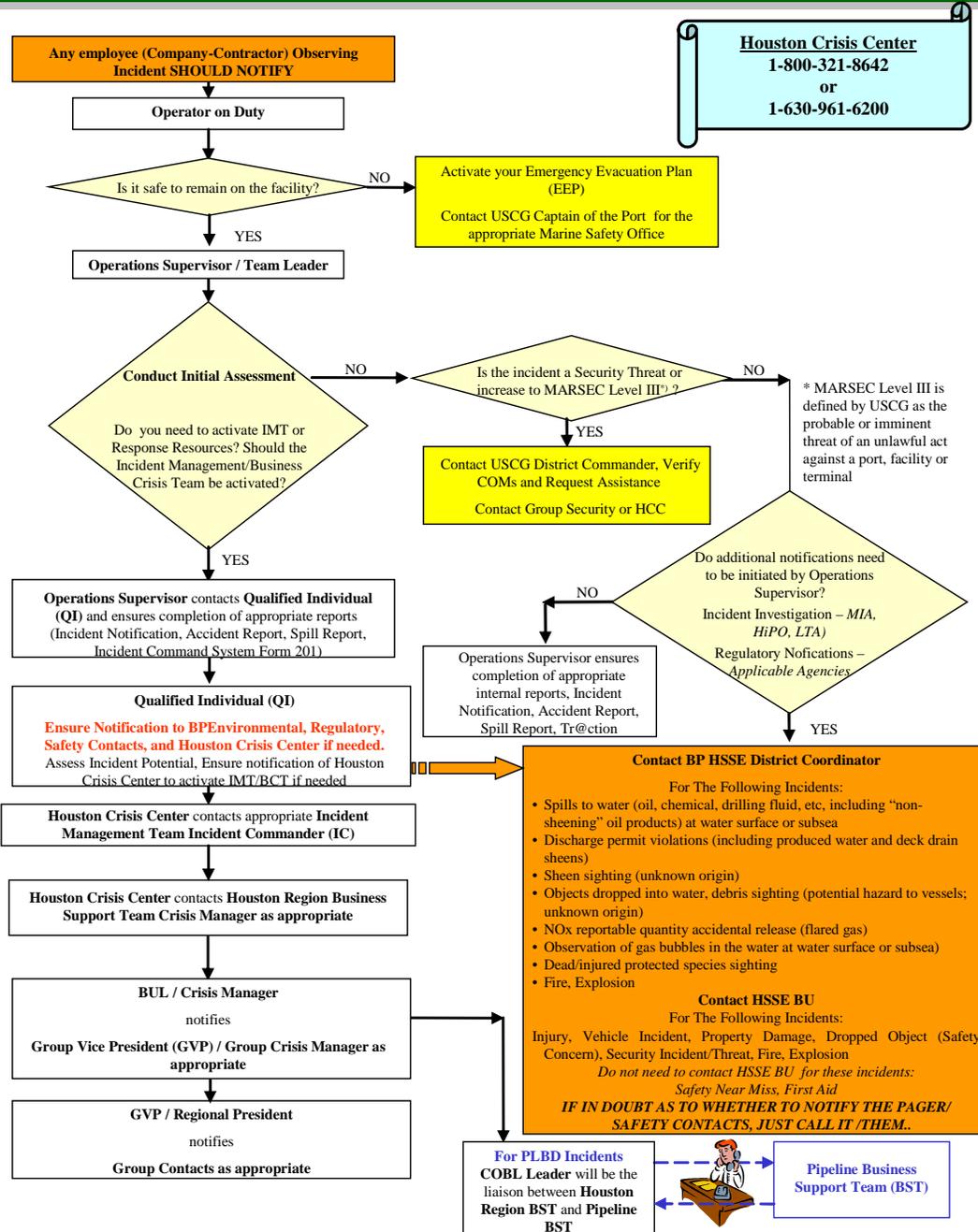


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GoM PLBD – Incident Notification Flow Chart

Figure 7-3



• GoM PLBD pipelines supported by Houston Crisis Center: Destin, MPOG, and Mardi Gras

*** Concerns not adequately addressed? Call anonymous (confidential) Hotline 1.800.225.6141**

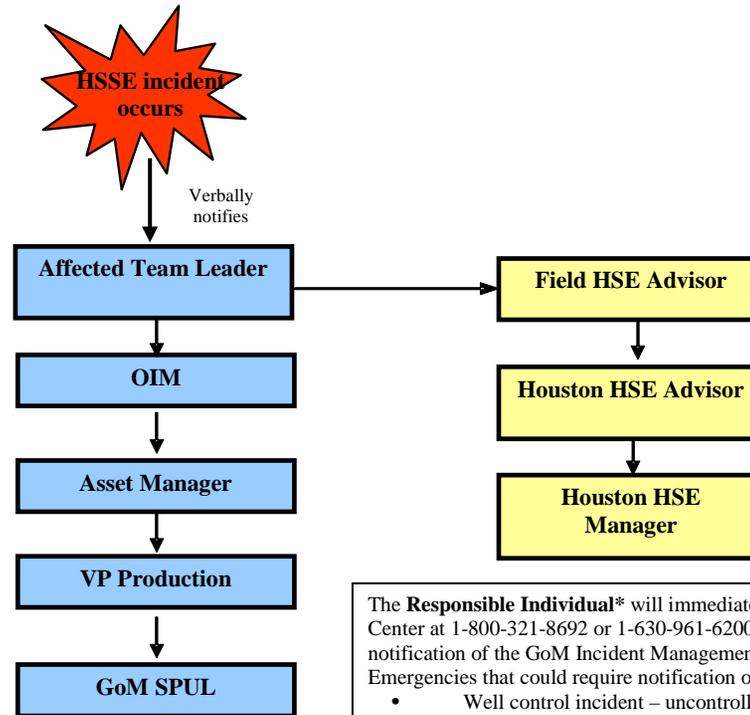
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Figure 7.4a Production Assets (Non-D&C Related) Incident Notification



Note: See GoM Incident Notification, Reporting, and Investigation Procedure for instructions on verbal notification timeframes, investigation team make-up, documentation, report distribution and regulatory reporting requirements.

The **Responsible Individual*** will immediately contact the BP Notification Center at 1-800-321-8692 or 1-630-961-6200 to report an emergency requiring notification of the GoM Incident Management Team.
 Emergencies that could require notification of the IMT include:

- Well control incident – uncontrolled blow out
- Stability issue of facility
- Emergency requiring any evacuation of facility
- Or any other issues where the **Responsible Individual*** needs assistance

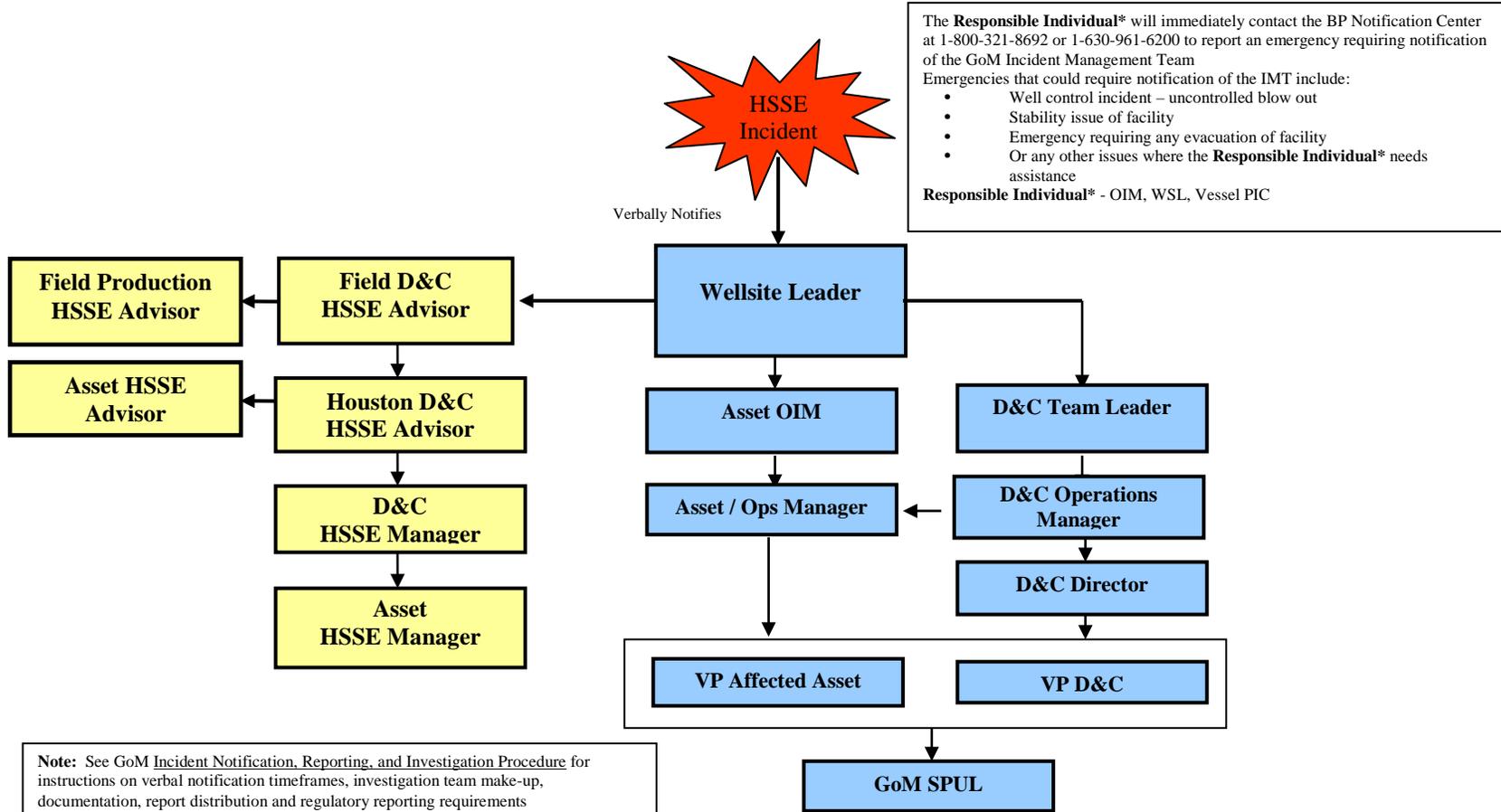
Responsible Individual* - OIM, WSL, Vessel PIC



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Figure 7.4b BP Owned Facilities- D&C Incident Notification



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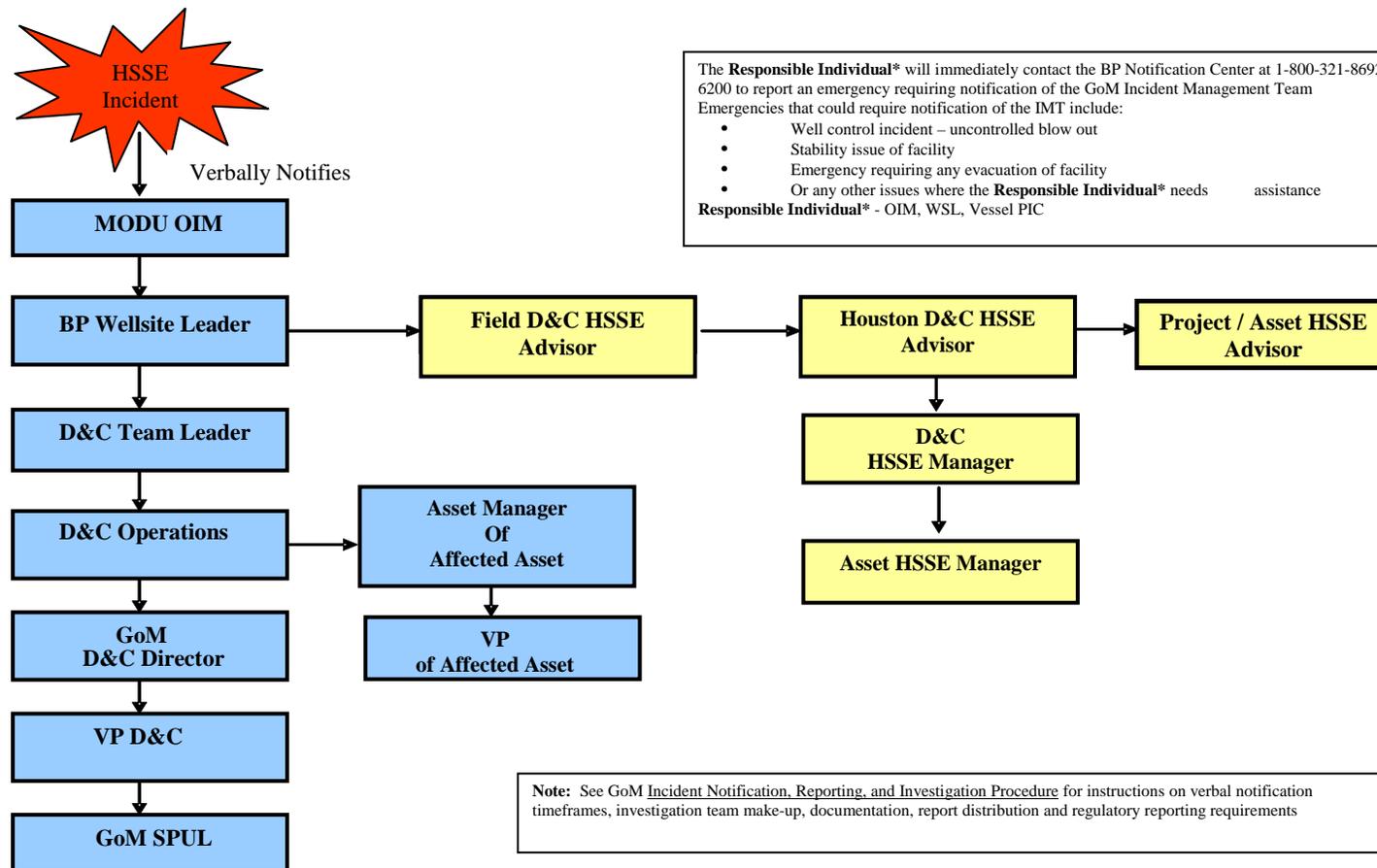
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Section 7
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Figure 7.4c MODU Incident Notification



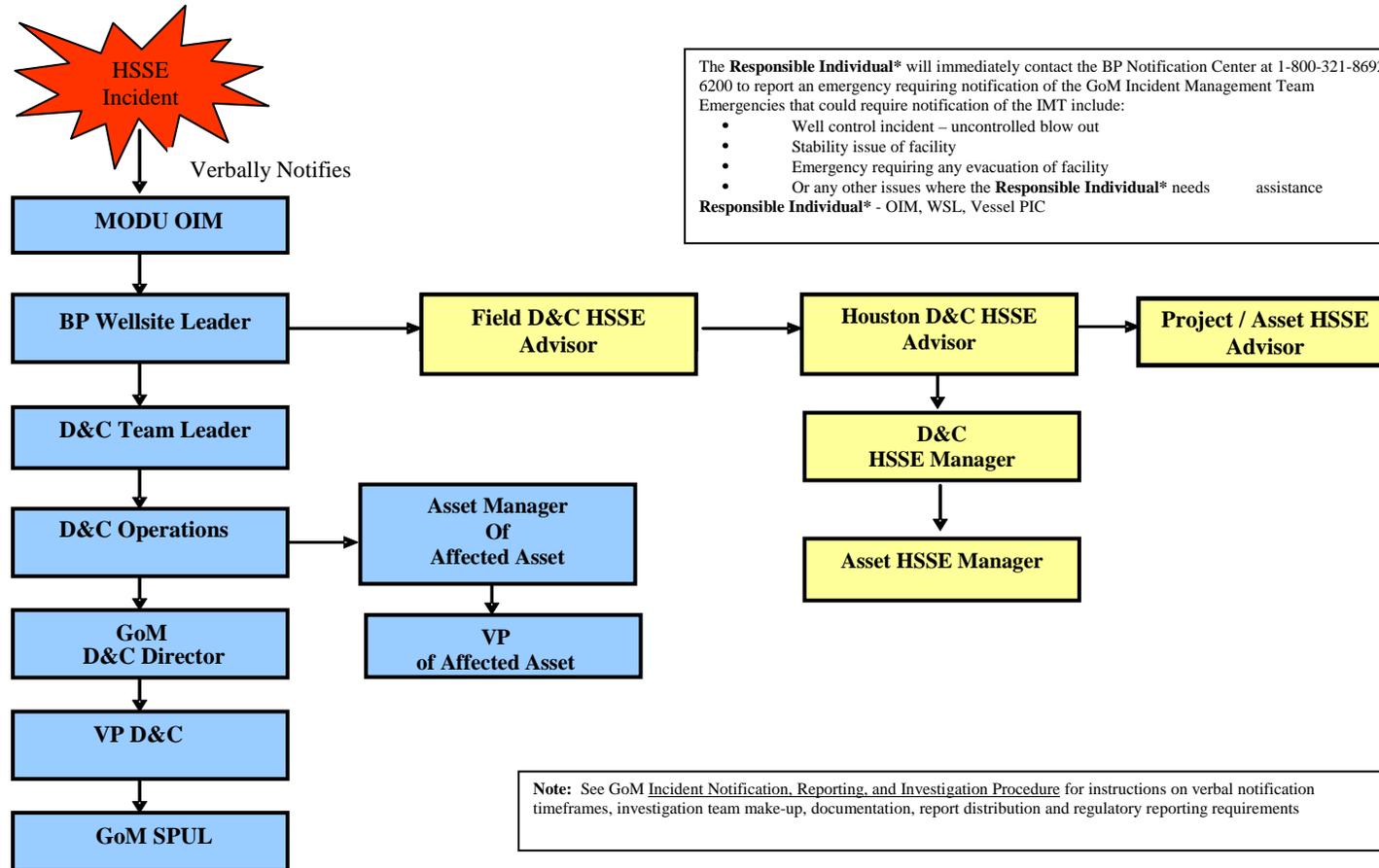
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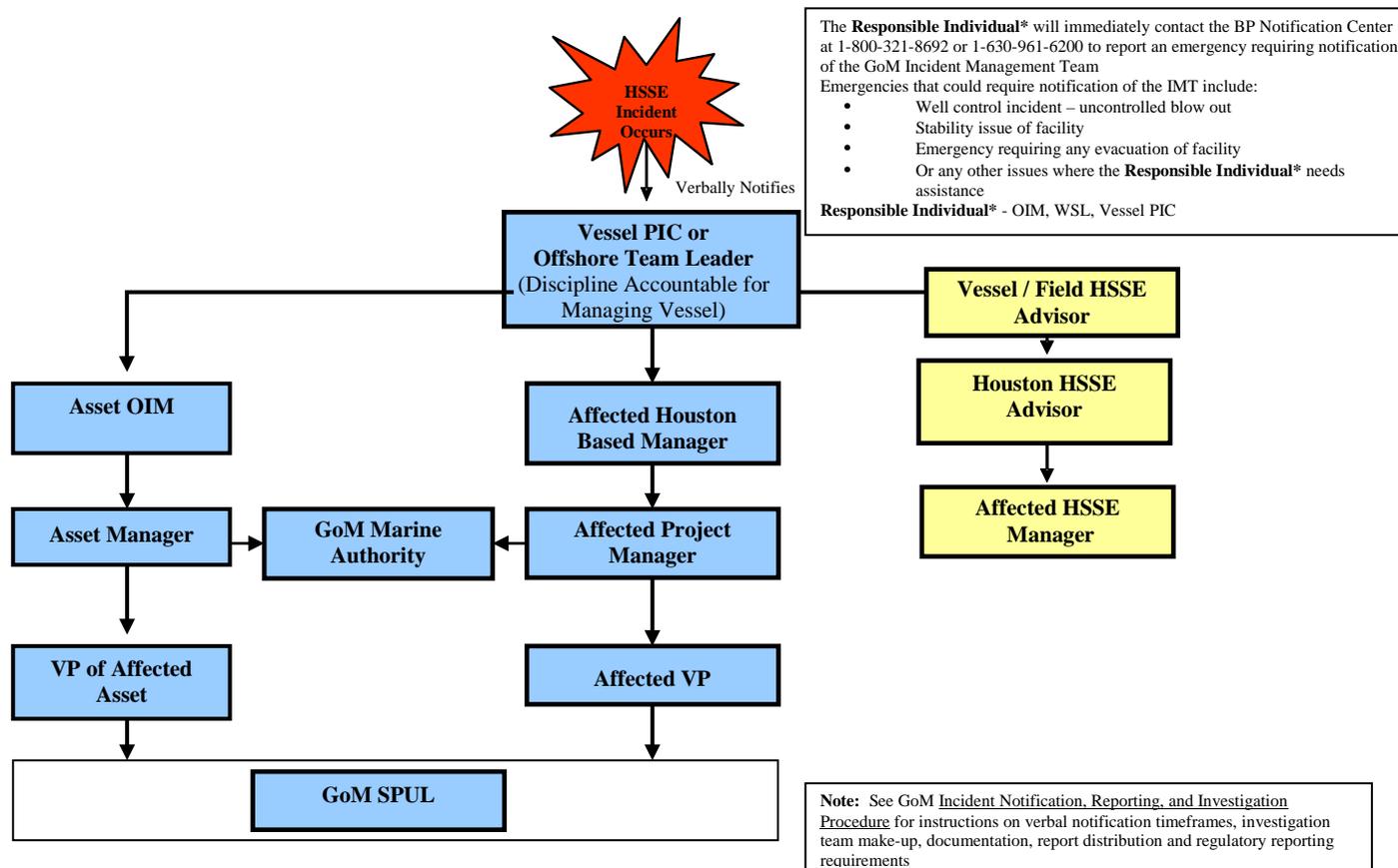
Figure 7.4c MODU Incident Notification





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Figure 7.4d Vessels – Incident Notification





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Regional Oil Spill Response Plan – GOM

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QI, SMT,
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OSRO
Notifications

BP Incident Management Team Organizational List

Figure 7-5a

#	Name/Position	Office	Pager	Home	Cellular	Email
1	Incident Commander (Qualified Individual)					
	Hohle, Jeff	281-366-5240			281-382-8807	jeff.hohle@bp.com
	Holt, Charlie	281-366-5872		281-398-1213	713-206-1597	charles.holt@bp.com
	Imm, Gary	281-366-4366		281-398-0474	713-302-8696	gary.imm@bp.com
	Jackson, Curtis	281-366-4290		281-693-6745	713-569-0292	curtis.jackson@bp.com
	Leary, Mick	281-366-2371		281-256-0214	281-782-8994	michael.leary@bp.com
	McDaniel, Sammy	281-366-5970		281-395-8740	713-898-1173	sammy.mcdaniel@bp.com
	Oneto, Rick	281-366-4061		281-392-1164	832-347-1864	rick.oneto@bp.com
	Replogle, Dan	281-366-5169		281-375-7680	713-416-4696	dan.replogle@bp.com
	Seilhan, Keith	281-366-3535			713-899-5428	keith.seilhan@bp.com
	Shero, Winston	281-366-7259		281-646-0326	281-435-3213	winston.shero@bp.com
	Mick, Will	281-366-5421			713-201-3202	willmr@bp.com
2	Safety Officer					
	TBD					
3	Liaison Officer					
	TBD					
4	Information Officer					
	TBD					
5	Operations Section Chief					
	Al Monthry, Wissam	281-366-6339			832-472-7220	almw00@bp.com
	Black, Jim	281-366-4233		281-394-2015	713-562-6419	james.black@bp.com
	Frazelle, Andy	281-366-8792		832-230-1488	713-213-3505	andrew.frazelle@bp.com
	Kirton, Bill	281-366-5525		281-251-6744	281-381-5320	bill.kirton@bp.com
	Little, Ian	281-504-0958		281-870-1251	281-435-7093	ian.little@bp.com
	Littlefield, Burt	281-366-3610		281-565-0621	281-384-1886	burt.littlefield@bp.com
	Lowe, Jon	281-366-5319		281-492-9084	713-447-8138	jon.lowe@bp.com
	O'Donnell, Bill	281-366-0907		281-955-0706	281-435-8581	odonne kp@bp.com

Title of Document: Regional Oil Spill Response Plan
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 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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BP Incident Management Team Organizational List

Figure 7-5a

#	Name/Position	Office	Pager	Home	Cellular	Email
5	Operations Section Chief					
	Rohloff, James	281 366 5311		281 444 0205	713 870 6320	rohlofjm@bp.com
	Sanders, Robert	281-366-4488		281-225-9170	713-301-6514	robert.sanders@bp.com
	Stead, Damian	281-366-5648		281-556-8331	713-855-7312	steadd@bp.com
6	Source Control					
	Bednar, John	281-249-4325		281-359-4989	281-381-0510 (CP)	byrdm@bp.com
	Broman, Bill	281-249-1337		281-395-3346	713-907-6552 (CP)	emmerstc@bp.com
	Emmerson, Tony	281-366-0955		281-493-1646	281-684-6114 (CP)	guidej@bp.com
	Guide, John	281-366-0531		281-225-9432	713-252-7918 (CP)	guidej@bp.com
	Hill, Perry	281-366-7531		281-392-6937	281-352-3301 (CP)	hillpl1@bp.com
	Marshall, Rob	281-366-5892		281-646-7170	832-444-0246 (CP)	MarshaRR@bp.com
	Miglicco, Terry	281-366-2036		281-579-2550	713-822-3506 (CP)	miglictp@bp.com
	Naeger, Robert	281-366-5769		281-565-2960	281-435-5595 (CP)	naegerri@bp.com
	Nohavitza, Glen-	281-366-1051		281-342-6842	713-203-5011 (CP)	nohavigr@bp.com
	Sims, David	281-366-0360		281-578-8653	713-304-5600 (CP)	simsdc@bp.com
	Skelton, Jake	281-366-4283		281-395-5220	713-703-5476 (CP)	skeltodd@bp.com
	Sprague, Jon	281-366-5871		281-290-9778	281-387-7509 (CP)	spraguid@bp.com
7	Recovery & Prot. Branch Dir.					
	TBD					
8	Staging Area Manager					
	TBD					
9	Disposal Group					
	TBD					
10	Wildlife Branch Director					
	TBD					

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BP Incident Management Team Organizational List

Figure 7-5a

#	Name/Position	Office	Pager	Home	Cellular	Email
11	Planning Section Chief					
	Bartlett, Rick	281-366-4540		281-395-3771	713-253-2577	bartlerm@bp.com
	Handyside, Doug	281-366-4801		281-980-3273	832-647-0518	doug.handyside@bp.com
	Jackson, Victor	281-366-4719			713-829-4281	victor.jackson@bp.com
	Johnson, Dennis P	281-366-7828		281-856-8433	713-822-7106	dennis.johnson2@bp.com
	Loveland, Richard	281-366-6297			832-472-7322	lovelark@bp.com
	Rich, Dave	281-504-4347			713-854-3840	richd@bp.com
	Singh, Pramod	281-366-0296		281-392-9518	281-785-5330	singhpk@bp.com
	Steel, Bill	281-366-5318		281-599-7442	281-435-8122	william.steel@bp.com
	Vinson, Graham	281-366-4068		281-855-8137	713-253-9213	graham.vinson@bp.com
	Waligura, Starlee	281 366 1494		281 888 5024	281 352 9770	waliguss@bp.com
	Williamson, Dawn	281-366-5784			832-494-7737	williad10@bp.com
12	Situation Unit Leader					
	TBD					
13	Resource Unit Leader					
	TBD					
14	Documentation Unit Leader					
	TBD					
15	Land / Survey / GIS Specialist					
	Autio, Brian	281-366-4452		713-896-9358	281-635-1809	autoibd@bp.com
	Baker, Richard	281-366-2039		281-392-4615	281-455-8109	bakerrw@bp.com
16	Technical Specialists					
	The Response Group	281-880-5000	800-651-3942 (24 hr number)		713-906-9866	all@responsegroupinc.com
17	Logistics Section Chief					
	Hensley, Larry B. - P	281-366-7304		281-392-9691	281-455-9852 (CP)	henslelb@bp.com
	Hollier, Jaime - P	281-366-0277		832-427-5636	281-703-0203 (CP)	holliejg@bp.com
	Huston, John	281-366-5795		281-897-0010	713-962-5927 (CP)	hustonja@bp.com
	Rougeau, John - P	281-366-5042		281-259-9090	713-201-3081 (CP)	rougeajw@bp.com

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BP Incident Management Team Organizational List

Figure 7-5a

#	Name/Position	Office	Pager	Home	Cellular	Email
17	Logistics Section Chief (continued)					
	Russell, Virgil - P	281-366-0571		281-496-7393	281-382-3719 (CP)	russsevl@bp.com
	Smith, James C. - P	281-366-5791		281-533-9503	713-303-1851 (CP)	smithjic@bp.com
	Wheeler, Johnny - P	281-366-7410		281-392-5819	713-303-0971 (CP)	Wheeel1@bp.com
18	Service Branch Director					
	TBD					
19	Support Branch Director					
	TBD					
20	Communications Unit Leader					
	TBD					
21	Finance Section Chief					
	Dewberry, Phil	281-366-4756		281-879-5929	713-859-8907	dewberpl@bp.com
	Dowell, Sandra	281-366-7165		281-741-8910	832-860-9656	dowells@bp.com
	Hammer, Cynthia	281-366-2888		281-395-1808	713-299-8057	hammerca@bp.com
	Henry, Stacey	281-366-2661		713-466-8965	281-615-9847	henrysl@bp.com
	Hood, Daphne*	281-366-0943			281-217-9880	hooddr@bp.com
	Kraus, Malcolm	281-366-4172		281-346-0086	713-775-3800	krausmd@bp.com
	Linder, Dave	281-366-5958		281-579-7688	832-656-5958	linderdp@bp.com
	Robbins, Katherine	281-366-2749		281-256-7127	713-249-5359	robbk0@bp.com
	Russell, Lenny	281-366-8750		281-392-1969	410-499-8569	russell4@bp.com
	Song, Diana	281-366-3945		none	281-740-0926	songd1@bp.com
	Williams, Vicki*	281-366-0456		713-780-0109	713-703-9155	williavl@bp.com
	Wright, Al*	281-366-0788		281-647-6132	281-804-0475	wrightal@bp.com
22	Procurement Unit Leader					
	TBD					
23	Comp. / Claims Unit Leader					
	TBD					
24	Cost Unit Leader					
	TBD					
25	Time Unit Leader					
	TBD					

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BP Incident Management Team Organizational List

Figure 7-5a

#	Name/Position	Office	Pager	Home	Cellular	Email
	CM/ER Advisor Houston Crisis Center / ICS Specialist					
	Bush, Earnest	281-366-8295		832-295-5539	281-513-1067	bushed@bp.com
	Tomme, Pam	281-366-0286		281-533-0442	713-208-6173	tommepr@bp.com
	Scott, Cheryl	281-366-3237		281-304-5253	713-249-9692	scotcl@bp.com
	Apodaca, Al	281-366-2904		281-934-3586	281-934-3586	Apodaca@bp.com
	Business Support Team Required Contacts					
	Addison, Fergus	281-366-7645		281-693-7524	281-793-4131	AddisoFT@bp.com
	Lacy, Kevin	281-366-8863		281-419-8480	832-729-9163	lacyk0@bp.com
	Shaw, Neil	281-366-1044			713-594-4712	ShawN@bp.com
	Morrison, Richard	281-366-5698		281-395-4915	281-380-7643	morrisonr@bp.com
	Dave Rainey	281-366-5061		281-579-3368	713-685-2285	RaineyDI@bp.com
	Replogle, Dan	281-366-5169		281-375-7680	713-416-4696	dan.replogle@bp.com
	Todd, Simon	281-366-0307		281-293-7261	832-623-9736	toddsp@bp.com
	Zwart, Peter	281-366-5733		713-984-9667	713-269-4298	zwartpa@bp.com

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IMT Locations

Figure 7-5b

Incident Management Team & Operations Locations	
#1	#2
BP – QI Location 200 Westlake Park Boulevard Room #351 Houston, Texas 77079 281-366-2000	The Response Group 13231 Champion Forest Dr. Suite #310 Houston, TX 77069 281-880-5000

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External / OSRO Contact Information List

Figure 7-6

Company	Full Range Response	Other	Locations	Super-visor	Technical/ Operator	Support/ General Laborer
Eagle Construction 800-336-0909 www.ecesi.com			Eastland, TX Ft. Worth, TX San Antonio, TX La Porte, TX Gonzales, LA	-	-	-
ES & H/Cenac Environmental Services 877-437-2634* 888-422-3622 www.esandh.com trey@esandh.com	*	Emergency response, industrial cleaning, waste transportation and disposal and remediation consulting	Houma, LA Fourchon, LA New Iberia, LA Morgan City, LA Belle Chasse, LA Venice, LA Port Allen, LA Port Arthur, TX	12	25	14
Garner Environmental Services 800-424-1716* www.garner-es.com reese@garner-es.com		Emergency response, remediation, and disaster response	Deer Park, TX Palacios, TX LaMarque, TX Port Arthur, TX New Orleans, LA	11	19	
C-Mac Environmental Group 251-580-9400			Bay Manette, AL			
Industrial Cleanup, Inc. 800-436-0883 www.industrialcleanup.net info@industrialcleanup.net	*	Emergency response and oil spill clean up	Garyville, LA Baton Rouge, LA Scott, LA	5 1	10 2	56
Shaw Environmental & Infrastructure Inc. 800-537-9540	*	Environmental clean up	Houston, TX Port Allen, TX	5	13	32
Miller Environmental Services, Inc. 610-376-9162 www.miller-env.com info@miller-env.com	*	Environmental clean up	Corpus Christi, TX Port Arthur, TX Sulphur, LA	11 4	27 14	25 6
American Pollution Control Inc (AMPOL) 800-48-AMPOL/337-365-7847 www.ampol.net		Emergency Spill Response, remediation, environmental cleanup	New Iberia, LA			

- BP Approved Contractor



BP
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External / OSRO Contact Information List (continued) Figure 7-6

Company	Full Range Response	Other	Locations	Super-visor	Technical/ Operator	Support/ General Laborer
Oil Mop, Inc. 800-OIL MOP1 800-645-6671 www.oilmop.com	*	Emergency response and clean up	Galveston, TX	3	10	
			Lake Charles, LA Cameron, LA Baton Rouge, LA Belle Chasse, LA Intercoastal City, LA New Iberia, LA Fourchon, LA Houma, LA Lafayette, LA Morgan City, LA Venice, LA	2	6	
				1	2	
Oil Recovery Company, Inc. 800-350-0443 251-690-9010 www.oilrecoveryco.com Oilrecoveryco@aol.com	*	Oil spill clean up	Mobile, AL Baton Rouge, LA			
Pneumatic Industrial Services 888-279-9930 www.usesgroup.com/pneumatic/industrial.php arry@pneumaticindustrial.com		Vacuum work and plant services	La Porte, TX Orangefield, TX		4	
Southern Waste Services, Inc. 800-852-8878 www.swsefr.com	*	Emergency spill response, hazardous materials and waste disposal	Panama City, FL Pensacola, FL Tampa, FL Pinellas Park, FL Ft. Meyers, FL Mobile, AL Galveston, TX	3	10 2	
T & T Marine Salvage, Inc. 409-744-1222 www.tandtmarine.com ronnier@tandtmarine.com	*	Marine salvage and oil spill clean up	Meraux, LA Galveston, TX	6	11	6
The Response Group, Inc. 281-880-5000 713-906-9866* www.responsegroupinc.com nformation@responsegroupinc.com		Spill Trajectories IAP/ICS Support	Houston, TX			
United States Environmental Services 888-279-9930* www.usesgroup.com uses@usesgroup.com	*	Emergency response remediation, site restoration, plant services	Saraland, AL Port Allen, LA Mereaux, LA Venice, LA Channelview, TX	3 3	4 Personnel available based on need	4

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BP Spill Reporting Form

Figure 7-7



BP Spill Report

**PLEASE FILL OUT HIGHLIGHTED FIELDS IMMEDIATELY AND
REPORT TO THE ENVIRONMENTAL PAGER (713)-612-4106**

Date/Time of Spill: _____ **Date of Report:** _____

Date/Time Spill was Discovered: _____ **Time of Report:** _____

Sighted By: _____ **Reported By:** _____

Facility (Lat/Long) Location: _____ **County/Parish:** _____ **State:** _____

Area/Block: _____ **OCS-G** _____ **Well#:** _____

Description of facility: _____

Spill Source: _____

Type of material released: _____

API Gravity: _____

Current Cumulative Volume Spilled: _____ **Estimated Rate of Release:** _____

Description of spill: (i.e., slick – colored film or layer of oil, sheen – thin clear film or thin layer of oil; rainbow – reflect on type film, size): _____

Length of Time Discharge Occurred: _____ **Quantity:** _____ **Recovered:** _____

Weather: Clear _____ Cloudy _____ Fog _____ Rain _____

Wind: Velocity _____ **Dir. (from)** _____ **Current Dir. (to)** _____ **Velocity** _____

Visibility: _____ **Ceiling:** _____

Temperature: _____ **Sea State:** _____

Did spill affect any water? _____ **If yes, describe and name:** _____

Size of Oil: Width _____ **Length** _____

Percent Coverage: _____

Approximate Location of Oil: Lat. _____ **Long.** _____

Direction of Movement: _____

Potential Hazard to Life and Property: _____

Description of effects of spill (on fish, wildlife, vegetation, etc.): _____

Damage: _____ **Injuries:** _____

Corrective Action Taken: _____

Cause: _____

Source Abatement Status: _____

Response Status: _____

Explain containment and cleanup measures taken (including equipment and material used): _____

How successful were these efforts (amount recovered): _____

Did representative of outside agency visit the scene? _____

If so, which agencies? _____

Additional remarks and recommendations (include any pertinent comments on public relations observation): _____

Supervisor (in Charge)

Report To Regulatory Agencies

Agency	Report By:	Report To:	Time and Date
MMS	_____	_____	_____
NRC	_____	_____	_____
EPA	_____	_____	_____
USCG	_____	_____	_____
LSP	_____	_____	_____
LOSCO	_____	_____	_____
TGLO	_____	_____	_____
TRRC	_____	_____	_____

NRC Phone # - 1-800-424-8802

NRC Case Number (assigned by the NRC):

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8. EXTERNAL NOTIFICATIONS

A. Reporting Procedures

This section of the BP Oil Spill Response Plan lists the various governmental agencies that must be notified of an oil spill release immediately (1 hour or less), as well as other agencies that may subsequently become involved in the response operation. Upon knowledge of a spill, the BP Qualified Individual/Incident Commander or his designee will notify the National Response Center and the Minerals Management Service, and other agencies as required.

B. External Contact Information

External notifications will be made in accordance with Federal, State, and Local regulations for all reportable discharges. **Figure 8-1** contains a Notification Status Report. Refer to **Figure 8-2** through **Figure 8-8** for information concerning regulatory agency notification requirements and contact information. The BP Spill Report Form found in **Appendix G**, Notifications and Reporting Forms, will be used to facilitate documentation and data retrieval during an incident. **Figure 8-9a & b** show the MMS and USCG areas of responsibility.

C. External Spill Reporting Forms

In the event of an incident, notification procedures will be implemented and necessary information from forms found in **Figure 12-4** and **Appendix G**, Notification and Reporting Forms, will be completed and submitted to the appropriate agencies in a timely manner.



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Notification Status Report

Figure 8-1

Notification Status Report									
Incident:				Prepared By:					at:
Period:				Version Name:					to
Organization Notified	Phone	Date /Time Notified	Person Contacted	Person Contacted Email	Case No.	Follow Up	ETA On Site	Notified By	
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
Notification Status Report									© 1997-2009 TRG/dbSoft, Inc.

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Federal Agency Regulatory Notifications

Figure 8-2

National Response Center	Phone Number
NRC – Hotline	800-424-8802
<p>Contact NRC immediately if any of the following conditions occur:</p> <ul style="list-style-type: none"> • A sheen, slick, or spill is observed or discovered. • A reportable quantity or more of a hazardous substance is released. • A DOT gas pipeline release causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery. • A DOT oil or condensate pipeline spill exceeds 5 gallons or causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery. <p>Verbal reports to the NRC should note that a DOT pipeline was involved whenever applicable. A R SPA F7000-1 Form (<i>Accident Report – Hazardous Liquid Pipeline Systems</i>) should be completed and submitted to the DOT within 30 days to:</p> <p>Information Resources Manager Office of Pipeline Safety, RSPA U. S. Dept. of Transportation – Room 2335 400 Seventh Street SW Washington D. C. 20590</p>	

USCG SECTOR / MSU	Phone Number
Sector Corpus Christi 8930 Ocean Dr. Corpus Christi, TX 78419	(361) 939-6393 (24 hrs) (361) 939-6349 (24 hrs) (361) 939-6240 Fax
Sector Houston – Galveston 9640 Clinton Drive Houston, TX 77029	(713) 671-5100 Office (713) 671-5113 (24 hrs) (713) 671-5147 Fax
MSU Port Arthur 2901 Turtle Creek Drive Port Arthur, TX 77642	(409) 723-6500 Office (409) 719-5000 (24 hrs) (409) 723-6534 Fax
Sector New Orleans 1615 Poydras, 7 th Floor New Orleans, LA 70112	(504) 846-5923 Office (504) 589-6196 (24 hrs)
MSU Morgan City 800 David Drive RM 232 Morgan City, LA 70380	(985) 380-5320 (24 hrs) (985) 380-1687 Fax

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
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 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
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Federal Agency Regulatory Notifications (Cont'd)

Figure 8-2

USCG SECTOR / MSU (Cont'd)	Phone Number
Sector Mobile Building 101, Brookley Complex Mobile, AL 36615	(251) 441-5720 Office (251) 441-6211 (24 hrs) (251) 441-6216 Fax
Sector Jacksonville 4200 Ocean Street Atlantic Beach, FL 32233	(904) 564-7500 Office (904) 564-7511/7512 (24 hrs) (904) 564-7519 Fax
Sector Miami 100 Macarthur Causeway Miami Beach, FL 33139	(305) 535-8700 Office (305) 535-4472/4473 (24 hrs) (305) 535-8761 Fax
MSU St. Petersburg: Prevention Department Tampa 155 Columbia Drive Tampa, FL 33606	(813) 228-2191 Office (727) 824-7506 (24 hrs) (813) 228-2050 Fax
Reporting Updates Report significant changes or new information to the appropriate USCG Marine Safety Office instead of the NRC. Include the NRC number assigned to the initial spill. Update other agencies as appropriate.	

MMS	Phone Number
New Orleans 990 North Corporate Drive, Suite 100 New Orleans, LA 70123	(504) 734-6740 Office (504) 734-6742 Office (504) 734-6741 Fax (504) 615-0114 Cell Phone
Houma 3804 Country Drive P.O. Box 760 Bourg, LA 70343-0760	(985) 853-5884 Office (985) 879-2738 Fax (985) 688-6050 Cell Phone
Lafayette 201 Energy Parkway, Suite 410 Lafayette, LA 70508	(337) 289-5100 Office (337) 354-0008 Fax (337) 280-0227 Cell Phone



Federal Agency Regulatory Notifications (Cont'd)

Figure 8-2

MMS (Cont'd)	Phone Number
Lake Charles 620 Esplanade Street, Suite 200 Lake Charles, LA 70607-2984	(337) 480-4600 Office (337) 477-9889 Fax (337) 370-2419 Cell Phone
Lake Jackson Oak Park Center 102 Oak Park Drive, Suite 200 Clute, TX 77531	(979) 238-8121 Office (979) 238-8122 Fax (979) 292-9334 Cell Phone
Pipeline Section 1201 Elmwood Park Boulevard, MS 5232 New Orleans, LA 70123-2394	(504) 736-2814 Office (504) 736-2408 Fax (504) 452-3562 Cell Phone
<p>Spill Reporting You must report all spills of <i>1 barrel or more</i> to the appropriate MMS district office without delay. For spills related to drilling or production operations:</p> <ul style="list-style-type: none"> • Fax the appropriate district office to report spills of 10 barrels or less. • Phone the appropriate district office immediately to report spills in excess of 10 barrels. • You must also immediately notify the appropriate MMS District Office and the responsible party, if known, if you observe a spill resulting from operations at another offshore facility. <p>Within 15 days, confirm all spills of 1 barrel or more in a written follow-up report to the appropriate MMS district office. For any spill of 1 barrel or more, your follow-up report must include the cause, location, volume, and remedial action taken. In addition, for spills of more than 50 barrels, the report must include information on the sea state, meteorological conditions, and size and appearance of the slick.</p> <p>Pipeline Reporting You must immediately notify the Pipeline Section of any serious accident, serious injury or fatality, fire, explosion, oil spills of <i>1 barrel or more</i> or gas leaks related to lease term or right-of-way grant pipelines. Phone the Pipeline Section immediately to report all pipeline spills of 1 barrel or more.</p>	



Federal Agency Regulatory Notifications (Cont'd)

Figure 8-2

Flower Garden Banks	Phone Number
Office: Galveston, Texas	(409) 621-5151 Office (409) 621-5151 x102 (George Schmahl)
George Schmahl	(979) 693-6018 Home (979) 229-6542 Cell
Marine Sanctuary Division Lisa Symons	(800) 715-3271 Pager (800) 218-1232 Pager (301) 529-1860 Cell
Spill Reporting You must report all spills from leases & ROW located near the Flower Garden Banks.	

Department of Transportation Office of Pipeline Safety	Phone Number
Notify NATIONAL RESPONSE CENTER	See Page 8-3
Spill Reporting You must report any discharge from DOT Pipeline immediately.	



Federal Agency Regulatory Notifications (Cont'd)

Figure 8-2

Environmental Protection Agency	Phone Number
REGION IV Superfund/ERRB 61 Forsyth Street Atlanta, GA 30303 Oil Spill NPDES Permit Violations	 (404) 562-8700 (404) 562-9279 (Issuances only)
REGION VI 6SF-R 1445 Ross Avenue Dallas, TX 75202 Oil Spill Alternate Number NPDES Permit Violations	 (866) EPASPILL (866) 372-7745 (214) 665-6444 (214) 665-7180 (Dina Granado)
Spill Reporting Contact EPA within 24 hours if any of the following conditions occur: <ul style="list-style-type: none"> • Any unanticipated bypass exceeding limitation in permit. • Any upset condition which exceeds any effluent limitation in permit. • Violation of maximum daily discharge limitation or daily minimum toxicity limitation. • Chemical spills of a reportable quantity. 	



State Of Texas Regulatory Notifications

Figure 8-3

Agency	Phone Number
General Land Office (TGLO) Stephen F. Austin Building 1700 North Congress Avenue, Suite #935 Austin, TX 78701-1495	(800) 832-8224 (Emergency Hotline) (800) 998-4GLO (Toll-Free) (512) 463-5001
Railroad Commission of Texas (TRRC) Main Office 1701 North Congress P.O. Box 12967 Austin, TX 78711-2967	(877) 228-5740 (Office) (512) 463-6788 (Emergency, 24 hrs) (512) 463-7288
RRC District 2 Office 115 Travis, Suite #1610 San Antonio, TX 78205	(210) 227-1313 (24 hrs)
RRC District 3 Office 1706 Seamist Drive, Suite #501 Houston, TX 77008-3135	(713) 869-5001 (24 hrs)
RRC District 4 Office 10320 IH 37 Corpus Christi, TX 78410	(361) 242-3113 (24 hrs)
Texas Parks and Wildlife	800-792-1112
<p>TRRC/TGLO When a sheen, slick, or spill is observed or discovered, or a chemical release occurs, call the TRC Oil & Gas Division and the Texas General Land Office's 24-hour hotline immediately.</p> <p>Parks and Wildlife When a spill impacts or has potential to impact a state wildlife management area, call the Texas Parks and Wildlife Department immediately.</p>	

Texas LEPC/Sheriff's Department	Phone Number
Aransas County	(361) 729-2222 (24 hrs)
Brazoria County	(979) 849-2441 (24 hrs)
Calhoun County	(361) 553-4646 (24 hrs)
Chambers County	(409) 267-8322 (24 hrs)
Galveston County	(409) 766-2322 (24 hrs)
Kleberg County	(361) 595-8500 (24 hrs)



State Of Texas Regulatory Notifications (Cont'd)

Figure 8-3

Texas LEPC/Sheriff's Department	Phone Number
Matagorda County	(979) 245-5526 (24 hrs)
Nueces County	(361) 887-2222 (24 hrs)
Willacy County	(956) 689-5576 (24 hrs)



State Of Louisiana Regulatory Notifications

Figure 8-4

Agency	Phone Number
Emergency Response Commission C/O Office of State Police	(877) 925-6595 (225) 925-6595 (24 hrs, Louisiana one-call emergency number)
Department of Environmental Quality Single Point of Contact	(225) 342-1234 (24 hrs) (225) 925-6595 (Emergency)
Oil Spill Response Coordinator, Louisiana 625 North Fourth St., Suite #800 Baton Rouge, LA 70802	(225) 219-5800
Louisiana Department of Environmental Quality (LDEQ) P.O. Box 4312 Baton Rouge, LA 70821-4312	(225) 219-3953 (225) 342-1234 (24 Hour Hotline) (225) 219-3640 (SPOC)
Louisiana Department of Natural Resources (LDNR)	(225) 342-4500 (Business Hours) (225) 342-5505 (After Hours)
State or Federal Wildlife Management Pass à loutre Wildlife Refuge	(337) 373-0032 (New Iberia Office)
Rockefeller Wildlife Refuge	(337) 538-2276
US Fish and Wildlife Service	(800) 344-WILD
Delta Wildlife Refuge	(985) 882-2000
McFadden National Refuge	(409) 971-2909
Sabine National Refuge	(337) 762-3816
Breton Sound National Wildlife Refuge	(985) 882-2000



State Of Louisiana Regulatory Notifications

Figure 8-4

Agency	Phone Number
Emergency Response Commission C/O Office of State Police	(877) 925-6595 (225) 925-6595 (24 hrs, Louisiana one-call emergency number)
Department of Environmental Quality Single Point of Contact	(225) 342-1234 (24 hrs) (225) 925-6595 (Emergency)
Oil Spill Response Coordinator, Louisiana 625 North Fourth St., Suite #800 Baton Rouge, LA 70802	(225) 219-5800
Louisiana Department of Environmental Quality (LDEQ) P.O. Box 4312 Baton Rouge, LA 70821-4312	(225) 219-3953 (225) 342-1234 (24 Hour Hotline) (225) 219-3640 (SPOC)
Louisiana Department of Natural Resources (LDNR)	(225) 342-4500 (Business Hours) (225) 342-5505 (After Hours)
State or Federal Wildlife Management Pass à l'Outre Wildlife Refuge	(337) 373-0032 (New Iberia Office)
Rockefeller Wildlife Refuge	(337) 538-2276
US Fish and Wildlife Service	(800) 344-WILD
Delta Wildlife Refuge	(985) 882-2000
McFadden National Refuge	(409) 971-2909
Sabine National Refuge	(337) 762-3816
Breton Sound National Wildlife Refuge	(985) 882-2000



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 8-4

In the circumstances shown below, call the State Police 24-hour Louisiana Emergency Hazardous Materials hotline. In addition, call the LEPC that has jurisdiction over the facility and the LEPCs for the affected parish. Calls should be made no later than one hour after becoming aware of the emergency.

- When an *emergency condition* exists which could reasonably be expected to endanger the public, cause significant environmental damage, or cause severe property damage. The hotline will in turn notify the Louisiana Department of Environmental Quality (LDEQ).

- When one of the following occurs and the spill or release escapes to water, air, or ground outside the facility boundaries:

- Ten gallons or more (100 lbs.) of crude oil is spilled.
- Twenty MCFD or more of sweet natural gas are released.

A release of sour gas occurs with a hydrogen sulfide (H₂S) component of *more than 100 pounds*.

- A hazardous substance release meets or exceeds its *Reportable Quantity*.
- Facilities must make follow-up written reports within 5 days after the release occurs to the LEPC with jurisdiction over the facility, and to the:

Emergency Response Commission
c/o Department of Public Safety and Correction
Office of State Police
Transportation and Environmental Safety Section, Mail Slip 21
P. O. Box 66614
Baton Rouge, LA 70896

Notify the LDEQ under these conditions:

- When an *emergency condition* exists which could reasonably be expected to endanger the public, cause significant environmental damage, or cause severe property damage. A separate call is not needed; as stated above, the State Police hotline will notify the LDEQ. *Written follow-up to the DEQ is required within seven days. Written reports should be mailed to:*

LA Department of Environmental Quality
Attention Surveillance Division – SPOC
“Unauthorized Discharge Notification Report”
P. O. Box 4312
Baton Rouge, LA 70821-4312



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 8-4

When one of the following occurs *and* the spill or release is *not totally contained*:

- *More than one barrel* of crude oil is spilled.
- A release of sweet natural gas exceeds *1 MMCFD*.
- A release of sour gas occurs with an H₂S component of *more than 100 pounds*.
- A hazardous substance release exceeds its *RQ*.

Call the LDNR immediately, but no later than two hours after discovery, for any of the following:

- A DOT *gas* pipeline release causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery.
- A DOT *oil or condensate* pipeline spill exceeds 5 gallons or causes injury, death, fire, or damage of more than \$50,000, including the value of lost product, and the cost of cleanup and recovery.

Verbal reports to the DNR should note that a DOT pipeline was involved.

If a spill impacts or has potential to impact a state or federal wildlife refuge, notify the appropriate refuge staff.



State Of Louisiana Regulatory Notifications (Cont'd)

Figure 8-4

LA Parish Sheriff's Department	Phone Number
Cameron Parish (Cameron)	(337) 775-5111 (24 hrs)
Vermilion Parish (Abbeville)	(337) 893-0871 (24 hrs)
Iberia Parish (New Iberia)	(337) 369-3714 (24 hrs)
St. Mary Parish (Franklin)	(337) 828-1960 (24 hrs)
Terrebone Parish (Houma)	(985) 876-2500 (24 hrs)
LaFourche Parish (Thibodeaux)	(985) 449-2255 (24 hrs)
Jefferson Parish (Gretna)	(504) 363-5500 (24 hrs)
Plaquemines Parish (Pointe A La Hache)	(504) 564-2525 (24 hrs)
St. Bernard Parish (Chalmette)	(504) 271-2501 (24 hrs)
Orleans Parish (New Orleans)	(504) 822-8000 (24 hrs)



State Of Mississippi Regulatory Notifications Figure 8-5

Agency	Phone Number
Mississippi Emergency Management Agency (MEMA) P.O. Box 4501 Jackson, MS 39296-4501	(601) 933-6362 (24 hrs) (800) 222-6362 (24 hrs)
Mississippi DEQ Bureau of Pollution Control (MDEQ) P.O. Box 10385 Jackson, MS 39289-0385 Oil and Hazardous Coordinator – Eric Deare	(601) 352-9100 (24 hrs) (800) 222-6362 (24 hrs) (601) 961-5570
Mississippi Department of Marine Resources (MDMR) 1141 Bayview Avenue, Suite 111 Biloxi, MS 39530 Lieutenant Frank Wescovich	(228) 374-5000 (228) 523-4134 (24 hrs) (Marine Patrol)
Mississippi State Oil and Gas Board (MS&GB) 500 Greymont Avenue, Suite E Jackson, MS 39202 Kent Ford	(601) 354-7142 (24 hrs)
When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the Mississippi state agencies listed in the table.	

Mississippi EMA & Sheriff's Offices	Phone Number
Hancock County EMA Sheriff's Office	(228) 466-8320 (228) 466-6900
Harrison County EMA Sheriff's Office	(228) 865-4002 (228) 896-3000
Jackson County EMA Sheriff's Office	(228) 769-3111 (228) 769-3063
When five barrels or more of crude oil or condensate are spilled, call the appropriate Mississippi CCD agency or sheriff's office immediately.	



State Of Alabama Regulatory Notifications

Figure 8-6

Agency	Phone Number
AL Department of Environmental Management (ADEM) Mobile Field Office 2204 Perimeter Road Mobile, AL 36615 Chief of Mobile Branch (John Carlton)	(251) 450-3400 (24 hrs) (251) 242-4378 (24 hrs) (800) 424-8802 (National Response Center)
AL Department of Environmental Management (ADEM) P.O. Box 301463 Montgomery, AL 36130-1463	(800) 843-0699 (24 hrs)
AL Oil and Gas Board (AO&GB) 4173 Commander Drive Mobile, AL 36615	(251) 438-4848 (251) 943-4326 (24 hrs)
AL Oil and Gas Board (AO&GB) Tuscaloosa, AL P.O. Box "O" Tuscaloosa, AL 35486-0004	(205) 349-2852
AL Civil Defense Mobile, AL	(251) 460-8000 (24 hrs)
AL Dept. of Conservation & Natural Resources (ADCNR) State Lands Division 64 North Union Street, Room 464 Montgomery, AL 36130 Nancy Cone	(334) 242-3467
When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the ADEM immediately. In addition, call the appropriate office of the AO&GB.	



State Of Florida Regulatory Notifications Figure 8-7

Agency	Phone Number
State Warning Point (24-hour)	(800) 320-0519 or (850) 413-9911 (850) 413-9900 (Non Emergencies)
Florida DEP District Emergency Response Offices (8am – 5pm)	
Tallahassee	(850) 245-2010
Pensacola	(850) 595-8300
Jacksonville	(904) 807-3300 x3246
Orlando	(407) 894-7555
Tampa	(813) 632-7600
Ft. Myers	(239) 332-6975
Ft. Lauderdale	(561) 681-6600
Florida Marine Patrol (24-hour)	(888) 404-3922

When a sheen, slick, or spill is observed or discovered, or a non-permitted chemical release occurs, call the State Warning Point, Florida Bureau of Emergency Response, and the Florida Marine Patrol.

The following information should be provided upon notification to Florida authorities:

1. Name, address, and telephone number of person reporting
2. Name, address, and telephone number of person responsible for the discharge or release, if known
3. Date and time of the discharge or release
4. Type or name of substance discharged or released
5. Estimated amount of the discharge or release
6. Location or address of discharge or release
7. Source and cause of the discharge or release
8. Size and characteristics of area affected by the discharge or release
9. Containment and cleanup actions taken to date
10. Other persons or agencies contacted



Alabama & Florida Local Notifications

Figure 8-8

Contact Information	Phone Number
<u>Mobile, AL</u>	
Sheriff's Department	(251) 574-2423
Police Department	(251) 208-7211
Fire Department	(251) 208-7351
Port Authority Security Department	(251) 441-7777 (24 hrs)
Emergency Management Agency	(251) 460-8000 (24 hrs)
<u>Pensacola, FL</u>	
Florida Highway Patrol	(850) 484-5000
Police Department	(850) 435-1900
Fire Department	(850) 436-5200

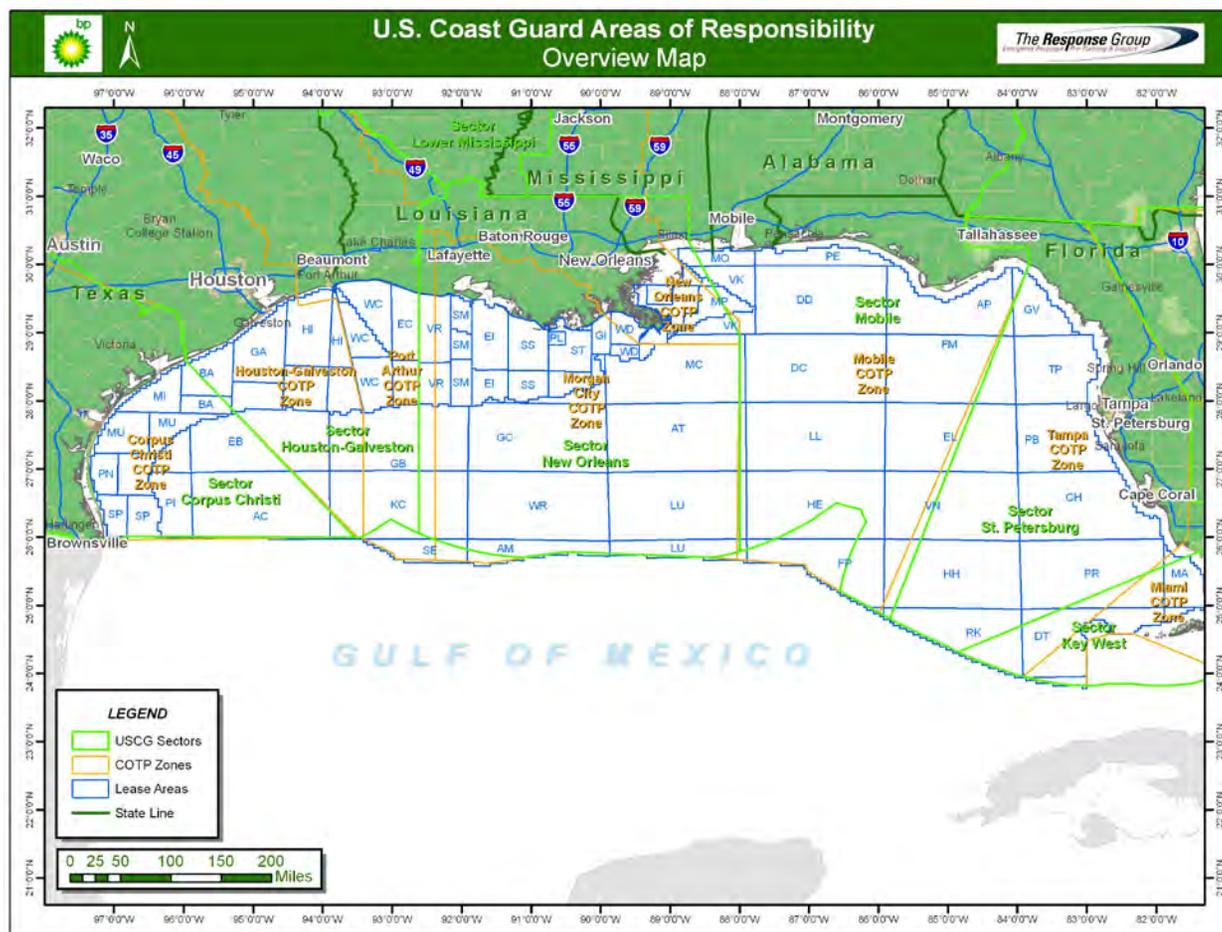


BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 8
External
Notifications

United States Coast Guard Areas Of Responsibility

Figure 8-9b



Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
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9. AVAILABLE TECHNICAL EXPERTISE

The following listing provides the names, telephone numbers, and addresses of key Federal, State, and Local agencies as well as independent contractors that may be consulted for site-specific environmental information in the event of a spill incident.

- A. Texas – **Figure 9-1**
- B. Louisiana – **Figure 9-2**
- C. Mississippi – **Figure 9-3**
- D. Alabama – **Figure 9-4**
- E. Florida – **Figure 9-5**
- F. Gulf Coast – **Figure 9-6**



Available Technical Expertise – Texas

Figure 9-1

Name	Address	Telephone
Texas Marine Mammal Stranding Network	5001 Ave. U, Suite #105C Galveston, TX 78741	(800) 9MAMMAL*
Texas Parks & Wildlife Wildlife Rescue & Rehab Dave Buzan Kills & Spills Team	4200 Smith School Road Building D Austin, TX 78741	(512) 389-4848* (800) 299-4099 (Pg)
Trajectories/Sensitivities		
The Response Group	13231 Champion Forest, Suite #310 Houston, TX 77069	(281) 880-5000 (Off) (713) 906-9866* (C) (281) 861-6880 (F)
Wildlife Rehab & Education		
US Fish & Wildlife Service Wildlife Rescue & Rehab John Huffman – Coastal Program Coord.	17629 El Camino Real Suite 211 Houston, TX 77058	(281) 286-8282 (Off) (281) 282-9344* (Fax)
Wildlife Rehab and Education Sharon Schmalz Michele Johnson	Houston, TX	(281) 332-8319 (H) (281) 731-8826 (C) (713) 279-1417 (Pg)
Texas General Land Office		(800) 998-4456
US Fish & Wildlife Service Eco System Corpus Christi State University		(361) 994-9005
East Matagorda Bay South Clara Lee – Env. Contaminant Specialist		(361) 994-9005 ext 247
Houston Audubon Society	Houston, TX	(713) 932-1639 (713) 932-1392*
Institute of Marine Life Sciences Texas A&M University Dr. Wursid		(409) 740-4413
Marine Mammal Research Pgrm Texas A&M University	Galveston, TX	(409) 740-4413 (409) 740-4421
NOAA National Maritime Fishery Service-Sea Turtles Sibyl Bodamer – Permitted Ind.	Galveston, TX Houston, TX	(409) 766-3500 (281) 379-7961*
Environmental Assessments		
ENTRIX	Houston, TX	(713) 666-6223 (Off)

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Available Technical Expertise – Texas (continued)

Figure 9-1

Name	Address	Telephone
United States Coast Guard		
MSU Port Arthur	Port Arthur, TX	(409) 723-6500 (409) 719-5000*
Sector Houston-Galveston	Houston, TX	(713) 671-5100*
Sector Corpus Christi	Corpus Christi, TX	(361) 939-6393* (361) 939-6349* (361) 939-6240 (F)
Wildlife Management Areas & Refuges**		
(1) Lower Rio Grande Valley NWR	Alamo, TX	(956) 784-7500
(2) Bentsen SP	Mission, TX	(956) 585-1107
(3) Laguna Atascosa NWR	Rio Hondo, TX	(956) 748-3607
(4) Padre Island National Seashore National Park Service (at PINS)	Corpus Christi, TX	(361) 949-7275* (361) 949-8173
(5) Mustang Island State Park	Port Aransas, TX	(361) 749-5246
(6) Goose Island State Park	Rockport, TX	(361) 729-2858
(7) Aransas Wildlife Refuge Tom Stehn – Biologist	Austwell, TX	(361) 286-3533 (361) 286-3559 ext. 221
(9) Welder Flats WMA	Bay City, TX	(979) 244-7697
(10) Big Boggy NWR	Angleton, TX	(979) 849-5118 (979) 964-3639
(11) San Bernard NWR	Angleton, TX	(929) 849-7771 (979) 964-3639
(12) Peach Point WMA	Freeport, TX	(979) 244-7697
(13) Brazoria NWR	Angleton, TX	(979) 233-5338 (979) 922-1037
(14) Galveston Island SP	Galveston, TX	(409) 737-1222
(15) Moody NWR	Anahuac, TX	(409) 267-3337
(16) Anahuac NWR	Anahuac, TX	(409) 267-3337
(17) McFaddin NWR	Sabine Pass, TX	(409) 971-2909 (409) 736-2371
(18) Sea Rim State Park	Sabine Pass, TX	(409) 971-2559
(19) Texas Point NWR	Sabine Pass, TX	(409) 971-2909
(20) Flower Garden Banks National Marine Sanctuary	Bryan, TX	(409) 621-5151 O (409) 621 1316 F

** See reference numbers for WMA, NWR, SP locations on Texas area map

* Indicates 24 hour number



BP

Regional Oil Spill Response Plan – Gulf of Mexico

Section 9
Available
Technical
Expertise



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Available Technical Expertise – Louisiana

Figure 9-2

Name	Address	Telephone
Dept of Wildlife and Fisheries Jim Hanifen – Oil Spill Coordinator	2000 Quail Drive Baton Rouge, LA	(225) 765-2800 (800) 442-2511 (24hr)
LA. Dept of Environmental Quality (Water Resources)	7290 Bluebonnet Baton Rouge, LA	(225) 342-1234*
LOSCO – Roland Guidry	Baton Rouge, LA	(225) 219-5800*
US Fish & Wildlife Service Ecological Services Warren Lorenty – Field Response Coordinator Buddy Goatcher – Field Response Coordinator Russel Watson – Alternate Gerald Bodin – Alternate	825 Kaliste Saloom, Bldg II Lafayette, LA	(337) 291-3100 (337) 291-3126 (337) 280-1157 (after hrs) (337) 291-3125 (337) 886-0893 (after hrs) (337) 291-3116 (337) 988-6311 (after hrs) (337) 291-3118
Minerals Management Services		
New Orleans District Tim Lannigan Main Switchboard Alex Alvarado	New Orleans, LA	(504) 423-2505 (Office) (504) 423-5340* (504) 736-2544 (504) 736-2861 (504) 736-2547
Louisiana State Police	Baton Rouge, LA	(225) 925-6424*
United States Coast Guard MSO New Orleans Search & Rescue Team	New Orleans, LA New Orleans, LA	(504) 589-6196 (504) 846-5923* (504) 589-6225
Weather Service		
Alert Weather Service	Lafayette, LA	(337) 233-5565
A.H. Glenn & Assoc.	New Orleans, LA	(504) 241-2222
Ed Roy LTD.	Lafayette, LA	(337) 233-3816
Environmental Assessments		
Coastal Environments, Inc.	Baton, Rouge, LA	(225) 383-7455
LA Marine Mammal Stranding Network		(800) 442-2511
Marine Mammal Stranding Network	Baton Rouge, LA	(225) 765-2821
Oil Analysis		
Analysis Laboratories, Inc.	Metairie, LA	(504) 889-0710 (Off)
SPL	Baton, Rouge, LA	(225) 765-2821

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Available Technical Expertise – Louisiana (Cont'd)

Figure 9-2

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges**</i>		
(1) Cameron Prairie NWR	Bell City, LA	(337) 598-2216
(2) Lacassine NWR	Lake Arthur, LA	(337) 774-5923
(3) Rockefeller SWR	Grand Chenier, LA	(337) 538-2276
(4) Marsh Island WMA	New Iberia, LA	(337) 373-0032
(5) Atchafalaya Delta WMA	New Iberia, LA	(985) 882-2000
(6) Isle Dernieres – USGS Wetlands Research Center	Terrebonne, LA	(337) 266-8550
(7) Point e AuChien WMA	Montigut, LA	(985) 594-5494
(8) Wisner WMA	Baton Rouge, LA	(225) 765-2811
(9) Biloxi WMA	Baton Rouge, LA	(225) 765-2360
(10) Pearl River WMA	Baton Rouge, LA	(985) 646-6440
Louisiana SWM	New Iberia, LA	(337) 373-0032

** See reference numbers for WMA, NWR, SP locations on Louisiana area map

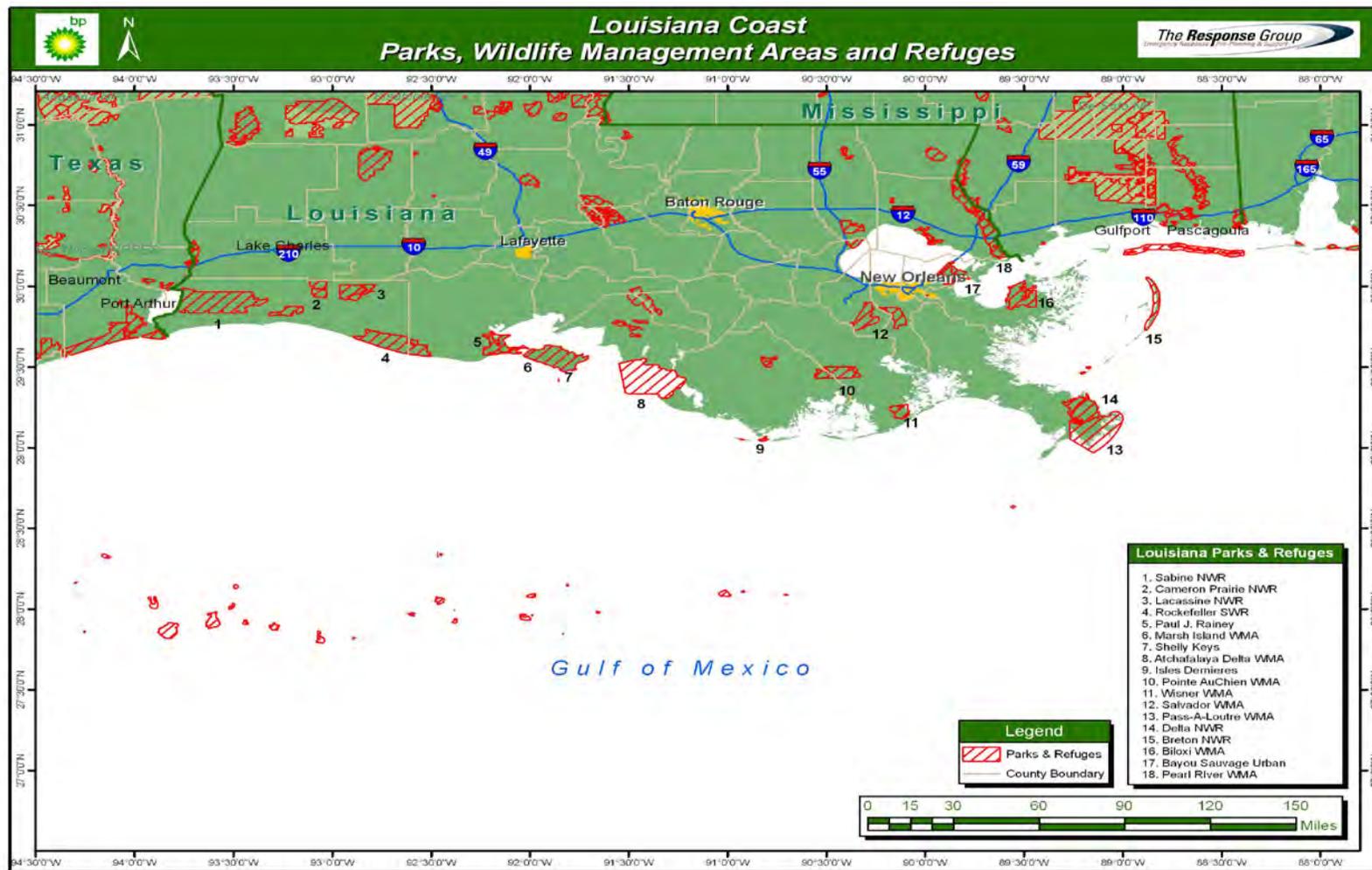
* Indicates 24 hour number



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Regional Oil Spill Response Plan – Gulf of Mexico

Section 9
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Technical
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 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 Next Review Date: 06/30/11

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 Document Administrator: Kristy McNease,
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Available Technical Expertise – Mississippi

Figure 9-3

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges**</i>		
(1) Buccaneer	Waveland, MS	(228) 467-3822
(2) Gulf Island National Seashore	Ocean Springs, MS	(228) 875-9057
(3) Mississippi Sandhill Crane NWR	Gautier, MS	(228) 497-6322
(4) Shepard State Park	Gautier, MS	(228) 497-2244
(5) Grand Bay NWR	Moss Point, MS	(228) 475-0765
Management Agency		(800) 222-6362*

** See reference numbers for WMA, NWR, SP locations on MS / AL area map

* Indicates 24 hour number

Available Technical Expertise – Alabama

Figure 9-4

Name	Address	Telephone
Alabama Dept. of Conservation Marine Resources Division	21055 Mildred Casey Dr Gulf Shores, AL	(251) 968-7576
Alabama Oil & Gas Board Headquarters Office Douglas Hall – So. AL Geologist	420 Hackberry Lane Tuscaloosa, AL	(205) 349-2852
Mobile Office Ralph Hellmich – Chief Geologist	4173 Commanders Drive Mobile, AL	(251) 438-4848 (251) 943-4326*
US Fish & Wildlife Service Ecological Services	1208 B Main St. Daphne, AL	(251) 441-5181
(6) Bon Secour NWR	Gulf Shores, AL	(251) 540-7720
Gulf State Park	Gulf Shores, AL	(251) 948-7275
Alabama Dept. of Environmental Management		(251) 450-3400
Alabama Emergency Management Agency		(800) 843-0699*

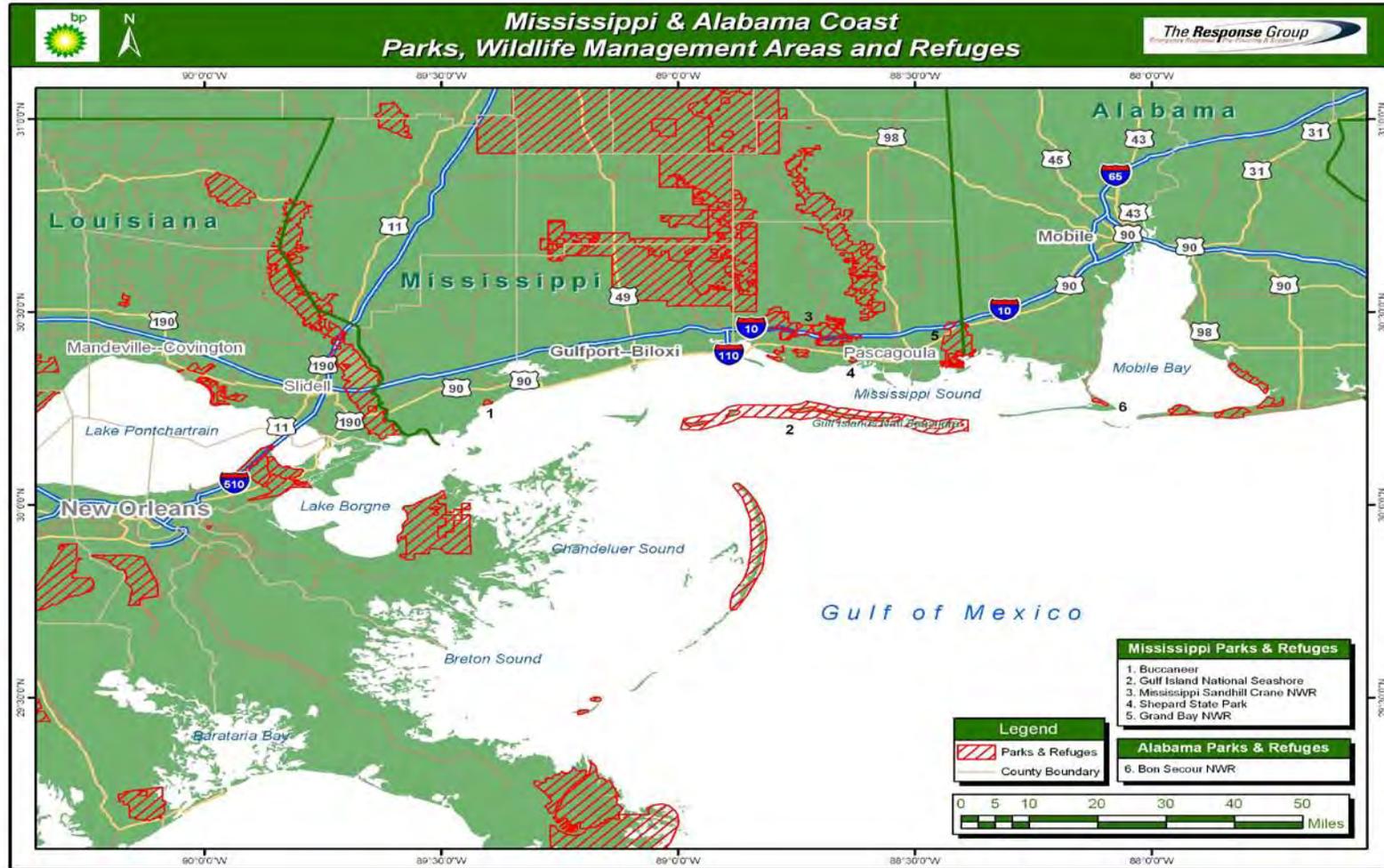
** See reference numbers for WMA, NWR, SP locations on MS / AL area map

* Indicates 24 hour number



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Available Technical Expertise – Florida

Figure 9-5

Name	Address	Telephone
Big Lagoon State Recreation Area	12301 Gulf Beach Hwy Pensacola, FL	(850) 492-1595
Florida Dept of Environmental Protection (Bureau of Emergency Response)	3900 Commonwealth Blvd. Tallahassee, FL 32399	(850) 245-2010*
<i>Florida Fish & Wildlife Conservation Commission (FWCC)</i>		
Southwest Florida	3900 Drane Field Road Lakeland, FL	(863) 648-3200*
North Central Florida	Route 7, Box 440 Lake City, FL	(888) 404-3922*
<i>National Park Service</i>		
Gulf Island National Seashore Dispatch	Gulf Breeze, FL	(850) 916-3010*
Escambia County Sheriff Dept.		(850) 436-9630*
<i>US Fish & Wildlife Service</i>		
Ecological Services John Hemming – Contaminate Assessment Specialist	1612 June Ave. Panama City, FL	(850) 769-0552 (850) 215-1435*
<i>Mammal Stranding Services</i>		
Marine Mammal Stranding Network NMFS SE Fisheries Science Center		(305) 862-2850
Florida State Warning Point		(800) 320-0519* (850) 413-9911*
<i>United States Coast Guard</i>		
Detached Duty Office	Panama City, FL	(850) 233-0366
<i>Wildlife Management Areas & Refuges**</i>		
(1) Gulf Island National Seashore	Gulf Breeze, FL	(850) 934-2600
(2) Saint Vincent NWR, Apalachicola Bay Aquatic Preserve & Apalachicola River & Bay National Estuarine	479 Market St. Apalachicola, FL	(850) 653-8808
(3) Saint Marks NWR	1255 Lighthouse Road St. Marks, FL	(850) 925-6121
(4) Lower Suwannee NWR	16450 NW 31 st Place Chiefland, FL	(352) 493-0238

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Available Technical Expertise – Florida

Figure 9-5

Name	Address	Telephone
<i>Wildlife Management Areas & Refuges (cont.)</i>		
(5) Cedar Keys NWR	16450 NW 31 st Place Chiefland, FL	(352) 493-0238
(6) Chassahowitski NWR	1502 SE Kings Bay Drive Crystal River, FL	(352) 563-2088
(7) Egmont Key NWR	Crystal River, FL	(352) 563-2088
(8) Pine Island NWR	Sanibel, FL	(239) 472-1100
(9) J.N. "Ding" Darling Wilderness	Sanibel, FL	(239) 472-1100
(10) Matlacha Pass NWR	Sanibel, FL	(239) 472-1100
(11) Ten Thousand Island NWR	Naples, FL	(239) 353-8442
(12) Majory Stoneman Douglas Wilderness	Homestead, FL	(305) 242-7700
(13) Great White Heron NWR	Big Pine Key, FL	(305) 872-0774
(14) National Key Deer Refuge	Big Pine Key, FL	(305) 872-2239
(15) Key West NWR	Big Pine Key, FL	(305) 872-0774
(16) Dry Tortugas National Park	Key West, FL	(305) 242-7700
(17) Crocodile Lake NWR	Key Largo, FL	(305) 451-4223
(18) Biscayne National Park	Homestead, FL	(305) 230-1144
Saint Andrew State Recreation Area & State Park Aquatic Preserve	7255 Hwy 90 East Milton, FL	(850) 233-5140
Crystal River NWR	1502 SE Kings Bay Drive Crystal River, FL	(352) 563-2088
Saint Martins Marsh Aquatic Preserve	3266 N. Sailboat Ave Crystal River, FL	(352) 563-0450
Steinhatchee WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Fort Pickens State Aquatic Preserve	7255 Hwy 90 E Milton, FL	(850) 983-5359
Alligator Harbor Aquatic Preserve	350 Carroll St. Eastpoint, FL	(850) 670-4783
Saint Joseph Bay Aquatic Preserve	350 Carroll St. Eastpoint, FL	(850) 670-4783
Saint Joseph Peninsula State Park	8899 Cape San Blas Road Port St. Joe, FL	(850) 227-1327
Aucilla WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Gulf Hammock WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525

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Available Technical Expertise – Florida (continued)

Figure 9-5

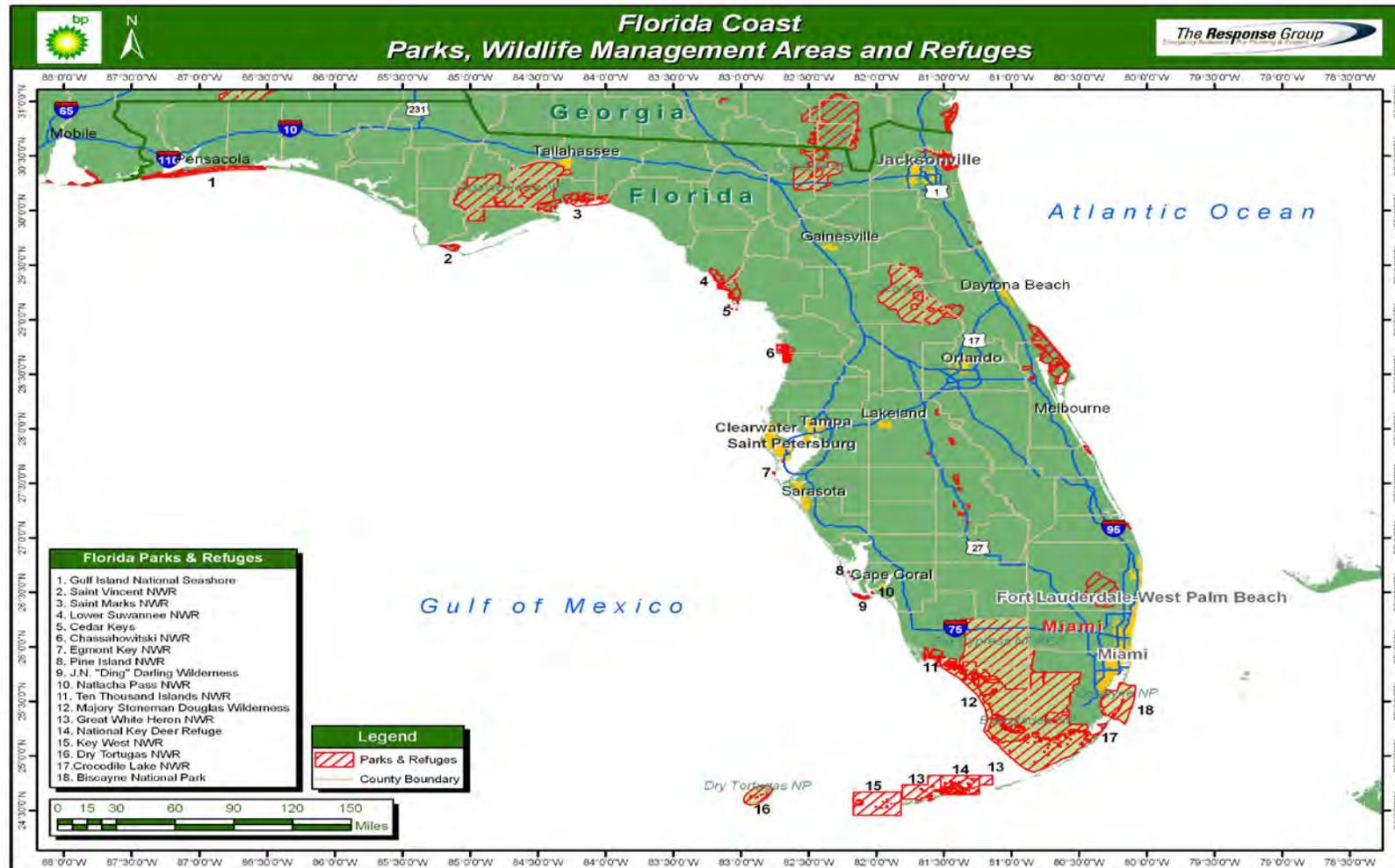
Name	Address	Telephone
<i>Wildlife Management Areas & Refuges (cont.)</i>		
Tide Swamp WMA	Route 7, Box 440 Lake City, FL	(904) 758-0525
Big Bend Segrasses Aquatic Preserve	3266 N. Sailboat Ave. Crystal River, FL	(352) 563-0450
Point Washington WMA	3911 Hwy 2321 Panama City, FL	(850) 265-3676

** See reference numbers for WMA, NWR, SP locations on Florida area map



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AVAILABLE TECHNICAL EXPERTISE – GULF COAST

Figure 9-6

NAME	ADDRESS	TELEPHONE
International Bird Rescue & Research Center Jay Holcomb – Executive Dir Home Mobile James Lewis – Admin Mgr.	4369 Cordelia Road Fairfield, CA	(707) 207-0380* (707) 429-4052 (707) 249-4870*
National Park Service	Atlanta, GA	(404) 562-3123
NOAA Marine Mammal Stranding Network – SE Region Hotline		(877) 433-8299
Tri – State Bird Rescue Oil Spill Alert - Dr. Heidi Stout Oil Spill Alert – Sarah Tegtmeier	110 Possum Hollow Road Newark, DE	(302) 737-7241 (302) 218-7371* Cell (800) 710-0696* Pager (302) 363-5086* Cell (800) 710-0695* Pager
<i>US Dept of The Interior</i>		
Office of Env. Policy & Compliance Gregory Hogue – Regional Environmental Officer	75 Spring St., Suite 345 Atlanta, GA	(404) 331-4524 (404) 939-8454* Home (404) 909-0537* Cell
Office of Environmental Policy & Compliance Steve Spencer - Regional Environmental Officer	PO Box 26567 (MC-9) Albuquerque, NM	(505) 563-3572 (505) 249-2462*
<i>US Fish & Wildlife Service</i>		
Region IV Ecological Services Diane Beeman – Spill Response Coordinator	1875 Century Blvd. Ste 200 Atlanta, GA	(404) 679-7140 (404) 679-7094 (404) 895-7093* Pager

* Indicates 24 hour number



10. SPILL ASSESSMENT & VOLUME ESTIMATION

A. Locating a Spill

In the event of a significant release of oil, an accurate estimation of the spill’s total volume along with the spill location and movement is essential in providing preliminary data to plan and initiate cleanup operations. Generating the estimation as soon as possible will aid in determining:

•	Equipment and personnel required;
•	Potential threat to shorelines and/or sensitive areas as well as ecological impact; and
•	Requirements for storage and disposal of recovered materials.

As part of the initial response, BP will initiate a systematic search with aircraft, primarily helicopters, to locate a spill and determine the coordinates of the release. In the event weather prohibits use of aircraft, (both fixed wing and rotor) field boats may be utilized to conduct search operations.

Aircraft will also be utilized to photograph the spill on a daily basis, or more frequently if required, for operational purposes. The over flight information will assist with estimating the spill size and movement based upon existing reference points (i.e., oil rigs, islands, familiar shoreline features, etc.)

B. Determining the Size and Volume of a Spill

When a spill has been verified and located, the priority issue will be to estimate and report the volume and measurements of the spill as soon as possible. Spill measurements will primarily be estimated by using coordinates, pictures, drawings, and other information received from helicopter or fixed wing over flights.

Oil spill volume estimations may be determined by direct measurements or by calculations based upon visual assessment of the color of the slick and information related to length and width that can be calculated on existing charts. The appearance of oil on water varies with the oil’s type and thickness as well as ambient light conditions. Oil slick thicknesses greater than approximately 0.25 mm cannot be determined by appearance alone.



Direct measurements are the preferred method for determining the volume of a spill. Measurements can be obtained by:

•	Gauging the tank or container to determine volume lost
•	Measuring pressure lost over time
•	Determining the pump or spill rate (GPM) and elapsed time

Visual assessment for determining the volume of oil based on slick information begins with understanding the terminology listed below:

•	Sheen – oil visible on the water as a silvery <u>sheen</u> or with <u>tints of rainbow colors</u> . This is the smallest thickness of oil.
•	Dark colors – visible with dark colors (i.e., <u>yellowish brown</u> , <u>light brown</u>) with a <u>trace of rainbow color</u> but is not black or dark brown.
•	Black/Dark Brown – fresh oil after initial spreading will have a <u>black</u> or very <u>dark brown</u> color. This is the largest thickness of non emulsified oil.
•	Mousse – water-in-oil emulsion which is often <u>orange</u> to <u>rust colored</u> . It is thick and viscous and may contain 30% oil.

Several natural weathering processes occur which diminish the severity of the spill depending upon the composition of the oil. Natural weathering processes include the following:

•	Dispersion
•	Dissolution
•	Emulsification
•	Evaporation

Factors listed in **Figure 10-1 & 10-2** will be used to estimate the volume of oil in a spill unless an accurate amount is known by other means. Estimated spill volumes should be rounded off to avoid the misconception of a precise determination.



C. Predicting Spill Movement

Real time oil spill trajectory models predict the movement of spilled oil on water as well as identifying potential shoreline impact areas and other environmentally and ecologically sensitive areas.

The Response Group, Inc. in Houston, TX, is the primary resource providing BP with predictions of both the movement of oil on water and potential impact areas. The Response Group is available on a 24 hour/day basis at (281) 880-5000 (Office) or (713) 906-9866 (Cellular). The Response Group relies on a number of sources that provide real time data in conjunction with condition variables in order to track and predict spill movement throughout the duration of an incident. Trajectory model results will be transferred to BP personnel via fax or by modem directly into BP's computer system. Weather forecasts, buoy data, and National Weather Bureau satellite imagery may be collected from internet services or by contacting the National Weather Service as listed below:

•	Gulf of Mexico website: http://www.nws.noaa.gov/om/marine/zone/gulf/gulfmz.htm Slidell, LA (504) 589-2808
•	Houston/Galveston, TX Area (281) 337-5074
•	Brownsville, TX (956) 504-1432 Austin/San Antonio, TX (830) 606-3617
•	Miami, FL (305) 229-4550

The National Oceanic and Atmospheric Administration (NOAA) is another available resource that can provide oil trajectories. GNOME (General NOAA Operational Modeling Environment) is the oil spill trajectory model used by OR&R Emergency Response Division (ERD) responders during an oil spill. ERD trajectory modelers use GNOME in Diagnostic Mode to set up custom scenarios quickly. In Standard Mode, anyone can use GNOME (with a Location File) to:

- Predict how wind, currents, and other processes might move and spread oil spilled on the water.
- Learn how predicted oil trajectories are affected by inexactness ("uncertainty") in current and wind observations and forecasts.
- See how spilled oil is predicted to change chemically and physically ("weather") during the time that it remains on the water surface.

For more information, contact Charlie Henry, the NOAA Scientific Support Coordinator for Texas, Louisiana, Mississippi, Alabama and the Florida Panhandle at (504) 589-4414.



Trajectory models can be run with predicted weather information used as input over a several hour period. The Response Group offers the following services from the office and remote locations:

- ✓ Oilmap Trajectory Modeling program
- ✓ General NOAA Oil Modeling Environment
- ✓ Scripps/MMS Oceanographic Data
- ✓ Scripps SEA Current Information
- ✓ MMS Buoy Information
- ✓ NOAA Ship Drift Information
- ✓ Overflight GPS Positioning Data
- ✓ ETA's to Shoreline
- ✓ Offshore Response Plans
- ✓ Biological Resources in the path of the slick

BP personnel can initiate the trajectory mapping process by submitting a trajectory request form, **Figure 10-3**, as soon as the following information is available:

- wind speed & direction
- current speed & direction
- sea state
- spill volume
- continuous or instantaneous release
- type of oil (API gravity)
- latitude & longitude (spill site)
- duration of spill
- direction of spill movement
- date & time of incident
- air & water temperature
- source of spill
- high tide & low tide

Trajectory model results may be updated periodically depending upon revised surveillance information and the latest weather updates.

D. Monitoring and Tracking the Spill Movement

Surveillance of the spill movement throughout the incident is essential to bringing response operations to a successful conclusion. BP will maintain the overflight and trajectory modeling programs to monitor and predict the movement of oil until spill response operations are completed.

Surveillance operations can be continued both day and night, and in inclement weather, through the use of infrared sensing cameras capable of detecting oil on water. Information from the infrared cameras can be downloaded to a computer and printed out on a chart and/or recorded on videotape.

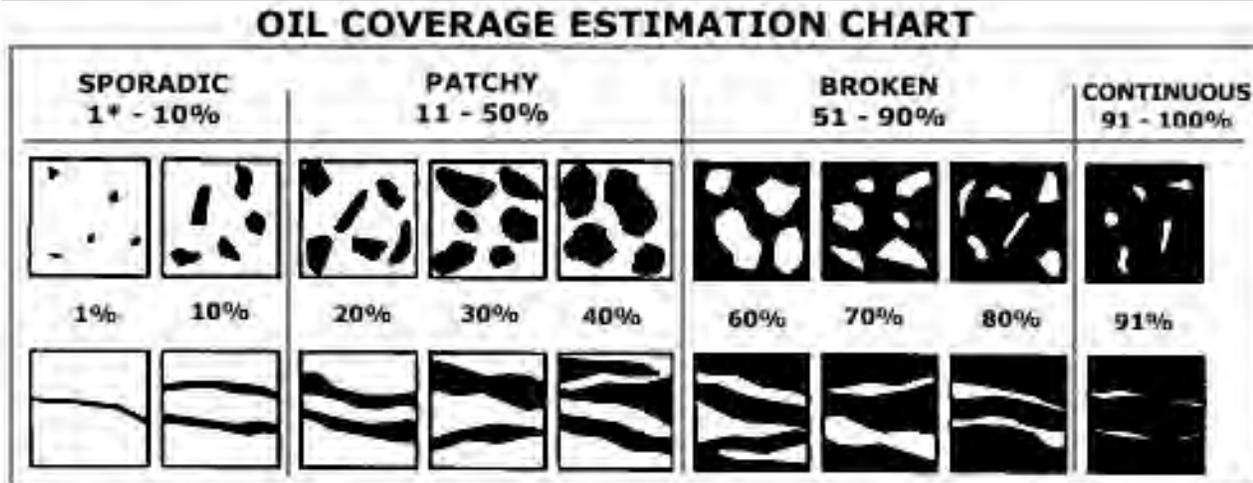


Oil Thickness Estimations				
Standard Term	Approx. Film Thickness		Approx. Quantity of Oil in Film	
	Inches	Mm		
Barely Visible	0.0000015	0.00004	25 gals/mile ²	44 liters/km ²
Silvery	0.000003	0.00008	50 gals/mile ²	88 liters/km ²
Slight Color	0.000006	0.00015	100 gals/mile ²	176 liters/km ²
Bright Color	0.000012	0.0003	200 gals/mile ²	351 liters/km ²
Dull	0.00004	0.001	666 gals/mile ²	1,168 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.

- Spill Volume Estimation Procedure**
1. Estimate dimensions (length x width) of the spill in miles. Multiply length times width to calculate area covered by oil in square miles
 2. Multiply each area calculated in (1) by the appropriate factor from the thickness estimation table (above) and add the parts together

Oil Coverage Estimation Chart **Figure 10-1**



*TRACE = <1%

** From Office of Response & Restriction, National Ocean Service, National Ocean & Atmospheric Administration



Oil Volume Estimation Chart

Figure 10-2

<p>1. To establish the area affected by pollution.</p> <ul style="list-style-type: none"> • Determine spill size (use aircraft if possible). • Draw an imaginary box around the oil. • Measure the length and width of the box (5,280 feet = 1 mile). • Multiply the length x width = (a) m² 																																																																
<p>2.) Extent of Oil Coverage</p> <ul style="list-style-type: none"> • Envision the oil pushed together into one part of the box. • Estimate % of box containing oil = (b) % coverage. 	<table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding-right: 10px;">100</td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td rowspan="5" style="padding-left: 10px; vertical-align: middle;">= ___ % coverage (b)</td> </tr> <tr> <td>80</td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td>60</td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td>40</td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td>20</td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table>	100						= ___ % coverage (b)	80						60						40						20																																					
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20																																																																
<p>3.) Multiply estimated area (a) x estimated coverage (b) = (c) total m²</p>	<p>___ mi² x ___ % coverage = ___ total mi²</p> <p>(a) (b) (c)</p>																																																															
<p>4.) Appearance of Oil:</p> <ul style="list-style-type: none"> • Estimate the percent of the oil matching each color under appearance. Enter that number in the percentage blank (e.g. 50% dull, 30% brightly colored, 20% slightly colored). • Enter total mi² (Item c). • Multiply % appearance x gal/mi² x mi² for each appearance. • Enter sum for total gallons. 	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">ESTIMATION TABLE</th> </tr> <tr> <th>Appearance</th> <th>%</th> <th>x</th> <th>Gal/ mi²</th> <th>x</th> <th>mi² (c)</th> <th>= Gal.</th> </tr> </thead> <tbody> <tr> <td>Barely Visible</td> <td></td> <td>X</td> <td>25</td> <td>X</td> <td></td> <td>=</td> </tr> <tr> <td>Silvery</td> <td></td> <td>X</td> <td>50</td> <td>X</td> <td></td> <td>=</td> </tr> <tr> <td>Slightly Colored</td> <td></td> <td>X</td> <td>100</td> <td>X</td> <td></td> <td>=</td> </tr> <tr> <td>Brightly Colored</td> <td></td> <td>X</td> <td>200</td> <td>X</td> <td></td> <td>=</td> </tr> <tr> <td>Dull</td> <td></td> <td>X</td> <td>666</td> <td>X</td> <td></td> <td>=</td> </tr> <tr> <td>Dark</td> <td></td> <td>X</td> <td>1332</td> <td>x</td> <td></td> <td>=</td> </tr> <tr> <td colspan="6" style="text-align: center;">Total Gallons</td> <td></td> </tr> </tbody> </table>	ESTIMATION TABLE							Appearance	%	x	Gal/ mi ²	x	mi ² (c)	= Gal.	Barely Visible		X	25	X		=	Silvery		X	50	X		=	Slightly Colored		X	100	X		=	Brightly Colored		X	200	X		=	Dull		X	666	X		=	Dark		X	1332	x		=	Total Gallons						
ESTIMATION TABLE																																																																
Appearance	%	x	Gal/ mi ²	x	mi ² (c)	= Gal.																																																										
Barely Visible		X	25	X		=																																																										
Silvery		X	50	X		=																																																										
Slightly Colored		X	100	X		=																																																										
Brightly Colored		X	200	X		=																																																										
Dull		X	666	X		=																																																										
Dark		X	1332	x		=																																																										
Total Gallons																																																																
<p>5.) Final Calculation (divide gallons by 42):</p>	<p>___ Total gal/42 = ___ bbls</p>																																																															



BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 10
Spill Assessment
& Volume
Estimation

Spill Trajectory Request Form

Figure 10-3

		SPILL TRAJECTORY REQUEST FORM	
THE RESPONSE GROUP		OFFICE: (281) 880-5000	24-HOUR: (800) 651-3942
FAX: (281) 880-5005		EFAX: (281) 596-6976	EMAIL: trajectory@responsegroupinc.com
ROY BARRETT		MOBILE: (713) 906-9866	HOME: (281) 213-8840
JEFF HILL		MOBILE: (832) 493-3153	HOME: (979) 865-9260
COMPANY INFORMATION	Company Name: _____		
	Company Contact Name: _____		
	Phone #: _____		
	Alternate # (ie: Mobile, Pager): _____		
	Fax #: _____		
Email Address: _____			
SPILL SITE INFORMATION	Source Type (Circle): Platform/Well Pipeline Vessel Facility		
	Source Name & Location (Name/Area/Block): _____		
	Latitude: _____° _____' _____"		Longitude: _____° _____' _____"
	Date & Time of Incident (mm/dd/yy): ____/____/____ : ____ (Military)		
	Type of Product (ie: Medium Crude): _____		API Gravity _____
	Estimated Volume of Release: _____ Barrels or Gallons		
	Continues Release Rate: _____ bbls/hr		How Long: _____ hrs.
WEATHER CONDITIONS	Wind Direction (From the): _____		Wind Speed: _____ MPH or Knots
	Current Direction (Toward): _____		Current Speed: _____ MPH or Knots
	Air Temperature: _____° C or F		Water Temperature: _____° C or F
	High Tide: _____		Low Tide: _____
	Weather Forecast: _____		
OVERFLIGHT INFORMATION	Date & Time of Overflight (mm/dd/yy): ____/____/____ : ____ (Military)		
	Leading Edge Location:		
	Latitude: _____° _____' _____"		Latitude: _____° _____' _____"
	Trailing Edge Location:		
	Latitude: _____° _____' _____"		Latitude: _____° _____' _____"
	Length: _____ Feet / Yards / Miles		Width: _____ Feet / Yards / Miles
	Slick Appearance (Percent & Estimated Length & Width)		
	Barely Visible: ____% L x W: _____		Silvery: ____% L x W: _____
	Slight Color: ____% L x W: _____		Bright Color: ____% L x W: _____
Dull: ____% L x W: _____		Dark: ____% L x W: _____	
THE RESPONSE GROUP 13231 CHAMPION FOREST DRIVE, SUITE 310 HOUSTON, TX 77069			

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11. RESOURCE IDENTIFICATION

A. Tools to Pre-identify Ecological and Environmental Resources at Risk

Pre-identification of existing resources at risk is a tool which greatly improves the chance of success for initial response efforts. Resources at risk may include but are not limited to the following:

- Marine sensitivities
- Beaches
- Waterfowl
- Shoreline resources
- Marshes
- Marinas/Piers
- Populated areas
- Environmental sensitivities

BP has a number of reference materials available including copies of Area Contingency Plans (ACP's), reference maps, MMS/ESI biological and historical data, and documents identifying sensitive shoreline areas along the Gulf Coast shoreline.

1) Contacting Appropriate Resource Agencies

Refer to **Section 9, Available Technical Expertise**, for information concerning contacting resource agencies.

2) Real-Time Trajectory Modeling

BP will activate The Response Group to run trajectory models in the event of an oil spill release in order to determine shoreline areas with the highest probability of being affected. The Response Group has developed shoreline response guides and other environmental sensitivity maps for the entire Gulf of Mexico area. Additionally, environmental sensitivity data from ACPs, US Fish & Wildlife Service, RPI, NOAA, and departments of Environmental Quality/Protection from adjoining states along the Gulf of Mexico will be consulted as necessary. The above data details information concerning Wildlife Management Area's, wildlife refuges, sanctuaries, and state parks including location, contact, and access information.



3) MMS Oil Spill Risk Analysis Model (OSRAM)

The Minerals Management Service Oil Spill Risk Analysis Model (OSRAM) simulates oil spill trajectories based upon input of historical data for oceanic winds and currents. The OSRAM estimates the probability of shoreline impact from a spill originating from a known location within a given amount of travel time. Impact areas will be analyzed for varying degrees of environmental and ecological resource risks.

4) State Tools Available

- **All Coastal States**
 - **Area Contingency Plans**
One Gulf Plan
 - **US Fish & Wildlife Maps**
 - **NOAA ESI Coastal Sensitivity Atlas (Maps)**

- **Texas**
 - **Texas General Land Office Maps - TOOLKIT**
Oil Spill Planning and Response Atlas
<http://www.glo.state.tx.us/oilspill/>

- **Louisiana**
 - **Louisiana Oil Spill Coordinators Office – Map Atlas**
Oil Spill Planning and Response Mapping
<http://atlas.lsu.edu/>

- **Mississippi & Alabama**
 - **Geographic Specific Tactical Response Plan**
Mississippi Area GSTRP
Mobile Area GSTRP
<http://www.uscg.mil/d8/sectmobile/gstrp/mobile/Playbook3NE.pdf>

- **Florida**
 - **Area Contingency Plans**
Sector St. Petersburg ACP & Geographic Response Plans
<http://ocean.floridamarine.org/ACP/STPACP/StartHere.html>



B. Sensitive Area Identification

1. Geographical Areas (See Figure 11-1 for Land Contact Areas)

The following shoreline and near shore geographical areas are generally areas of concern and require consideration for response actions dependent upon weather conditions and other variables:

- Offshore open water areas
- Barrier islands
- Tidal inlets
- Sheltered shorelines
- Exposed shorelines
- Saltwater marshes
- Vegetated shorelines (mangrove swamps, sea grass beds, etc.)
- Sand/mud flats
- Sand beaches

Ideally, responding to an oil spill in open water is preferred to prevent oil from reaching sensitive onshore resources. A damage assessment, which is the basis for all subsequent action will be conducted prior to initial response efforts to evaluate damage and will include the following information:

- Type of oil spilled
- Amount of oil spilled
- Degree to which oil covers vegetation
- Season
- Degree of oil weathering before impact
- Degree to which oil penetrates the sediment surface

2. Sensitive Habitats and Species

Environmental Sensitivity Index (ESI) maps identify habitats and assign a priority classification based on the physical and biological character of the different coastal types, which in turn controls the persistence of oil, severity of impact, and ease of cleanup.

Information related to the various shoreline types along with the rankings for the highest priority habitats is shown in **Figure 11-2**. Information derived from databases compiled from case histories of fish, wildlife, and human-use resources considered the most sensitive to oil spills is presented in **Figure 11-3**.



The protection of waterfowl and wildlife during the course of an oil release is an essential element in every spill response operation. Federal and state natural resource trustees will be notified in the event that a wildlife habitat may be affected by a spill event. Information concerning methods to protect waterfowl and wildlife is shown in **Figure 13-2**.

For fish and wildlife resources, the emphasis is on habitats where:

- Large numbers of animals are concentrated in small areas, such as bays where waterfowl concentrate during migration or overwintering
- Animals come ashore for birthing, resting, or molting, such as marine mammal haul outs and pupping areas
- Early life stages are present in somewhat restricted areas or in shallow water, such as anadromous fish streams and turtle nesting beaches
- Habitats are very important to specific life stages or migration patterns such as foraging or overwintering
- Specific areas are known to be vital sources for seed or propagation
- The species are on Federal or state threatened or endangered lists
- A significant percentage of the population is likely to be exposed to oil.

Human-use resources of concern are listed as the final elements in **Figure 11-3**. Areas of economic importance, like waterfront hotels, should also be considered when establishing resource protection priorities. Human-use resources are most sensitive when:

- Archaeological and cultural sites are located in the intertidal zones
- Oiling can result in significant commercial losses through fouling, tainting, or avoidance because of public perception of a problem
- The resource is unique, such as a historical site
- Oiling can result in human health concerns, such as tainting of water intakes and/or subsistence fisheries

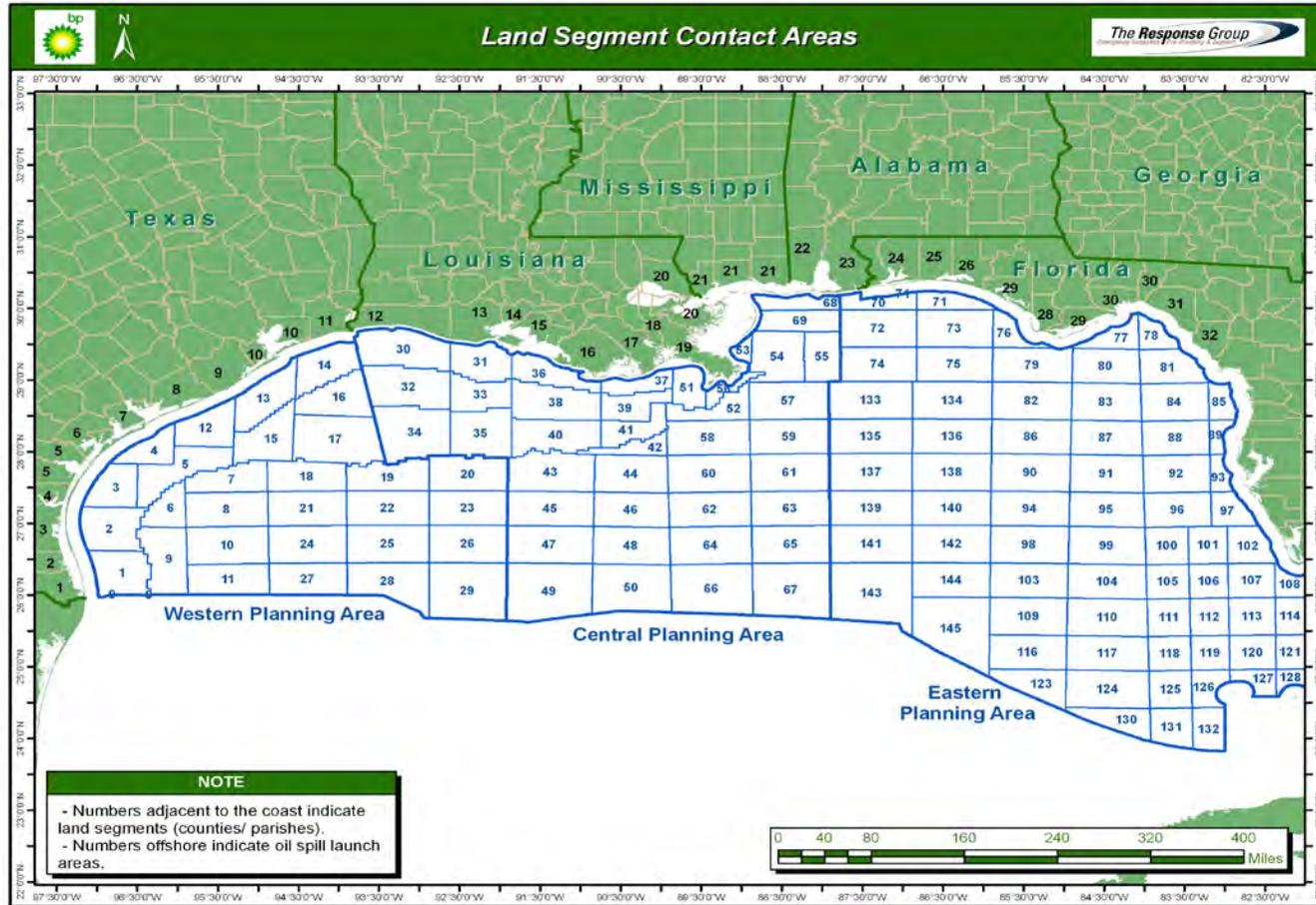


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Land Segment Contact Areas and Offshore Launch Block Cross Reference Map

Figure 11-1



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ESI Shoreline Habitat Rankings

Figure 11-2

Ranked from least (ESI-1) to most (ESI-10) sensitive	
ESI No.	Shoreline Type
1	Exposed rocky cliffs
	Exposed vertical seawalls made of concrete, woods, or metal
2	Exposed wave-cut platforms in bedrock
	Scards in clay with associated wave-cut platforms
	Exposed bluffs in unconsolidated sediments with associated wave-cut platforms
3	Fine-grained sand beaches
4	Coarse-grained sand beaches
5	Mixed sand and gravel beaches
	Mixed sand and shell beaches
6	Gravel beaches
	Riprap
7	Exposed tidal flats
8	Sheltered vertical rocky shores
	Sheltered bedrock ledges
	Sheltered rubble slopes
	Sheltered solid man-made structures (bulkheads, etc.)
9	Sheltered tidal flats
	Sheltered low banks
10	Salt-water marshes
	Fresh-water marshes (herbaceous vegetation)
	Fresh-water swamps (woody vegetation)
	Mangroves

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Sensitive Biological & Human-Use Resources

Figure 11-3

Resource Category	Sub-Category	Comments
<i>Habitats</i>	<i>Shoreline type</i>	<i>ESI or other geomorphological class</i>
	Submerged aquatic vegetation	All types of subtidal grass beds
	Kelp beds	
	Coral reefs	
	Worm beds	
<i>Fish & Wildlife Resources</i>		
Marine Mammals	Whales	Seasonal use areas; migration routes
	Dolphins	Populated concentration areas
	Sea Lions	Haul outs
	Seals	Haul outs
	Sea Otters	Population concentration areas
	Manatees	Population concentration areas
	Walruses	Haul outs
Terrestrial Mammals	Water-associated species (e.g., Otter, Beaver Mink)	Concentrate areas
	Endangered Species	Important habitats as identified by resource agency
Birds	Waterfowl	Nesting/concentration areas; Wintering/migration areas
	Seabirds	Rookeries; wintering concentration areas
	Shorebirds	Nesting sites; migration stopover sites; wintering concentration areas
	Gulls/Terns	Nesting sites
	Raptor	Nest sites; important forage areas
	Other migratory species	Nest sites; important stopover sites; wintering concentration areas; important habitats, as identified by resource agency
Fish	Anadromous fish	Spawning streams
	Beach spawners	Spawning beaches
	Nursery areas	Areas for all near shore species; Areas of unique concentrations

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Sensitive Biological & Human-Use Resources (continued)

Figure 11-3

Resource Category	Sub-Category	Comments
Fish	Endangered species	Import habitats, as identified by resource agency
Shellfish	Mollusk	Seed beds; leased/abundant beds
Crustaceans	Shrimp	Nursery areas
	Crabs	Nursery areas; high concentration sites
	Lobster	Nursery areas; high concentration sites
Reptiles/Amphibians	Water-associated species (e.g., sea turtles, alligators)	Nursery areas: high concentration sites
Plants	Endangered species	Important habitats, as identified by resource agency
Human-Use Resources		
Recreation	Beaches	High-use recreational beaches
	Marinas	
	Boat ramps	
	Diving areas	
	Boating/fishing	High-use recreational areas
	State parks	
Management Areas	Marine sanctuaries & national parks	
	Wildlife refuges	
	Preserves/reserves	Areas of biological concern
Resource	Subsistence	Designated subsistence harvest sites
Extraction	Commercial fisheries	Concentration areas
	Water intakes	Industrial; drinking water; irrigation
	Aquaculture sites	Water intakes/pens/ponds
	Other resource extraction sites(e.g., log storage)	
Cultural	Archaeological sites	
	Native lands	Culturally important sites/reservations
	Historical sites	Water-associated sites

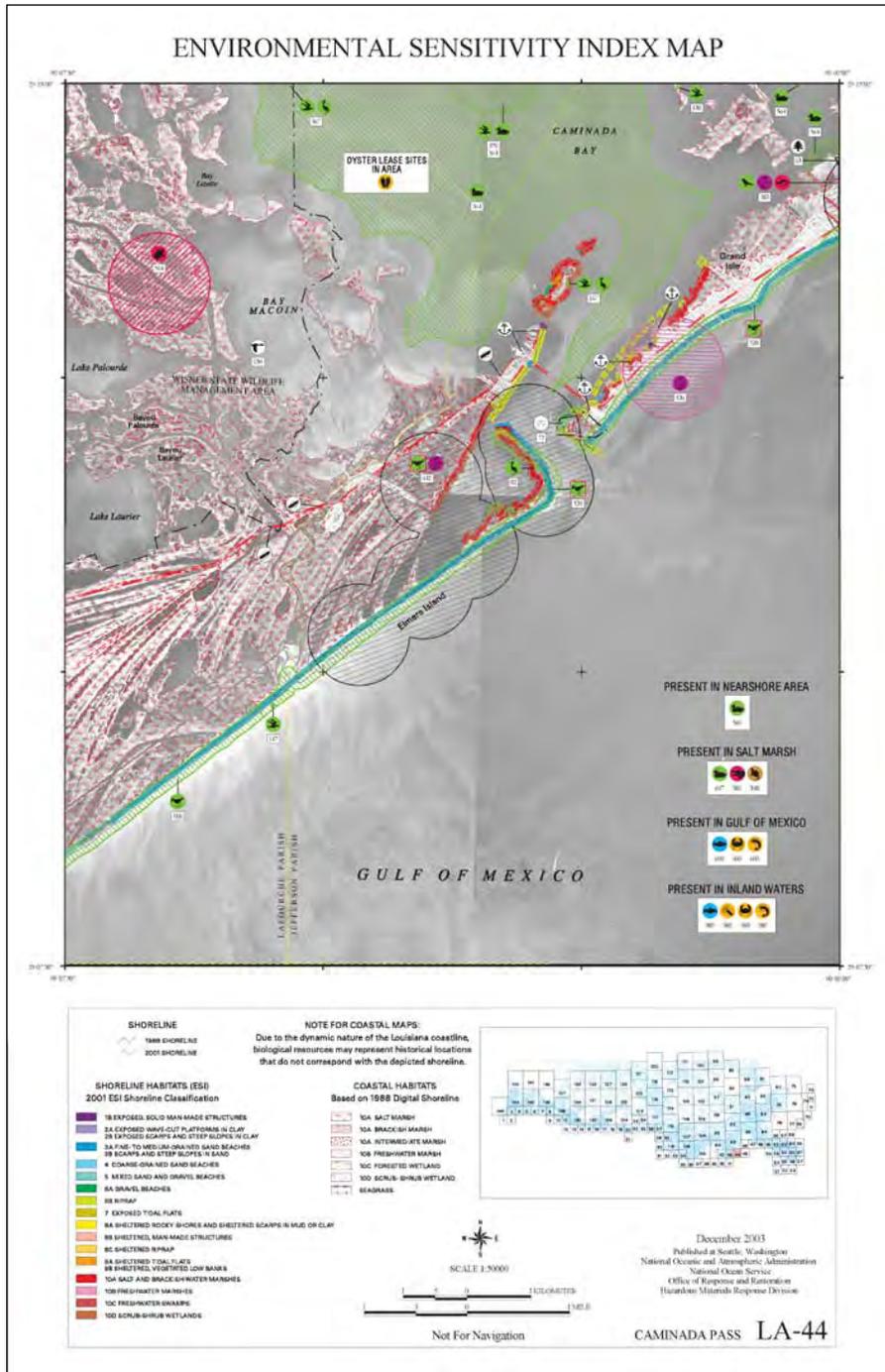
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Example ESI Map / Data

Figure 11-4



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Example ESI Map / Data (continued)

Figure 11-4

Louisiana ESI: ESIMAP 44

BIOLOGICAL RESOURCES:

BIRD:		S F Conc.	J F M A M J J A S O N D												Westing	Migrating	Molting
RAR#	Species		J	F	M	A	M	J	J	A	S	O	N	D			
85	Black-crowned night-heron	173 IND (180-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Great egret	345 IND (180-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Reddish egret	0 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Shoveler	246 IND (10-99AV)	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	
	Tricolored heron	245 IND (10-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	White ibis	34 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-APR	-	-	
139	Willet's Wren	47 IND (80-99AV)	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
147	Black-belted woodpecker	72 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	JAN-SEP	-	-	
	Least tern	18 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	
153	Black-crowned night-heron	2 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Florida's Wren	4 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Great egret	13 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-	
	Laughing gull	111 IND (10-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	
	Wading egret	4 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Shoveler	44 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	Tricolored heron	54 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	IND-APR	-	-	
	White ibis	3 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-APR	-	-	
	White-faced or Glossy ibis	3 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-APR	-	-	
367	Laughing gull	128 IND (10-99AV)	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	
	Tricolored heron	18 IND (90-99AV)	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
442	Tricolored heron	T	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
450	Orchard waterthrush		X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
453	State passenger-pigeon bird		X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
529	Shoveler		X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
530	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	
544	Least tern	30 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
549	Least tern	49 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
647	American coot	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American osprey	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Blue-winged teal	18 TO 19 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Campylopus	TRANSIENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Osprey	1 TO 12 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Green-winged teal	09 TO 14 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Hooded merganser	08 TO 1 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least tern	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Mallard	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Mottled duck	2 TO 14 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	JAN-SEP	-	-	
	Northern pintail	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Northern shoveler	1 TO 12 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Ring-necked duck	08 TO 10 IND/EG NI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	

FISH:		S F Conc.	J F M A M J J A S O N D												Spawning	Eggs	Larvae	Juveniles	Adults
RAR#	Species		J	F	M	A	M	J	J	A	S	O	N	D					
580	Avalanche croaker	5	5	5	5	5	5	4	4	5	5	5	5	IND-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Bay anchovy	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Black drum	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Croaker	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Florida pompano	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Grand snook	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Gray snapper	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Gulf menhaden	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Red drum	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Red snapper	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Sheepshead	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Silver snook	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Southern flounder	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Spanish mackerel	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Spot	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Spot seatrout	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Striped mullet	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Tarpon	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
609	Weakfish	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Florida pompano	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Gulf menhaden	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Red drum	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Sheepshead	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Southern flounder	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Spanish mackerel	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Spot seatrout	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Striped mullet	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	
	Tarpon	5	5	5	5	5	5	5	5	5	5	5	5	APR-APR	APR-APR	APR-APR	APR-APR	-	

HABITAT:		S F Conc.	J F M A M J J A S O N D											
RAR#	Species		J	F	M	A	M	J	J	A	S	O	N	D
126	Wetland plant		X	X	X	X	X	X	X	X	X	X	X	
141	Wetland plant		X	X	X	X	X	X	X	X	X	X	X	
183	Wetland plant		X	X	X	X	X	X	X	X	X	X	X	

INVERTEBRATE:		S F Conc.	J F M A M J J A S O N D												Spawning	Eggs	Larvae	Juveniles	Adults
RAR#	Species		J	F	M	A	M	J	J	A	S	O	N	D					
580	Bay squid	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Blue crab	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Brown shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Gulf stone crab	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Pink shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	White shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
600	Blue crab	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Brown shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Florida stone crab	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Gulf stone crab	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	Pink shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	
	White shrimp	5	5	5	5	5	5	5	5	5	5	5	5	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	-	

REPTILE:		S F Conc.	J F M A M J J A S O N D												Westing	Hatching	Interesting	Juveniles	Adults
RAR#	Species		J	F	M	A	M	J	J	A	S	O	N	D					
381	American alligator	TRANSIENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

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12. STRATEGIC RESPONSE PLANNING

A. Management by Objectives – Determining Priorities & Strategies

Incident objectives are statements of guidance developed by the Incident Commander/Unified Command to provide the necessary direction to Operations & Planning to determine the appropriate strategies and the tactical direction of resources. They are based on realistic assumptions and expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet flexible enough to allow for strategic and tactical alternatives. For information concerning the development of goals, objectives, and strategies refer to **Figure 12-1**.

Incident strategies involve the general plan or direction selected to accomplish incident objectives.
Incident tactics relate to deploying and directing resources during an incident to accomplish the desired objective.
Unified Command objectives consider the plan of action in priority order.
Planning and Operations strategies describe how to plan for the accomplishment of the objectives.
Operations tactics describes how to use resources during each operational period to implement strategies.

B. Typical Objectives and Response Strategies/Tactics

It is essential to establish incident objectives and strategies as soon as possible in order to mitigate spill consequences. Examples of typical response objectives and strategies may be reviewed in **Figure 12-2**.

C. ICS Planning Cycle

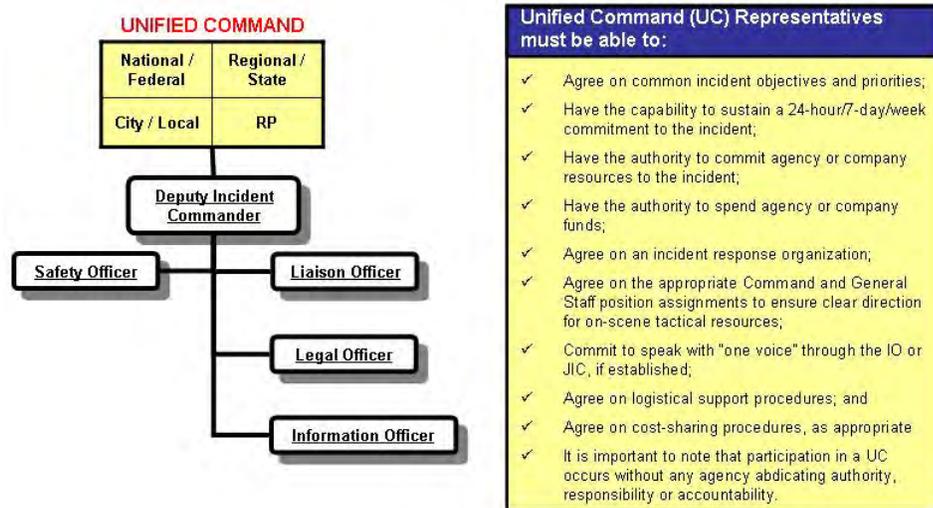
The Incident Commander is responsible for setting the operational period as well as scheduling various meetings and shift schedules. It should be noted that short term responses may be coordinated by using ICS 201 Forms. The Planning Cycle Matrix presented in **Figure 12-3** illustrates a typical planning cycle time period from setting objectives to IAP approval.



D. Best Response Concept

Best Response depends on the best efforts of the three components of the National Response System.

1. **Companies** - those responsible for producing, handling, storing, and transporting oil and hazardous materials, and for arranging for mitigation of an accidental discharge or release;
2. **Contractors** - those who carry out response and cleanup in the event of a discharge or release; and
3. **Government** - those Federal, state, and local agencies with oversight responsibility for the safe handling of oil and hazardous materials and for ensuring protection of the public and the environment in the event of a discharge or release.



Best Response protects our national interests. Each component must act responsibly, effectively, and cooperatively to accomplish the shared goal of minimizing the consequences of pollution incidents. Finally, Best Response demands that a response community build an ability to measure its own capability to achieve success. To do this kind of self-assessment the community must be able to recognize success.

Figure 12-3c illustrates the relationship between the planning cycle and concepts of best response.



Response Strategy Matrix

Figure 12-1

The checklist and matrix below will assist in developing goals, objectives, and strategies.

Step	Action		
1	Use the matrix below to assist in developing objectives and priorities. Priorities are situation dependent and influenced by many factors. Safety of life is always the highest priority. Concerns may or may not be present. Concerns should be considered in every incident.		
	Concerns	Issues	Criteria to Meet
	People/Public	General safety exposure	Overall objectives must be: Attainable Measurable Flexible
		Personal Protective Equipment	
		Slips, trips, falls, drowning	
		Reaction/Perception	
	Environment	Sensitive Areas	
		Special interests	
		Resources at risk	
	Property	Fire	
Contamination			
Flooding			
Source Control			
Economic	Industry		
	Tourism		
	Stakeholders		
2	Provide guidance to Command and general staff on goals, objectives and strategies		
3	Develop the general objectives for the IAP		
4	Approve and authorize implementation of the IAP for each operational period.		
5	Approve the internal and external information dissemination strategy developed by the Information Officer (IO). <i>Examples: web pages, emails to media/other agencies/supervisors/ stakeholders</i> Note: The IC should emphasize the role that the IO plays in keeping the members of the response organization informed as well as the press and stakeholders.		



Response Objectives & Strategies

Figure 12-2

Strategic Objective VS Tactical Objective	
INCIDENT OBJECTIVES – Statements of guidance and direction necessary for the selection of appropriate strategies, and the tactical direction of resources. Incident objectives are based on realistic expectations of what can be accomplished when all allocated resources have been effectively deployed. Incident objectives must be achievable and measurable, yet flexible enough to allow for strategic and tactical alternatives.	
STRATEGIES – The general plan or direction selected to accomplish incident objectives.	
TACTICS – Deploying and directing resources during an incident to accomplish the desired objective.	
OBJECTIVES (Unified Command) = What you plan to do in priority order.	
STRATEGIES (Planning & Operations) = How you plan to accomplish objectives.	
TACTICS (Operations) = How you use resources during each operational period to implement strategies.	
Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
1. Ensure the Safety of Citizens & Response Personnel	<ul style="list-style-type: none"> • Identify hazard(s) of released material • Establish site control (hot zone, warm zone, cold zone and security) • Consider evacuations as needed • Setup first aid/triage stations • Establish vessel and/or aircraft restrictions • Monitor air in impacted areas • Setup decontamination stations • Develop site safety and health plan for response personnel • Ensure safety briefings are conducted
2. Control the Source	<ul style="list-style-type: none"> • Complete emergency shutdown • Conduct firefighting • Initiate temporary repairs • Transfer and/or lighter product • Conduct salvage operations as necessary



Response Objectives & Strategies (continued) Figure 12-2

Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
3. Manage Coordinated Response Efforts	<ul style="list-style-type: none"> • Complete or confirm notifications • Establish a unified command organization and facilities (command post, etc) • Ensure local & tribal officials are included in response organization • Initiate emergency response Incident Action Plan (IAP) • Ensure mobilization and tracking of response resources • Account for personnel and equipment • Complete documentation • Evaluate planned response objectives vs. actual response (debrief)
4. Maximize Protection of Environmentally Sensitive Areas	<ul style="list-style-type: none"> • Implement pre-designated response strategies • Identify resources at risk in impacted and potential impacted areas • Track pollutant movement & develop trajectories/plume modeling • Develop/implement appropriate protection tactics • Prioritize sensitive areas to be protected
5. Contain and Recover Spilled Material	<ul style="list-style-type: none"> • Deploy oil containment boom at the spill source • Deploy containment boom at appropriate collection areas • Conduct open water skimming with vessels • Evaluate time-sensitive response strategies (i.e., dispersants, <i>in-situ</i> burning) • Develop disposal plan
6. Recover and Rehabilitate Injured Wildlife	<ul style="list-style-type: none"> • Establish oiled wildlife reporting hotline • Conduct injured wildlife search and rescue operations • Notify wildlife agencies and accredited wildlife rescue services • Setup primary care unit for injured wildlife • Operate wildlife rehabilitation center • Initiate citizen volunteer effort for oiled bird rehabilitation
7. Remove Oil from Impacted Areas	<ul style="list-style-type: none"> • Conduct appropriate shoreline cleanup efforts • Clean oiled structures (piers, docks, etc.) • Clean oiled vessels
8. Minimize Economic Impacts	<ul style="list-style-type: none"> • Consider tourism, vessel movements and local economic impacts throughout response • Protect public and private assets as resources permit • Establish damage claims process



Response Objectives & Strategies (continued)

Figure 12-2

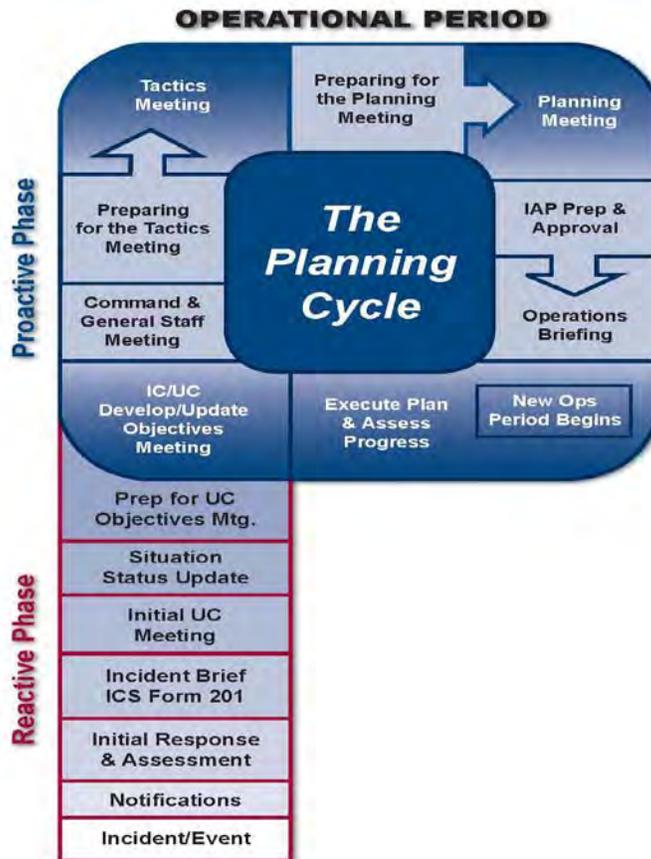
Objectives (Strategic) What you plan to do in priority order	Strategies (Tactical) How do you plan to accomplish objectives
9. Keep Stakeholders Informed of Response Activities	<ul style="list-style-type: none"> • Provide forum to obtain stakeholder input and concerns • Provide stakeholders with details of response actions • Identify stakeholder concerns and issues and address as practical • Provide elected officials details of response actions
10. Keep the Public Informed of Response Activities	<ul style="list-style-type: none"> • Provide timely safety announcements • Establish a Joint Information Center (JIC) • Conduct regular news briefings • Manage news media access to spill response activities • Conduct public meetings as appropriate
11. Minimize Business Interruption	<ul style="list-style-type: none"> • Identify business interruption and potential business interruption issues • Notification of joint venture partners • Assist with internal/external investigations



Planning Cycle Matrix – Planning “P” **Figure 12-3a**

This Incident Action Plan (IAP) development process should follow the planning cycle below and the ICS 201 briefing forms will serve as the first IAP. The Planning Section Chief is responsible for ensuring the IC understands the planning cycle and the time needed to produce the IAP. The IC/UC must set objectives early in the planning cycle during the IC/UC Objectives Meeting in order for the IAP process to be successful. The meeting schedule for the first cycle may vary significantly based on incident complexity and length of operational period.

1. **Incident Brief ICS Form 201** – Documentation of the initial response using ICS 201 forms.
2. **Initial Unified Command Meeting** - Provides UC officials with an opportunity to discuss and concur on important issues prior to the Command and General Staff Meeting.
3. **IC/UC Objectives Meeting** - The UC will identify/review and prioritize incident objectives.
4. **Command & General Staff Meeting** - IC/UC will present their decisions and management direction (Objectives) to the Command and General Staff Members.
5. **Tactics Meeting** – Operations & Planning will outline work assignments (tactics) and required resources to accomplish objectives using ICS 215.
6. **Planning Meeting** - This meeting provides an overview of the tactical plan to achieve commands current direction, priorities and objectives to the Unified Command.
7. **IAP Approval Meeting** – Meeting to permit timely IC/UC review and approval of the Incident Action Plan.
8. **Operations Briefing** - Briefing to present the IAP to the Operations Section oncoming shift supervisors for implementation in the field.





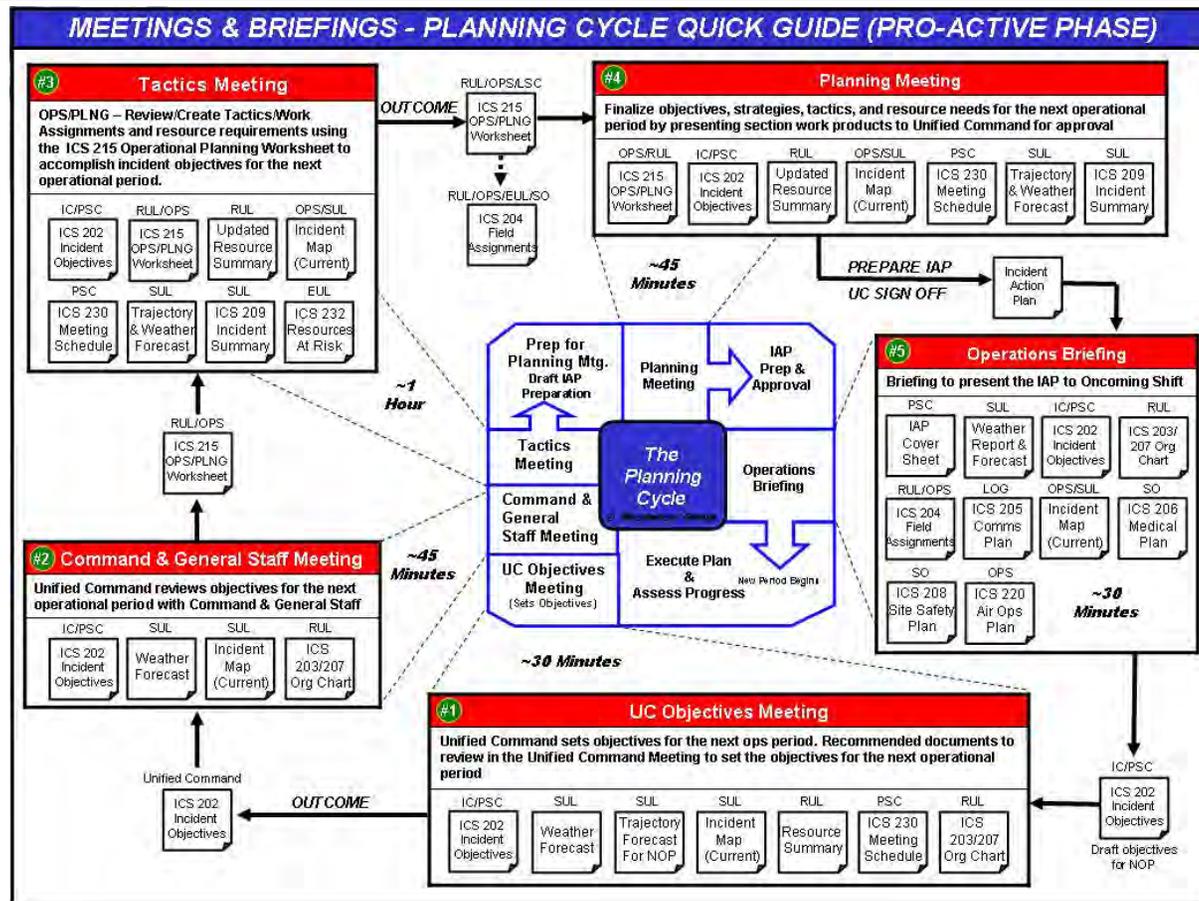
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Regional Oil Spill Response Plan – Gulf of Mexico

Section 12
Strategic
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Planning

Planning Cycle Matrix – Planning Cycle

Figure 12-3b



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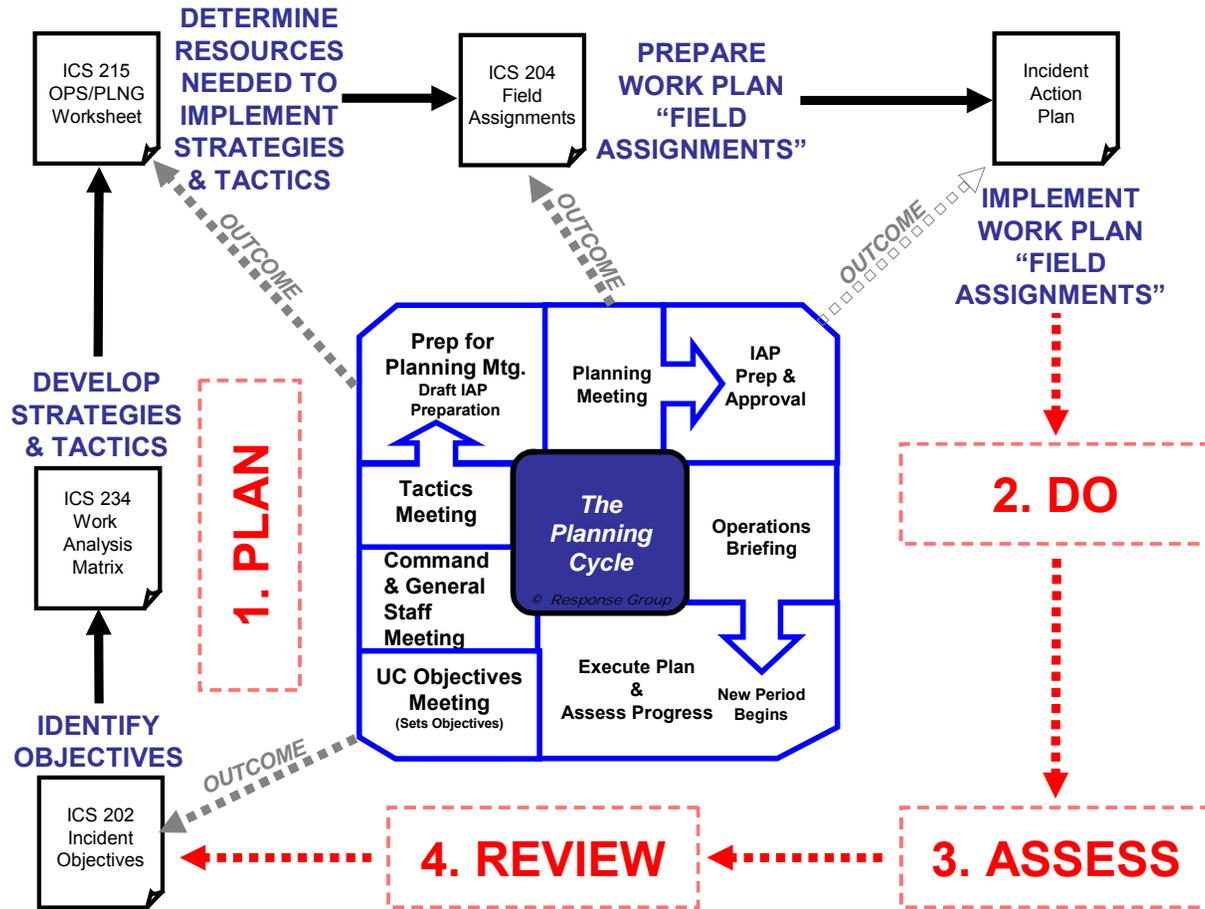
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Regional Oil Spill Response Plan – Gulf of Mexico

Planning Cycle Matrix – Best Response/Planning Cycle Integration

Figure 12-3c



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13. RESOURCE PROTECTION METHODS

The waters of the Gulf of Mexico are ecologically rich and are used for recreation, fishing, bird migration, wildlife refuge, state parks, etc. Conversely, the same waters contain highly industrialized areas, oil transfer facilities, water intakes, and oil and chemical transfers by barge and deep-draft vessels. Plants, marine life, and animals that inhabit this environment are in a delicate state of balance under natural conditions. The introduction of oil into the environment may disrupt this balance. Therefore, it is vital to protect environmentally sensitive areas from the harmful effects of an oil release. Many of the organisms living in the Gulf have a limited ability to cope with changes in their environment. Therefore, it is important to keep spills contained in open water and minimize shoreline exposure to the extent possible.

The focus of response efforts will be to protect human life and health, sensitive environmental and ecological areas, and economic entities. Recommended practical steps to take toward achieving these efforts are:

•	Stop further pollution at the source
•	Contain the pollutant discharge released
•	Remove the product

A. Shoreline Protection Methods – Offshore/ Nearshore/Shoreline

In the event that open water techniques do not recover or remove all of the oil, plans will be developed by the Operations & Planning sections to implement shoreline protection strategies. These strategies will be used to protect marine and shoreline resources and areas of special environmental or economical importance as identified in the ACP and the Shoreline Response Guides developed by The Response Group. Offshore/Shoreline protection methods are detailed in **Figure 13-1 & 13-2**.

If shoreline/nearshore areas are to be impacted, it might be viable to take advantage of natural collection areas. These are areas where a released substance will accumulate with limited assistance from human intervention. Some such areas might include (but are not limited to): sand bars, land cuts, solid piers and debris piles. Generally, if these areas are accessible to removal equipment, they provide a convenient and economical location for recovery.



B. Waterfowl and Wildlife Protection

Anytime oil is spilled on water, methods to protect waterfowl and wildlife will be considered. Although these methods may be used in open waters, a considerable amount of effort will be spent providing waterfowl and wildlife protection in their living habitats along shorelines and natural nesting areas. Some of the methods that will be considered for waterfowl and wildlife protection are detailed in **Figure 13-3**.



Offshore/Shoreline Protection Methods

Figure 13-1

Method	Applicability	Limitations
Protection/Exclusion Booming	Used to exclude the spill from impacting a sensitive resource. Various techniques may be used depending on the conditions at the time of the incident.	Can be successful in excluding all types of oil in water sea states of 0-3 feet. Used in all sizes of spills.
Containment Booming (“V”, “J”, “U”, & Teardrop)	Used to contain or trap oil to prevent further spreading. Various techniques may be used depending on the conditions at the time of the incident.	Can be successful in containing all types of oil in water sea states of 0-3 feet. Used in all sizes of spills.
Diversion Booming	Boom deployed at an angle to approaching slick to divert oil from entering waterways, canals, water intakes or other environmental sensitive areas.	Wave heights less than 1ft. protects shoreline resources (i.e., tidal inlets, salt marshes, sand/mudflats, et c.). Used in all sizes of spills.
Sorbent Booming & Padding	Used to protect sensitive areas or collect oil in calm water. Also used in conjunction with hard boom at recovery or natural collection sites to prevent sheen and recover oil. Can also be used to contain & recover oil in shallow tidal and marsh areas (passive recovery).	Used mainly in calm waters. Can absorb all types of oil.
Chemical Dispersion	Application of chemical to disperse oil from surface into suspension in the water column. May be applied by airplane or boat. Requires regulatory agency approval.	Limited by weather conditions, thickness and volatility of oil. Must be conducted within first several hours of spill.
Mechanical Diversion	Pumps can be used to spray water at spills to direct oil to desired areas for collection or away from areas to be protected.	Used mainly in calm waters on small spills. Can be used on all types of oils.
Mechanical Recovery	Oil spill I.D. boats and skimming systems with various containment booming methods. Shallow water vessels and skimming systems used to recover oil collected by various containment booming methods.	Can be successful in removing all types of oil from water in sea states of 0-3. Used in all sizes of spills.



Offshore/Shoreline Protection Methods (continued)

Figure 13-1

Method	Applicability	Limitations
<i>In-Situ Burning</i>	Burning oil to prevent spreading	Limited by weather conditions, thickness and volatility of oil. Must be conducted within first several hours of spill.
<i>Natural Dispersion</i>	Allow natural elements (i.e., wave action, evaporation, etc.) to remove oil from water.	No limitations. Used in circumstances of small and large spills that pose no threat to sensitive areas.



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Regional Oil Spill Response Plan – Gulf of Mexico

Section 13
Resource
Protection
Methods

Protection Methods Versus Physical Setting

Figure 13-2

Physical Resources	Oil Recovery		Floating Barriers					Solid Barriers					Other			
	Open-Water Skimming	Netting	Shallow water Boom	Inland Boom	Harbor Boom	Open-Water Boom	Sorbent Boom	Earthen Barrier	Underflow Dam	Overflow Dam	Trench	Flowgate	Locks	Air/Water Streams	Bubble Barriers	Improvised Barrier
V = Viable Method C = Conditional Method - = Not Applicable																
Open-Water	V	C	-	-	C	V	-	-	-	-	-	-	-	-	-	-
Open Exposed Shoreline	V	C	-	-	C	V	-	C	-	-	C	-	-	-	-	-
Sheltered Shoreline	C	C	C	V	C	C	-	V	-	-	C	V	-	C	C	C
Rivers and Banks	C	-	V	V	C	-	-	C	-	-	C	-	C	-	-	C
Entrances	V	C	-	C	V	V	-	-	-	-	C	-	-	-	-	-
Salt Water Marshes and Creek Mouths	-	-	V	C	-	-	C	V	C	C	C	C	-	-	-	V
Freshwater Marshes and Swamps	-	-	V	C	-	-	C	C	C	-	C	-	-	-	-	C
Tidal Inlets	C	-	V	C	C	-	-	C	-	-	-	-	-	-	-	-
Intermittent Creeks	-	-	V	C	-	-	C	V	C	C	C	C	-	-	-	V
Streams	-	-	V	C	-	-	C	C	C	C	C	-	-	-	-	C
Vegetated Shorelines	-	-	C	V	C	-	C	-	-	-	-	-	-	-	-	-

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Regional Oil Spill Response Plan – Gulf of Mexico

Section 13
Resource
Protection
Methods

Protection Methods Versus Physical Setting (continued)

Figure 13-2

Physical Resources	Oil Recovery		Floating Barriers					Solid Barriers					Other			
	Open-Water Skimming	Netting	Shallow water Boom	Inland Boom	Harbor Boom	Open-Water Boom	Sorbent Boom	Earthen Barrier	Underflow Dam	Overflow Dam	Trench	Flowgate	Locks	Air/Water Streams	Bubble Barriers	Improvised Barrier
Sand/Mud Flats	C	-	V	C	C	-	C	C	-	-	-	-	-	-	-	C
Submerged Habitats and Resources	C	-	C	C	C	C	-	-	-	-	-	-	-	-	-	C

V = Viable Method
C = Conditional Method
- = Not Applicable

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Protection-Methods for Waterfowl And Wildlife

Figure 13-3

Method	Applicability	Limitations
Noise Devices (propane cannons, guns, alarms, horns, etc.)	Devices used to provide noise to keep birds away from impact areas may be used onboard boats or at shorelines	Long term use reduces results. Birds/wildlife may become acclimated to sound; not practical in nesting areas.
Vehicles and Boats	Noise from motors and horns may keep birds and wildlife away from impact areas.	Limited use in shoreline areas; not practical in nesting areas.
Over flights	Noise from airplanes and helicopters may keep birds and wildlife away from impact areas.	Limited by weather conditions; not practical in nesting areas.
Fencing and Netting	Fencing and netting may be placed around impact areas to keep nestlings from entering.	Limited to areas accessible for fencing and netting
Remove Sea Turtle Nests	Remove nests from impact areas within 2 days	Element of time is essential
Notify spill response personnel in boats to watch for manatees	Conduct safety meeting to discuss safety issues concerning wildlife including manatees	Poor light & inclement weather conditions
Helium filled balloons stationary figures	Place balloons & figures in impact areas	
Play recorded sounds of alarmed birds	Play recorded sounds of alarmed birds in impact areas	



14. MOBILIZATION AND DEPLOYMENT METHODS

A. Overview

BP puts emphasis on a rapid response to releases of all sizes through a coordinated effort by company Spill Management Team members, government agencies, OSRO's, and other associated support services. Pre-planned response objectives and strategies have been developed and are used in training to ensure an effective and timely response to an oil spill of any magnitude.

B. General Response Strategy

Upon notification of a major oil release from a BP facility or operation in the Gulf of Mexico, BP response personnel will make the initial notifications to all involved government agencies, OSRO's, and associated support services.

BP has a contract in effect with National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) as well as other OSRO's, to ensure availability of personnel, services, and equipment on a 24 hour per day basis. The OSRO's can provide personnel, equipment, and materials in sufficient quantities and recovery capacity to respond effectively to oil spills from the facilities and leases covered by this plan, including the worst case discharge scenarios. The list of Oil Spill Removal Organizations (OSRO's) may be reviewed in **Figure 7-7**. NRC has oil spill response equipment located throughout the Gulf Coast area. Much of the equipment is in road-ready condition and available to be transported on short notice to the nearest predetermined staging areas. The "road-ready condition" ensures the shortest possible response times for transporting equipment to the staging areas. Major equipment locations for NRC can be found in **Figure 14-1**.

Response times for NRC Vessel of Opportunity Skimming Systems (VOSS) from various locations in their area of coverage are illustrated in the following maps and schedules. The response times used to calculate the ETA of the skimming vessels include the following criteria:



<ul style="list-style-type: none"> • 	<p>Procurement Time Time required after “Authorization to Proceed” is received to assemble response equipment and operation personnel, load the needed/ requested equipment, and prepare to get underway toward the spill event.</p> <p>A two (2) hour procurement time has been factored in to the travel for the land based VOSS packages. A four (4) hour procurement of Supplemental Offshore Vessels and Portable Storage Tanks will be achieved during the land transport of the VOSS units. This is seldom a limiting factor in the actual response.</p>
<ul style="list-style-type: none"> • 	<p>Load-out Time The time required to transfer the response equipment to a Supplemental Offshore Vessel of opportunity for carriage to the spill site.</p> <p>A two (2) hour load-out time must be added to the tables as the time needed to transfer VOSS packages and Storage Tanks to the Supplemental Offshore Vessels.</p>
<ul style="list-style-type: none"> • 	<p>Travel Time This is the over-the-road time calculated according to the Planning standards mandated by OPA-90. It includes an average speed of 35 miles per hour in a straight line over the road. Water based travel is calculated using 8 knots for barges and 12 knots for vessels.</p>

The maps illustrated in **Figure 14-2** indicate travel distances from various staging areas in increments of 6 and 12 hours. **Figure 14-3** details estimated travel times between equipment locations and staging areas (For both land and water travel).

C. Transportation of Personnel, Equipment and Resources

The mobilization and deployment of personnel, equipment, and materials to predetermined staging areas in an expedient manner is essential to the success of the spill response operation. In the event of a substantial oil release into Gulf waters, BP, in cooperation with state police officials, will establish “protected” land routes in an effort to minimize traffic congestion during the movement of personnel, equipment, and materials to staging areas. “Protected” land routes may also be considered for transporting accumulated waste (i.e., oiled debris, sorbents, etc.) from collection areas to designated waste management, treatment, and/or disposal sites.



Transportation resources will include trucking, marine vessels, and aircraft (fixed wing and rotor). Trucking types may include vacuum trucks, flatbeds, pickups, semi-tractor trailers, etc. Aircraft will include airplanes, helicopters and seaplanes. Marine vessels will include I.D. boats, tug boats, utility vessels, shallow water barges, crew boats, johnboats, etc. A complete listing of transportation resources can be found in **Appendix F** to support land, air, and water transportation support during an emergency.

D. Staging Area List

In the event of a spill in Gulf waters, BP and the primary OSROs will identify one or more onshore staging areas based on spill location and direction of spill movement. Staging areas may be moved to alternate locations during the course of the response as conditions change (i.e., wind, current, etc.). Ideally, staging areas will have adequate parking, access to water (boat ramps, cranes, etc.), lighting, telephones, potable water, restrooms and building(s), as well as having a short route to the spill area(s).

BP has pre-identified staging areas along the Gulf Coast to expedite the process of identifying staging areas during an incident response. For a complete list, see **Figure 14-5**.



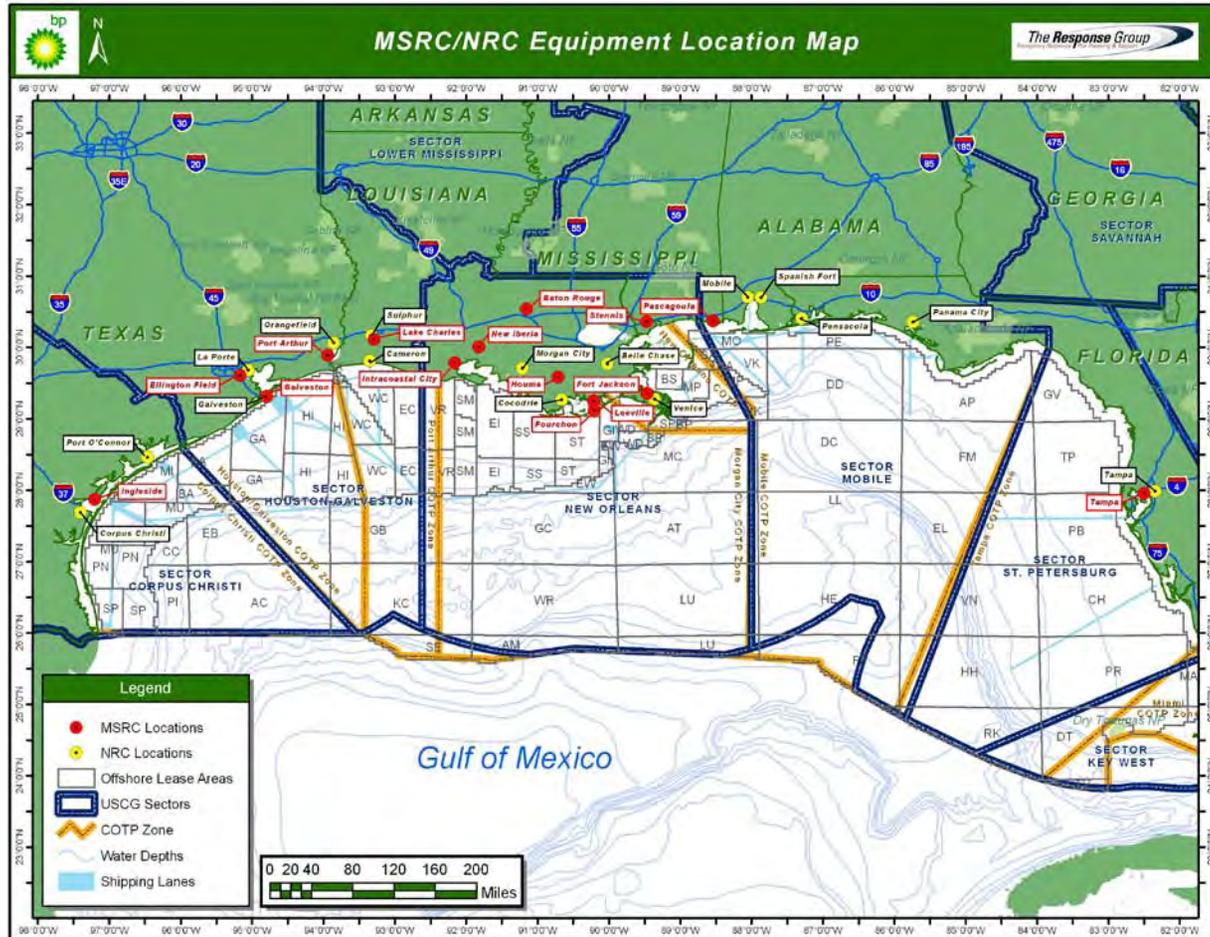
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Regional Oil Spill Response Plan – GOM Operations

Section 14
Mobilization and
Deployment
Methods

MSRC / NRC Equipment Location Map

Figure 14-1



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Pre-Staged Equipment & Gulf Coast Staging Area Transit Times Cross-Reference (Water) Figure 14-2

	Aransas Pass, TX	Port O'Connor, TX	Freeport, TX	Galveston, TX	Sabine Pass, TX	Cameron, LA	Morgan City, LA	Grand Isle, LA	Venice, LA	Theodore, AL
Equipment Pre-Staged Location	Gulf Coast Staging Areas (With transit time in hours)									
Corpus Christi, TX	1	7	6	7	8	10	13	15	16	19.5
La Porte, TX	7	2	4	3	4	5	8.5	11	12	14
Orangefield, TX	9	4	5.5	4	2.5	3	7	9	10	12
Sulphur, LA	12	7.5	8	7	5.5	4.5	4	6	7	9
Morgan City, LA	13.5	9	10	10	7	6	2	5	6	7
O'Fallon, MO	26	21	23	22	21	20	20	20	21	19
Ellisville, MO	26	21	22.5	22	20.5	20	20	20.5	20.5	18
Memphis, TN	31	26.5	27	26	24	23	20	18	17	14.5
Belle Chasse, LA	15	11	11.5	10	8	7.5	4	3	3.5	5.5
Spanish Fort, AL	19	14	15	14	12	11.5	8	6.5	6	2
Paducah, KY	25	20	21.5	20.5	19	18	17	18	17.5	15
Pensacola, FL	20	16	16	15	13	12.5	9	7	6.5	3
Panama City, FL	22	18	18.5	17.5	16	15	11	9	8	6
Tampa, FL	27.5	24	24.5	23.5	22	21	17.5	15	14	13
Jacksonville, FL	29.5	25.5	26	24	23	22	19	17	16	13.5
Savannah, GA	30.5	26	27	26	24	23	20	18	17	14
Fort Lauderdale, FL	45.5	44	41	40	36.5	35.5	31	31.5	30.5	24
Houma, LA	10	9	10	9.5	7.5	7	3	4.5	5	5.5
Lake Charles, LA	9	7	6	5	4	4	5	8	8	8
Galveston, TX	7	6.5	3.5	2	4.5	7	8.5	8.5	9	9

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Pre-Staged Equipment & Gulf Coast Staging Area Transit Times Cross-Reference (Land) Figure 14-3

Equipment Pre-Staged Location	Aransas Pass, TX	Port O'Connor, TX	Freeport, TX	Galveston, TX	Sabine Pass, TX	Cameron, LA	Morgan City, LA	Grand Isle, LA	Venice, LA	Theodore, AL
	Gulf Coast Staging Areas (With transit time in hours)									
Corpus Christi, TX	1 (21 mi)	3 (97.4 mi)	6 (178 mi)	8 (250 mi)	10 (306 mi)	11 (342 mi)	16 (493 mi)	20 (597 mi)	21 (630 mi)	22 (662 mi)
La Porte, TX	7 (222 mi)	6 (173 mi)	2 (62.6 mi)	1 (37.7 mi)	1 (85.4)	4 (121 mi)	9 (272 mi)	12.5 (376 mi)	14 (409 mi)	15 (442 mi)
Orangefield, TX	10 (311 mi)	9 (261 mi)	6 (171 mi)	5 (143 mi)	1 (32.1 mi)	2 (67.9 mi)	6 (185 mi)	10 (289 mi)	11 (322 mi)	12 (355 mi)
Sulphur, LA	11 (335 mi)	9.5 (286 mi)	6.5 (196 mi)	6 (168 mi)	2 (64.4 mi)	1.5 (47.8 mi)	5 (154 mi)	9 (258 mi)	10 (291 mi)	11 (324 mi)
Morgan City, LA	16 (487 mi)	14.5 (437 mi)	11.5 (347 mi)	11 (319 mi)	7 (216 mi)	5 (157 mi)	0	3.5 (105 mi)	5 (151 mi)	7 (212 mi)
O'Fallon, MO	37 (1,115 mi)	34.5 (1,033 mi)	34.5 (944 mi)	31 (931 mi)	29 (884 mi)	28 (853 mi)	25 (753 mi)	26 (777 mi)	26 (774 mi)	23.5 (705 mi)
Ellisville, MO	37 (1,098 mi)	34 (1,015 mi)	31 (927 mi)	30 (913 mi)	29 (866 mi)	28 (836 mi)	24.5 (735 mi)	25.5 (760 mi)	25 (756 mi)	23 (687 mi)
Memphis, TN	28 (851 mi)	27 (801 mi)	24 (711 mi)	23 (683 mi)	19 (580 mi)	18 (549 mi)	15 (449 mi)	16 (473 mi)	16 (470 mi)	13.5 (401 mi)
Belle Chasse, LA	19 (559 mi)	17 (509 mi)	14 (419 mi)	13 (391 mi)	10 (288 mi)	8.5 (257 mi)	1 (94.5 mi)	4 (119 mi)	2 (65.1 mi)	5 (142 mi)
Spanish Fort, AL	23 (678 mi)	21 (629 mi)	18 (539 mi)	17 (510 mi)	13.5 (407 mi)	12.5 (377 mi)	8 (234 mi)	9 (258 mi)	8 (229 mi)	1 (23.8 mi)
Paducah, KY	36 (1,069 mi)	30 (905 mi)	27 (815 mi)	29 (884 mi)	26 (781 mi)	25 (750 mi)	22 (650 mi)	22.5 (674 mi)	22.5 (671 mi)	20 (593 mi)
Pensacola, FL	24 (726 mi)	22.5 (677 mi)	19.5 (586 mi)	19 (558 mi)	15 (455 mi)	14 (425 mi)	9 (282 mi)	10 (306 mi)	9.5 (277 mi)	2.5 (71.6 mi)
Panama City, FL	28.5 (853 mi)	27 (804 mi)	24 (714 mi)	23 (686 mi)	19 (582 mi)	18 (552 mi)	14 (409 mi)	14.5 (433 mi)	13.5 (404 mi)	7 (199 mi)
Tampa, FL	35 (1,182 mi)	38 (1,133 mi)	35 (1,042 mi)	34 (1,014 mi)	30 (911 mi)	29 (881 mi)	25 (738 mi)	25.5 (762 mi)	25 (733 mi)	18 (528 mi)
Jacksonville, FL	36 (1,071 mi)	34 (1,022 mi)	31 (932 mi)	30 (904 mi)	27 (800 mi)	26 (770 mi)	21 (627 mi)	22 (651 mi)	21 (622 mi)	14 (417 mi)
Savannah, GA	40 (1,207 mi)	39 (1,158 mi)	36 (1,068 mi)	35 (1,040 mi)	31 (936 mi)	30 (906 mi)	25.5 (763 mi)	26 (787 mi)	25 (758 mi)	18.5 (553 mi)
Fort Lauderdale, FL	45.5 (1,366 mi)	44 (1,317 mi)	41 (1,226 mi)	40 (1,198 mi)	36.5 (1,095 mi)	35.5 (1,065 mi)	31 (922 mi)	31.5 (946 mi)	30.5 (917 mi)	24 (712 mi)
Ingleside, TX	1 (5 mi)	3 (82.5 mi)	5.5 (164 mi)	8 (244 mi)	10 (300 mi)	11 (336 mi)	16 (487 mi)	19 (591 mi)	20.8 (624 mi)	22 (657 mi)
Galveston, TX	7 (241 mi)	4.75 (166 mi)	1.5 (46 mi)	0	2.75 (92 mi)	3.75 (128 mi)	8 (279 mi)	11 (385 mi)	12 (417 mi)	13 (450 mi)
Port Arthur, TX	10 (292 mi)	8 (242 mi)	5 (152 mi)	4 (124 mi)	1 (14.4 mi)	2 (50.3 mi)	7 (200 mi)	10 (304 mi)	11 (337 mi)	12 (370 mi)
Lake Charles, LA	9.75 (340 mi)	9 (314 mi)	5.75 (203 mi)	4.75 (163 mi)	2 (69 mi)	1.5 (53 mi)	4 (143 mi)	7 (248 mi)	8 (280 mi)	9 (314 mi)

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Pre-Staged Equipment & Gulf Coast Staging Area Transit Times Cross-Reference (Land) (continued) Figure 14-3

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Equipment Pre-Staged Location	Gulf Coast Staging Areas (With transit time in hours)									
Baton Rouge, LA	16 (469 mi)	14 (419 mi)	11 (329 mi)	10 (301 mi)	7 (198 mi)	5.5 (167 mi)	2 (62.9 mi)	5.5 (159 mi)	5 (156 mi)	6 (188 mi)
Pascagoula, MS	21 (638 mi)	20 (588 mi)	17 (498 mi)	16 (470 mi)	12 (367 mi)	11 (336 mi)	6.5 (193 mi)	7 (218 mi)	6 (189 mi)	1 (26.9 mi)
Houma, LA	14.75 (517 mi)	14 (494 mi)	10.75 (379 mi)	10 (354 mi)	7 (245 mi)	6.25 (221 mi)	1 (35 mi)	2 (72 mi)	3.5 (124 mi)	5.25 (185 mi)

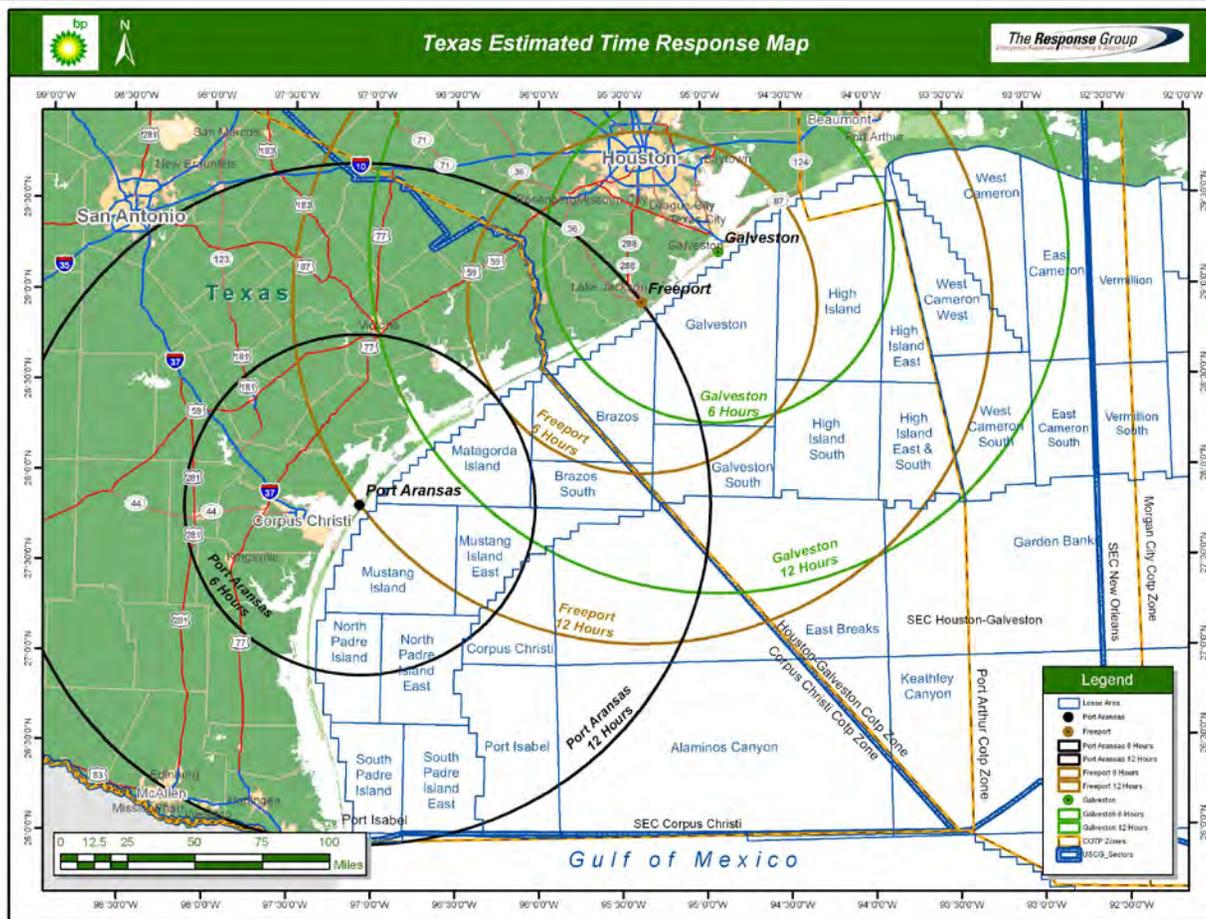


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Section 14 Mobilization and Deployment Methods

Texas Estimated Response Time Map

Figure 14-4



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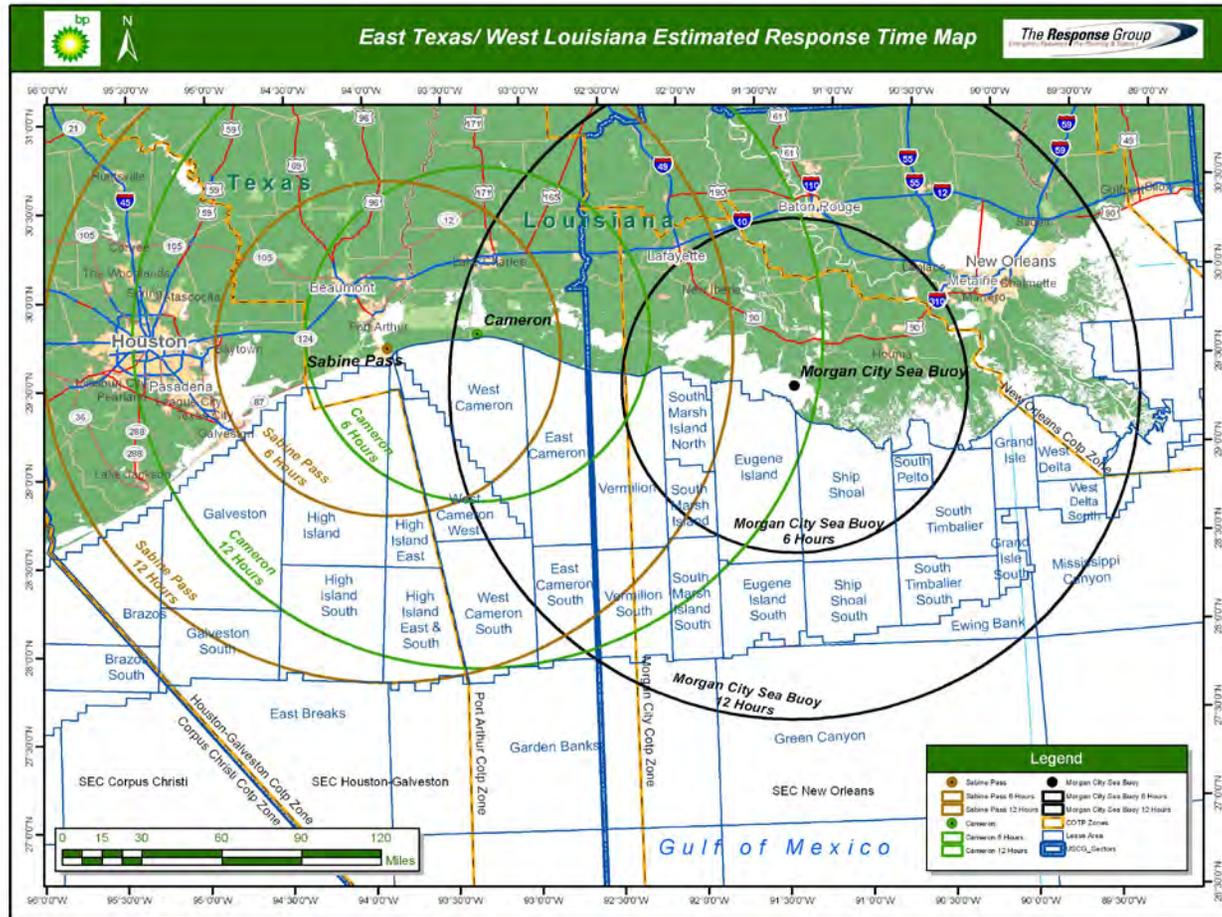
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East Texas/West La Estimated Response Time Map

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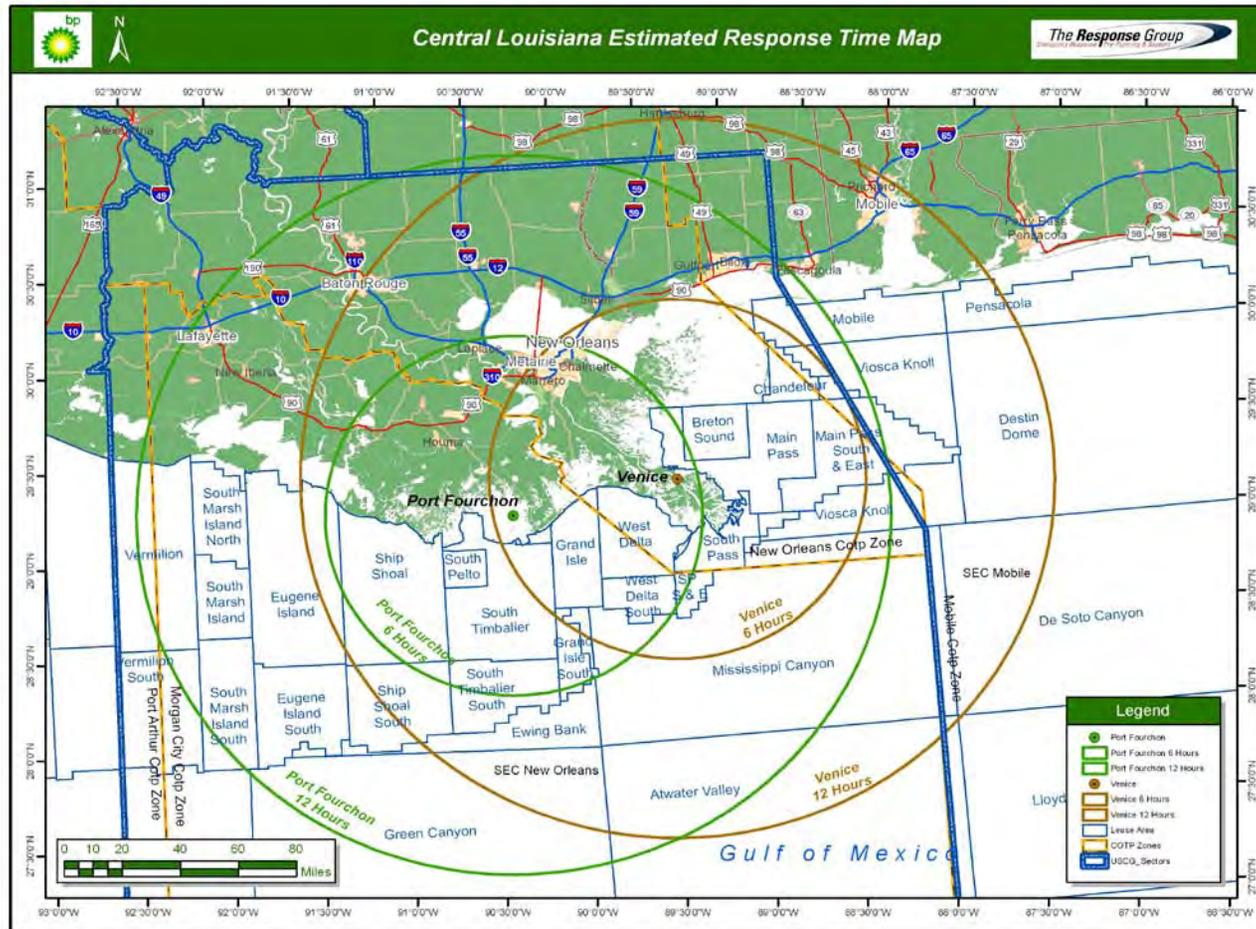


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Central Louisiana Estimated Response Time Map

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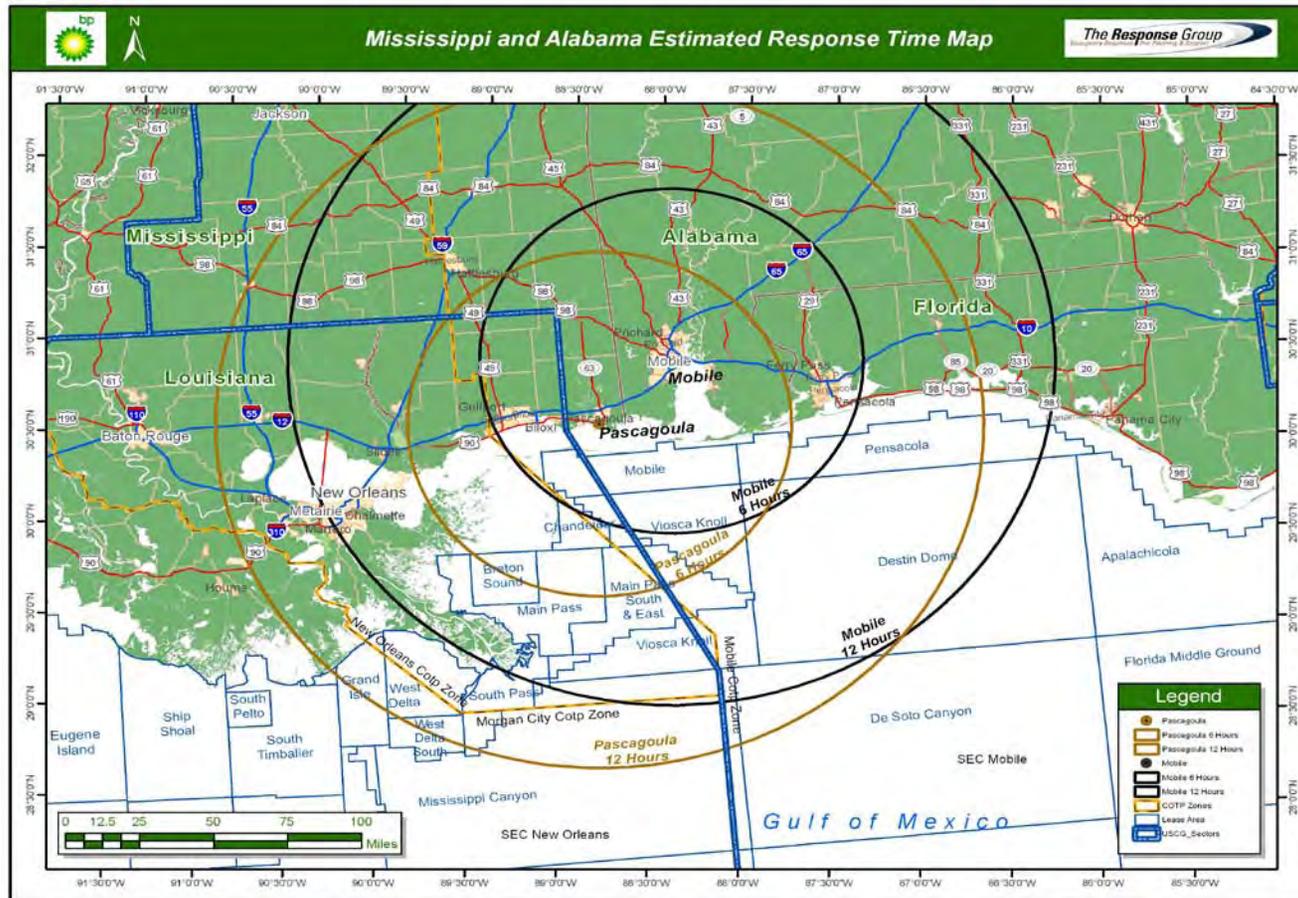


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Mississippi & Alabama Estimated Response Time Map

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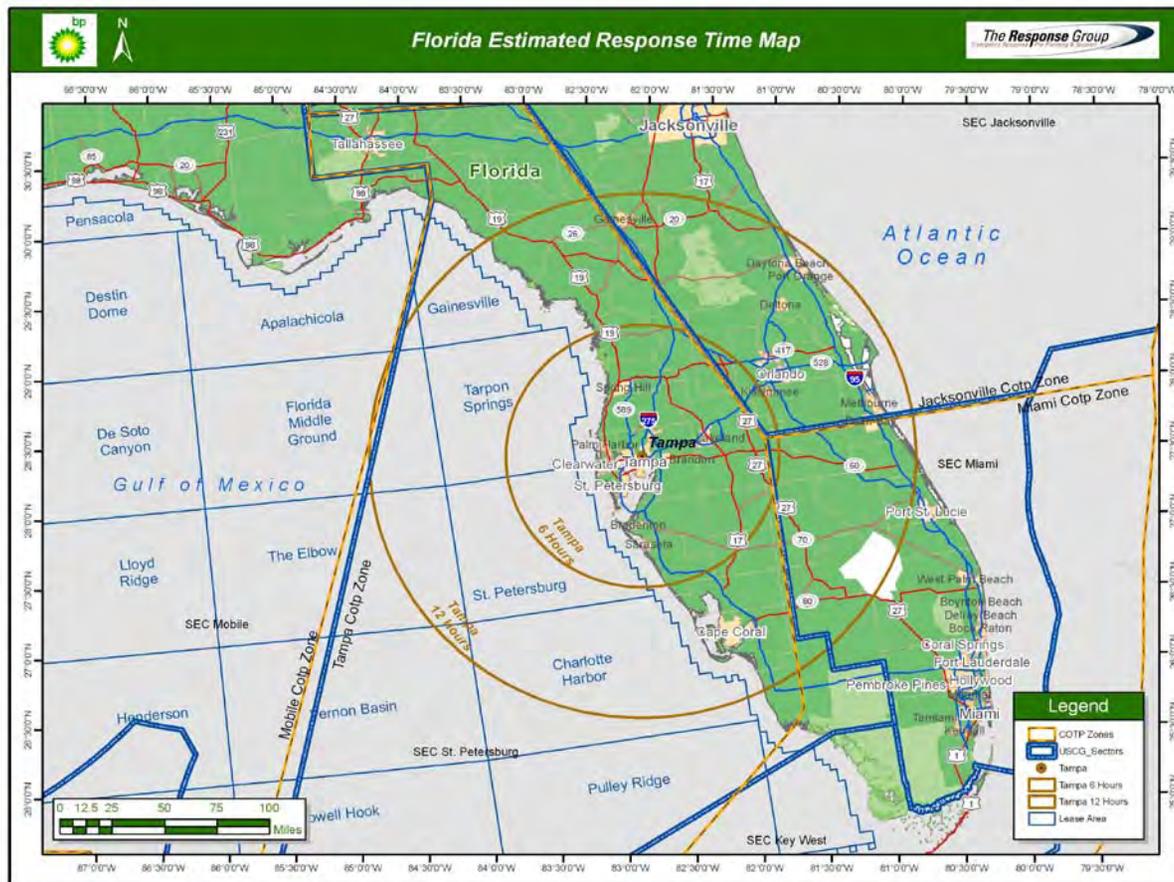


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Florida Estimated Response Time Map

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Pre-Identified Staging Areas – Louisiana

Figure 14-5

LOCATION	COMPANY NAME	PHONE	CRANE	TRAILER
Abbeville	AMBAR	337-893-5267	Yes	Yes
Amelia	ASCO	985-631-0621	Yes	Yes
Berwick	Baroid Drilling Fluids	985-385-1010	Yes	Yes
	Berry Brothers	985-384-8770	Yes	Yes
	Berwick Supply	985-384-5073	No	No
	L & L Oil Company, Inc.	985-385-6202	Yes	Yes
	M-I Drilling Fluids	985-385-2660	Yes	Yes
	Spirit Star	985-384-8894	Yes	Access
Cameron	AMBAR	337-775-5995	Yes	Yes
	Baker Hughes	337-775-5125	Yes	Yes
	Baroid Drilling Fluids	337-775-5512	Yes	Yes
	Halliburton Services, Inc.	337-775-5872	Access	Yes
	M-I Drilling Fluids	337-775-5311	Yes	Yes
	Midstream Fuel Service	337-775-5226	Yes	No
Chenier	Crain Brothers	337-538-2411	Yes	No
Dulac	Baker Hughes	985-563-4537	Yes	Yes
	M-I Drilling Fluids	985-563-4413	Yes	Yes
Fourchon	Newpark Environmental	985-396-2755	Yes	Yes
	ASCO	985-396-2737	Yes	No
	Martin Terminal, Inc.	985-396-2701	Yes	Yes
	ASCO	985-396-2711	Yes	Yes
	Baroid Drilling Fluids	985-396-2681	Yes	Yes
Golden Meadow	M-I Drilling Fluids	985-396-2851	Yes	Yes
Grand Isle	MSRC Clean Gulf	985-580-0924	Yes	Yes
Intracoastal City	AMBAR	337-893-7120	Yes	No
	Baker Hughes	337-893-2772	Yes	Yes
	Baroid Drilling Fluids	337-893-3536	Yes	Yes
	Broussard Brothers, Inc.	337-893-5303	Yes	Yes
	ASCO	337-893-6084	Yes	Yes
	M-I Drilling Fluids	337-893-5852	Yes	Yes
Lafayette	M-I Drilling Fluids	337-233-1714	Yes	Yes
New Orleans	Avondale Shipyard	504-436-2121	Yes	Yes
Venice	Baker Hughes	985-534-2379	Yes	Yes
	Halliburton Services, Inc.	985-534-2386	Yes	Yes
	M-I Drilling	985-534-7422	Yes	Yes

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Pre-Identified Staging Areas – Texas

Figure 14-5

LOCATION	COMPANY NAME	PHONE	CRANE	TRAILER
Aransas Pass	Halliburton Services, Inc.	361-758-0273	Access	Yes
Corpus Christi	Halliburton Services Inc.	361-888-8153	Access	Yes
Freeport	Baker Hughes	979-244-4180	Yes	Yes
	Offshore Oil Services	979-233-1851	Yes	Yes
	Midstream Fuel Service	979-233-0176	Yes	Yes
Galveston	AMBAR	409-744-7109	Yes	Yes
	Halliburton Services, Inc.	409-740-0866	No	No
	Midstream Fuel Service	409-744-7159	Yes	Yes
	Midstream Fuel Service	409-744-7126	Yes	No
Galveston	Midstream Fuel Service	409-744-3282	Yes	Yes
Harbor Island	Baker Hughes	361-758-0296	Yes	Yes
Port Aransas	Midstream Fuel Service	361-758-0296	Yes	Yes
Port O'Connor	Midstream Fuel Service	361-983-2631	Yes	Yes
Sabine Pass	Sabine Offshore Services	409-971-2377	Yes	No
	Midstream Fuel Service	409-971-2144	Access	Yes

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15. OIL AND DEBRIS REMOVAL PROCEDURES

A. Offshore Procedures

Containment and removal of oil and oiled debris during the course of an oil spill response is essential in mitigating the impact, and subsequent liability, of the release.

Offshore removal procedures are dependent upon the location of the incident, response time, weather conditions, volume spilled, and other variables. Responding to an oil spill in open water is preferred so as to prevent product from reaching sensitive shoreline resources.

Offshore cleanup procedures, and the associated limitations of each, are listed in **Figure 15-1**.

If oiled debris is present at offshore locations, the material may be placed on a vessel or barge in a manner that will not allow seepage. The debris will be transferred to an appropriate location, segregated by types (i.e., sorbent material, trash, sand, vegetation, etc.), and placed into designated roll-off boxes or alternate containers lined with impervious material (i.e., pre-cut polyethylene sheet liners) to prevent additional contamination. The roll-off boxes will be manifested and transported to designated disposal sites in accordance with applicable regulation.

BP has standing contracts with multiple Oil Spill Response Organizations who maintain dedicated offshore response vessels in the Gulf of Mexico area to mitigate offshore spills. These vessels have permanently assigned crew members and can generally respond in two hours or less. The vessels in question maintain the necessary spill containment and recovery equipment to respond effectively to spills as requested. Vessels are also equipped with communications and/or tracking systems that allow for continuous contact and location status updates. For a complete listing of spill response equipment see **Appendix E**.

B. Shallow Water Procedures

The recovery and disposal of oily debris during shallow water cleanup operations is essential in preserving sensitive environmental resources and habitats. Response personnel should be trained in all aspects of spill response, including the proper procedures to recover and transport oily debris safely while minimizing damage to surrounding ecosystems. Areas sensitive to foot traffic should have plywood sheets deployed to prevent root damage to plants and vegetation. Oily debris may be collected

via shallow draft boats/barges, light vehicles (where applicable), towable bladders, etc. The debris will be handled in a manner which will prevent seepage to occur and will be segregated by type (i.e., sorbent material, vegetation, soil, etc.). The debris will be transferred into roll-off boxes, hauling trucks, or other suitable containers lined with polyethylene liners and will be manifested and transported to designated disposal sites.



In the event the above areas are contaminated, a damage assessment will be conducted prior to initial response efforts to evaluate damage and will include the following information:

	Type of oil;
	Amount of oil spilled;
	Degree to which oil covers vegetation;
	Season;
	Degree of oil weathering prior to impact; and
	Requirements for storage and disposal of recovered materials.

Shallow water and shoreline cleanup procedures, and associated limitations, are detailed in **Figure 15-2** (Shallow Water Cleanup Procedures).

Marsh cleanup techniques may be reviewed in **Figure 15-3**.



Offshore Cleanup Procedures

Figure 15-1

Method	Applicability	Limitations
Mechanical Recovery	Fast response units/I.D. boats and skimming systems with various containment booming methods.	Successful in removing oil in sea states of 0-4. Used in all sizes of spills. Limited by weather conditions.
Containment Booming (“V” booming, “J” booming, teardrop booming, boat booming, dynamic booming.	Contains oil to prevent spreading. Various booming techniques may be utilized dependent upon prevailing conditions.	Successful in containing all types of oil in sea states of 0-4. Used in all sizes of spills. Limited by weather conditions.
Chemical Dispersion	Application of chemical to disperse oil from surface into suspension in the water column. May be applied by airplane or boat.	Limited by weather conditions. Pre-approval areas in water depths of 20 meters or more. Regulatory approval required for depths less than 20 meters.
<i>In-Situ</i> Burning	Burning oil to prevent spreading.	Limited by weather conditions, thickness and volatility of oil. Must be conducted within several hours of spill.
Natural Dispersion	Allow natural elements (i.e., wave action, evaporation, etc.) to remove oil from water.	No limitations. Used in circumstances of small and large spills that pose no threat to sensitive areas.
Diversion Booming	Deployed at an angle to approaching slick to divert oil away from sensitive shoreline resources.	Wave heights less than 1 ft.; protects shoreline resources (i.e., tidal inlets, salt marshes, sand/mud flats, etc.)
Sorbent Booming	Backup boom to absorb entrained oil. Deployed in conjunction with containment boom across approaching oil slick.	Limited by weather conditions. Successful in quiet seas with little wind.



Shoreline Cleanup Techniques

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
1. Motor grader/elevating scraper	Motor grader forms windrows for pickup by elevating scraper. Heavy equipment access, good trafficability.	Used primarily on sand and gravel beaches where oil penetration is 0 to 3 cm, and trafficability of beach is good. Can also be used on mudflats.	Removes only upper 3 cm of beach. Natural replenishment of substrate.
2. Elevating scraper	Elevating scraper picks up contaminated material directly off beach. Heavy equipment access, good trafficability.	Used on sand and gravel beaches where oil penetration is 0 to 3 cm. Can also be used on mudflats. Also used to remove tar balls or flat patties from the surface of a beach.	Removes upper 3 to 10 cm of beach. Minor reduction of beach stability. Erosion and beach retreat. Slow restabilization of substrate.
3. Motor grader/front-end loader	Motor grader forms windrows for pickup by front-end loader. Heavy equipment access, good trafficability.	Used on gravel and sand beaches where oil penetration is less than 2 to 3 cm. This method is slower than using a motor grader and elevating scraper but can be used when elevating scrapers are not available. Can also be used on mudflats.	Removes only upper 3 cm of beach. Removes shallow burrowing organisms. Natural replenishment of substrate.
4. Front-end loader-rubber-tired or tracked	Front-end loader picks up materials directly off beach and hauls it to unloading area. Heavy equipment access, fair to good trafficability for rubber-tired loader.	Used on mud, sand or gravel beaches when oil penetration is moderate and oil contamination is light to moderate. Rubber-tired front-end loaders are preferred because they are faster and minimize the disturbance of the surface. Front-end loaders are the preferred choice for removing cobble sediments. If rubber-tired loader cannot operate, tracked loaders are the next choice. Can also be used to remove extensively oil-contaminated vegetation.	Removes 10 to 25 cm of beach. Reduction of beach stability. Erosion and beach retreat. Removes almost all shallow and deep burrowing organisms. Restabilization of the physical environment is slow.



Shoreline Cleanup Techniques (Cont'd)

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
5. Bulldozer/ rubber-tired front-end loader	Bulldozer pushes contaminated substrate into piles for pickup by front-end loader. Heavy equipment access, fair to good trafficability.	Used on coarse sand, gravel or cobble beaches where oil penetration is deep, oil contamination extensive and trafficability of the beach is poor. Can also be used to remove heavily oil contaminated vegetation.	Removes 15 to 50 cm of beach stability. Severe erosion and cliff or beach retreat. Inundation of backshores. Very slow restabilization of substrate.
6. Backhoe	Operates from top of a bank or beach to remove contaminated sediments and loads into trucks. Heavy equipment access, requires stable substrate at top of bank.	Used to remove oil contaminated sediment (primarily mud or silt) on steep bank.	Removes 25 to 50 cm of beach or bank. Severe reduction of beach stability and beach retreat. Restabilization of substrate and organisms is extremely slow.
7. Dragline or clamshell	Operates from top of contaminated area to remove oiled sediments. Heavy equipment access.	Used on sand, gravel or cobble beaches where trafficability is very poor (i.e., tracked equipment cannot operate) and oil contamination is extensive.	Removes 25 to 50 cm of beach. Severe reduction of beach stability. Erosion and beach retreat. Restabilization of substrate and indigenous fauna is extremely slow.
8. High pressure flushing (hydro-blasting)	High pressure water streams remove oil from substrate where it is channeled to recovery area. Light vehicular access, recovery equipment.	Used to remove oil coatings from boulders, rock and man-made structures; preferred method of removing oil from these surfaces.	Can disturb surface of substrate. Oil not recovered may be toxic to organisms. Wildlife agency approval required.
9. Steam cleaning	Steam removes oil from substrate where it is channeled to recovery area. Light vehicular access, recovery equipment and fresh water access.	Used to remove oil coatings from boulders, rocks and man-made structures.	Adds heat (>100°C) to surface. Mortality of organisms due to heat is likely. Oil not recovered may be toxic to organisms.
10. Sand blasting	Sand moving at high velocity removes oil from substrate. Light vehicular access, supply of clean sand.	Used to remove thin accumulations of oil residue from man-made structures.	Adds material to the environment. Potential recontamination, erosion and deeper penetration into substrate. Oil not recovered may be toxic to organisms.



Shoreline Cleanup Techniques (Cont'd)

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
11. Manual scraping	Oil is scraped from substrate manually using hand tools. Foot or light vehicular access.	Used to remove oil from lightly contaminated boulders, rocks and man-made structures or heavy oil accumulation when other techniques are not allowed.	Selective removal of material. Labor-intensive activity can disturb sediments. Oil not recovered may be toxic to organisms
12. Sump and pump/vacuum	Oil collects in sump as it moves down the beach and is removed by pump or vacuum truck. Requires recovery equipment.	Used on firm sand or mud beaches in the event of continuing oil contamination where sufficient alongshore currents exist and on streams and rivers in conjunction with diversion booming.	Requires excavation of a sump 60 to 120 cm deep on shoreline. Some oil will probably remain on beach. Oil not recovered may be toxic to organisms.
13. Manual removal of oiled materials	Oiled sediments and debris are removed by hand, shovels, rakes, wheelbarrows, etc. Foot or light vehicular traffic.	Used on mud, sand, gravel and cobble beaches when oil contamination is light or sporadic and oil penetration is slight or on beaches where access for heavy equipment is not available.	Removes 3 cm or less of beach. Selective. Sediments disturbance and erosion potential. Removes and disturbs small and burrowing organisms.
14. Low pressure flushing	Low pressure water spray flushes oil from substrate where it is channeled to recovery points. Light vehicular traffic, recovery equipment.	Used to flush light oils that are not sticky from lightly contaminated mud substrates, cobbles, boulders, rocks, man-made structures and vegetation.	Does not disturb surface to any great extent. Potential for recontamination. Oil not recovered may be toxic to organism's downslope of cleanup.
15. Beach cleaner	Pulled by tractor or self-propelled across beach, picking up tar balls or patties. Light vehicular traffic, recovery equipment.	Used on sand or gravel beaches, lightly contaminated with oil in the form of hard patties or tar balls. Can also remove small quantities of contaminated debris.	Disturbs upper 5 to 10 cm of beach, and shallow burrowing organisms. Wildlife agency approval required.



Shoreline Cleanup Techniques (Cont'd)

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
16. Manual sorbent application	Sorbents are applied manually to contaminated areas to soak up oil. Disposal containers for sorbents, foot or boat access.	Used to remove pools of light, nonsticky oil from mud, boulders, rocks and manmade structures.	Selective removal of material. Labor intensive activity can disturb sediments. Possible ingestion of sorbents by birds and small animals.
17. Manual cutting	Oiled vegetation is cut by hand, collected and stuffed into bags or containers for disposal. Deploy plywood sheets for foot traffic.	Used on oil contaminated vegetation.	Disturbs sediments because of extensive use of labor; can cause erosion. Foot traffic may cause root damage and slow recovery. Destroys animal habitats.
18. Burning	Upwind end of contaminated area is ignited and allowed to burn to down-wind end. Light vehicular or boat access, fire control equipment.	Used on any substrate or vegetation where sufficient oil has collected to sustain ignition; if oil is a type that will support ignition and air pollution regulations so allow.	Causes heavy air pollution; adds heat to substrate, can cause erosion if root system damaged. Kills surface organisms and residual matter may be toxic. Approval of Air Pollution Agency.
19. Vacuum trucks, vacuum pumps or portable skimmers	Oil collects in sumps behind booms and in natural depressions/ collection points and is removed by vacuum trucks, vacuum pumps or portable skimmers.	Used to pick up oil on shorelines where pools of oil have formed in natural depressions, or in the absence of skimming equipment to recover floating oil from the water surface. Also used on firm sand or mud beaches where longshore current exists and on stream and river in construction with diversion and containment booming.	Some oil may be left on shoreline or in water increasing potential for long-term toxic effects.



Shoreline Cleanup Technique (Cont'd)

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
20. Push contaminated substrate into surf	Bulldozer pushes contaminated substrate into surf zone to accelerate natural cleaning. Heavy equipment access, high energy shoreline.	Used on contaminated cobble and lightly contaminated gravel beaches where removal of sediments may cause erosion of the beach or backshore area.	Disruption of top layer of substrate; leaves some oil in intertidal area. Potential recontamination. Kills most organisms inhabiting the uncontaminated substrate.
21. Breaking up pavement	Tractor fitted with a ripper is operated up and down beach. Heavy equipment access, high energy shoreline.	Used on low amenity cobble, gravel or sand beaches or beaches where substrate removal will cause erosion where thick layers of oil have created a pavement on the beach surface.	Disruption of sediments. Leaves oil on beach. Disturbs shallow and deep burrowing organisms.
22. Disc into substrate	Tractor pulls discing equipment along contaminated area. Heavy equipment access, fair to good trafficability.	Used on nonrecreational sand or gravel beaches that are lightly contaminated.	Leaves oil buried in sand. Disrupts surface layer of substrate. Disturbs shallow burrowing organisms. Possible toxic effects from buried oil.
23. Natural recovery	No action taken. Oil left to degrade naturally. Exposed high energy environment.	Used for oil contamination on high energy beaches (primarily cobble, boulder and rock) where wave action will remove most oil contamination in a short period of time.	Some oil may remain on beach and could contaminate clean areas. Potential toxic effects and smothering by the oil. Potential incorporation of oil into the food web. Potential elimination of habitat if organisms will not settle on residual oil.



Shoreline Cleanup Techniques (Cont'd)

Figure 15-2

Cleanup Technique	Description & Requirements	Primary Use of Cleanup Technique	Physical and Biological Effect of Use
24. Oil Mop	Various size units to be used onshore or with shallow draft jon boats in water with little or no current. Boat or light vehicle access.	Used to recover oil from natural or artificial containment.	
25. Removal by Excavation	Contaminated soil is excavated and replaced with clean soil. Heavy excavation equipment access, clean soil.	Used on contaminated soils when drinking water wells are threatened and contaminated does not exceed 20-30 feet.	Severe reduction of substrate/beach stability. Removes all shallow and seep burrowing organisms. Restabilization of the physical and biological environment is extremely slow.
26. Recovery of oil from groundwater	Contaminated oil is pumped out. Heavy equipment access.	Used on contaminated ground water via recovery wells or by trenching.	Oil may remain in substrate and spread during inclement weather conditions.
27. <i>In-Situ</i> Treatment	Contaminated substrate is tilled into the ground or organic fertilizers are applied. Heavy equipment access.	Used on contaminated soils where groundwater is not threatened or has been cleaned.	Leaves oil buried in substrate. Disrupts surface layer of substrate and disturbs shallow burrowing organisms. Possible toxic effects from buried oil.
28. Bio-remediation	Nutrients and/or micro organisms are applied to accelerate the degradation of the oil.	May be used on rocky or sandy beaches, in marshlands or pooled oil.	Formal application for use must be obtained. Not suitable in restricted water bodies.



Marsh Cleanup Techniques

Figure 15-3

Cleanup Technique	Description for Use	Equipment Required	Environmental Impact
Low Pressure Water Flushing	<u>Preferred Method:</u> Use in small channels around clumps of plants and trees and on vegetation along channel banks and the shoreline	Small jon boat and small gasoline-driven pumps; intake and discharge hoses; small floater skimmer; portable storage tank.	Minimal impact if flushing is done from land. Some marsh vegetation may be crushed.
<u>Sorbents:</u> Loose sorbents, pads or rolls	<u>Loose sorbents:</u> Use in small channels or pools with low currents. <u>Pads or Rolls:</u> Use in shallow pools and on shorelines without debris accumulation.	Light curtain boom; empty barrels for storing recovered sorbent. Can also be herded with water spray.	Loose sorbents are difficult to retrieve. Retrieval can crush marsh grasses.
Oil Mop	<u>Preferred Method:</u> Use in small channels or pools with free floating oil. Use upstream from containment boom and along marsh shorelines.	Oil Mop system; portable storage tanks for recovering oil; pulleys.	Minimal impacts.
Vegetation cutting and removal (Note: Use only when flushing fails to remove oil from plants)	Hand cutting of vegetation in small channels. Mechanical cutting along banks of channels or shoreline.	<u>Hand cutting:</u> Shears, power brush cutters or sickles; mechanical cutting; weed harvester.	Damages marsh surface. Foot traffic damages plants.
Burning (For use on spartina-type (grass-like) marshes only.)	Use in large contaminated areas. Can use if oil will burn. Probably suitable when marsh is on die-back stage.	Portable propane flame throwers or weed burners.	Produces considerable air pollution. Requires local approval by government agencies. Areas not contaminated by oil are subject to damage by fire.
Marsh burning	Use when toxic and persistent oils have deeply contaminated substrata.	Pump contaminated liquids from the marsh, using available materials, dam or divert the flow of water into the marsh area.	<u>Major impact:</u> Destroys much wildlife. Restoration may occur over several years as water returns to the marsh.
Soiled Vegetation Removal	Use when toxic and persistent oils have deeply contaminated substrata.	Dragline, dredge, clamshell, front-end loader, backhoe, bulldozer	<u>Major impact:</u> Destroys marsh areas. Requires complete subsequent restoration.



16. OIL AND DEBRIS DISPOSAL PROCEDURES

A. Procedures to Store, Transfer and Dispose of Oil and Oil Contaminated Debris

The storage, transfer, and disposal of oil and oiled debris in a manner which meets or exceeds regulatory requirements are essential elements in mitigating the impact and subsequent liability of a spill. The following guidelines will be considered during transfer and storage operations:

1.	<p>Storage</p> <p>Oil and oily debris collected offshore and in shallow water areas by mechanical measures (i.e., skimmers, booms, pumps, sorbents, etc.) may be transferred into vessels listed below:</p> <ul style="list-style-type: none"> • Portable tanks on recovery vessels, • Containers (i.e., roll off boxes) on recovery vessels/barges, • Shallow water barges, • Tank trucks, • Towable bladders, • Frac tanks, • Barrels, and/or • Ocean going barges
2.	<p>Transfer</p> <p>Oily debris will be segregated by types (i.e., sorbents, vegetation, sand, trash, etc.) and placed on a vessel or barge in a manner that will not allow seepage to occur. Oily debris will be transported in leak proof, sealable containers along with separate containers of recovered oil to temporary storage site(s) onshore that are convenient to the recovery operation.</p>
3.	<p>Disposal</p> <p>Waste generated during the course of the spill incident will be minimized to the extent possible to reduce associated manpower and expenses. Each waste stream (i.e., recovered oil, oily debris, decontamination wastes, etc.) will be treated separately for waste determination, characterization, and classification. All wastes generated will be managed as required by the BP Waste Management Plan and applicable regulation. Methods for minimizing waste generation include, but are not limited to the following:</p>



- **Decanting** – Excessive water recovered during recovery operations may be pumped along with the recovered oil to a production platform and run through the separation process. In the event a production process is not available, the oil and water mixture will be allowed to separate and the water decanted directly from the storage container. Decanting is essential to the efficient mechanical recovery process in order to preserve maximum available storage capacity. Approval for decanting will be obtained as required from the FOSC or designated representative by the BP Liaison Officer or designated personnel.
- **Recycling** – Fresh, uncontaminated oil along with oily water may be recycled into an established production process and/or treatment systems associated with terminals, refineries, commercial re-claimers and BP facilities. Accurate records of recovered oil will be maintained and the recordkeeping process will be coordinated through the Unified Command.
- **Debris Removal** – The generation of oily debris may be minimized in the coastal intertidal zone with an accurate trajectory projection, which may allow for the removal of debris from the anticipated impact zone prior to the stranding of the spilled oil.

Criteria for disposal selection include the amount of oil, oiled debris, sorbent material, and disposal options and requirements for the area(s) in question. Disposal options are illustrated in **Figure 16-1**.

Temporary storage for oil, oily water, and debris may be erected at appropriate shore locations that are convenient to the recovery operation. Placement of temporary storage facilities requires the concurrence of the USCG and various State and local entities. The oil, oily water, and contaminated debris will be stored in containers of various types and sizes that are compatible with the waste to be stored. Additionally, oil spill response vessels and associated barges may provide short term on-water storage.



B. Oil and Oily Debris Temporary Storage

OSRO's such as NRC & MSRC can provide sufficient temporary storage for oil and oily debris for spills of any magnitude in order to prevent an interruption in containment and recovery operations. Temporary storage capacity for marine portable tanks and supplemental offshore vessels from NRC is listed below:

- | | |
|---|---|
| • | Marine Portable Tanks – See Figure 16-2 for information concerning storage capacity of available portable tankage. |
| • | Supplemental Offshore Vessels – Existing tankage aboard supplemental offshore vessels may be utilized to store recovered materials on a temporary basis prior to transfer ashore. Refer to Figure 16-3 for information concerning storage capacity for supplemental offshore vessels. |

C. Decanting and Recycling Methods

Attempts should be made to minimize the amount of waste generated in an oil spill response in order to maximize storage capacity and to control costs. The following waste reduction methods are essential elements in mitigating the impact and subsequent liability of a spill incident:

- | | |
|---|---|
| • | Decanting – Product and water recovered during the mechanical recovery process will be pumped into storage containers that allow for gravity separation of the oil from the water. The separated water will be transferred into a separate container or stream forward of the recovery pump. Approval for decanting must be obtained from the FOSC or his designated representative by the BP Liaison Officer. |
| • | Recycling – Fresh, uncontaminated oil along with oily water may be recycled into established production processes and/or treatment systems associated with terminals, refineries, platforms, commercial reclaimers, recyclers, and BP facilities. Oil and oily wastes will be transported to approved disposal site(s). Sand and beach material may also be separated from oiled materials and returned to the shoreline as a restorative measure. |



D. Disposal Methods, Equipment and Transportation

The transportation of oil, oily water, and oil led debris to permitted facilities via truck, tank truck, barge, etc. will be conducted in an environmentally safe manner consistent with applicable Federal and state regulations, and BP company policy. Hazardous material will be transported by permitted transporters and recycled or disposed of in permitted facilities.

E. Designated Disposal Sites

The facility operator or the shore base transportation coordinator must coordinate the disposal of all wastes generated from BP operated and/or contracted facilities. The following is a list of BP approved disposal companies or management contractors for each category of waste:

Organization Name	Site Location	Phone Number
<i>Absorbent Materials, Oily Rags, Filters</i>		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
Seimens (Formerly US Filter Recover Services, Inc.) (Back-up)	697 Highway 167, Opelousas, LA 70570	(800) 960-6377 (337) 826-8001
	4415 E. Greenwood, Baytown, TX 77520	(800) 355-2383
Cintas (Red Rag service only)	625 Elmwood Park Blvd, Harahan, LA 70123	(504) 733-8555
<i>Antifreeze (Ethylene Glycol and Triethylene Glycol)</i>		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
Coastal Chemical	3520 Veterans Memorial Drive, Abbeville, LA 70510	(337) 893-3862



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Organization Name	Site Location	Phone Number
Aviation Fuel		
Seimens (formerly US Filter Recover Services, Inc.)	697 Highway 167, Opelousas, LA 70570	(800) 960-6377 (337) 826-8001
	4415 E. Greenwood, Baytown, TX 77520	(800) 355-2383
Batteries (Lead Acid, NiCad, Lithium)		
Lamp Enviromental Industries (LEI)	46257 Morris Road, Hammond, LA 70401	(800) 309-9908
Excide Technologies	2400 Brooklawn Drive, Baton Rouge, LA 70807	(225) 775-3040
Cooking Oil		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
Seimens (formerly US Filter Recover Services, Inc.)	697 Highway 167, Opelousas, LA 70570	(800) 960-6377 (337) 826-8001
	4415 E. Greenwood, Baytown, TX 77520	(800) 355-2383
Crude Oil/Condensate (Volume for Salvage Reclamation)		
PSC Industrial Outsourcing Inc.	9523 Highway 87 East, Jeanerette, LA 70544	(337) 276-5163
Diesel Fuel		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
L&L (Formerly ASCO)	485 Jump Basin Road (# 15), Fourchon, LA	(985) 396-2711
E&P Exempt Waste		
CCS Energy Services LLC	<u>Intracoastal City, LA:</u> Site Code 5710	24915 Highway 333 Abbeville, LA 70510 (337) 898-0375
	<u>Fourchon, LA # 3:</u> Site Code 2918	567 D. Bernard St, Golden Meadow, LA 70357 (985) 396-4582
	<u>Morgan City, LA:</u> Site Code 5110	101 McClellan Road Morgan City, LA 70380 (985) 384-7676
	<u>Theodore, AL</u>	7455 Rangeline Road Theodore, AL 36582 (251) 443-6324

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Organization Name	Site Location	Phone Number
<i>E&P Exempt Waste (continued)</i>		
Newpark Environmental Services	434 Davis Road	(337) 775-5605
<u>Cameron, LA:</u> Site Code 1205	Cameron, LA 70631	(373) 775-8073
<u>Intracoastal City, LA:</u> Site Code 5703	12334 Offshore Road, Abbeville, LA 70510	(337) 893-3239
<u>Morgan City, LA:</u> Site Code 5102	101 Second Street Morgan City, LA 70381	(985) 384-4460 (985) 384-4461
<u>Fourchon, LA #1:</u> Site Code 2910	145 17th Street Golden Meadow, LA 70357	(985) 396-2804 (985) 396-2805
<u>Fourchon, LA #2:</u> Site Code 2913	228 16th Street Golden Meadow, LA 70357	(985) 396-2755 (985) 396-2756
<u>Ingleside, TX:</u> Permit Code STF001 Transfer Facility	2725 Garrett Road Ingleside, TX 78362	(361) 776-3523 (361) 776-3524
<u>Port Arthur, TX:</u> Permit Code STF001	8300 Pleasure Inlet Port Arthur, TX 77640	(409) 963-3503 (409) 963-3509
<i>Electronic Waste (Computer components, Televisions, Faxes, Radios, Copiers, Printers, etc.)</i>		
Redemtech (All non-computer related electronic waste, i.e. TV's VCR's, fax machines etc.)	4089 Leap Road Hilliard, OH 43026	800) 743-3499 ext. 2509 or 2561
Getronics (Desktop PC's, laptops, monitors, printers, hubs, switches etc.)	Charlotte, N.C.	(704) 649-4606
<i>Filters (Oil, Fuel)</i>		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
Seimens (formerly US Filter Recover Services, Inc.)	697 Highway 167 Opelousas, LA 70570	(800) 960-6377 (337) 826-8001
	4415 E. Greenwood Baytown, TX 77520	(800) 355-2383
<i>Flares and Signal Devices</i>		
Clean Harbors – Colfax	3763 Highway 471 Colfax, LA 71417	(318) 627-3443
<i>Fluorescent Light Bulbs (including high pressure sodium)</i>		
Lamp Enviromental Industies (LEI)	46257 Morris Road Hammond, LA 70401	(800) 309-9908
Safety Kleen	2421 Tyler Street Kenner, LA 70062	(504) 466-5718
	21580 Industrial Road Missouri City, TX 77459	(281) 208-6504
	3820 Bratton Road Corpus Christi, TX 75413	(512) 854-9471

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Organization Name	Site Location	Phone Number
<i>Freon TF Solvent 113 (used in IR meters)</i>		
Enviromental Enterprises USA Lab	58485 Pearl Acres Road Ste D Slidell, LA 70461	(800) 966-2788
<i>Grease (Lubricating)</i>		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
Seimens (formerly US Filter Recover Services, Inc.)	697 Highway 167 Opelousas, LA 70570 4415 E. Greenwood Baytown, TX 77520	(800) 960-6377 (337) 826-8001 (800) 355-2383
<i>Hazardous Waste Consultants</i>		
Coastal Enviromental (Primary)	111 Matrix Loop Lafayette, LA 70507	(337) 264-1112
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
<i>Hexane (IR meters)</i>		
Environmental Enterprises USA Lab	58485 Pearl Acres Road Ste D Slidell, LA 70461	(800) 966-2788
<i>Industrial Waste (Liquids)</i>		
Newpark Environmental Services- Big hill Industrial Waste Liquids Injection Facility	26400 Wilber Road Winnie, TX 77665	(337) 984-4445
CCS Energy Services LLC	7455 Rangeline Road Theodore, AL 36582	(251) 443-6324
<i>Industrial Waste (Solids)</i>		
River Birch Landfill (Primary)	2000 S. Kenner Road, Avondale, LA 70785	(504) 364-1140 (M) 504-436-1288 (O)
Waste Management – Woodside Landfill (Back up)	29340 Woodside Drive Walker, LA 70785	(225) 665-8225
Allied Jefferson Davis Landfill (Back up)	16547 Landfill Road Welsh, LA 70591	(337) 882-1477 (O) (337) 734-4135 (M) (337) 882-6895 (F)
Allied Victoria Landfill (Back up)	4010 Callis Victoria, TX 77901	(800) 274-0649
<i>Medical Waste</i>		
Stericycle Inc.	28161 Keith Drive Lake Forest, IL 60045	(800) 355-8773 ext. 2016
<i>NORM (Naturally Occurring Radioactive Material)</i>		
Newpark Environmental Services	26400 Wilber Road Winnie, TX 77665	(337) 984-4445

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Organization Name	Site Location	Phone Number
<i>NORM Cleaning/Companies Decontamination Facilities</i>		
Phillips Services Corp. (PCS)	756 Geraldine Road Gibson, LA	(985) 575-3434
Production Management Inc. (PMI)	9761 Highway 90 East, Morgan City, LA 70380	(985) 631-3837
Trussco	12580 Offshore Road, Abbeville, LA 70510	(337) 893-5392 (337) 893-1005
Major Equipment and Remediation (MER)	9591 Highway 182 Amelia, LA 70340	(985) 385-3132
<i>Recycle the Gulf (Recyclable Cardboard, Plastic, Metal)</i>		
Tech Oil Products (Supplier for compactor and sorting units)		(800) 737-5533 ext. 300
<i>Sanitary Waste</i>		
Louisiana Environmental Monitoring (LEM)		(337) 289-5223
<i>Scrap Metal</i>		
LaRose Scrap (Back up)	1669 Hwy, 24 LaRose, LA 70373	(985) 798-7055
<i>Scrap Metal continued</i>		
Southern Scrap (Primary)	9724 Purvis Thell Road Abbeville, LA 70510 400 Dickson Road Houma, LA 838 Hwy. 182 Houma, LA 70364	(337) 898-2970 (985) 879-1700
H&H Junk Iron (Primary)	4801 Florida Ave. New Orleans, LA 70117 3702 Agnes Street Corpus Christi, TX 78405	(504) 942-0359 (504) 942-0340 (361) 888-5825
<i>Thread Protectors</i>		
Trojan Rental	211 Diesel Drive Scott, LA 70583	(337) 234-0471
Molding Specialists, Inc (MSI)	9901 Meadow Vista Blvd, Houston, TX 77064	(281) 890-4595
<i>Tires, used</i>		
Colt	1223 Delhomme Ave., Scott, LA 70583	(337) 235-0353

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Organization Name	Site Location	Phone Number
<i>Trash</i>		
River Birch Landfill (Primary)	2000 S. Kenner Road, Avondale, LA 70785	(504) 364-1140 (M) 504-436-1288 (O)
Allied Jefferson Davis Landfill (Back up)	16547 Landfill Road Welsh, LA 70591	(337) 882-1477 (O) (337) 734-4135 (M) (337) 882-6895 (F)
Allied Victoria landfill (Back up)	4010 Callis, Victoria TX 77901	(800) 274-0649
Waste Management (Coastal Plains) (Back up)	21000 E. Hwy., 6 Alvin, TX 77511	(281) 388-1708
Newton County Landfill (Back up)	5 miles N. of HWY 12 on Hwy 87 Orange, TX 77630	(409) 746-9919
<i>Trash Transporters</i>		
Solid Waste Disposal, Inc (SWDI)	172 W. 39th Street Larose, LA 70373	(985) 693-4866
Waste Management	143 Hwy., 3199 Raceland, TX 70394	(985) 537-3281 (800) 548-8597
<i>Used Oil</i>		
Omega Waste Management (Primary)	1900 Highway 90 West, Patterson, LA 70392	(985) 399-5100 (888) 419-5100
L&L (Formerly ASCO)	485 Jump Basin Road (# 15), Fourchon, LA	(985) 396-2711
Envirosolutions (Back-up)	11005 e. Interstate Highway 10, Ste A, Mont Belvieu, TX 77580	(877) 664-4645
<i>Vertel (IR meters)</i>		
Environmental Enterprises USA Lab	58485 Pearl Acres Road Ste D Slidell, LA 70461	(800) 966-2788
<i>Water sample Laboratories</i>		
Southern Petroleum Laboratories (SPL)	500 Ambassador Cafferty, Scott, LA 70583	(800) 304-5227
ARS (American Radiation Services)-NORM samples	2609 North River Road, Port Allen, LA 70767	(800) 401-4277

F. Disposal Regulatory Guidelines

Oil and oily waste generated during a spill cleanup operation will be segregated and each waste stream will be treated separately for waste determination, characterization, and classification. All wastes generated will be managed as required by the Resource Conservation and Recovery Act (RCRA), and other applicable regulations.



Hazardous substances will be transported by permitted transporters to approved and permitted disposal facilities and must be properly packaged and labeled prior to transport

in accordance with 40 CFR 262.30. State licensed hazardous material haulers are required to have a US Environmental Protection Agency ID Number as well as a state transporter ID number. The waste generator must be complete and enclose a uniform hazardous waste manifest with each shipment of waste material. The uniform hazardous waste manifest must be signed by responsible BP personnel and include a statement to the effect that BP is disposing of the material within the framework of a spill response operation in accordance with the National Oil and hazardous Substances Pollution Contingency Plan (40 CFR § 300).

Applicable regulations for wastes shipped offsite include, but are not limited to, the following:	
•	RCRA regulations listed in 40 CFR § 262-263
•	DOT hazardous materials regulations listed in 40 CFR § 171-178
•	Applicable state regulations; based and/or shore base location

Responsible BP personnel will track and maintain copies of the hazardous waste manifests received from the designated disposal facilities for a minimum of three (3) years in accordance with 40 CFR § 262.40.



Disposal Options

Figure 16-1

Waste Stream	Source	Disposal Options
Fresh oil w/ water	Skimmers, vacuum trucks, etc.	Recycle in production process system
Weathered oil w/ water	Skimmers, vacuum trucks, etc.	Refuse as fuel or asphalt, incinerate, solidify or landfill
Water w/ oil	Skimmers, vacuum trucks, etc.	Decant, POTW injection, incineration
Contaminated PPE	Workers	Landfill, incineration
Absorbent material w/ oil	Near shore cleanup	Landfill, incineration
Debris w/ oil	Pre-impact shoreline cleanup	Landfill, incineration, <i>in-situ</i> burning
Oiled debris	Post impact shoreline cleanup	Landfill, incineration, <i>in-situ</i> burning
Soil w/ oil	Beaches, shoreline cleanup	Landfill, bioremediation, <i>in-situ</i> treatment

Marine Portable Tanks

Figure 16-2

Vendor	500 bbls	250 bbls	150 bbls	100 bbls	50 bbls	25 bbls
Diamond Tank Rentals	3	4				100
Magnum Mud	21	25	4	12	2	600
OSCA					1	37
AMBAR						80
Gulfstream Services				5		200
Circulation Tools	7		2		2	65
Eagle Rental Company						7
Allwaste Services			2			165
Subtotal	15500	7250	900	1900	250	31350
Total	57150 Barrels					



Supplemental Offshore Vessels

Figure 16-3

Vessel	Location	Draft		Capacity	Type
		Min	Max		
NRC					
NRC Admiral	Galveston, TX	7 ft	9 ft	229 bbls	OSRV
NRC Liberty	Tampa, FL	7 ft	9 ft	322 bbls	OSRV
NRC Defender	Mobile, AL	2.3 ft	10.8 ft	16500 bbls	OSRB
NRC Valiant	Corpus Christi, TX	2 ft	10.5 ft	20892 bbls	OSRB
Seahorse IV	Morgan City, LA		6 ft	100 bbls	ID Boat
Seahorse V	Fourchon, LA		10 ft	100 bbls	ID Boat
Seahorse VI	Fourchon, LA	7 ft	9 ft	101 bbls (bladder)	ID Boat
Celeste Elizabeth	Fourchon, LA		10 ft	416.8 Bbls	ID Boat
*Shallow water barges	Operates in pairs			200 bbls/unit	
MSRC					
Southern Responder	Ingleside, TX			4,000	OSRV
Texas Responder	Galveston, TX			4,000	OSRV
Gulf Coast Responder	Lake Charles, LA			4,000	OSRV
Louisiana Responder	Fort Jackson, LA			4,000	OSRV
Mississippi Responder	Pascagoula, MS			4,000	OSRV
Florida Responder	Miami, FL			4,000	OSRV
Total				44879.6 bbls	
* Shallow water barges – Operates in pairs – 29 pairs (unit) @ 200 bbls/unit					



17. WILDLIFE REHABILITATION PROCEDURES

A. Overview

Rehabilitation of oiled wildlife is a complex, crisis oriented process that requires an experienced staff with medical, technical, and crisis management skills. Regulatory permits and specialized training for Occupational Health and Safety Administration (OSHA) compliance are also required to conduct a comprehensive oiled wildlife response. Rehabilitation of oiled wildlife focuses primarily on the adverse physiological effects of oil on individual birds and animals. The effects, which are complex, may be counteracted through a cooperative effort of veterinarians, biologists, and rehabilitation specialists with oil spill response experience. The primary objective of wildlife rehabilitation is to care for injured animals and return them to their natural environment.

Wildlife rehabilitation serves two purposes in an efficient oil spill response:	
•	Provide a humane response to wild animals harmed through man-related activities, and
•	Attempts to treat and return affected animals to healthy breeding populations in the wild.

Rehabilitation efforts are particularly important when endangered or threatened species are contaminated.

In general, the effects of oil on birds may be characterized as environmental, external, and/or internal:	
•	Environmental Effects include, but are not limited to, immediate contamination of food source biomass, reduction in breeding animals and plants that provide future food sources, contamination of nesting habitat, and reduction in reproductive success through contamination and reduced hatchability of eggs or temporary inhibition of ovarian function.



- External Effects of oil are the most noticeable and the most immediately debilitating. Birds that are most often affected by oil spills include those that remain on the water and those that feed in the water. Oil may contaminate the entire bird or small parts of the bird dependant upon the amount of oil in the water and the bird's natural behavior pattern (i.e., swimming, wading and diving). Oil disrupts the interlocking structure of feathers, which destroys the waterproofing and insulating properties of the plumage. The oiled bird may encounter some or all of the following difficulties due to external effects:
 - 1) Chilling
 - 2) Inability to fly
 - 3) Inability to remain afloat
 - 4) Difficulty obtaining food
 - 5) Difficulty escaping predators
 - 6) Decreased foraging ability
 - 7) Loss of attainable food sources
- Internal Effects are not as apparent, however, they are equally life threatening and include, but are not limited to :
 - 1) Toxic effects on the gastrointestinal tract, pancreas, and liver
 - 2) Ulceration and hemorrhaging within the lining of the gastrointestinal tract
 - 3) Aspiration pneumonia, severe and fatal kidney damage, severe dehydration
 - 4) Immune system is compromised and Aspergillosis disseminates throughout the body and occludes the trachea, heart, liver, and/or kidneys.

Only trained and certified wildlife specialists will be involved in rehabilitation efforts on behalf of BP.



B. Authorization

Resident birds native to states along the Gulf Coast are the responsibility of the respective state wildlife agencies and rehabilitators must be permitted by the state agency in order to pick up oiled waterfowl. Migratory birds are the responsibility of the U S Fish and Wildlife Service and rehabilitators must be permitted by the federal agency to rescue and transport oiled birds. Birds on the endangered species list are the responsibility of both federal and state wildlife authorities and permits to recover and rehabilitate oiled birds must be received from both agencies prior to collection.

Personnel from Federal and State wildlife services within the ICS/Unified Command will determine the need for wildlife rescue and rehabilitation in addition to providing the authorization to proceed. Federal and State wildlife authorities will act in an advisory capacity during major oil releases and will coordinate with industry counterparts to establish bird cleaning stations and holding pens.

The BP Planning Section Chief (PSC) is responsible for ensuring that wildlife concerns are addressed during a spill incident and will activate one or more permitted professional wildlife services in the event wildlife is threatened. Additionally, the PSC will ensure that the appropriate Federal and State wildlife agencies are notified and kept abreast of wildlife activities.

C. BP Wildlife Rehabilitation Plan

BP has a wildlife rehabilitation procedure in place to ensure wildlife issues related to a release of oil to the waters of the Gulf of Mexico are properly addressed. The procedure relies on Federal and State wildlife agencies as well as recognized professional wildlife experts to assist and direct wildlife recovery and rehabilitation. The procedures are as follows:

- | | |
|---|---|
| • | The BP Planning Section Chief (PSC) will assess the spill incident and determine if a threat to wildlife exists or if wildlife has already been impacted. |
| • | In the event wildlife is not threatened, the PSC will continue to monitor the spill. |



•	The PSC will alert a professional wildlife service and place them on standby and also alert appropriate Federal and State wildlife personnel.
•	In the event the spill threatens or has already impacted wildlife, the PSC will call for the mobilization of one or more professional wildlife services for cleaning and rehabilitation.
•	The PSC will contact and inform the US Fish & Wildlife Service and appropriate State wildlife agencies of the situation.
•	The PSC will coordinate wildlife rehabilitation efforts with BP ICS Operations and Logistics Sections.

D. Agency/Contractor Notifications

Wildlife Services Notification – The primary professional wildlife services that may be utilized by BP during a spill incident are listed in **Figure 17-2**.

Federal and State Wildlife Agency Notifications – The Federal and State wildlife agencies that may be contacted by BP personnel during an oil spill incident are listed in **Figure 17-3**. Note: Other wildlife experts in the private sector or at universities can be found in **Section 9**, Available Technical Expertise.

E. Equipment/Supplies Necessary to Operate a Rehabilitation Center

Facility requirements vary significantly dependent upon the specific needs of various spill scenarios as well as the following factors:	
•	Anticipated number of animals
•	Types and numbers of species
•	Age of wildlife contaminated
•	Type of containment
•	Season/weather
•	Location of spill



A suitable facility must have a large open space that can easily be reconfigured to accommodate the changing needs of the wildlife rehabilitation process. Contracted wildlife specialists and/or agency representatives should be consulted regarding facility requirements for optimum rehabilitation. The following are equipment and facility considerations:

Equipment/facility considerations for wildlife rehabilitation activities. Consult with wildlife specialists to determine specific requirements.	
•	Hot and Cold Water Capacity
•	Electric and Lighting
•	HAVC Systems
•	Communications
•	Required Supplies Needed

Figure 17-1 lists some general conditions that can result from contamination of wildlife from spilled oil. Additionally, the minimum facility requirements for rehabilitating 100-150 oiled animals are illustrated in **Figure 17-4**. This information is presented for reference to assist with the assessment and initial determination of resource requirements. **Only trained and certified wildlife specialists will be involved in rehabilitation efforts on behalf of BP.**

Each wildlife rehabilitation facility must have a Site Safety Plan in place prior to start-up. The Site Safety Plan must include checklists for measures to avoid physical, chemical, and biological hazards, safe animal handling procedures, and other emergency procedures and contact numbers.



Clinical Findings Associated With Oil Contamination Figure 17-1

Oiled birds can present any and all of the following physical and clinical signs:

–	Oil, moderate to severe, on feathers and skin
–	Irritation, thickening, cracking and/or bleeding of skin
–	Hypothermia (reduced body temperature)
–	Hyperthermia (increased body temperature)
–	Inflammation of conjunctiva and corneal surface of the eyes
–	Oil in mouth, nares, vent
–	Feather loss
–	Acute respiratory distress
–	Tarry black (bloody/oiled) or green (bile stained) droppings
–	Sternal recumbency (inability to stand)
–	Ataxia (weakness/uncoordinated)
–	Tremors, seizures or other signs of CNS/neuromuscular toxins
–	Shock

Further examination and diagnostic testing can reveal:

–	Dehydration
–	Anemia
–	Reduced kidney function
–	Pulmonary edema
–	Electrolyte imbalance
–	Acidosis
–	Fungal/bacterial/viral infections
–	Capture myopathy
–	Other capture-related injuries



Primary Professional Wildlife Service

Figure 17-2

Service	Contact	Contact Numbers
Wildlife Rehab & Education, Inc. 951 Power St League City, TX 77573 www.wrande.org	Sharon Schmalz	(281) 332-8319 (H) (713) 279-1417 (Pg)
Texas General Land Office La Porte, TX	Patrick Lynch	(361) 825-3004 (281) 470-6597
International Bird Rescue Research Center 4369 Cordelia Road Fairfield, CA 94585 www.ibrrc.org jay@ibrrc.org	Jay Holcomb	(707) 207-0380 (24hr) (707) 207-0380 x102 (707) 429-4052 (H)
Louisiana Marine Mammal Stranding Network	(Administered by LA Dept of Wildlife & Fisheries)	(504) 934-5337 (Pg)
LA Dept of Wildlife & Fisheries		(800) 442-2511 (24hr)
Florida Fish & Wildlife Conservation Commission		(239) 332-6966
Texas Marine Mammal Stranding Network Galveston, TX www.gulfbase.org/organization/view.php?oid=tmmsn dcowan@utmb.edu		(800) 962-6625 (409) 942-7034 (Pg)
Tri-State Bird Rescue & Research, Inc. 110 Possum Hollow Rd. Newark, DE 19711 www.tristatebird.org Oilprograms@tristatebird.org	Heidi Stout	(302) 737-9543



Federal & State Wildlife Agency Notifications

Figure 17-3

No.	Agency	Contact	Contact Numbers
US Fish & Wildlife Region II			
1	Region II Office Albuquerque, NM	Stephen Robertson	(505) 248-6669 (Day) (505) 286-1810 (H)
2	Texas Field Office East Matagorda Bay – North Houston, TX	John Huffman	(281) 286-8282 (Off) (281) 282-9344 (Fax)
3	Texas Field Office East Matagorda Bay – South Corpus Christi, TX	Clair Lee	(361) 994-9005 (Off) (361) 224-3432 (Pg)
US Fish & Wildlife Region IV			
1	Region IV Office Atlanta, GA	Diane Beeman	(404) 679-7094 (Off) (404) 895-7093 (C)
2	Louisiana Field Office Lafayette, LA	Buddy Goatcher	(337) 291-3100 (Off) (337) 280-1157 (C)
3	Alabama/Miss Field Office Daphne, AL	Warren Lorentz	(251) 441-5181 (Off)
4	Florida Field Office Panama City, FL	Dr. John Hemming	(850) 769-0552 (Off) (850) 215-1435 (H)
State Fish & Wildlife Agencies			
1	Texas Parks and Wildlife Austin, TX	Dave Buzan	(512) 912-7013 (Off) (512) 389-4848 (24hr)
2	LA Dept Wildlife & Fisheries Baton Rouge, LA	Jim Hanifen	(225) 765-2379 (Off) (225) 765-2441 (24hr) (225) 765-2935 (Direct)
3	Alabama Resources Division Dauphin Island, AL	Steve Heath	(251) 861-2882 (Off) (251) 968-7576
4	Mississippi Emergency Management Agency Jackson, MS	MS State Warning Point	(601) 352-9100 (Non-Emergency) (800) 222-6362 (24hr)
Flower Garden Bank National Marine Sanctuary			
1	NOAA Galveston, TX		(409) 621-5151 (Off)



Wildlife Rehabilitation Center Space Requirements

Figure 17-4

Space/Area	Square Footage
Front desk/admissions	250
Logistics Office	200
Kitchen/food storage	250
Husbandry area (Large central room)	1200
Supplies/storage	250
Wildlife cleaning area	750
Medical treatment/exam	200
Pathology/Lab/Cold storage	100
Isolation ward	200
Volunteer/Worker restroom	150
Bathrooms/Decon/Changing	200
Outside pool areas 10'x15'x2' Per 15 birds + access and maintenance space	3300
Non-hazardous & Hazardous (medical & oil) waste	
Indoor	50
Outdoor	400
Outside area for oily waste water	300
Loading dock/parking for 50 (opposite side of bldg from outside cages)	5000
Total interior sq ft	3800 ft²
Total exterior sq ft	9000 ft²
Total square feet	12800 ft²



18. DISPERSANT USE PLAN

A. Overview

Dispersants are chemicals used to remove floating oil from the water surface and disperse it into the water column in order to reduce impact to sensitive shoreline habitats and animals that are present on the water surface. Specially formulated products containing surface-active agents are sprayed onto the slicks by aircraft or boat and are applied undiluted or mixed with water. The dispersants reduce the oil/water surface tension and decrease the energy needed for the slick to break into small particles and mix into the water column. Some turbulence is needed to mix the dispersant into the oil and the treated oil into the water. The Dispersant Use Decision Tree (**Figure 18-1**) may be used to determine if dispersant operations are the optimum countermeasure during cleanup operations.

Dispersant use is strictly regulated and has very specific policies and procedures associated with it. Dispersant application requires approval of the Regional Response Team (RRT) through the Federal On-Scene Coordinator (FOSC). However, some areas in the Gulf of Mexico are designated as “pre-approved” for dispersant application. These areas require RRT notification from the FOSC. Additionally, the FOSC must approve any dispersant application by the Responsible Party.

B. Dispersants Inventory

Sufficient inventories of dispersants available to BP are detailed in **Figure 18-2**. Acquisition of dispersant and application vehicles is guaranteed through contracts and/or agreements with OSRO's and supply companies. For contract agreements, please see **Appendix D**.

C. Toxicity Data

Region VI pre-approval guidelines include performance of a bioassessment of potential impacts resulting from dispersant use in the Gulf of Mexico. Species present at the water surface and/or in the upper water column are most at risk of being directly impacted in a negative manner by dispersant application. The following table summarizes these types of resources:



ORGANISM TYPE	REPRESENTATIVE SPECIES	RISK FACTOR
Free-swimming shellfish	Brown Shrimp	Commercial species, planktonic eggs/larvae, during migration concentrate near surface at night
	White Shrimp	Commercial species, planktonic larvae, juveniles occur near water surface during offshore migration
Water column-spawning fish	Gulf Menhaden	Large commercial fishery, potential to affect planktonic eggs/larvae
Diving duck	Lesser Scaup	Recreationally managed, aggregate in large rafts floating on water surface, present over 10 miles from shore.

Toxicity values presented in the following summary represent the results of a bioassay used to determine dispersant toxicity to the species listed below (LC 50 test). The LC 50 value is the Lethal Concentration (LC in ppm) causing 50 percent mortality over a given period of time (i.e. 48-hour). The following is a summary for the dispersant COREXIT 9500/9527.

SPECIES	LC50 – COREXIT 9500	LC50 – COREXIT 9527
Menidia beryllina (inland silverside)	25.2 ppm @ 96-hrs	14.57 ppm @ 96-hrs
Fundulus heteroclitus (mummichog)	140 ppm @ 96-hrs	100 ppm @ 96-hrs
Artemia salina (brine shrimp)	21 ppm @ 48-hrs	50 ppm @ 48-hrs
Mysidopsis bahia (mysid shrimp)	32.23 ppm @ 48-hrs	24.14 ppm @ 48-hrs

A Material Safety Data Sheet for Corexit 9500 may be found in **Figure 18-9**. An MSDS for Corexit 9527 may be found in **Figure 18-10**.

D. Dispersant Effectiveness

Open water with sufficient depth and volume for mixing and dilution are the preferred conditions for dispersant application. Weathering of oil decreases the effectiveness of dispersants, therefore, initial application should be completed as soon as possible. Dispersants should be considered when the impact of floating oil on sensitive shoreline habitats is greater than the risk of mixing oil into the water column.

In the case of increased contact with an expanding slick after treatment, it should be noted that treated slicks may increase in size initially (10-17 hours) as the interfacial tension at the oil surface is reduced. However, by 18 hours post-treatment, the treated slick is broken up and becomes smaller in area. The net effect of dispersant application is



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Free-swimming shellfish	Brown Shrimp	Commercial species, planktonic eggs/larvae, during migration concentrate near surface at night
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a reduction in the amount of oil on the water surface. Below are results of an effectiveness assessment of Corexit 9500 & 9527 conducted by the U.S. Environmental Protection Agency.

SWIRLING FLASK DISPERSANT EFFECTIVENESS TEST WITH SOUTH LOUISIANA (S/L) AND PRUDHOE BAY (P/B) CRUDE OIL

VENDOR LAB REPORT

OIL	COREXIT 9500	COREXIT 9527
Prudhoe Bay Crude	45.3 %	37.4%
South Louisiana Crude	54.7%	63.4%
Average of Prudhoe Bay and South Louisiana Crudes	50.0%	50.4 %

U.S. EPA OFFICE OF RESEARCH AND DEVELOPMENT REPORT

OIL	COREXIT 9500	COREXIT 9527
Prudhoe Bay Crude	49.4	51%
South Louisiana Crude	45.4	31%
Average of Prudhoe Bay and South Louisiana Crudes	47.4	41%

E. Application Equipment

The following table lists providers of dispersant application equipment in the Gulf Coast area. Each of these organizations is either an approved BP OSRO (See **Figure 7-7**) or is a primary provider of MSRC & NRC, BP's primary equipment providers.

#	Equipment	Quantity/ Type	Location	Contractor	Phone No.
1	Aircraft Spraying	(2) DC-3	Houma, LA	ASI	985-851-6391
		BE 90 King Air	Stennis, MS	MSRC	800-645-7745
		C-130A	Coolidge, AZ	MSRC	800-645-7745
		C-130 with ADDS Pack	Port Everglade, FL	CCA	954-983-9880
2	Dispersant Spotter Aircraft	Aero Commander	Houma, LA	ASI	985-851-6391
		BE 90 King Air	Stennis, MS	MSRC	800-645-7745
3	Dispersant Skid System	(1) Purpose built response vessel	Houma, LA	CGA	888-242-2007
4	Vessel Spraying	(2) 110' Crew Boat	Fourchon, LA	Ampol	800-482-6765
5	Helicopter Dispersant Application System	(1) Helo Pack	Fourchon, LA	Ampol	800-482-6765
	Dispersant skid mounted units	Crew Boat	Eureka, CA Morgan City, LA Cape May, NJ St. Croix, V.I.	NRC	(800) 899-4672



F. Application Methods

There are two primary methods of applying dispersants to an oil spill. These methods involve the use of airplanes and helicopters for aerial application and the use of boats for on-water application. Below is a discussion of each application and information on the rates of application.

- **Aerial Dispersant Application**

Aerial application is one of the methods pre-approved by the Regional Response Team (RRT). This method involves the application of dispersants from an airplane, and typically involves the use of a DC-3 or C-130 which is directed by a spotter plane. The DC-3 and C-130 have payload capacities of 1000 and 3500-5000 gallons respectively. Aerial application can be hindered by poor weather (rain, fog, rough seas, etc.). Aerial application is allowed to take place only during daylight hours, and involves the use of undiluted dispersant. As a general rule, application rates are within a range of 3 to 7 gallons per acre.

- **Marine Dispersant Application**

The second method of dispersant application is from workboats using hand held equipment or mounted spray booms. Use of a portable fire pump or fixed fire fighting system from the workboat is recommended.

The system should operate between 40 and 80 psi, and should deliver seawater and dispersant at a rate sufficient to maintain a spray pattern capable of reaching the oil before being carried away by wind or turbulence. The ideal dispersant/sea water mixture is 3 to 10 percent dispersant. The concentration of dispersant should be calculated based on pump capacity, boom swath width, vessel speed, and estimated volume of oil to be treated over a specified area. A treatment rate of 5 gallons per acre is typical for marine applications. Approval for marine application is generally more difficult due to the additional agencies that must be consulted for approval.

G. Conditions for Use

The objective of the Regional Response Team (RRT VI and RRT IV) FOSC Dispersant Pre-Approval Guidelines and Checklist is to provide for a meaningful, environmentally safe, and effective dispersant operation. **Figure 18-5** provides a flowchart identifying considerations of the Federal On-Scene Coordinator for approving dispersant use. Additionally, a checklist of decision/implementation elements for dispersant use can be found in **Figure 18-7**.



Description of Pre-Authorization Area

Three zones have been established to delineate locations and conditions under which dispersant application operations may take place in waters of Region IV and VI. They are as follows:

<ul style="list-style-type: none"> • Green Zone: Pre-authorization for dispersant application. The Green Zone is defined as any offshore waters within Region IV and VI in which all of the following conditions apply:
<ol style="list-style-type: none"> 1) The waters are not classified within a “yellow” or “red” zone; 2) The waters are at least three miles from any shoreline and falling outside of any state’s jurisdiction; and 3) The water is at least ten meters deep.
<ul style="list-style-type: none"> • Yellow Zone: Waters requiring case-by-case approval. The Yellow Zone is defined as any waters within Region IV and VI which have not been designated as a “Red” zone and in which ANY of the following conditions apply:
<ol style="list-style-type: none"> 1) The waters fall under state or federal management jurisdiction. This includes any waters designated as marine reserves, National Marine Sanctuaries, National or State Wildlife Refugees or proposed or designated critical habitats; 2) The waters are within three miles of a shoreline and/or fall under state jurisdiction; 3) The waters are less than ten meters deep; and 4) The waters are in mangrove or coastal wetland ecosystems or directly over coral reefs which are less than ten meters of water. Coastal wetlands include submerged algal and sea grass beds.
<ul style="list-style-type: none"> • Red Zone: Exclusion zones – The Red Zone includes areas designated by the Region IV and VI Response Team in which dispersant use is prohibited. No dispersant application operations will be conducted in the Red Zone unless:
<ol style="list-style-type: none"> 1) Dispersant application is necessary to prevent or mitigate a risk to human health and safety, and/or 2) An emergency modification of this LOA is made on an incident-specific basis.

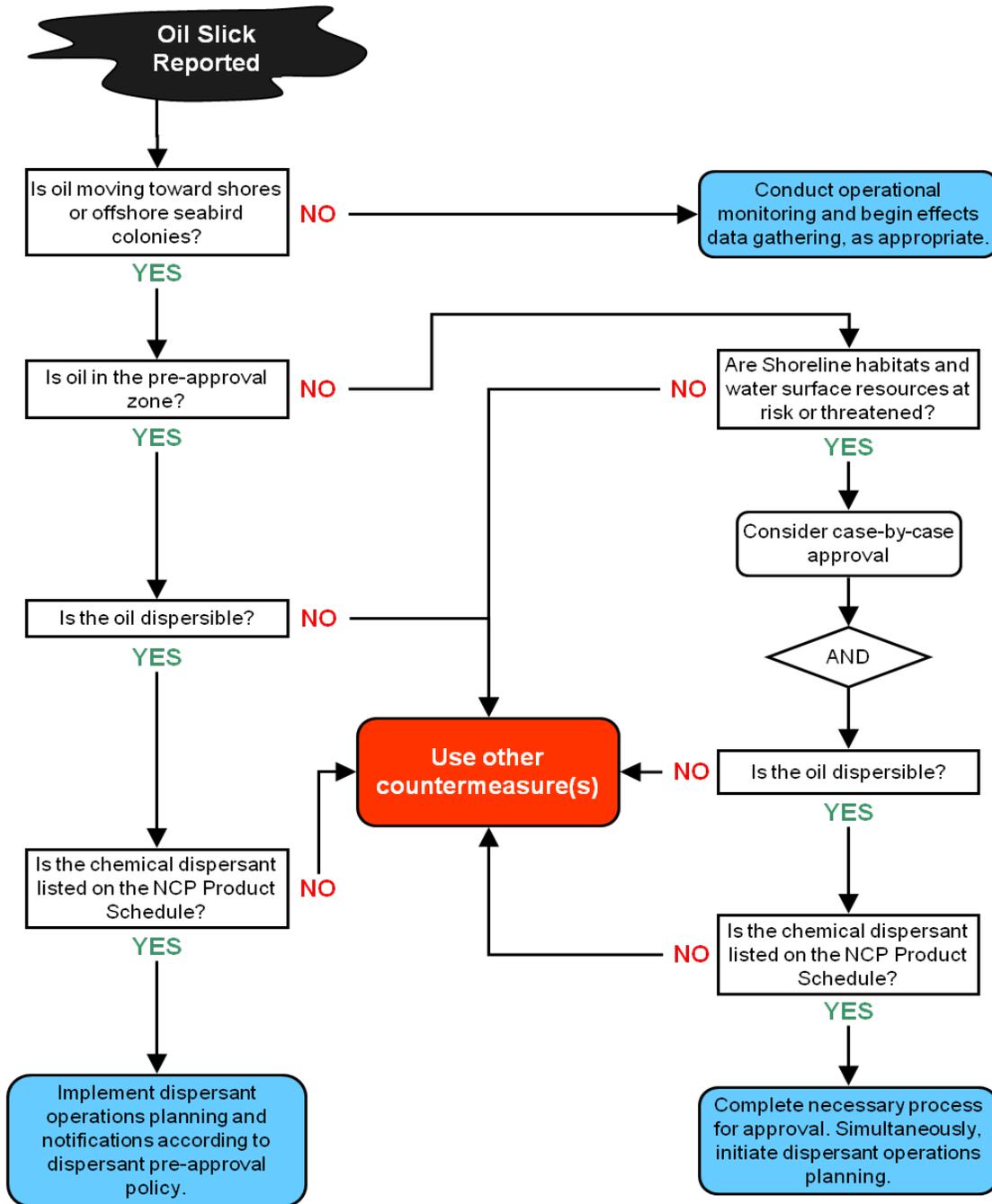
H. Approval Procedures and Forms

The dispersant pre-approval process is designed to provide an expedited format for the usage of dispersants during an oil spill incident of any magnitude. In addition to following through with the checklists and guidelines discussed previously, **Figures 18-4**, the party requesting permission to apply dispersants will have to complete and submit the RRT Application for Pre-Approval (**Figure 18-8**) as well as initially provide the information required by the Dispersant Pre-Approval Initial Call Checklist (**Figure 18-3**).



Dispersant Use Decision Tree

Figure 18-1





BP
Regional Oil Spill Response Plan – Gulf of Mexico

Section 18
Dispersant Use
Plan

Dispersant Inventory – Gulf Coast

Figure 18-2

Dispersant Stockpiles by Location (Updated 03/2009)			
Supplier & Phone	Location of Dispersants	Type	Quantity in Gallons
Airborne Support, Inc. (ASI) 985-851-6391	Houma, LA	Corexit 9527	3,355
MSRC (800) OIL-SPIL	Slaughter Beach, DE - DBRC Site	Corexit 9527	330
	Chesapeake City, MD - MSRC Site	Corexit 9527	9,130
	Portland, ME - OSRV	Corexit 9527	330
	Perth Amboy, NJ - OSRV	Corexit 9527	330
	Chesapeake City, MD - OSRV	Corexit 9527	330
	Virginia Beach, VA - OSRV	Corexit 9527	330
	San Juan, PR - MSRC Site	Corexit 9527	900
	Kiln, MS - Stennis Airport	Corexit 9527	22,260
	Kiln, MS - Stennis Airport	Corexit 9500	3,960
	Miami, FL - OSRV	Corexit 9527	800
	Pascagoula, MS - OSRV	Corexit 9527	800
	Fort Jackson, LA - OSRV	Corexit 9527	800
	Lake Charles, LA - OSRV	Corexit 9527	800
	Galveston, TX - OSRV	Corexit 9527	800
	Corpus Christi - OSRV	Corexit 9527	330
	Galveston, TX - MSRC Site	Corexit 9500	18,980
	Coolidge, AZ - Coolidge Airport	Corexit 9527	3,300
	Long Beach, CA - Tesoro Terminal	Corexit 9500	10,890
	Terminal Island, CA - OSRV	Corexit 9527	600
	Richmond, CA - MSRC Warehouse	Corexit 9527	11,500
	Richmond, CA - OSRV	Corexit 9527	605
	Everett, WA - Everett Warehouse	Corexit 9527	6,495
Ferndale, WA - CP Refinery	Corexit 9527	6,430	
Port Angeles, WA - OSRV	Corexit 9527	605	
Astoria, OR - OSRV	Corexit 9527	605	
Honolulu, HI - OSRV	Corexit 9527	605	
NRC National Response Corp. John Hielscher 631-224-9141 ext. 142	Morgan City, LA	COREXIT 9527	1,320
	Morgan City, LA	SPC 1000	220
	Morgan City, LA	BIO Disperse	1,045
	Toa Baja, PR	COREXIT 9527	5,005
	St. Croix, VI	COREXIT 9527	1,650
ONDEO Nalco	Sugarland, TX	Corexit 9500	11,000
Clean Caribbean & Americas	Ft. Lauderdale, FL	Corexit 9500	30,360
OSR / EARL +44 (0)20 7724 0102	Southampton, UK	Corexit 9500	5,283
	Bahrain, MENAS Base	Corexit 9500 (1 week activation)	3,963
	Singapore, SG	Corexit 9500 (1 week activation)	8,440
TOTAL QUANTITY (GALLONS)			174,486

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 18, Page 7 of 41 Pages
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DISPERSANT SPRAY OPERATION

Dispersant Spray Contractor

Name: _____

Address: _____

Street: _____

City: _____

State: _____ Zip Code: _____

Telephone: _____

Dispersant: Name: _____

Quantity Available: _____

Platform: Aircraft Type: _____

Multi-Engine () or Single-Engine ()

Boat Type: _____

Other: _____

Dispersant Load Capability (Gal): _____

Time to First Drop on the oil (Hours): _____



FOSC Dispersant Use Checklist

Figure 18-4

(Items on the far left of this checklist are keyed to letter and numbers on the top of the boxes in the FOSC Dispersant Use Flowchart and apply to offshore pre-approval only. INFORMATION AVAILABLE IN THE DISPERSANT PRE-APPROVAL INITIAL CALL CHECKLIST AND THE TABLE ON THE OTHER SHEET ARE NECESSARY TO COMPLETE THIS CHECKLIST.)

OIL SPILLED

- A. FOSC completes and evaluates DISPERSANT PRE-APPROVAL INITIAL CALL CHECKLIST.
- B. Ask spiller if dispersant spray operation is on alert pending completion of pre-approval use evaluation from FOSC.

[1] DEPLOY SMART

- A. Immediately deploy USCG Strike Team SMART Team to the spill site if dispersant use is likely. Every attempt should be made to implement the on-water monitoring component of the SMART monitoring protocols in every dispersant application. At a minimum, Tier 1 (visual) monitoring must occur during any dispersant operations approved in accordance with this Dispersant Pre-Approval Guidelines and Checklist.
- B. Immediately notify DOI/DOC survey specialist contact identified in Appendix A if dispersant use is likely.
- C. Deploy mechanical and/or *in-situ* burn operations, weather allowing.

[2] PRE-APPROVED DISPERSANT OPERATIONS ACTIVATION EVALUATION

- 1. Do you expect the use of dispersants in this case to provide an environmental benefit? The NOAA SSC should be contacted for trajectory and environmental fate analysis.

YES	<input type="checkbox"/>	⇒	GO TO SECTION 2 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 11 BELOW

- 2. Plot the position of the spill on the appropriate nautical chart, draw a circle about the spill source with a 10 nautical mile radius as a worst-case scenario for surface movement. Hash mark any area within the circle that is in waters less than 10 meters deep or 3 nautical miles from shore. What is left is considered the dispersant operational area. Is the dispersant operational area to be in offshore water that is no less than 10 meters deep and at least 3 nautical miles from the nearest shoreline?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 3 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 9 BELOW

- 3. Was a contractual relationship with a dispersant spray contractor established prior to the spill?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 4 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 9 BELOW

- 4. Dispersant Platform

Consider the amount of oil spilled, the location of the operational area, volume of available dispersants to be used and the timeframe in which the required equipment can be on-scene, what is the most effective application platform? More than one platform type may be considered.

If Aerial ⇒	GO TO SECTION 5 BELOW
If Boat ⇒	GO TO SECTION 6 BELOW
If Other ⇒	GO TO SECTION 7 BELOW



FOSC Dispersant Use Checklist (continued)

Figure 18-4

5. Aerial Application Operational Conditions

[A] If on-scene weather was available from spiller on initial telephone contact, use the information to complete this section and assume for planning purposes that it will remain the same during the timeframe in which this decision is operating. At the earliest opportunity, contact the SSC for detailed weather but do not delay this decision process for the SSC weather input (Note: All dispersant operations are carried out during daylight hours only).

Winds less than or equal to 25 knots, and
 Visibility greater than or equal to 3 nautical miles, and
 Ceiling greater than or equal to 1,000 feet?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 8 BELOW
NO	<input type="checkbox"/>	⇒	GO TO [B] IN THIS SECTION BELOW

[B] Notify the spiller's representative that the dispersant use decision has been delayed until the weather improves and the Dispersant Spray Operation is to be placed on standby status.

GO TO [C] IN THIS SECTION BELOW

[C] Consult with RRT 6 members. Contact the USCG co-chair at USCG District 8, EPA, DOI, DOC and Louisiana and/or Texas RRT representatives to notify them that dispersants are being considered but delayed due to weather. When the weather is beginning to improve:

BEGIN AGAIN IN SECTION 2 ABOVE

6. Boat Application Operational Conditions

[A] If on-scene weather was available from the spiller on initial contact, use the information to complete this section and assume for planning purposes that it will remain the same during the timeframe in which this decision is operating. At the earliest opportunity, contact the SSC for detailed weather, but do not delay this decision process for SSC weather input (Note: All dispersant operations are carried out during daylight hours only).

Wave height such that the boats to be used for the dispersant application can conduct an effective and safe spray operation?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 8 BELOW
NO	<input type="checkbox"/>	⇒	GO TO [B] IN THIS SECTION BELOW

[B] Notify the spiller's representative that the dispersant use decision has been delayed until the sea state improves and the Dispersant Spray Operation is to be placed on standby status.

GO TO [C] IN THIS SECTION BELOW

[C] Consult with RRT 6 members. Contact the USCG co-chair at USCG District 8, EPA, DOI, DOC and Louisiana and/or Texas RRT representatives to notify them that dispersants are being considered but delayed due to sea state. When the sea state is beginning to improve:

BEGIN AGAIN IN SECTION 2 ABOVE



FOSC Dispersant Use Checklist (Cont'd)

Figure 18-4

7. Immediately consult with the Scientific Support Coordinator (SSC) to evaluate potential alternatives to the Aircraft and Boat Platforms.

[A] After a briefing on the spill response situation from the FOSC, does the SSC recommend aerial application of dispersants?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 5 ABOVE
NO	<input type="checkbox"/>	⇒	GO TO [B] IN THIS SECTION BELOW

[B] After a briefing on the spill response situation from the FOSC, does the SSC recommend boat application of dispersants?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 6 ABOVE
NO	<input type="checkbox"/>	⇒	GO TO [C] IN THIS SECTION BELOW

[C] After a briefing on the spill response situation from the FOSC, does the SSC recommend an alternative platform?

YES	<input type="checkbox"/>	⇒	DEVELOP A PLAN AND GO TO SECTION 8 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 11 BELOW

8. Is the dispersant to be used listed on the NCP Product Schedule and considered appropriate for existing environmental and physical conditions?

YES	<input type="checkbox"/>	⇒	GO TO SECTION 10 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 9 BELOW

9. **GO NO FURTHER IN THIS FOSC DISPERSANT USE CHECKLIST.** The request for dispersant use does not qualify under the guidelines for pre-approval use of dispersants in Region 6. Contact your SSC and begin the dispersant use approval process as specified in the RRT 6 Regional Contingency Plan Subpart H Authorization (Authorization for Use of Dispersants in Non-Life Threatening Situations)

10. Dispersability
Refer to the Dispersant Pre-Approval Initial Call Checklist
Does the available technical information suggest that dispersion is likely given the spilled oil, anticipated oil weathering and selected dispersant? Use the FOSC Dispersant Use Oil Table and any technical sources such as the SSC to make this assessment.

YES	<input type="checkbox"/>	⇒	GO TO SECTION 12 BELOW
NO	<input type="checkbox"/>	⇒	GO TO SECTION 11 BELOW



FOSC Dispersant Use Checklist (Cont'd)

Figure 18-4

11. **GO NO FURTHER IN THIS FOSC DISPERSANT USE CHECKLIST.** In this case dispersant use is either inappropriate for this response or will probably not be considered to be effective relative to the effort required.

Concentrate your efforts on Mechanical and/or *in-situ* burn operations.

Note: You may want to consider dispersant pre-approval use at a later time if the field situation changes (i.e., becomes a continuous spill or has a new instantaneous release.) In such an event, make sure the Initial Call Checklist has been updated and return to the start of this checklist (OIL SPILLED ON PAGE 6.)

12. INITIATE APPLICATION OF DISPERSANTS WITHIN THESE RRT GUIDES.

- ◆ Water depth \geq 10 meters and no less than 3 nautical miles from nearest shoreline.
- ◆ The SMART controller/observer should be over the spray site before the start of the operation. If possible, a DOI/DOC-approved marine mammal/turtle and pelagic/migratory birds survey specialist will accompany the SMART observer, but the operation will not be delayed for that individual (see Appendix A for contact information).
Note: The purpose of SMART monitoring is to confirm best professional advice related to the potential success of dispersant use. Given the uncertainty involved relating to physical and environmental condition, oil weathering and dispersant and oil interaction, we must rely on positive feedback from the monitors to continue dispersant application.
- ◆ Personal protective equipment for personnel on-site will conform to the appropriate dispersant's MSDS.
- ◆ If dispersant platform is an aircraft, spray aircraft will maintain a minimum 1000 foot horizontal separation from rafting flocks of birds. Caution will be taken to avoid spraying over marine mammals and marine turtles.
- ◆ If dispersant platform is a boat:
 - ◆ If the system involves spray arms or booms that extend out over the edge of the boat and have fan type nozzles that spray a fixed pattern of dispersant, the following ASTM standards apply:
 - ◆ **ASTM F 1413-92** Standard Guide for Oil Spill Dispersant Application Equipment: Boom and Nozzle Systems.
 - ◆ **ASTM F 1460-93** Standard Practice for Calibrating Oil Spill Dispersant Application Equipment Boom and Nozzle Systems.
 - ◆ **ASTM F 1737-96** Standard Guide for Use of Oil Spill Dispersant Application Equipment during Spill Response: Boom and Nozzle Systems.
 - ◆ If the system involves the use of a fire monitor and/or fire nozzle to apply the dispersants, a straight and narrow "firestream" flow of dispersant directly into the oil is to be avoided. At this time (May 2000), there are no applicable ASTM standards for these types of systems.
- ◆ If an alternate dispersant platform is used, the Operation Plan should include dispersant application guidelines.
- ◆ The FOSC is to notify the RRT as soon as practicable after the approval is given to the RP.



FOSC Dispersant Use Checklist (Cont'd)

Figure 18-4

GO TO SECTION 13 BELOW

13. The RRT (EPA, DOI, DOC and the State of Louisiana and/or the State of Texas) must be kept informed on the status of the dispersant application throughout the operation. Provided the dispersant application is successful and operational results are positive, no RRT approval will be required for additional sorties and passes.

GO TO SECTION 14 BELOW

14. At the completion of the dispersant operation, send the following to the RRT representatives:
1. This completed Checklist
 2. The Dispersant Pre-Approval Initial Call Checklist
 3. A one page summary of the operation to date
 4. Other information as necessary

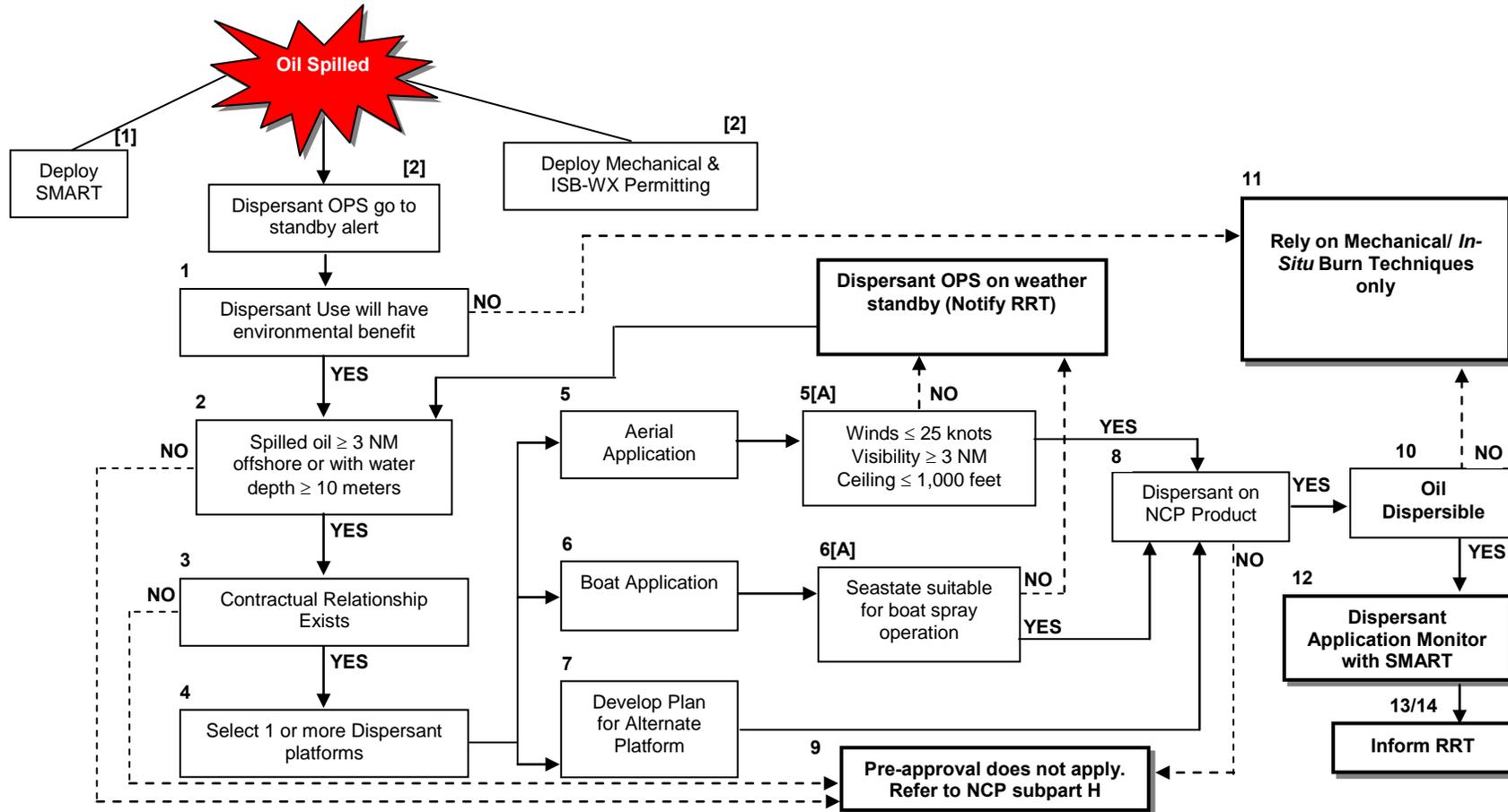
Provide the RRT post-application information-results within 24 hours of the dispersant application. Formal convening of the RRT, however, is not necessary. Follow-up operation by insuring that flight logs and SMART team logs are secured should RRT members request additional documentation



BP
Regional Oil Spill Response Plan – Gulf of Mexico

FOSC Dispersant Use Flowchart

Figure 18-5



Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSE Document Mgmt Administrator
 Issuing Dept.: GOM SPU
 Control Tier: Tier 2 - GoM Region
 Section 18, Page 15 of 41 Pages
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FOSC Dispersant Use Oil Table

Figure 18-6

General Dispersibility Relative to API Gravity and Pour Point

Probability difficult or impossible to disperse	Medium weight material. Fairly persistent. Probably difficult to disperse if water temperature is below pour point of material.	Lightweight material. Relatively non-persistent. Probably difficult to disperse if water temperature is below pour point of material.	No need to disperse. Very light weight material. Oil will dissipate rapidly.
	Medium weight material. Fairly persistent. Easily dispersed if treated properly.	Lightweight material. Relatively non-persistent. Easily dispersed.	
API Gravity	17 .953	34.5 .852	45 .802

This table provides general guidance only. Note that specific dispersant formulations are designed to treat heavier, more viscous oils. Consult manufacturer recommendations prior to application and recommendations from monitoring team for continued use.



FOSC Dispersant Decision / Implementation Element Checklist (cont'd) Figure 18-7

Note: Need all “YES” answers before dispersant use is acceptable.

YES	NO	<p>4. Can dispersant application be conducted safely and effectively given the physical environment?</p> <p>Environmental parameters:</p> <ul style="list-style-type: none"> * wind less than or equal to 25 knots * visibility greater than or equal to 3 miles * ceiling greater than or equal to 1000 feet * operations during daylight hours only
<input type="checkbox"/>	<input type="checkbox"/>	
YES	NO	<p align="center">DECISION ELEMENT</p> <p>5. Are sufficient equipment and personnel available to conduct aerial dispersant application operations within the window of opportunity?</p> <p>Note: Refer to elements and position descriptions under the Dispersant Operations Group Supervisor in the Operations Section. Other tools are available to assess this such as the NOAA Dispersant Mission Planner.</p>
<input type="checkbox"/>	<input type="checkbox"/>	
YES	NO	<p>6. Has a Site Safety Plan for dispersant operations been completed?</p>
<input type="checkbox"/>	<input type="checkbox"/>	
YES	NO	<p>7. Is the spill/oil to be dispersed within a Pre-Approval Zone?</p> <p>Refer to Section II within the RRT Dispersant Pre-Approval Agreement</p> <p>If the spill/oil is NOT in a Pre-Approved Zone, has approval been granted?</p> <p>Submit “RRT Documentation/Application Form for Dispersant Use” to the Incident Specific RRT members with request for approval.</p> <p>Dispersant use in non-approved areas must be repeated by the OSC and approved by EPA and the affected state(s) after consultation with DOC and DOI.</p>
<input type="checkbox"/>	<input type="checkbox"/>	
YES	NO	<p>8. Are the necessary equipment and trained personnel available to conduct the recommended monitoring operations?</p> <p>The recommended monitoring protocol in the RRT Region IV is the Special Monitoring for Advanced Response Technologies or SMART. The Gulf Strike Team or Atlantic Strike Team is available to support and provide monitoring assistance.</p> <p>It may not be appropriate to base Go/No Go or continue/discontinue decisions solely on results from the SMART monitoring team since dispersant effectiveness is often delayed or not totally and easily conclusive.</p> <p>Monitoring is recommended but not strictly required (should not be a showstopper for operation).</p>
<input type="checkbox"/>	<input type="checkbox"/>	



FOSC Dispersant Decision / Implementation Element Checklist (Cont'd) Figure 18-7

Note: Need all “YES” answers before dispersant use is acceptable.

YES	NO	
<input type="checkbox"/>	<input type="checkbox"/>	<p>9. Has the overflight to assure that endangered species are not in the application area been conducted?</p> <p>The provisions of the Section 7 consultation in regard to the RRT Pre-Approval Agreement requires an overflight of the application area to ensure endangered species are not threatened or endangered by the operation.</p>
YES	NO	
<input type="checkbox"/>	<input type="checkbox"/>	<p>10. Has a Dispersant Operations Plan been completed?</p> <p>Attached within this plan is a Dispersant Operations Plan template. The completion of this template should provide the OSC and Unified Command with a suitable and complete plan to support and implement the dispersant effort.</p>



Dispersant Application Form For Region VI RRT Dispersant (continued)

Figure 18-8

IV. DESCRIPTION OF AREA OVER WHICH DISPERSANTS WERE APPLIED:

1. Description from Shoreline: _____
2. Depth of Water: _____
3. Jurisdiction (i.e., federal or state): _____
4. Special Management Zone Area (as defined in LOAs): _____
5. Safety Zone Established in Operational Area: _____

V. AVAILABILITY OF PERSONNEL AND EQUIPMENT:

1. Availability of Application and Spotter Aircraft/Vessel: _____
 Source: _____
 Point of Contact: _____
 Type: _____
 Travel Time to Spill: _____
2. Type of Aircraft/Vessel Used: _____
3. Aircraft/Vessel's Dispersant Load Capability: _____
4. Availability of Qualified Personnel: _____
 Source: _____
 Point of Contact: _____
 Travel Time to Spill: _____
5. Time Required for Delivery to the Aircraft Staging Area: _____

VI. INFORMATION ON DISPERSANT PRODUCT:

1. Name of Dispersant: _____
2. Manufacturer: _____
3. Amount Available: _____
4. Source: _____

**** A Material Safety Data Sheet of the Product Should be Attached Here**

VII. IMPLEMENTATION OF RECOMMENDED MONITORING PROTOCOLS:

1. Was the Gulf Strike Team's SMART monitoring protocol deployed? _____

**** A full report documenting the activities and results of any monitoring activities should be attached here.**



Material Safety Data Sheet – Corexit 9500

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : COREXIT® 9500
 APPLICATION : OIL SPILL DISPERSANT
 COMPANY IDENTIFICATION : Nalco Energy Services, L.P.
 P.O. Box 87
 Sugar Land, Texas
 77487-0087
 EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC
 NFPA 704M/HMIS RATING
 HEALTH : 1 / 1 FLAMMABILITY : 1 / 1 INSTABILITY : 0 / 0 OTHER :
 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
Distillates, petroleum, hydrotreated light	64742-47-8	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

WARNING
 Combustible.
 Keep away from heat. Keep away from sources of ignition - No smoking. Keep container tightly closed. Do not get in eyes, on skin, on clothing. Do not take internally. Avoid breathing vapor. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water.
 Wear suitable protective clothing.
 Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :
 Eye, Skin
 HUMAN HEALTH HAZARDS - ACUTE :
 EYE CONTACT :
 May cause irritation with prolonged contact.

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087 • (281)263-7000

For additional copies of an MSDS visit www.nalco.com and request access



Material Safety Data Sheet – Corexit 9500 (Cont'd) Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

SKIN CONTACT :
May cause irritation with prolonged contact.

INGESTION :
Not a likely route of exposure. Can cause chemical pneumonia if aspirated into lungs following ingestion.

INHALATION :
Repeated or prolonged exposure may irritate the respiratory tract.

SYMPTOMS OF EXPOSURE :
Acute :
A review of available data does not identify any symptoms from exposure not previously mentioned.
Chronic :
Frequent or prolonged contact with product may defat and dry the skin, leading to discomfort and dermatitis.

AGGRAVATION OF EXISTING CONDITIONS :
Skin contact may aggravate an existing dermatitis condition.

4. FIRST AID MEASURES

EYE CONTACT :
Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

SKIN CONTACT :
Immediately wash with plenty of soap and water. If symptoms develop, seek medical advice.

INGESTION :
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. If conscious, washout mouth and give water to drink. Get medical attention.

INHALATION :
Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN :
Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : 181.4 °F / 83 °C (PMCC)

LOWER EXPLOSION LIMIT : Not flammable

UPPER EXPLOSION LIMIT : Not flammable

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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

EXTINGUISHING MEDIA :

Alcohol foam, Carbon dioxide, Foam, Dry powder, Other extinguishing agent suitable for Class B fires, For large fires, use water spray or fog, thoroughly drenching the burning material.
Water mist may be used to cool closed containers.

UNSUITABLE EXTINGUISHING MEDIA :

Do not use water unless flooding amounts are available.

FIRE AND EXPLOSION HAZARD :

Low Fire Hazard; liquids may burn upon heating to temperatures at or above the flash point. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of sulfur (SOx) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Do not touch spilled material. Remove sources of ignition. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :

Use with adequate ventilation. Keep the containers closed when not in use. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE CONDITIONS :

Store away from heat and sources of ignition. Store separately from oxidizers. Store the containers tightly closed.

SUITABLE CONSTRUCTION MATERIAL :

Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :
Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :
Substance(s)
Oil Mist
TWA: 5 mg/m3
STEL: 10 mg/m3

Propylene Glycol
OSHA/PEL :
Substance(s)
Oil Mist
TWA: 5 mg/m3
STEL: 10 mg/m3

Propylene Glycol
AIHA/WEEL :
Substance(s)

ENGINEERING MEASURES :
General ventilation is recommended.

RESPIRATORY PROTECTION :
Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge, with a Particulate pre-filter. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :
Nitrile gloves, PVC gloves

SKIN PROTECTION :
Wear standard protective clothing.

EYE PROTECTION :
Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :
Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION :
Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087 • (281)263-7000
For additional copies of an MSDS visit www.nalco.com and request access
4 / 10

Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
GoM HSSE Document Mgmt Administrator
Issuing Dept.: GOM SPU
Control Tier: Tier 2 - GoM Region
Section 18, Page 25 of 41 Pages
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Material Safety Data Sheet – Corexit 9500 (Cont'd)

Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Hazy Amber
ODOR	Hydrocarbon
SPECIFIC GRAVITY	0.95 @ 60 °F / 15.6 °C
DENSITY	7.91 lb/gal
SOLUBILITY IN WATER	Miscible
pH (100 %)	6.2
VISCOSITY	177 cps @ 32 °F / 0 °C 70 cps @ 60 °F / 15.6 °C @ 104 °F / 40 °C
VISCOSITY	@ 32 °F / 0 °C @ 60 °F / 15.6 °C 22.5 cst @ 104 °F / 40 °C
POUR POINT	< -71 °F / < -57 °C
BOILING POINT	296 °F / 147 °C
VAPOR PRESSURE	15.5 mm Hg @ 100 °F / 37.8 °C

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY :
Stable under normal conditions.

HAZARDOUS POLYMERIZATION :
Hazardous polymerization will not occur.

CONDITIONS TO AVOID :
Heat

MATERIALS TO AVOID :
Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :
Under fire conditions: Oxides of carbon, Oxides of sulfur

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :
This product is not expected to be a sensitizer.

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Material Safety Data Sheet – Corexit 9500 (Cont'd) Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: Moderate

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

The following results are for the product.

ACUTE INVERTEBRATE RESULTS :

Species	Exposure	LC50	EC50	Test Descriptor
Acartia tonsa	48 hrs	34 mg/l		Product
Artemia	48 hrs	20.7 mg/l		Product

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	50 - 70%

The portion in water is expected to float on the surface.

BIOACCUMULATION POTENTIAL

Component substances have a potential to bioconcentrate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Low

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

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Material Safety Data Sheet – Corexit 9500 (Cont'd) Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

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Hazardous Waste: D018

Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state, and federal regulations for specific requirements.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT :

For Packages Less Than Or Equal To 119 Gallons:

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

For Packages Greater Than 119 Gallons:

Proper Shipping Name : COMBUSTIBLE LIQUID, N.O.S.
Technical Name(s) : PETROLEUM DISTILLATES
UN/ID No : NA 1993
Hazard Class - Primary : COMBUSTIBLE
Packing Group : III

Flash Point : 83 °C / 181.4 °F

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

- Distillates, petroleum, hydrotreated light : Irritant
- Propylene Glycol : Exposure Limit, Eye irritant
- Organic sulfonic acid salt : Irritant

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PRODUCT

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EMERGENCY TELEPHONE NUMBER(S)

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CERCLA/SUPERFUND, 40 CFR 117, 302 :
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- X Immediate (Acute) Health Hazard
- Delayed (Chronic) Health Hazard
- Fire Hazard
- Sudden Release of Pressure Hazard
- Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :
This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA) :
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :
None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :
None of the substances are specifically listed in the regulation.

Substance(s)	Citations
• Propylene Glycol	Sec. 111

CALIFORNIA PROPOSITION 65 :
This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :
None of the substances are specifically listed in the regulation.

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Material Safety Data Sheet – Corexit 9500 (Cont'd) Figure 18-9



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® 9500

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department
Date issued : 06/14/2005
Version Number : 1.6

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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
GoM HSSE Document Mgmt Administrator
Issuing Dept.: GOM SPU
Control Tier: Tier 2 - GoM Region
Section 18, Page 31 of 41 Pages
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Material Safety Data Sheet – Corexit 9527 **Figure 18-10**



MATERIAL SAFETY DATA SHEET
PRODUCT
COREXIT® EC9527A
EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : COREXIT® EC9527A
APPLICATION : OIL SPILL DISPERSANT
COMPANY IDENTIFICATION : Nalco Energy Services, L.P.
P.O. Box 87
Sugar Land, Texas
77487-0087
EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC
NFPA 704M/HMIS RATING
HEALTH : 2 / 2 FLAMMABILITY : 2 / 2 INSTABILITY : 0 / 0 OTHER :
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
2-Butoxyethanol	111-76-2	30.0 - 60.0
Organic sulfonic acid salt	Proprietary	10.0 - 30.0
Propylene Glycol	57-55-6	1.0 - 5.0

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

WARNING
Eye and skin irritant. Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver. Combustible.
Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Wear suitable protective clothing. Keep container tightly closed. Flush affected area with water. Keep away from heat. Keep away from sources of ignition - No smoking.
May evolve oxides of carbon (COx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE :
Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :
Can cause mild to moderate irritation.

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SKIN CONTACT :

Can cause mild to moderate irritation.

INGESTION :

Not a likely route of exposure. Large quantities may cause kidney and liver damage.

INHALATION :

Not a likely route of exposure. Aerosols or product mist may irritate the upper respiratory tract.

SYMPTOMS OF EXPOSURE :

Acute :

Excessive exposure may cause central nervous system effects, nausea, vomiting, anesthetic or narcotic effects.

Chronic :

Repeated or excessive exposure to butoxyethanol may cause injury to red blood cells (hemolysis), kidney or the liver.

AGGRAVATION OF EXISTING CONDITIONS :

Skin contact may aggravate an existing dermatitis condition.

4. FIRST AID MEASURES

EYE CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

SKIN CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

INGESTION :

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If symptoms develop, seek medical advice.

INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : 163 °F / 72.7 °C (TCC)

EXTINGUISHING MEDIA :

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of carbon (COx) under fire conditions.

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Material Safety Data Sheet – Corexit 9527 (Cont'd) Figure 18-10



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PRODUCT
COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :
Restrict access to area as appropriate until clean-up operations are complete. Stop or reduce any leaks if it is safe to do so. Do not touch spilled material. Ventilate spill area if possible. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

METHODS FOR CLEANING UP :
SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :
Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :
Avoid eye and skin contact. Do not take internally. Ensure all containers are labelled. Keep the containers closed when not in use.

STORAGE CONDITIONS :
Store the containers tightly closed.

SUITABLE CONSTRUCTION MATERIAL :
PVC, Stainless Steel 316L, Hastelloy C-276, MDPE (medium density polyethylene), Nitrile, Plexiglass, Kalrez, EPDM, TFE, Alfax, Teflon, HDPE (high density polyethylene), Neoprene, Aluminum, Polypropylene, Polyethylene, Carbon Steel C1018, Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

UNSUITABLE CONSTRUCTION MATERIAL :
Copper, Mild steel, Brass, Nylon, Buna-N, Natural rubber, Polyurethane, Hypalon, Viton, Ethylene propylene

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :
Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :
Substance(s)
2-Butoxyethanol TWA: 20 ppm , 97 mg/m3

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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
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Document Administrator: Kristy McNease,
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Issuing Dept.: GOM SPU
Control Tier: Tier 2 - GoM Region
Section 18, Page 34 of 41 Pages
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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



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Propylene Glycol
OSHA/PEL :
Substance(s)
2-Butoxyethanol TWA: 25 ppm , 120 mg/m3 (Skin)

Propylene Glycol
AIHA/WEEL :
Substance(s)
For propylene glycol, an 8 hour TWA of 10 mg/m3 (aerosol) and 50 ppm (total).

ENGINEERING MEASURES :
General ventilation is recommended.

RESPIRATORY PROTECTION :
Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Multi-contaminant cartridge (Gold) with a Particulate pre-filter (Purple). In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :
Neoprene gloves, Nitrile gloves, Butyl gloves, PVC gloves

SKIN PROTECTION :
Wear standard protective clothing.

EYE PROTECTION :
Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :
Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION :
Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Clear Amber
ODOR	Mild
SPECIFIC GRAVITY	0.98 - 1.02
DENSITY	8.2 - 8.5 lb/gal

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(281)263-7000
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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
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Control Tier: Tier 2 - GoM Region
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Material Safety Data Sheet – Corexit 9527 (Cont'd) Figure 18-10



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SOLUBILITY IN WATER	Complete
pH (100 %)	6.1
VISCOSITY	160 cst @ 32 °F / 0 °C
POUR POINT	< -40 °F / < -40 °C
BOILING POINT	340 °F / 171 °C
VAPOR PRESSURE	< 5 mm Hg @ 100 °F / 38 °C Same as water
EVAPORATION RATE	0.1

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY :

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Freezing temperatures.

MATERIALS TO AVOID :

None known

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION :

Based on our hazard characterization, the potential human hazard is: High

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

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Material Safety Data Sheet – Corexit 9527 (Cont'd)

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EMERGENCY TELEPHONE NUMBER(S)
(800) 424-9300 (24 Hours) CHEMTREC

ACUTE FISH RESULTS :

Species	Exposure	LC50	Test Descriptor
Turbot	96 hrs	50 mg/l	

Rating :

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	10 - 30%	70 - 90%

The portion in water is expected to be soluble or dispersible.

BIOACCUMULATION POTENTIAL

Component substances have a low potential to bioconcentrate.

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Moderate
Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT :

For Packages Less Than Or Equal To 119 Gallons:

Proper Shipping Name :

PRODUCT IS NOT REGULATED DURING TRANSPORTATION

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MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

For Packages Greater Than 119 Gallons:

Proper Shipping Name :	COMBUSTIBLE LIQUID, N.O.S.
Technical Name(s) :	2-BUTOXYETHANOL
UN/ID No :	NA 1993
Hazard Class - Primary :	COMBUSTIBLE
Packing Group :	III

Flash Point :	72.7 °C / 163 °F
---------------	------------------

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name :	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
------------------------	--

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name :	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
------------------------	--

15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :
Based on our hazard evaluation, none of the substances in this product are hazardous.

CERCLA/SUPERFUND, 40 CFR 117, 302 :
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

- X Immediate (Acute) Health Hazard
- X Delayed (Chronic) Health Hazard
- X Fire Hazard
- Sudden Release of Pressure Hazard
- Reactive Hazard

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087
(281)263-7000
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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
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UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
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Issuing Dept.: GOM SPU
Control Tier: Tier 2 - GoM Region
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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :

This product contains the following substance(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals

Hazardous Substance(s)	CAS NO	% (w/w)
Glycol Ethers		0.0 - 0.0

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

None of the substances are specifically listed in the regulation.

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :

This product contains the following substances listed in the regulation:

Substance(s)	Citations
<ul style="list-style-type: none"> 2-Butoxyethanol Propylene Glycol 	Sec. 111

CALIFORNIA PROPOSITION 65 :

This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :

None of the substances are specifically listed in the regulation.

STATE RIGHT TO KNOW LAWS :

The following substances are disclosed for compliance with State Right to Know Laws:

2-Butoxyethanol	111-76-2
Propylene Glycol	57-55-6

NATIONAL REGULATIONS, CANADA :

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION :

D2B - Materials Causing Other Toxic Effects - Toxic Material

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087
(281)263-7000
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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
GoM HSSE Document Mgmt Administrator
Issuing Dept.: GOM SPU
Control Tier: Tier 2 - GoM Region
Section 18, Page 39 of 41 Pages
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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

16. OTHER INFORMATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087

(281)263-7000

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Material Safety Data Sheet – Corexit 9527 (Cont'd)

Figure 18-10



MATERIAL SAFETY DATA SHEET

PRODUCT

COREXIT® EC9527A

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department
Date issued : 02/20/2004
Version Number : 1.6

Nalco Energy Services, L.P. P.O. Box 87 • Sugar Land, Texas 77487-0087
(281)263-7000
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Title of Document: Regional Oil Spill Response Plan
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19. IN-SITU BURNING PLAN

Introduction

The primary objective of oil spill response is to remove as much oil as possible from the water as quickly as possible in order to mitigate impact to near shore and shoreline habitats. Open water in-situ burning of oil may be the most rapid response technique and must be considered as a primary alternative response technology for large incidents (Sector New Orleans ACP). *In-Situ* burning offers the potential to rapidly convert large quantities of oil into primary combustion products with a small percentage of other unburned and residual by products. This offers the potential of accelerating cleanup of spilled petroleum on the water surface and reducing the risk of petroleum-related impacts on environmentally sensitive areas.

The effective use of *in-situ* burning requires a specific set of operational, environmental, and oil spill (slick) conditions in addition to governmental procedures that must be adhered throughout the burning process. BP has procedures in place to provide guidance in seeking approval to implement an *in-situ* burn. The following describes specific information related to application forms and checklists that must be completed and filed with appropriate governmental agencies prior to receiving approval.

A. *In-Situ* Burning Equipment

The primary *in-situ* burn equipment providers that may be utilized by BP are listed below:

Owner/Location	Equipment	Contact Number(s)
TX General Land Office Nederland, TX Corpus Christi, TX	500' 24" Fire Boom 1,000' 24" Fire Boom	(800) 832-8224 (24hr) (409) 727-7481 (O) (361) 825-3300 (O)
Crucial Inc. Gretna, LA	500' 30" Fire Boom	(504) 347-9292
MSRC Miami, FL	500' 30" Fire Boom	(305) 347-2200
CCA Clean Caribbean & Americas Ft. Lauderdale, FL	1,650' 30" Fire Boom	(954) 983-9880
MSRC (Available for purchase)	500' 43" Fire Boom 500' 43" Fire Boom 900' 43" Fire Boom	(800) OIL SPILL (800) 259 6772



B. In-Situ Burning Procedures

The following procedural items should be considered during activities to initiate a potential burn operation. Regulatory authorities will be concerned with both the general actions as well as those related to actual ignition. *In-Situ* burn operations are only allowed under the direction of a trained fire ecologist/practitioner utilizing safe fire management techniques to control and contain the burn while preventing accidental ignition of adjacent areas.

<i>In-Situ</i> Burn General Procedures	
a.	The PSC will initiate activities to complete required <i>in-situ</i> burn applications (refer to Figures 19-3). The application procedure will continue regardless of spill location or weather conditions (i.e., sea state) during the application period.
b.	The PSC will contact the Federal On-Scene Coordinator (FOSC) to inform them of BP's intent to seek approval to conduct <i>in-situ</i> burn operations at specified location(s).
c.	The PSC will submit an <i>In-Situ</i> Burn Site Safety Plan to the FOSC for approval prior to <i>in-situ</i> burn operations.
d.	Incident Commander will review and approve the <i>In-Situ</i> Burn application (see Figure 19-3).
e.	The PSC will submit the <i>In-Situ</i> Burn application to the FOSC as soon as possible or within the first several hours after a major spill event has been reported.
f.	The PSC will place professional <i>in-situ</i> burn consultants and contractors on standby during the approval decision process by appropriate governmental agencies.
g.	In the event the application is denied, the PSC will stand-down the consultants and contractors that were on standby alert.
h.	In the event the application is approved, the PSC will initiate mobilization of necessary equipment and personnel to conduct <i>in-situ</i> burn operations.
i.	On site visual monitoring will be coordinated with the FOSC.
j.	The final decision to ignite oil will be coordinated through the FOSC and will be based on a USCG Decision Flowchart (see Figure 19-1 for modified version).
k.	The ability to contain, control and extinguish the <i>in-situ</i> burn fire is a prerequisite prior to ignition.
l.	The PSC will coordinate and liaise with the FOSC concerning sampling the burn residue.



In-Situ Burn General Procedures (Cont'd)

- m. The PSC will initiate mobilization of mechanical recovery equipment on-scene backup and complimentary response capability
- n. The PSC will initiate provisions for collection and disposal of burn residue following the burn(s).

In-Situ Burn Ignition Procedures

- a. Contractor personnel involved in *in-situ* burn operations will receive and complete required classroom and practical hands-on training that is appropriate for the level of responsibility assigned.
- b. Ensure adequate communication systems are in place between boom-towing and auxiliary vessels as well as between vessels and aerial support fixed wing and rotor aircraft.
- c. Position all involved personnel upwind or crosswind from the intended target slick prior to ignition.
- d. When oil is contained within fire boom, personnel and equipment will remain at a safe operating distance in the event of a premature ignition or an unexpected explosion.
- e. Towing lines will be substantial in order to provide an added measure of safety regarding distance from the burn and additional reaction time that may be required based on the circumstances.
- f. Request USCG to issue a "Notice to Mariners" at time and location of burn(s).
- g. Ignition systems must be released from a safe distance.
- h. Request FAA to issue a "No Fly Zone" for time and date of burn.
- i. Ignition systems include:
 - i) Floating flare type igniters released from vessels at a safe distance upstream and upwind of the target;
 - ii) Helitorch with gelled fuel may be released from fixed wing or rotor aircraft at "safe" heights; and
 - iii) Flare guns fired from vessels at a "safe" distance.
- j. Burning agents, which are highly flammable, oil soluble liquids are considered a burning aid that may be utilized in the event of substantially weathered oil. Burning agents insulate the oil from the water and allow the oil to burn continuously.



C. Environmental Effects

The environmental effects of *in-situ* burn operations include, but are not limited to, the following:

Environmental Effects
a. Burning oil produces a visible smoke plume containing smoke particulates, residue, and other products of combustion. The potential plume caused by the burn will not expose unprotected populations to more than 150 UG/m ³ of particulates, and the resulting plume and heat will not result in greater impact to sensitive wildlife resources than the oil itself.
b. A crust or residue remains after the burn which may pose a risk of exposure to wildlife resources.
c. Plant cover may be reduced during inshore burns resulting in the need to implement short-term erosion control measures.
d. Inshore burn sites may need protection from overgrazing due to herbivores attracted to new growth.
e. Prolonged flooding of a burned wetland may kill surviving plants in the event they are completely submerged.
f. Contamination at the sea surface may affect certain unique populations as well as organisms that use surface layers of the water column to spawn or feed.
g. Inshore burn sites increase the potential for oil penetration into the substrate when standing water is not present.
h. Inshore burn sites may sustain long-term impact(s) to vegetation in the event fire temperatures are too hot and/or water levels too low which may kill the root systems.
i. Some animal species (i.e. gastropods on clean vegetation) may not be capable of escaping the burn area.
j. Heavy fuel oils may produce residues that are difficult to remove from the environment. Burning of muddy substrates may alter their physical properties which will degrade their biological productivity.
k. Heavy accumulations of oil should be removed by mechanical methods to reduce long-term impact to vegetation and wildlife
l. Effects of burns conducted in wetland areas differ because of wetland types, plant species, composition, environmental parameters, and the tolerances of the system to physical and chemical disturbances.
m. Temperature and air quality effects will be localized and short lived.



Environmental Effects (Cont'd)

- n. Recovery of wetland vegetation is dependent upon season of burn, type of vegetation, and marsh water level.
- o. On-water burn residues may sink while on-land residues for crude and heavy oils may require removal from the environment. These should be disposed of appropriately.

D. Safety Provisions

Primary Safety issues to be considered are as follows:

•	OSHA training requirements
•	Personnel health hazards from product (exposure limits, decontamination procedures, etc.)
•	Personnel physical safety hazards

BP has identified a reason of awareness and concern from a Safety perspective. The following address the major areas of concern:

•	Fire hazards – maintain safe distance; ensure proper containment, etc.
•	Ignition hazards – maintain communication and coordination; ensure equipment is in good condition and used properly
•	Vessel safety – maintain communication and vessel position
•	Boom handling – ensure proper training and sufficient towing lines
•	Communications – ensure adequate communications between personnel, vessels, and aerial support
•	Training – prior training on procedures, and PPE, including respiratory equipment
•	Personnel exposure – be aware of wind direction, combustion plume, and residual oil contamination



E. Conditions for Use

In-Situ burning should be considered when physical removal of oil is not possible or is insufficient for protecting valuable resources, including endangered species. The method of removal must not cause or increase environmental impacts compared with damages from spilled oil. Favorable conditions for in-situ burning include, but are not limited to the following:

•	Remove as much oil as possible in the shortest amount of time to limit spreading to sensitive areas or over large areas.
•	In the event site access is limited by shallow water, soft substrates, thick vegetation, or the remoteness of location.
•	Reduce the generation of oily wastes, especially where transportation and/or disposal options are limited.
•	When other methods lose their effectiveness or become too intrusive.
•	Use on land where heavy oil exists at sites neither amenable nor accessible to physical removal
•	Use at remote, sparsely populated sites at least 3 miles from populated areas.
•	Use at sites with fresh crude or light/intermediate products that promote efficient burning.
•	Areas void of vegetation (i.e.: dirt roads, ditches, dry stream beds, idle cropland).
•	Sites with herbaceous vegetation.
•	Wetland areas with a minimum water level of 1" cover the substrate or with soils 70% saturation.
•	Oil layers thick enough to support combustion. Layers thinner than 1-2 mm loses too much heat to the water and cannot support combustion.
•	Wind speed below 20 knots and wave height below 3 feet.
•	A water level in wetlands and mud habitats will minimize the impact to sediment and roots.
•	Water-in-oil emulsion may not contain more than 30%-50% water to ignite and support combustion.



F. Decision Processes

The most important factors in the decision to pursue *in-situ* burning are the location of the spill and the current on-site weather (especially wind direction).

A minimum oil thickness of 2-3 mm is required. Once oil has spread and thickness approaches the 1-2 mm range, heat loss to the water under the oil prevents combustion. Oil on open water tends to spread rapidly to achieve its maximum pool radius or equilibrium thickness. Light crude oils will spread to approximately 0.01 to 0.1 mm, while heavy oils will spread to 0.05-0.5 mm in thickness within hours. Consequently, oil must either be burned almost immediately after a spill, or the surface thickness must be increase using fire-retardant boom.

The authority to authorize *in-situ* burning provided to the USCG FOSC may not be del egated. The following three zones have been established to specify pre-authorized locations and conditions under which burning may occur:



1. “A” Zones – Pre-Authorization for Open Water Burning

An “A” Zone is defined as any area in the RRT-6 region exclusively under federal jurisdiction, and not classified as a “B” or “R” Zone. The “A” Zone is at least **3 miles seaward** of any state coastline and seaward of any state waters, or as designated by separate “Letters of Agreements” with individual states and federal agencies. In the event that state jurisdiction extends beyond **3 miles from a state shoreline**, pre-approval for the “A” Zone applies only to areas outside state jurisdiction.

2. “B” Zones – Waters Requiring Case by Case Approval

A “B” Zone is defined as any area in the RRT-6 region under state or special management jurisdiction which is not classified as an “A” or “R” Zone. “B” Zones are areas located:

•	Within state waters;
•	Within waters less than 30 feet in depth that contain living reefs;
•	Waters designated as a marine reserve, National Marine Sanctuary, National or State Wildlife Refuge, unit of the National Park Service, proposed or designated critical habitats; and
•	Mangrove areas, or coastal wetlands which includes submerged algal beds and submerged sea grass beds.

3. “R” Zones – Exclusion Zones

An “R” Zone is defined as any area in the RRT-6 region falling under state or special management jurisdiction which is not classified as an “A” or “B” Zone. The “R” Zone is that area designated by the RRT-6 as an exclusion zone. No *in-situ* burning operations will be conducted in the “R” Zone unless:

•	<i>In-Situ</i> burning is necessary to prevent or mitigate a risk to human health and safety; and/or
•	An emergency modification of this agreement is made on an incident specific basis.

RRT-6 currently has not designated any areas as “R” Zones. However, the right is retained to include areas for exclusion at a future point in time if warranted.



Once the decision has been made to pursue an *in-situ* burn, a clear procedure must be followed which leads to the decision of whether or not to initiate the burn. See **Figure 19-1**, *In-Situ* Burn Decision Flow Chart, for a description of this process. Additionally, completion of **Figure 19-2**, *In-Situ* Burn Pre-Ignition Checklist, is an important piece to ensuring that the correct and safe decision is made prior to ignition.

G. Approval Procedures and Forms

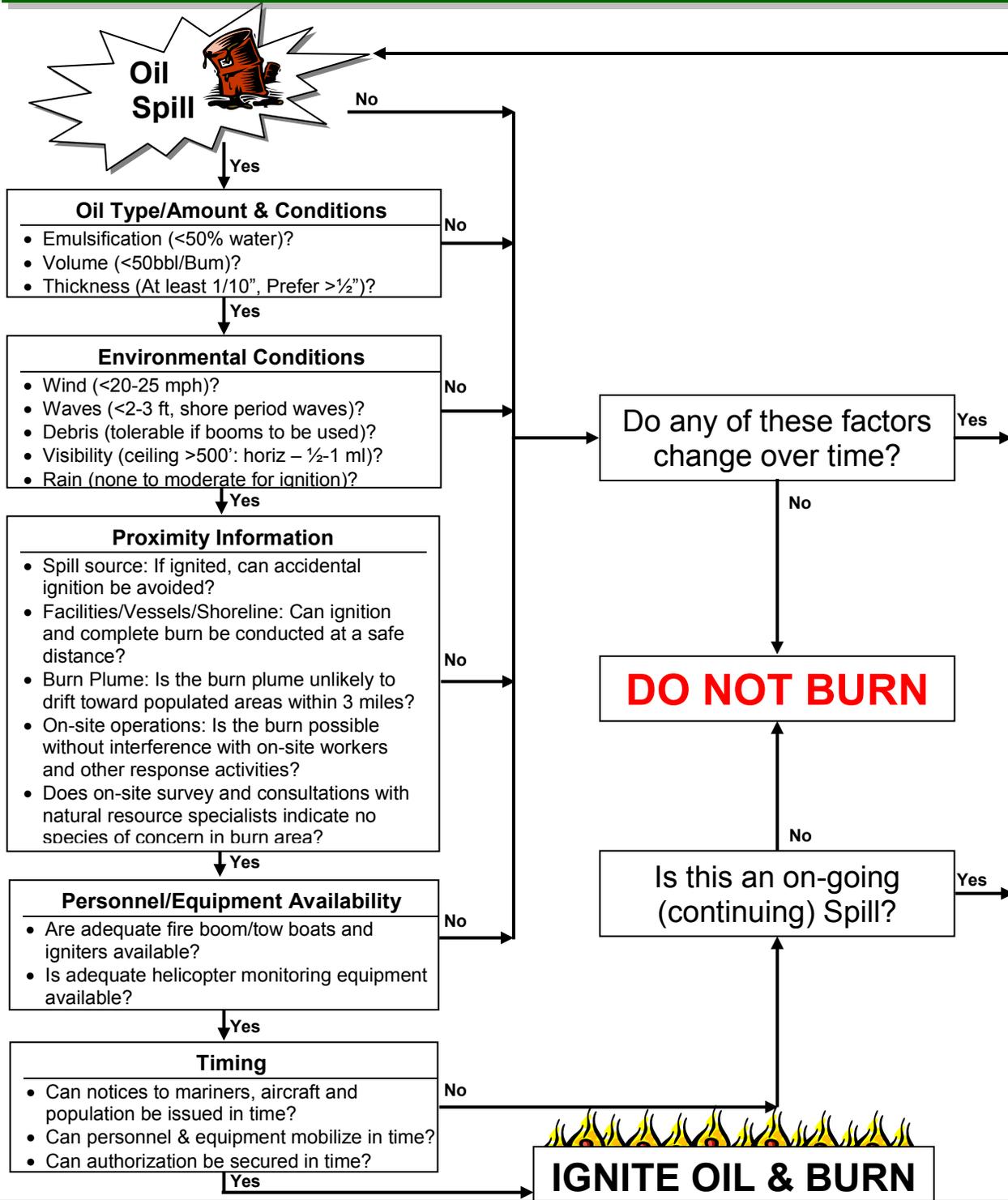
Ultimate approval to initiate an *in-situ* burn will reside with the Federal On-Scene Commander (FOSC). In order to ensure the proper decision is made, those in the decision making process require particular information related to the incident as well as independent factors such as weather and local human and wildlife populations. Completion of **Figure 19-3**, *In-Situ* Burning Plan, will provide the requisite information in an approved format.

Additional information regarding *in-situ* burn decisions, approval, safety, associated equipment, and conditions of use is retained as part of BP's pre-planned response material housed in its licensed version of the Incident Action Planning software (©1997-2004 dbSoft, Inc.) supported by The Response Group (see **Figure 7-5**).



BP In-Situ Burn Decision Flow Chart

Figure 19-1



Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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In-Situ Burn Pre-Ignition Checklist

Figure 19-2

Yes	No	In-Situ Burn Pre-Ignition Checklist
<input type="checkbox"/>	<input type="checkbox"/>	Is Fire Ecologist/Practitioner onboard?
<input type="checkbox"/>	<input type="checkbox"/>	Have all burn personnel completed required training?
<input type="checkbox"/>	<input type="checkbox"/>	Are communication systems adequate and working properly:
<input type="checkbox"/>	<input type="checkbox"/>	Between vessels?
<input type="checkbox"/>	<input type="checkbox"/>	Between vessels & aircraft?
<input type="checkbox"/>	<input type="checkbox"/>	Are all involved personnel upwind or crosswind of target?
<input type="checkbox"/>	<input type="checkbox"/>	Is there safe distance between fire boom and personnel on board towing boat(s)?
<input type="checkbox"/>	<input type="checkbox"/>	Are towing lines sufficient to safely separate from boat crews from burn?
<input type="checkbox"/>	<input type="checkbox"/>	Are ignition systems released from a safe distance?
		Ignition system type:
<input type="checkbox"/>	<input type="checkbox"/>	Floating flare type igniter – Boat
<input type="checkbox"/>	<input type="checkbox"/>	Helitorch – Aircraft
<input type="checkbox"/>	<input type="checkbox"/>	Flare guns
<input type="checkbox"/>	<input type="checkbox"/>	Are burning agents required?
<input type="checkbox"/>	<input type="checkbox"/>	Have all approvals been received from the federal, state and local entities?
<input type="checkbox"/>	<input type="checkbox"/>	Has “Notice to Mariners” been issued by the FAA?
<input type="checkbox"/>	<input type="checkbox"/>	Are all personnel briefed and familiar with the plan?
<input type="checkbox"/>	<input type="checkbox"/>	Are all vessels and aircraft aware of burn trajectory and ignition time?
<input type="checkbox"/>	<input type="checkbox"/>	Are monitoring personnel on scene or enroute?
<input type="checkbox"/>	<input type="checkbox"/>	Is the weather (sea state) acceptable?
<input type="checkbox"/>	<input type="checkbox"/>	Is the fire control vessel in place?
<input type="checkbox"/>	<input type="checkbox"/>	Are support vessels available?
<input type="checkbox"/>	<input type="checkbox"/>	Has the decision to ignite been coordinated through the FOSC?

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In-Situ Burning Plan (Cont'd)

WEATHER & WATER CONDITIONS

WEATHER: Sunny Partly Cloudy Cloudy Overcast
 Mountain Showers Offshore Rain Squalls Heavy Rain

WINDS: Date & Time: _____
 Onshore Knots: _____ Direction: _____ Offshore: _____

SEA STATE: Calm Choppy Swell (in feet)
 <1 foot 1-3 feet >3 feet

TIDES: Low/High _____ Feet (+/-) _____ Date & Time _____
(Forecast) _____

SURFACE CURRENTS: Speed / Knots Direction / To

WATER DEPTH: 10-60 feet 60-120 feet >120 feet

DAYLIGHT HOURS:	Day / Date	Sunrise	Sunset
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

WEATHER & WATER 24 HOUR FORECAST

DATE & TIME OF PLAN DEVELOPMENT: _____
FORECASTED WIND SPEED (knots): _____
FORECASTED WIND DIRECTION: _____ Onshore Offshore
FORECASTED SEA STATE: Calm Choppy Swell (in ft)
 <1 ft 1-3 ft >3 ft

ESTIMATED SMOKE TRAJECTORY

Describe expected smoke plume trajectory: _____

Is plume expected to impact concentrated human or wildlife populations? Yes No

FEASIBILITY FACTORS:

<input type="checkbox"/> Yes <input type="checkbox"/> No	Is the wind speed <25 knots?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is wave height <2-3 feet?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Is visibility >500 feet vertically and ½ mile horizontally?
<input type="checkbox"/> Yes <input type="checkbox"/> No	Are rain forecasts favorable for ignition?



In-Situ Burning Plan (Cont'd)							
A.	Location of proposed burn relative to the spill source:						
B.	Location of proposed burn relative to nearest uncontrolled ignitable slick(s):						
C.	Location of proposed burn relative to nearest sizeable downwind human population:						
D.	Location of proposed burn relative to nearest downwind concentrated wildlife population:						
E.	Potential for reducing visibility at nearby airport(s) or freeway(s):						
F.	Will radio notification of human populations be required? <input type="checkbox"/> Yes <input type="checkbox"/> No						
	1. Proposed ignition method:						
	<table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">Will burn promoters be used?</td> <td style="padding-left: 20px;"><input type="checkbox"/> Yes</td> <td style="padding-left: 20px;"><input type="checkbox"/> No</td> </tr> <tr> <td style="padding-left: 40px;">Will de-emulsifiers be used?</td> <td style="padding-left: 20px;"><input type="checkbox"/> Yes</td> <td style="padding-left: 20px;"><input type="checkbox"/> No</td> </tr> </table>	Will burn promoters be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Will de-emulsifiers be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Will burn promoters be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No					
Will de-emulsifiers be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No					
	2. Methods proposed for controlling the burn:						
	<table style="width: 100%; border: none;"> <tr> <td style="padding-left: 40px;">Will fire boom be used?</td> <td style="padding-left: 20px;"><input type="checkbox"/> Yes</td> <td style="padding-left: 20px;"><input type="checkbox"/> No</td> </tr> </table>	Will fire boom be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Will fire boom be used?	<input type="checkbox"/> Yes	<input type="checkbox"/> No					



In-Situ Burning Plan (Cont'd)

3. PROPOSED BURNING STRATEGY

- Controlled burning in fire boom under tow.
- Controlled burning of static oil contained within fire boom.
- Complete burning of a derelict or hazardous vessel.
- Controlled burning of static oil contained in a natural collection site at or near shore.
- Disposal of oiled debris by controlled burning in remote areas.

Other: _____

G. Estimated amount of oil to be burned:

H. Estimated duration of Burn Operations (hours):

I. Method of collecting burned residue:

J. Proposed storage and disposal of burned oil residue:

FEASIBILITY FACTORS

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Can ignition and a complete burn occur at a safe distance from other response operations and public, recreational and commercial activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Is the smoke plume unlikely to impact areas of concentrated human or wildlife populations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Are adequate fire boom, tow boats and igniter resources available?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Are adequate notice to be given to mariners, aircraft pilots and the general public?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Can necessary personnel and equipment be mobilized during the <i>in-situ</i> burning window of opportunity?



In-Situ Burning Plan (Cont'd)

Plan Number: _____

Date: _____

Operational Period: _____

To: _____

FEDERAL OSC

APPROVED

NOT APPROVED

Signature

Typed Name & Title:

COMMENTS:

Large empty rectangular box for entering comments.



20. ALTERNATIVE CHEMICAL & BIOLOGICAL RESPONSE STRATEGIES

Oil spill cleanup agents (OSCA's) are defined as any chemical or other substance used for removing, dispersing, or cleaning up oil or residual petroleum products in or on the waters of states or shorelines. This category of substances include: surface washing agents, shoreline cleaners, dispersants, gelling agents, herding agents, emulsifiers, demulsifiers, chemical booms, and bioremediants. The best known and primary OSCA is bioremediation which is defined as a treatment technology that enhances existing biological processes to accelerate the decomposition of petroleum hydrocarbons and some hazardous wastes.

The National Contingency Plan (NCP) authorizes the use of biological and chemical agents for the dispersion and/or abatement of oil spills. However, the product must be listed on the NCP Product Schedule.

The Responsible Party (RP), having firsthand information concerning the released material, may request FOSC approval for the use of bioremediation or the application of a bioremediation enhancing agent within the jurisdiction of RRT IV and VI. The pre-designated FOSC provided by the USCG and EPA will forward a Bioremediation Use Authorization Form (filled out by RP) to RRT IV/VI personnel as well as consulting with the impacted Natural Resource Trustees. The RP may initiate a bioremediation after approval and concurrence from RRT IV and VI.

In the event alternate chemical or biological response activities are unequivocally mandated by spill events/conditions, BP personnel will follow the application process outlined in the Region IV RRT Bioremediation Spill Response Plan. However, it should be noted that BP Company does not foresee bioremediation or other alternate chemical response strategies as a necessary response countermeasure for spills that enter or threaten the waters of RRT Region IV or Region VI.



21. DOCUMENTATION

A. Documentation Overview

Concise, detailed documentation is an integral function of the Incident Management Team (IMT) during each oil spill incident. Maintenance of complete and accurate records of all events that occur in chronological order is essential for legal requirements, response evaluation, cost minimization, and as a future training guide. Each group within the response organization is responsible for compiling and maintaining adequate records in support of the Documentation Unit Leader. Information received from well-documented spills may be utilized to protect the company's interests and critique spill cleanup and prevention programs. It may be advisable to have a retained historian to document every aspect of the spill response in a written account.

BP's primary means of maintaining written incident documentation will be the creation of an Incident Action Plan.

B. Documentation Unit Leader (DU)

Ideally, the Documentation Unit Leader assigned within the Incident Command System (ICS) will have experience with large scale incidents and will also have had the opportunity to follow a documentation package from inception to the point where it is challenged in court. Understanding the types of challenges a spill archive must meet in order to be considered adequate during the Department of Justice (DOJ) portion of the process is critical to the success or failure of the documentation system. Major objectives of the DU are listed below:

•	Complete initial incident assessment
•	Establish comprehensive documentation system
•	Establish effective documentation during demobilization
•	Establish single, central, comprehensive archive
•	Complete CERCLA Administrative Record

Duties of the Documentation Unit Leader may be reviewed in **Figure 4-2**.



C. Standard for Records

Standards for response documentation are illustrated below:

•	<u>Factual</u> : Response documentation is a record of response activities associated with spill cleanup procedures and not a referendum for analysis, conclusions, speculation, opinions or comments.
•	<u>Accuracy</u> : Records which are not accurate are a reflection upon the documentation system and cannot be relied upon.
•	<u>Complete</u> : Records must be complete to tell the entire story.
•	<u>Clear</u> : Records must be clearly stated to support the company's attempt(s) to recover costs at a later date.
•	<u>Concise</u> : Eliminate irrelevant, unnecessary data.
•	<u>Identified</u> : Records which include meeting minutes should identify the individual reading them.
•	<u>Dated</u> : All entries should include a time and date in order to reconstruct sequences of events at later dates.

Privileged Records

In addition to the above, it may be requested that a “privileged record”—on which is not subject to subpoena or discovery in a court of law, is created. Any record of this nature must be clearly marked “Privileged Document”.

Distribution of Records

Records other than privileged records should be retained by the group that created them and a copy distributed either to the Documentation Unit (for non-cost-related documents) or to the Finance Unit (for cost-related documents).

Destruction of Records

NO records whatsoever should be discarded or erased without the prior approval of the Legal Officer.

D. Essential Documentation

1. Daily Log(s)

A log of daily events from each ICS group will be maintained from the time a spill is reported until cleanup operations are completed. Each entry should record the date, time, place, action and signature of any witness(s). The log must be maintained in a secure place.



Note: It may be advisable to have a complete written or taped record of all actions taken during a response activity. To the degree possible, the record should be made as events occur.

a. Notification Documents

- Date and Time of notification
- Person reporting spill
- Person reporting spill telephone number
- Vessel name (if applicable)
- Location of spill (detailed)
- Date and time of spill
- Type and quantity of material spilled
- Source of spill
- Spill stopped or continuous
- Flow rate
- Response actions in progress and impending
- Areas impacted or threatened
- Weather conditions (sea state, wind direction, etc.)
- Summary of vessel damage
- Summary of personnel/agencies notified and time of notification
- Extent of spill, location and direction

b. Response Actions

- Equipment and manpower
- Response activities, techniques, etc.
- Effectiveness of cleanup activities (daily)

c. Responsible Party Information

d. Conversations With Non-Company Personnel

- USCG, EPA, local authorities, etc.
- Media and private sector referred to as Public Affairs
- FOSC – record all orders and directions and have him/her sign to acknowledge

e. Damages

- Property (i.e., boats, other, etc.)
- Human (i.e., injury, fatality)
- Wildlife (i.e., details)

f. List Of All Persons On-Scene

- Officials
- Contractors
- Other(s)

g. Costs Incurred

- Contractors listing of manpower, equipment and materials daily. Charges verified daily by designated representative and contractor to avoid payment discrepancies.

h. Material Recovered

- Illustrates cleanup effectiveness and determines amount to be recovered.



2. Types of Files

a. Composite Files

Composite files contain a variety of information separated on the basis of time, geographic information, and other factors (i.e., weather; health and safety, trajectories, at risk habitats, etc.) which may be standardized for a given day.

- Daily composite files
- Weather/Tides/Currents
- Over flight activities
- Daily Incident Action Plan (IAP)
- Public Affairs
- Safety
 - Message files
 - Correspondence files
 - Division Task Force Files
 - Zone descriptions
 - Shoreline surveys
 - Oiling maps
 - Daily shoreline cleanup reports
 - Final Sign-off Report
 - Photographs and miscellaneous

b. Subject Files

Subject files contain information generated throughout the response effort under a limited heading (i.e., all reconciliation documents, all property records, etc.)

- Pollution reports
- Legal files (Privileged document, attorney-client communication)
- Property records
- Financial management records
- Over flight results
- Purchase requests
- Disposal manifests
- Agency correspondence
- Salvage and lighting
- Personnel and equipment use documentation
- Trajectory reports
- Contract administration file (i.e., correspondence, invoices, reconciliation documents)
- Fire fighting files
- Personnel files
- Weather and tides
- Incident Action Plans (Daily)
- Cost documentation
- Health and safety (i.e., Site Safety Plans, OSHA correspondence, accident/injury reports)
- Business/calling cards
- Public affairs



c. Legal Files

The Legal Officer may request a proprietary record and file be established which will not be subject to subpoena or discovery in a court of law in the event subsequent legal issues involving the spill incident. Files of this nature should be hand-delivered and held in strict control. Procedures for establishing legal files are listed below:

- Archive and segregate documents which may be exempt from release under FOIA (i.e., drafts, privacy act, attorney work product, proprietary information, etc.)
- Review documents selected with Legal Officer.
- Separate non-releasable documents and consolidate into one area.
- Microfilm releasable portion of the archive, if directed.

d. Photographic/Video Documentation

Color photographic and video documentation is produced to record the source and extent of the spill as well as the on-going cleanup effort. The following information should be recorded at the time each picture/video is taken:

- Name and location of the vessel, facility or site
 - Date and time
 - Name(s) of photographer and witnesses
 - Description of subject
 - Reference to outstanding landmarks
- Additionally, legal personnel may request information concerning resolution, camera make and model, photographic enhancement, etc. A professional photographer should be retained to produce the photographic and videotape documentation to provide the optimum results. The Documentation Unit Leader will set up files for photographic and video documents as well as provide copies to appropriate ICS groups.

e. Oil Sampling Documentation

Oil sampling is an integral part of documenting an oil spill cleanup operation in order to accurately record the history of the spilled product and to mitigate subsequent legal issues which may arise. The purpose of the documentation may also protect the company image, minimize expenses and use the documentation log as a basis for critiquing spill prevention and cleanup programs. The spilled product may be sampled by a number of involved parties including, but not limited to, the USCG and the Responsible Party. The spilled product should be sampled by taking samples of unspilled oil for reference and spilled oil for comparison. Standard ASTM sampling procedures for waterborne and shoreside oils must be strictly followed when obtaining samples. The objectives of oil sampling are listed below:

- Obtain a quantity of oil that makes identification possible (one pint or more)
- Obtain a true representation of the oil
- Properly handle the sample to avoid contamination
- Protect the legal validity of the sample identity and subsequent analysis by following a continuous chain of custody procedure from sampling to analysis.

Notification records will not be destroyed without prior approval from the Legal Officer.



E. National Preparedness for Response Exercise Program (PREP)

1. Criteria for Documentation

The criteria for proper documentation and self certification of exercises and actual emergencies are primarily derived from the National Preparedness for Exercise Program (PREP) guidelines and 30 CFR § 254.42. An actual response can qualify as an exercise under the program if the required documentation is compiled which includes the following:

•	Type of exercise/response
•	Date and time of exercise/response
•	Description of exercise/response
•	Objectives met
•	PREP requirements fulfilled
•	Lessons learned

2. Incident Documentation

The criteria for incident documentation vary according to the type of incident involved. Incidents will be documented as listed below:

•	The members of the Spill Management Team will record all events and conversations in the pre-prepared unit log books issued to each team member.
•	The incident response critique and records of follow-up activities will be maintained by the OOPS.
•	The appropriate documentation will be maintained by the OOPS in the event that the incident is a qualifying response under PREP.
•	The OOPS Command Post facility maintains all records.



BP

Regional Oil Spill Response Plan – Gulf of Mexico

Section 22
Prevention Measures
for Facilities Located
in State Waters

22. PREVENTION MEASURES FOR FACILITIES LOCATED IN STATE WATERS

NOT APPLICABLE

BP does not own or operate facilities located in state waters. For a complete listing of facilities owned and operated by BP, please see **Appendix A**.

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APPENDIX A – FACILITY INFORMATION

This Oil Spill Response Plan (OSRP) encompasses all facilities operated by BP herein in the jurisdiction of the Minerals Management Service (MMS). Information on Federal or State leases and/or pipelines operated by BP is included in Appendix A.

Rating system for potential worst case discharge:

Rating	Volume (Barrels)
A	0 - 1,000
B	1,001 – 3,000
C	3,001 – 10,000
D	10,001 – 20,000
E	20,001+

Table 1 OCS Production Facilities	
1	Provide the 2-letter MMS area designation of the facility (e.g., MP, PS, WC).
2	Provide the OCS Block No. of the facility (e.g., 25, 251, A-375).
3	Provide the OCS Lease No. of the facility (e.g., 091, 0425, G 10112).
4	Provide the facility designation (e.g., No. 2, A, JA).
5	Provide the 5-digit MMS complex identification number for the facility.
6	Provide the water depth at the site of the facility in feet.
7	Provide the latitude and longitude of the facility in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
8	Provide the distance from the facility to the nearest shoreline in miles.
9	Provide the API gravity of the densest oil being produced or stores at the facility.
10	Enter the appropriate worst-case discharge volume rating (e.g., A, B, C, D, or E).
11	If “Rating” in column 10 is “E” or if high rate well has a daily flow rate greater than 2,500 barrels, provide the rate that oil is being produced in barrels per day from an uncontrolled flow of the highest capacity well at the facility.
12	If “Rating” in column 10 is “E” or if high rate well has a daily flow rate greater than 2,500 barrels, provide the total volume in barrels of all tanks on the facility used for the storage of oil including production (e.g., fuel oil including diesel fuel, corrosion inhibitors).
13	If “Rating” in column 10 is “E” or if high rate well has a daily flow rate greater than 2,500 barrels, provide the throughput volume in barrels of oil per day of the lease term pipelines that depart the facility.

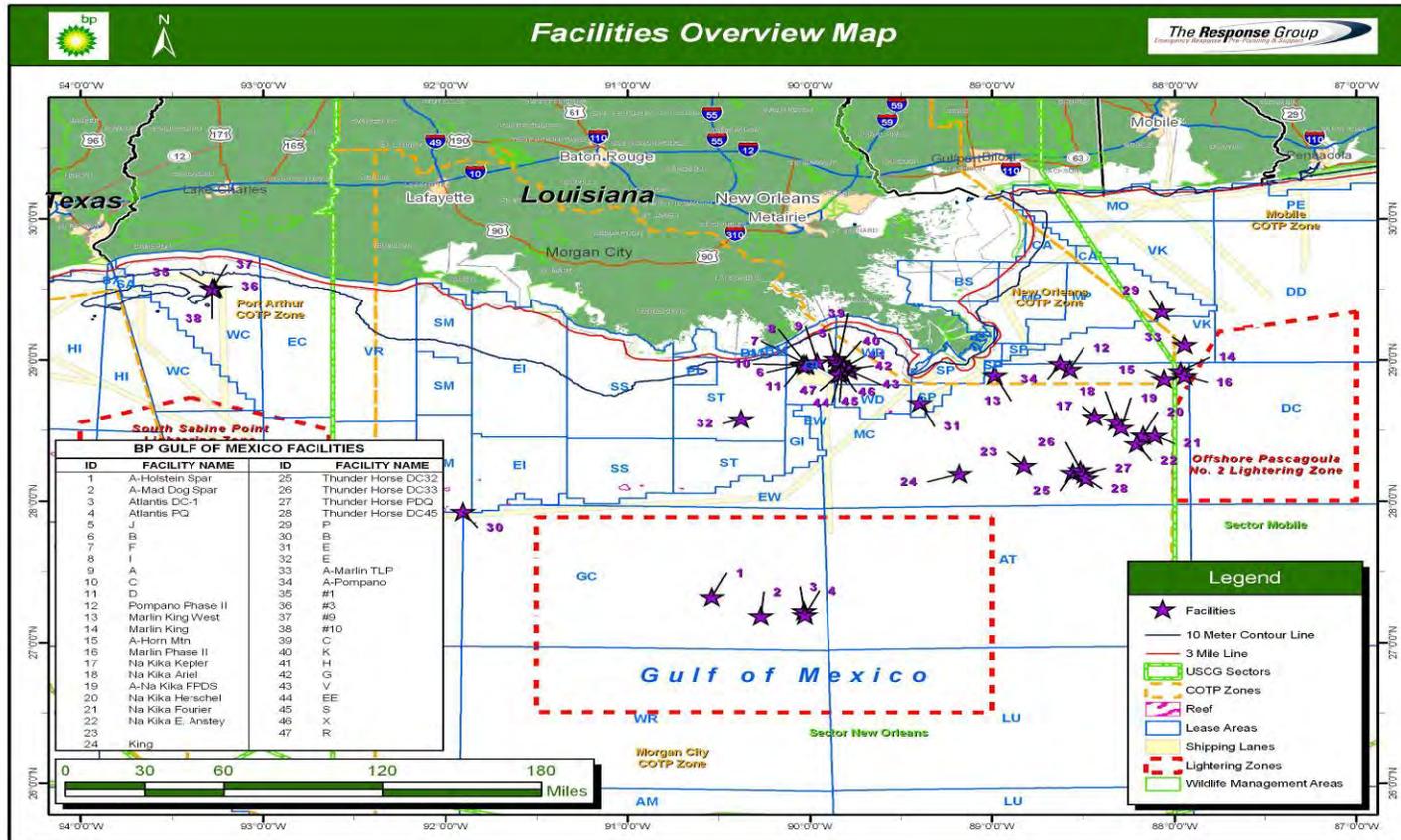


BP Regional Oil Spill Response Plan – Gulf of Mexico

Appendix A
Facility
Information

Gulf of Mexico Facilities Overview Map

Figure A-1



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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix A
Facility
Information

A. Table 1 – Production Platforms and Structures in OCS Waters

Figure A-2

Production Platforms and Structures in OCS Waters													
Oper.	Area	Block	Lease	Facility Name	Facility ID ¹	Water Depth	Latitude/ Longitude	Distance to Shore	API Gravity	Rating ²	High Well ³	All Storage ⁴	Thru Volume ⁵
2481	GC	645	G- 11081	A-Holstein Spar	1035	4340'	N 27° 19' 16.43"/ W 90° 32' 07.69"	119	31.0	E	E	E	N/A
2481	GC	782	G-15610	A-Mad Dog Spar	1215	4420'	N 27° 11' 18.12"/ W 90° 16' 07.36"	111.4	27.2		E	E	N/A
2481	GC	743	G15607	Atlantis DC-1	N/A	6830'	N 27° 13' 28"/ W 90° 01' 56"	122			N/A	N/A	
2481	GC	787	G-23579	A-Atlantis PQ	1223	7080'	N 27° 11' 43.64"/ W 90° 01' 37.15"	124			E	E	N/A
2481	MC	28	G09771	Pompano Phase II	N/A	1865'	N 28° 55' 58.25/ W 88° 34' 29.19"	24.4					
2481	MC	84	G08484	Marlin King West	N/A	5475'	N 28° 53.5'/ W 88° 59.0'	55.9					
2481	MC	85	G08797	Marlin King	N/A	5235'	N 28° 55.2'/ W 87° 57.9'	56.3					
2481	MC	127	G-19925	A-Horn Mtn.	00876-1	5400'	N 28° 51' 57.65"/ W 88° 03' 22.55"	53.0	35.0	B	E	E	N/A

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix A
Facility
Information

Production Platforms and Structures in OCS Waters (Cont'd)													
Oper.	Area	Block	Lease	Facility Name	Facility ID ¹	Water Depth	Latitude/ Longitude	Distance to Shore	API Gravity	Rating ²	High Well ³	All Storage ⁴	Thru Volume ⁵
2481	MC	383	G07937	Na Kika Kepler	N/A	5810'	N 28° 35.9' / W 88° 26.1'	43.0					
2481	MC	429	G07944	Na Kika Ariel	N/A	5200'	N 28° 33.9' / W 88° 19.0'	48.0					
2481	MC	474	10997	A-Nakika	22088	6340'	N 28° 31' 15.25" / W 88° 17' 19.64"	52.2			C	E	N/A
2481	MC	520	G09821	Na Kika Herschel	N/A	6800'	N 28° 27.9' / W 88° 10.2'	58.9					
2481	MC	522	G08823	Na Kika Fourier	N/A	6930'	N 28° 27.8' / W 88° 06.3'	61.7					
2481	MC	608	G09838	Na Kika E. Anstey	N/A	6660'	N 28° 24.3' / W 88° 12.3'	59.7					
2481	MC	462	G28008		N/A	6095	N 28° 30' 47.42" / W 88° 52' 40.84"	33	26	E	N/A	N/A	N/A
2481	MC	764	G08852	King	#4	3283'	N 28° 11' 38.40" / W 89° 10' 39.64"	60.0	29	C	N/A	N/A	N/A
2481	MC	776	G09866	Thunder Horse DC32	N/A	5630'	N 28° 12.0' / W 88° 33.5'	55.2					
2481	MC	777	G09867	Thunder Horse DC33	N/A	5610'	N 28° 13.2' / W 88° 31.0'	55.9					
2481	MC	778	G-9868	Thunder Horse PDQ	1101	6030'	N 28° 11' 26.70" / W 88° 29' 44.50"	59.4	33.0	N/A	N/A	N/A	N/A
2481	MC	822	G14658	Thunder Horse DC45	N/A	6260'	N 28° 09' 48" / W 88° 29' 01"	69.1					
2481 ^b	SM	205	G-05475	B	27014	530'	N 27° 55' 39.66" / W 91° 54' 09.57"	85.1			N/A	N/A	N/A
2530	SP	89	G-23429	E	1093	392'	N 28° 41' 50.55" / W 89° 23' 45.29"	15		E	N/A	N/A	N/A
2481	VK	915	G-06894	A-Marlin TLP	235-1	3236'	N 29° 06' 27.46" / W 87° 56' 37.15"	55.7	43.1	E	N/A	N/A	40,972
2481	VK	989	G-06898	A-Pompano	24130	1290'	N 28° 58' 22.92" / W 88° 37' 33.55"	23.0	31.7	D	5,253	N/A	49,404

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Table 2 OCS Pipelines	
1	Provide the 2-letter MMS area designation and the OCS Block No. of the originating point of the ROW pipeline (e.g., WC 425, HI A-375).
2	Provide the latitude and longitude of the originating point of the ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
3	Provide the 2-letter MMS area designation and the OCS Block No. of the terminus of the ROW pipeline (e.g., WC 425, HI A-375).
4	Provide the latitude and longitude of the terminus of the ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
5	Indicate whether the ROW pipeline either terminates or originates at the Federal / State boundary (i.e., Yes, No).
6	Provide the 5-digit MMS Segment No. of the ROW pipeline (e.g., 00006, 01234, 11456).
7	Provide the OCS ROW No. of the ROW pipeline (e.g., 092, 0436, G 10992).
8	Provide the length of the ROW pipeline in feet.
9	Provide the internal diameter of the ROW pipeline in inches.
10	Provide the API Gravity of the oil being transported by the ROW pipeline.
11	Indicate whether the ROW pipeline is monitored by a leak detection system (i.e., yes, no).
12	Provide the throughput volume in barrels of oil per day of the ROW pipeline.
13	Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
14	Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e., Yes, No).

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix A
Facility
Information

B. Table 2 – ROW Pipelines in OCS Waters

Figure A-3

ROW Pipelines in OCS Waters														
Oper	1 From	2 Latitude/ Longitude	3 To	4 Latitude Longitude	5 F/S Boundary ¹	6 Segment Number	7 ROW #	8 Length (feet)	9 Size (in)	10 API Gravity	11 Leak Detect System	12 Thru Volume ² (bbls)	13 Distance To Shore ³	14 Appurt. Platform ⁴
00751	GC 645A	N 27 19' 16.71" W 90 32' 07.38"	SS 332 B	N 28 06' 13.63" W 90 47' 32.71"	No	13677	23445	368,508	24-28	29	Yes	500,000	67.0	YES
00751	GC 645A	N 27 19' 16.71" W 90 32' 07.38"	SS 332 A	N 28 06' 13.63" W 90 47' 32.71"	No	13676	23444	368,066	16-20	Gas	Yes	Prop	67.0	YES
2481	GC 743	N 27 13' 27.95" W 90 01' 54.53"	GC 787 A	N 27 13' 44.39" W 90 01' 36.97"	No	15263	G26918	8259	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.95" W 90 01' 54.53"	GC 787 A	N 27 13' 44.39" W 90 01' 36.97"	No	15264	G26918	8259	16	CSNG	Yes			
2481	GC 743	N 27 13' 27.72" W 90 01' 56.54"	GC 787 A	N 27 11' 44.24" W 90 01' 37.73"	No	15266	G26919	7985	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.72" W 90 01' 56.54"	GC 787 A	N 27 11' 44.24" W 90 01' 37.73"	No	15267	G26919	7985	16	CSNG	Yes			
2481	GC 743	N 27 13' 27.56" W 90 01' 57.24"	GC 787 A	N 27 11' 44.20" W 90 01' 37.89"	No	15269	G26920	8406	10	BLOH	Yes			
2481	GC 743	N 27 13' 27.56" W 90 01' 57.24"	GC 787 A	N 27 11' 44.20" W 90 01' 37.89"	No	15270	G26920	8406	16	CSNG	Yes			
2481	GC 743	N 27 13' 28.06" W 90 01' 54.08"	GC 787 A	N 27 11' 44.42" W 90 01' 36.79"	No	15273	G26921	8675	10	BLOH	Yes			
2481	GC 743	N 27 13' 28.06" W 90 01' 54.08"	GC 787 A	N 27 11' 44.42" W 90 01' 36.79"	No	15274	G26921	8675	16	CSNG	Yes			
2481	GC 743	N 27 13' 28.44" W 90 01' 53.88"	GC 787 A	N 27 11' 44.41" W 90 01' 36.61"	No	15276	G26922	9231	10	BLOH	Yes			
2481	GC 743	N 27 13' 28.44" W 90 01' 53.88"	GC 787 A	N 27 11' 44.41" W 90 01' 36.61"	No	15277	G26922	9231	16	CSNG	Yes			
00751	GC 782A	N 27.1946 W 90.2638	GC 603 24 SSTI	N 27.3765 W 90.4125	No	13674	23445	111,042	24	29	Yes	365,000	117.0	NO
00751	GC 787A	N 27° 11' 43.64" W 90° 01' 37.15"	GC 739 24 SSTI	N 27° 14' 06.7" W 90° 14' 07.7"	No	14007	G24634	95,442	24	29	Yes	Prop	N/A	YES
00751	GC 787A	N 27° 11' 43.64" W 90° 01' 37.15"	GC 739 24 SSTI	N 27° 14' 09.90" W 90° 13' 56.07"	No	14008	G24635	93,380	16	Gas	Yes	N/A	N/A	YES

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix A
Facility
Information

ROW Pipelines in OCS Waters														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbls)	Distance To Shore ³	Appurt. Platform ⁴
2481	MC 85	N 28° 55'11.48" W 87° 57'57.71"	MC 85	N 28° 55'11.92" W 87° 57'57.71"	No	14055	G24655	45	6	BLKO				

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Oper	1 From	2 Latitude/ Longitude	3 To	4 Latitude Longitude	5 F/S Boundary ¹	6 Segment Number	7 ROW #	8 Length (feet)	9 Size (in)	10 API Gravity	11 Leak Detect System	12 Thru Volume ² (bbls)	13 Distance To Shore ³	14 Appurt. Platform ⁴
2481	MC 127A	N 28.866197 W 88.05625	MP 260P	N 29.342661 W 88.066794	No	13359	G22472	206,538	10	Gas	Yes	Gas	41.0	YES
2481	MC 127A	N 28.866197 W 88.056281	MP 289C	N 29.248622 W 88.441314	No	13360	G22473	184,814	12	Oil	Yes		41.0	YES
2481	MC 129 SS manifo	N 28.88943714 W 87.94281293	VK 915 TLP	N 29.10782578 W 87.94344306	No	13384	G22475	85,302	8	41	Yes	22500	72.0	YES
2481	MC 129 SS manifo	N 28.88943714 W 87.94281293	VK 915 TLP	N 29.10782578 W 87.94344306	No	13385	G22475	85,302	12	Meth	Yes	N/A	72.0	YES
2481	MC 129 SS manifo	N 28.88942627 W 87.94283671	VK 915 TLP	N 29.10779009 W 87.9434018	No	13386	G22476	87,185	8	41	Yes	14500	72.0	YES
2481	MC 129 SS manifo	N 28.53' 29.8" W 87.56' 08.3"	VK 915	N 29.06' 28.6" W 82.56' 36.4"	No	13387	G22476	87,185	12.75	Glycol H2O	Yes	N/A	72.0	YES
2481	MC 383	N 28° 35'52.89" W 88° 26'07.68"	MC 474	N 28° 31'15.66" W 88° 17'20.49"	No	13814	G24240	53,378	05-10	BLKO				
2481	MC 383	N 28° 35'52.89" W 88° 26'07.68"	MC474	N 28° 31'15.66" W 88° 17'20.49"	No	13815	G24240	53,378	16	CSNG				
2481	MC 429	N 28° 33'53.68" W 88° 19'02.53"	MC 474	N 28° 31'16.06" W 88° 17'20.13"	No	13822	G24242	16,032	16	CSNG				
2481	MC 429	N 28° 33'53.68" W 88° 19'02.53"	MC 474	N 28° 31'16.06" W 88° 17'20.13"	No	13821	G24242	16,032	10	BLKO				
0751	MC 474 A	N 28.5210 W 88.2890	MP 260 P	N 29.3424 W 88.0669	No	13591	G23093	388,023	20-24	GAS	Yes	N/A	41.0	YES
2481	MC 474 A	N 28° 31'50.87" W 88° 19'36.23"	MC 473	N 28° 31'15.79" W 88° 17'20.48"	No	13812	G24241	10,084	5	LIFT				
2481	MC 474 A	N 28° 33'53.65" W 88° 19'02.29"	MC 429	N 28° 31'16.04" W 88° 17'20.02"	No	13826	G24243	15,824	04-05	LIFT				
2481	MC 520	N 28°27'57.77" W 88° 10'11.08"	MC 474	N 28° 31'07.31" W 88° 16'50.21"	No	13788	G24236	41,023	05-08	BLKO				

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbls)	Distance To Shore ³	Appurt. Platform ⁴
2481	MC 520	N 28° 27'57.77" W 88° 10'11.08"	MC 474	N 28° 31'07.31" W 88° 16'50.21"	No	13789	G24236	41,023	12	CSNG				
2481	MC 522	N 28° 27'49.34" W 88° 06'17.48"	MC 474	N 28° 31'10.30" W 88° 16'50.20"	No	13799	G24238	61,287	08	BLKG				
2481	MC 522	N 28° 28'19.33" W 88° 06'09.98"	MC 474	N 28° 31'11.83" W 88° 16'49.83"	No	13802	G24239	61,504	08	BLKG				
2481	MC 608	N 28° 24'18.0" W 88° 12'18.04"	MC 474	N 28° 31'14.64" W 88° 17'18.82"	No	13786	G23729	49,415	05-08	BLKG				
00751	MC 778 A	N 28 11' 27.964" W 88 29' 44.503"	SP 89 E	N 28 41' 51.132" W 89 23' 45.3"	No	13633	G23429	373,166	24-28	34	Yes	416,000	17.0	YES
00751	MC 778	N 28.2004 W 88.4985	MC 428 SSTI	N 28.5448 W 88.4035	No	13632	G23428	130,398	20	Gas	Yes			NO
00751	MP 225 A	N 29 23.59 / W 88 02.34	MP 69	N 29 16.28 / W 89 00.58	Yes	11015	G16048	317,988	18	34.8	Yes	72,000	3.0	NO
02193 Destin PL	MP 260	N 29 20.7 W 88 4.0	MO 819FS	N 30 9.8 W 88 22.6	Yes	11273	0176	325,867	36	Gas	Yes	Gas	3	YES
00751	MP 281A	N 29 17.05 W 88 10.47	MP 245 18 SSTI	N 29 22.25 W 88 12.14	No	11928	G20541	30,638	10	45.2	Yes	6,016	55.6	NO

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02193	MP284 SS FLANG	N 29 16.2 W 88 15.2	MP 260 P	N 29 20.7 W 88 4.0	No	11930	G20542	69,183	24	Gas	Yes	Gas	45	YES
00751	SP 89 E	N 28° 41'51.86" W 89° 23'47.70"	GI19	N 29° 15'23.67" W 89° 57'46.04"	Yes	13534	G23068	243,588	30	Oil	Prop			
00751	VK 823 A	N 29 10.55? W 88 10.01	MP 281 10 SSTI	N 29 17.05? W 88 10.47?	No	12255	G21257	43,895	8	51.9	Yes	823	50	NO
00751	VK 826 A	N 29 09.49 W 87 59.27	MP 225 A	N 29 23.59 W 88 02.34	No	10981	G16032	92,525	8	34.4	Yes	14,030	65.6	NO
02193	VK 900 A	N 29 5.3 W 88 42.4	MP 284 FLANGE	N 29 16.2 W 88 15.2	No	11935	G20547	162,900	24	58-62	Yes	250	19	YES
2481	VK 914 SS #1	N 29 4' 39.88887 W -88 0' 56.0937	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	12757	Lease term ppl	23,059	6	51	Yes	2000	64.0	YES
2481	VK 914 SS #1	N 29 4' 39.88887 W -88 0' 56.0937	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	12758	Lease term ppl	23,059	6	51	Yes	Gas	64.0	YES
0114	VK 915 A Marlin	N 29.10760444 W 87.94367797	MP 225A	N 29 23 58.3 W 88 02 35.1	No	11765	G19681	115,063	10	Oil	Yes			YES
0114	VK 915 #1 SSW	N 29.1075525 W 87.94362108	MP 260 A	N 29 20.7 W 88 4.0	No	11766	G19682	98,270	14	Gas	Yes			YES

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2367	VK 915 SS #2	N 29.0973542 W -87.935516	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13146	Lease term ppl	5095	6	Gas	Yes	4000	64.0	YES
2367	VK 915 SS#1	N 29.0973028 W -87.9357319	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13145	Lease term ppl	5196	6	Gas	Yes	Gas	64	YES
2367	VK 915 Plet#1	N 29.0973028 W -87.9357319	VK 915 Pelt #2	N 29.0973542 W -87.935516	No	13147	Lease term ppl	94	6	Serv	Yes		64.0	YES
2367	VK 915 SS#2	N 29.0973542 W -87.935516	VK 915 A TLP	N 29 6' 27.46 W -87 56' 37.14	No	13146	Lease term ppl	5095	6	Gas	Yes	Gas	64.0	YES
2481	VK 989A	N 28.9730325 W 88.6259775	SP 62 12" SSTI - SHELL	N 29.07806271 W 88.74905482	No	10269	G14680	57,557	12	31.7	Yes	49,404	26.0	YES
2481	VK 989A	N 28.9730325 W 88.6259775	SP 62 20" SSTI - SONAT	N 29.10603035 W 88.72120222	No	10270	G14681	61,956	12	Gas	Yes	Gas	27.0	YES

- ¹ Indicate whether the ROW pipeline either terminates or originates at the Federal/State boundary (i.e., Yes or No).
² Provide the throughput volume in barrels of oil per day of the ROW pipeline.
³ Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
⁴ Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e., Yes or No).

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Table 3 Platforms in State Waters	
1	Provide the 2-letter MMS area designation of the State facility (e.g., MP, PS, WC).
2	Provide the State Block No. of the State facility.
3	Provide the State Lease No. of the State facility.
4	Provide the State facility designation.
5	Provide the State-assigned identification number for the facility.
6	Provide the water depth at the site of the State facility in feet.
7	Provide the latitude and longitude of the State facility in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
8	Provide the distance from the facility to the nearest shoreline in miles.
9	Provide the API Gravity of the densest oil being produced or stored at the State facility.
10	Enter the appropriate worst-case discharge volume rating (e.g., A, B, C, D, or E).
11	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the rate that oil is being produced in barrels per day from an uncontrolled flow of the highest capacity well at the facility.
12	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the total volume in barrels of all tanks on the facility used for the storage of oil including production (e.g., fuel oil including diesel fuel, corrosion inhibitors).
13	If "Rating" in column 10 is "E" or if high rate well has a daily flow rate greater than 2,500 barrels, provide the throughput volume in barrels of oil per day of the lease term pipelines that depart the facility.

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C. Table 3 – Production Platforms & Structures in State Waters

Figure A-4

Not Applicable.

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Table 4 Pipelines in State Waters	
1	Provide the 2-letter MMS area designation and the Block No. of the originating point of the State ROW pipeline (e.g., SP 2, EI 21).
2	Provide the latitude and longitude of the originating point of the State ROW pipeline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
3	Provide the 2-letter MMS area designation and the Block No. of the terminus of the State ROW pipeline or the point at which the ROW pipeline crosses the coastline (e.g., HI 96, SS 10).
4	Provide the latitude and longitude of the terminus of the State ROW pipeline (if in State waters) or the point at which the ROW crosses the coastline in degrees and decimal minutes (e.g., 28° 25.35'N, 90°09.08'W).
5	Indicate whether the ROW pipeline either terminates or originates at the Federal / State boundary (i.e., yes, no).
6	Provide the State-assigned identification number of the State ROW pipeline, if assigned.
7	Provide the State-assigned ROW No. of the State ROW pipeline.
8	Provide the length of the State ROW pipeline in feet.
9	Provide the internal diameter of the State ROW pipelines in inches.
10	Provide the API Gravity of the oil being transported by the State ROW pipeline.
11	Indicate whether the State ROW pipeline is monitored by a leak detection systems (i.e., Yes, No).
12	Provide the throughput volume in barrels of oil per day of the State ROW pipeline.
13	Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.
14	Indicate whether the ROW pipeline has an associated appurtenance platform(s) (Yes, No).

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D. Table 4 – ROW Pipelines in State Waters

Figure A-5

ROW Pipelines in State Waters														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oper	From	Latitude/ Longitude	To	Latitude Longitude	F/S Boundary ¹	Segment Number	ROW #	Length (feet)	Size (in)	API Gravity	Leak Detect System	Thru Volume ² (bbls)	Distance To Shore ³	Appurt. Platform ⁴
02193	MO 819 FS	29° 16.28' 89° 00.58'	MP 69	29° 15.22' 89° 01.16'	YES	---	---	6,893.2	16.876	34.8	YES	72,000	3.0	

¹ Indicate whether the ROW pipeline either terminates or originates at the Federal/State boundary (i.e., Yes or No).

² Provide the throughput volume in barrels of oil per day of the ROW pipeline.

³ Provide the distance to shore of the point of the ROW pipeline that is nearest to the shoreline in miles.

⁴ Indicate whether the ROW pipeline has an associated appurtenance platform(s) (i.e., Yes or No).

⁵ State identification numbers are not issued to facilities or pipelines.

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APPENDIX B – TRAINING INFORMATION

A. BP OSRC/IC, IMT and QI

BP arranges for annual training for QI/IC and Incident Management Team (IMT) personnel including:

1. Qualified Individuals
2. Incident Commander
3. Operations Section Chief
4. Planning Section Chief
5. Logistics Branch Director
6. Others as necessary

For a listing of the most recent training sessions, see **Figure B-2**.

B. Training Agenda for IMT Members

Training provided includes the overall responsibility of the IMT as well as individual responsibilities, reporting procedures, location and intended use of available response equipment, deployment strategies, and oil spill trajectory analysis. The training is provided to comply with 30 CFR 254.41(b).

C. SROT/TRT Training

As specified in 30 CFR Part 254.41, personnel responsible for operating spill response equipment receive annual hands-on training by actual deployment and operation of equipment. For a full description of SROT/TRT training, refer to **Figure B-3**.

D. TRAINING Records

All records of training are maintained at BP's Houston, TX office. Training records are recorded in Virtual Training Assistant. For specific contact information regarding training records for BP, refer to **Figure B-1**.



Training Record Locations

Figure B-1

LOCATION OF REQUIRED TRAINING RECORDS	
Company name	BP
Contact Name	Earnest Bush
Street Address	200 Westlake Park Boulevard
City, Street, Zip	Houston, Texas 77079
Phone Numbers	281-366-3237

Training History – Qualified Individuals IMT

Figure B-2

The personnel, given in the table below, undergo annual IMT training under the direction of BP.

Name	Date	Type of Training
Qualified Individual / Incident Commander		
Hohle, Jeff	5/18/09	IMT Section Specific
Jackson, Curtis	5/21/09	IMT Section Specific
Leary, Mick	5/21/08	IMT Section Specific
McDaniel, Sammy	5/21/09	IMT Section Specific
Replogle, Dan	8/1/08	IMT Section Specific
Seilhan, Keith	11/20/08	IMT Section Specific
Oneto, Rick	9/15/08	IMT Section Specific
Shero, Winston	5/21/09	IMT Section Specific
Holt, Charlie	5/21/09	IMT Section Specific
Imm, Gary	2/1/09	IMT Section Specific
Mick, Will	9/15/08	IMT Section Specific
Operations Section Chief		
Al Monthiry, Wissam	5/21/09	IMT Section Specific
Black, Jim	5/21/09	IMT Section Specific
Frazelle, Andy	5/19/09	IMT Section Specific
Little, Ian	5/19/09	IMT Section Specific
O'Donnell, Bill	5/21/09	IMT Section Specific
Rohloff, James	5/21/09	IMT Section Specific
Sanders, Robert	11/07/08	IMT Section Specific
Stead, Damian	5/21/09	IMT Section Specific
Kirton, Bill	8/1/08	IMT Section Specific
Littlefield, Burt	5/21/09	IMT Section Specific
Lowe, Jon	11/20/08	IMT Section Specific

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Training History – Qualified Individuals IMT (continued)

Figure B-2

Name	Date	Type of Training
Planning Section Chief		
Bartlett, Rick - P	2/9/09	IMT Section Specific
Jackson, Victor	5/21/09	IMT Section Specific
Loveland, Richard	5/21/09	IMT Section Specific
Handyside, Doug	5/21/09	IMT Section Specific
Johnson, Dennis P.	5/21/09	IMT Section Specific
Rich, Dave	5/21/09	IMT Section Specific
Vinson, Graham	5/21/09	IMT Section Specific
Singh, Pramod	5/18/09	IMT Section Specific
Waligura, Starlee	5/20/09	IMT Section Specific
Steel, Bill	2/1/09	IMT Section Specific
Williamson, Dawn	5/21/09	IMT Section Specific

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Training History – MSRC SROT Hands-On Equipment Deployment Training
Figure B-3

Equipment Type	Operating Environment (date completed)		
	River / Canal	Inland	Ocean
2006			
SEA SENTRY II	10/12/2006	9/15/2006	4/26/2006
TEXAS INTERTIDAL	2/21/2006	N/A	N/A
Curtain Boom	5/5/2006	2/20/2006	10/3/2006
GT - 185	2/23/2006	10/3/2006	10/3/2006
FOILEX 200/250	7/1/2006	9/21/2006	9/21/2006
Queensboro QME-30	9/14/2006	N/A	N/A
WP-1	5/22/2006	2/23/2006	N/A
WALOSEP W4	5/3/2006	9/21/2006	9/21/2006
DESMI OCEAN	6/12/2006	7/2/2006	10/16/2006
AARD VAC	4/8/2006	N/A	N/A
TRANSREC 350	6/22/2006	7/20/2006	4/21/2006
SOREG "STRESS"	10/12/2006	10/12/2006	2/24/2006
LORI Brush Pack (FRV)	3/28/2006	6/21/2006	10/26/2006
2007			
SEA SENTRY II	3/28/2007	5/16/2007	3/2/2007
TEXAS INTERTIDAL		N/A	N/A
Curtain Boom	5/3/2007	2/15/2007	3/2/2007
GT-185	5/1/2007	2/15/2007	6/20/2007
FOILEX 200/250	4/12/2007	4/12/2007	4/12/2007
Queensboro QME-30	3/16/2007	N/A	N/A
WP-1	1/26/2007	1/26/2007	N/A
WALOSEP W4	2/27/2007	2/27/2007	2/27/2007
DESMI OCEAN	2/18/2007	3/30/2007	3/30/2007
AARD VAC	4/13/2007	N/A	N/A
TRANSREC 350	4/23/2007	4/26/2007	4/18/2007
SOREG "STRESS"	3/16/2007	4/18/2007	4/12/2007
LORI Brush Pack (FRV)	5/3/2007	5/3/2007	N/A

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Training History – MSRC SROT Hands-On Equipment Deployment Training (Cont'd) **Figure B-3**

Equipment Type	Operating Environment (date completed)		
	River / Canal	Inland	Ocean
<i>2008</i>			
SEA SENTRY II	1/29/08	1/29/08	5/20/08
TEXAS INTERTIDAL	4/2/08	N/A	N/A
Curtain Boom	3/14/08	3/14/08	N/A
GT-185	5/27/08	5/27/08	4/2/08
FOILEX 200/250	5/14/08	5/14/08	7/30/08
Queensboro QME-30	6/25/08	N/A	N/A
WP-1	5/14/08	5/14/08	N/A
WALOSEP W4	5/8/08	5/8/08	5/8/08
DESMI OCEAN	3/14/08	3/14/08	5/22/08
AARD VAC	2/4/08	N/A	N/A
TRANSEC 350	4/17/08	4/17/08	4/10/08
SOREG "STRESS"	5/20/08	5/20/08	5/20/08
LORI Brush Pack (FRV)	7/17/08	7/17/08	N/A

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NRC 2005 Annual Prep Equipment Deployment Summary

Figure B-4

COTP Zone Name	Contractor Name / OSRO #	Location	NRC Equipment Storage Site	Boom >26" <42"	Boom >42"	Boom 18"-42"	Boom 6" 18"	Skimmer Drum	Skimmer Floating Suction	Skimmer Oleophilic Belt	Skimmer Oleophilic Disk	Skimmer Oleophilic Rope Mop
MSO Mobile,	NRC/0016	Theodore Industrial Canal AL	Mobile AL, NRC OSRB Defender						3	1	1	1
MSO Port Arthur	NRC/0016	Off Sabine Pass TX	Galveston TX, NRC OSRV Admiral			2000'						
MSO Mobile	NRC/0016	Mobile Bay AL	Mobile AL, NRC OSRB Defender						2			1
MSO Corpus Christi	NRC/0016	Brown Harbor TX	Corpus Christi TX, NRC OSRB Valiant	1000'						1		
MSO Fourchan	NRC/0016	Offshore	Galveston TX, NRC OSRV Admiral		200'	1200'				1		
MSO Fourchan	NRC/0016	Belle Pass Anchorage	Belle Chase LA		100'					1		
MSO Mobile,	NRC/0016	Theodore Industrial Canal AL	Mobile AL, NRC OSRB Defender			1000'			1	1		
MSO Port Arthur	NRC/0016	Open Ocean off Sabine Pass	Miami FL, NRC OSRV Sentinel	1000'								
MSO Mobile,	NRC/0016	Dauphin Island AL	Memphis TN			100'			1			
MSO Mobile,	NRC/0016	Pascagoula River MS	Memphis TN			100'			1			
MSO Port Arthur	NRC/0016	Lake Charles LA	Belle Chase LA						1	1		
MSO Port Arthur	NRC/0016	Lake Charles LA	Sulphur LA						1			1

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MSO Galveston	NRC/0016	Galveston Jetty TX	Galveston TX, NRC OSRV Admiral	100'					1		
MSO Galveston	NRC/0016	Galveston Jetty TX	Galveston TX, NRC OSRV Admiral	100'					1		1
MSO Galveston	NRC/0016	Offshore Galveston TX	Galveston TX, NRC OSRV Admiral	100'		1300'			1		
MSO Galveston	NRC/0016	Galveston Harbor TX	Galveston TX	100'							1
MSO Galveston	NRC/0016	Offshore Galveston TX	Galveston TX, NRC OSRV Admiral	100'		1100'			1		1
MSO Port Arthur	NRC/0016	OffShore Sabine Pass TX	Lake Charles LA, NRC OSRV Energy			500'					
EPA region 4	ES&H/0050	Worthville KY	N/A			1000'		1			
EPA Region 6	ES&H/0050	Bateman Lake	N/A			1000'			1		
MSO Morgan City	ES&H/0050	Point a la Hache LA	N/A			1000'			1		
MSO Morgan City	ES&H/0050	4 League Bay LA	N/A			1000'		1			
MSO Morgan City	ES&H/0050	Lake Boudreaux LA	N/A			1000'		1			
MSO Morgan City	ES&H/0050	West Lake LA	N/A			1000'			1		
MSO Morgan City	ES&H/0050	Lake Charles LA	N/A			1000'		1			
MSO New Orleans	ES&H/0050	Grande Isle LA	N/A			1000'		1			
MSO New Orleans	ES&H/0050	Pilot Town LA	N/A			1000'		1			
MSO New Orleans	ES&H/0050	Venice LA	N/A			1000'		1			
MSO New Orleans	OMI/0012	Cox Bay LA	N/A				1400 0'	3	3	1	2
MSO Port Arthur	OMI/0012	Sabine Pass TX	N/A				5300'				

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MSO Houston	OMI/0012	Houston TX	N/A				1200'		1		1	
MSO Morgan City	OMI/0012	Weeks Island LA	N/A				800'		1		1	
MSO Morgan City	OMI/0012	Burns Point LA	N/A				2000'	1	1			
MSO Corpus Christi	Miller Services/0072	Corpus Christi Bay TX	N/A				1600'					
MSO Corpus Christi	Miller Services/0072	Corpus Christi Bay TX	N/A				500'					
MSO Corpus Christi	Miller Services/0072	Ingleside TX	N/A				1000'					
MSO Miami	Clean Harbors/0013	Jensen Beach FI	N/A				700'	1				
MSO Port Arthur	Clean Harbors/0013	Taylor's Bayou TX	N/A				1000'					
MSO Port Arthur	Clean Harbors/0013	Taylor's Bayou TX	N/A				1500'					
MSO Miami	Clean Harbors/0013	Jensen Beach FI	N/A				500'	1				
MSO Jacksonville	Moran/0151	Jacksonville FL	N/A					1	2			
MSO Jacksonville	Moran/0151	Jacksonville FL	N/A				1,100'					

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NRC 2006 Annual Prep Equipment Deployment Summary

Figure B-5

COTP Zone Name	Contractor Name / OSRO #	Location	NRC Equipment Storage Site	Boom >26" <42"	Boom >42"	Boom 18"-42"	Boom 6" 18"	Skimmer Drum	Skimmer Floating Suction	Skimmer Oleophilic Belt	Skimmer Oleophilic Disk
MSO Port Arthur	NRC/0016	Lake Charles, LA	N/A		2200'					1	
MSO Port Arthur	NRC/0016	Lake Charles, LA	N/A	1000'							
MSO Port Arthur	NRC/0016	Lake Charles, LA	N/A		500'			1			
MSO Port Arthur	NRC/0016	Lake Charles, LA	N/A					2	2	3	
COTP Galveston	NRC/0016	Galveston, TX	N/A		1900'						
MSO Port Arthur	NRC/0016	Sabine Pass TX	N/A						1		1
MSO Miami	NRC/0016	Miami Harbor, Miami, FL	N/A		1300'			1	1		
MSO Port Arthur	NRC/0016	Lake Charles, LA	N/A					2	2	3	
MSO Mobile	NRC/0016	Mobile, AL	N/A					2	1	1	
MSO Mobile	NRC/0016	Mobile, AL	N/A					2	1	1	
MSO Mobile	NRC/0016	Mobile, AL	N/A					2	1	1	
MSO Savannah	NRC/0016	Savannah, GA	N/A						1		1
MSO Savannah	NRC/0016	Savannah, GA	N/A						1		1
MSO Savannah	NRC/0016	Savannah, GA	N/A						1		1
MSO Corpus Christi		Aransas Marine Ways	OSRB NRC Valiant								
	NRC/0016	Berth			1000'				1		
MSO Mobile	NRC/0016	Bayou La Batre, AL	N/A		1000'			1	1		

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MSO Port Arthur	Miller Environmental Group / 0020	Lake Charles, LA	N/A	10,000'							
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Bay, TX	N/A	1200'							
	Miller Environmental Services / 0072										
MSO Corpus Christi	Miller Environmental Services / 0072	Conn Brown Harbor, TX	N/A	600'							
MSO Corpus Christi	Miller Environmental Services / 0072	Conn Brown Harbor, TX	N/A	600'							
MSO Corpus Christi	Miller Environmental Services / 0072	Conn Brown Harbor, TX	N/A	300'							
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Ship Channel, TX	N/A	800'							
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Ship Channel, TX	N/A	10,000'			3				
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Bay, TX	N/A	1600'							
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Ship Channel, TX	N/A	200'							
MSO Corpus Christi	Miller Environmental Services / 0072	Corpus Christi Ship Channel, TX	N/A	1100'							
	Miller Environmental Services / 0072	Corpus Christi									
MSO Corpus Christi	Miller Environmental Services / 0072	Ship Channel	N/A	400'							

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NRC 2007 Annual Prep Equipment Deployment Summary

Figure B-6

COTP Zone Name	Contractor Name / OSRO #	Location	NRC Equipment Storage Site	Boom >26" <42"	Boom >42"	Boom 18"-42"	Boom 6" 18"	Skimmer Drum	Skimmer Floating Suction	Skimmer Oleophilic Belt	Skimmer Oleophilic Disk
Sector Houston	NRC / 0016	3 miles south of Galveston Jetties	NRC Admiral		1400'				1		1
Sector Miami	NRC / 0016	Miami Harbor	NRC Sentinel / Cliff Berry			1000'		1	1		
Sector Miami	NRC / 0016	1.2 miles NE of Miami Jetties	NRC Perseverance		2500'						
Sector Corpus Christi	NRC / 0016	Dockside Aransas Pass, TX	NRC Valiant		1,000				1		
Sector Miami	NRC / 0016	Indian River	Cliff Berry, Cocoa Beach, FL		1200'			1	1		1
Sector Port Authur	NRC / 0016	Naches River at Sabine Pass Port	NRC Admiral		1200'			3	1		2
Sector Mobile	NRC / 0016	Bayou La Batre, Al	NRC Defender		1000'			1	1		
Sector Jacksonville	NRC / 0016	Ft. Lauderdale, New River	N/A	1200'							

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NRC 2008 Annual Prep Equipment Deployment Summary

Figure B-7

COTP Zone Name	Contractor Name / OSRO #	Location	NRC Equipment Storage Site	Boom >26" <42"	Boom >42"	Boom 18"-42"	Boom 6" 18"	Skimmer Drum	Skimmer Floating Suction	Skimmer Oleophilic Belt	Skimmer Oleophilic Disk
Sector Houston-Galveston	NRC / 0016	Galveston Harbour	NRC Admiral /Galveston TX		300'				1		
Sector Houston-Galveston	NRC / 0016	3 Miles South of Galveston Jetties	NRC Admiral /Galveston TX		1,100'				1		
Sector Houston-Galveston	NRC / 0016	3 Miles South of Galveston Jetties	NRC Admiral /Galveston TX		1,400'				1		1
Sector Corpus Christi	NRC / 0016	Intercoastal Waterway & Conn Brown Harbor -- Dockside	NRC Valiant / Aransas Pass TX						1		
Sector Houston-Galveston	NRC / 0016	Galveston Harbour	NRC Admiral /Galveston TX						1		
Sector Corpus Christi	NRC / 0016	Aransas Marine, Conn Brown harbor	NRC Valiant / Aransas Pass TX		1,000'				1		
Sector New Orleans	NRC / 0016	Steiner Docks Bayou La Batre Harbor	NRC Defender / Bayou Labatre, AL					1	1		

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APPENDIX C – DRILL INFORMATION

Response exercises are designed to provide response personnel with an opportunity to apply applicable training, test response plans for deficiencies, and learn from previously-held exercises and actual spill events. BP will maintain records of all exercises for a period of three (3) years, and said records will be stored in BP's Houston, Texas location.

Spill response exercises will take the following forms:

A. Response Exercise Programs

1. Notification Exercise

BP will conduct internal Incident Command notification exercises annually at each offshore facility that is manned 24 hours per day in order to evaluate the effectiveness of emergency response communications. Involved field personnel will document personnel notified, time and date of notification, contact method, and any contact number changes. Refer to **Figure C-1** for the PREP Internal Exercise Notification Form – Notification Exercise.

2. Incident Management Team Tabletop Exercises (IMT TTX)

The BP Incident Management Team (IMT) will conduct an annual tabletop exercise to ensure the IMT is familiar with the company OSRP and their individual roles within the IMT. The internal tabletop exercise will be announced, however, the scenario will be unannounced. In a three year period, fifteen components of PREP will be tested. An agency initiated unannounced exercise may take the place of this annual exercise. Refer to **Figure C-2** for the PREP Internal Exercise Notification Form – Spill Management Team Tabletop Exercise.

3. Equipment Deployment Exercises

BP will periodically verify the major equipment providers identified in this OSRP continue to conduct semi-annual equipment training exercises, or commensurate activities during an actual spill. Deployment must include an example of equipment as stated in PREP. Refer to **Figure C-3** for the PREP Internal Exercise Documentation Form – Equipment Deployment.



Internal Exercise Documentation Form - Notification Exercise Figure C-1



Form # HCC-00-001, Notification Drill Documentation

**BP Offshore Facilities
Incident Commander (IC)
a.k.a. Qualified Individual (QI)**

Scope: Exercise/test communications between personnel on each 24-hour manned facility and the Incident Commander (IC) or qualified individual (QI). Information to be provided in the event of a spill must be simulated during this drill, i.e. current operations, environmental conditions, logistics status, etc. Drill must be performed semi-annually for each manned facility.

Objectives: Establish voice contact, through the chain of command, with the On Duty Incident Commander as listed on the Weekly Duty Roster or the Houston Crisis Center (HCC).

Facility: _____ Date: _____

Time drill was initiated from facility (open loop): _____ (am/pm)

Time IC or HCC voice contact was made (close loop) _____ (am/pm)

Comments: _____

Suggested Action Items: _____ Date Completed: _____

I certify that this drill was completed, met the objectives stated above, and was evaluated to determine the effectiveness of the response plan components which were exercised.

Certification Signature
(Facility/Supervisor): _____

Note: Submit a copy of this completed from to:

Earnest D. Bush
200 Westlake Park Blvd
Houston, TX 77079



Internal Exercise Documentation Form – SMT Table Top

Figure C-2

1. Date Performed: _____
2. Exercise or actual response? _____ If an exercise, announced or unannounced? _____
3. Location of Tabletop: _____
4. Time started: _____ Time completed: _____
5. Response plan scenario used (check one): <input type="checkbox"/> Average most probable discharge <input type="checkbox"/> Maximum most probable discharge <input type="checkbox"/> Worst case discharge Size of (simulated) spill _ bbls/gals
6. Describe how the following objectives were exercised: a) Spill management team’s knowledge of Oil Spill Response Plan: _____ _____ b) Proper notifications: _____ _____ c) Communications system: _____ _____ d) Spill Management Team’s ability to access contracted oil spill removal organizations: _____ _____ e) Spill Management Team’s ability to coordinate spill response with On-Scene Coordinator, state and applicable agencies: _____ _____ f) Spill Management Team’s ability to access sensitive site and resource information in the Area Contingency Plan: _____ _____

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Internal Exercise Documentation Form – SMT Table Top (continued) Figure C-2

7. Identify which of the 15 core components of your response plan were exercised during this particular exercise:

Attach description of lesson(s) learned and person(s) responsible for follow-up of corrective measures.

Certifying Signature

Retain form for a minimum of three (3) years (for USCG/RSPNMMS) or five (5) years (for EPA).

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Internal Exercise Documentation Form - Equipment Deployment (continued) Figure C-3

12. Was all deployed equipment operational? Yes No N/A

If No, describe: _____

13. Identify which of the 15 core components of your response plan were exercised during this particular exercise (check all that apply):

Attach description of lesson(s) learned and person(s) responsible for follow-up of corrective measures.

Certifying Signature

Note – Retain form for a minimum of three (3) years (for USCG/RSPNMMS) or five (5) years (for EPA).

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Internal Exercise Documentation Form - PREP Evaluation Worksheet

Figure C4

NATIONAL PREPAREDNESS FOR RESPONSE EXERCISE PROGRAM (PREP)				
15 PREP COMPONENTS EVALUATION WORKSHEET				
Incident/Drill Name:		Prepared by:		at:
Period: to		Company Name:		
ORGANIZATION DESIGN				
1) Notifications				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
1a. Test the notifications procedures identified in the Area Contingency Plan and the associated Responsible Party Response Plan.				
Internal local management team & response team notification procedures were followed per ICP.				
Notifications were made between the local team, Incident Support Team, and corporate support.				
Primary response contractors & government agencies notification procedures were followed.				
Notifications were documented				
Required notifications were made in a timely manner.				
2) Staff mobilization				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
2a. Demonstrate the ability to assemble the response organization identified in the associated Responsible Party Response Plan.				
Local response team was contacted and mobilized in a timely manner.				
Task Force/Strike team members were mobilized to support 24 hour operations.				
Command post identified was adequate to support response.				
3) Ability to operate within the response management system described in the plan				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
Initial (Local) Response Management				
Initial Site Safety addressed as per plan procedures.				
Emergency shutdown procedures identified in the contingency plan were conducted (may be a walk-through).				
Established an efficient and effective command structure.				
Strategic response objectives were defined quickly				

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Drill Information

Operations checklist(s) including the field document—identified in the plan were used.				
Performed initial assessment of incident including consideration of environmental conditions).				
Water Intake Protection: Demonstrated the ability to quickly identify water intakes and followed the proper protection procedures.				
Population Protection: Demonstrated the ability to quickly identify health hazards associated with the discharged product and the population at risk.				
Field-tested plan holders initial response communication equipment and systems.				
Local internal team members performed task assignments as described in the contingency plan				
Demonstrated smooth transition of the initial response to the management team through completion of an Initial Incident Briefing (ICS Form 201).				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
Unified Command & Command Staff				
3.1 Unified Command: Demonstrate the ability of the response organization to work within a unified command				
Members of the Unified Command are identified and an Initial Incident Briefing was conducted (for example, using an ICS Form 201).				
Unified Command established overall response organization and ensured staffing.				
Unified Command developed and prioritized overall incident objectives and assessed if current and planned actions were consistent with those objectives. (ICS Form 202).				
Unified Command established Operational Periods, approved meeting schedules, and attended meetings as appropriate.				
Unified Command approved an Incident Action Plan (IAP).				
Unified Command approved or authorized news releases and updates to the news media through the Lead Information Officer(s).				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
3.2. Response Management System: Demonstrate the ability of the response organization to operate within the framework of the response management system identified in their respective plans.				
3.2.1 Operations: Demonstrate the ability to coordinate or direct operations related to the implementation of action plans contained in the respective response and contingency plans developed by the unified command.				

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Implemented initial Site Safety Plan				
Operations Section was established as per the ICP.				
Established communication with staging and the field.				
Tactical assignments were made appropriate to the overall incident objectives and strategies.				
Operations Section coordinated with the Planning Section to develop resource orders, tracking, and documentation.				
Operations Section coordinated with the Planning Section to ensure resource status changes and status displays were accurate.				
Coordinated with local, state and federal operations representatives (if applicable).				
3.2.2 Planning: Demonstrate the ability to consolidate the various concerns of the members of the unified command into joint planning recommendations and specific long-range strategic plans. Demonstrate the ability to develop short-range tactical plans for the operations division.				
Planning Section was established as per the contingency plan and included the following units/functions: situation, resources, environmental, and documentation.				
Planning Section used the contingency plan, Area Contingency Plan, Geographic Response Plan, and/or other resource protection information.				
Obtained trajectories/air plumes and/or overflights from Operations				
Planning Section Chief established an appropriate meeting schedule utilizing the Planning Cycle				
Planning Section Chief facilitated and ensured appropriate attendance and participation at all scheduled planning cycle meetings.				
Prepared and maintained Command Post Situation Display which included the following: Incident Summary, Weather, Tides, Situation and Planning maps, Response Objectives, Resources at Risk, Organization Chart, Incident Status Summary (ICS Form 209), Resources Status Detailed, and a Meeting Schedule.				
Developed and maintained a Master List of all resources checked in at the incident including check-in, status, current location, estimated time of deployment, etc.				
Developed an approved Incident Action Plan (IAP).				
Documented the response effort (i.e., utilizing an historian, use of plan documentation forms, etc.).				
3) Ability to operate within the response management system described in the plan				
Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
3.2.3 Logistics: Demonstrate the ability to provide the necessary support of both the short-term and long-term action plans.				
Coordinated and processed requests for resources.				

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 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
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 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
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 Document Administrator: Kristy McNease,
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BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix C
Drill Information

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
Managed the implementation of the contingency plan's Communication Plan and prepared an incident Radio Communications Plan (ICS 205).				
Developed or described a plan to ensure sufficient feeding, potable water and sanitary arrangements to meet all incident needs.				
Developed a plan to provide personnel and equipment for all elements of the response.				
Established a command post that accommodated the needs of the response organization.				
Identified and planned for support facilities/areas as needed including equipment/personnel staging areas, helibase per contingency plan specifications, and Camps.				
Developed a plan to provide ground, vessel, and aircraft support (includes vehicle, vessel, and aircraft maintenance).				
3.2.4 Finance: Demonstrate the ability to document the daily expenditures of the organization and provide cost estimates for continuing operations.				
Established an AFE & claims phone number				
Documented estimated and daily cost				
3.2.5 Public Affairs: Demonstrate the ability to form a joint information center and provide the necessary interface between the unified command and the media.				
Public Information Officer (PIO) was designated.				
Prepared at least one initial news release and one joint news release.				
Joint Information Center (JIC) was established and provided timely and accurate information regarding the incident cleanup effort through news releases, availability of a Public Affairs staff, and news media briefings.				
Provided information regarding the incident cleanup effort to local officials and citizens.				
Ensured situation and status used for news releases and news conferences was consistent with Planning Section status.				
Ensured appropriate representatives and technical specialists were present at all news briefings (for example: Unified Commanders, Scientific Support Coordinator, Environmental Unit Leader, and wildlife expert).				
3.2.6 Safety Affairs: Demonstrate the ability to monitor all field operations and ensure compliance with safety standards.				
Safety Officer designated.				
Ensured a site safety plan was developed/approved by the Unified Command and communicated to appropriate field staff.				
3.2.7 Legal Affairs: Demonstrate the ability to provide the unified command with suitable legal advice and assistance.				

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OPERATIONAL RESPONSE

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
4. Demonstrate the ability of the response organization to control and stop the discharge at the source.				
Defined control measures to secure the source.				
Developed a repair plan				
4.1 Salvage: Demonstrate the ability to assemble and deploy salvage resources identified in the response plan.				
4.2 Firefighting: Demonstrate the ability to assemble and deploy the firefighting resources identified in the response plan.				
4.3 Lightering: Demonstrate the ability to assemble and deploy the lightering resources identified in the response plan.				
4.4 Other salvage equipment and devices: (electrical and manual controls and barriers to control the source) Demonstrate the ability to assemble and deploy the other salvage devices identified in the response plan				

5) Assessment of discharge

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
5. Demonstrate the ability of the response organization to provide an initial assessment of the discharge and provide continuing assessments of the effectiveness of the tactical operations plan for use.				
Conducted ground and/or air surveillance				
Obtained weather and trajectory information				
Determined initial spill volume and potential				
Determined appropriate response technologies				

6) Containment of discharge

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
6. Demonstrate the ability of the response organization to contain the discharge at the source or In various locations for recovery operations.				
Demonstrated or described damage control procedures as identified in the response plan (such as plugging or patching a leak in a pipeline or storage tank).				
Demonstrated or described containment of a land spill from entering water by channeling, diverting, or beaming.				
Facility began initial deployment of response equipment on-site within one hour.				
Demonstrated the ability to contain spilled product at locations other than the point of discharge.				

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7) Recovery of spilled material

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
7. Demonstrate the ability of the response organization to recover, mitigate, and remove the discharged product. Includes mitigation and removal activities, e.g. dispersant use, ISB use, and bioremediation use.				
7.1 On-Water Recovery: Demonstrate the ability to assemble and deploy the on-water response resources identified in the response plans.				
7.2 Shore-Based Recovery: Demonstrate the ability to assemble and deploy the shoreside response resources identified in the response plans.				
Identified & deployed initial recovery resources to address the incident.				

8) Protection of sensitive areas

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
8. Demonstrate the ability of the response organization to protect the environmentally and economically sensitive areas identified in the Area Contingency Plan and the respective industry response plan.				
8.1 Protective Booming: Demonstrate the ability to assemble and deploy sufficient resources to implement the protection strategies				
8.2 Water Intake Protection: Demonstrate the ability to quickly identify water intakes and implement the proper protection procedures				
8.3 Wildlife Recovery and Rehabilitation: Demonstrate the ability to quickly identify these resources at risk and implement the proper protection procedures				
8.4 Population Protection (Protect Public Health and Safety): Demonstrate the ability to quickly identify health hazards associated with the discharged product and the population at risk from these hazards, and to implement the proper protection procedures				
Plan holder field-tested facility specific GRP strategies. (If applicable)				

9) Disposal of recovered material and contaminated debris

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
9. Demonstrate the ability of the response organization to dispose of the recovered material and contaminated debris.				
Identified waste storage and disposal options.				
Demonstrated the ability to transfer or off-load recovered product to on-shore storage facilities. (If applicable)				

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RESPONSE SUPPORT

10) Communications

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
10. Demonstrate the ability to establish an effective communications system for the response organization.				
10.1 Internal Communications: Demonstrate the ability to establish an intra-organization communications system. This encompasses communications at the command post and between the command post and deployed resources.				
10.2 External Communications: Demonstrate the ability to establish communications both within the response organization and other entities (e.g., RRT, claimants, media, regional or HQ agency offices, non-governmental organizations, etc.).				

11) Transportation

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
11. Demonstrate the ability to provide effective multi-mode transportation both for execution of the discharge and support functions.				
11.1 Land Transportation: Demonstrate the ability to provide effective land transportation for all elements of the response.				
11.2 Waterborne Transportation: Demonstrate the ability to provide effective waterborne transportation for all elements of the response.				
11.3 Airborne Transportation: Demonstrate the ability to provide the necessary support of all personnel associated with the response.				

12) Personnel support

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
12. Demonstrate the ability to provide the necessary support of all personnel associated with the response.				
12.1 Management: Demonstrate the ability to provide administrative management of all personnel involved in the response. This requirement includes the ability to move personnel into or out of the response organization with established procedures.				
12.2 Berthing: Demonstrate the ability to provide overnight accommodations on a continuing basis for a sustained response.				
12.3 Messing: Demonstrate the ability to provide suitable feeding arrangements for personnel involved with the management of the response.				
12.4 Operational and Administrative Spaces: Demonstrate the ability to provide suitable operational and administrative spaces for personnel involved with the management of the response.				

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12.5 Emergency Procedures: Demonstrate the ability to provide emergency services for personnel involved in the incident.				
--	--	--	--	--

13) Equipment maintenance and support

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
13. Demonstrate the ability to maintain and support all equipment associated with the response.				
13.1 Response Equipment: Demonstrate the ability to provide effective maintenance and support for all response equipment. Provide effective waterborne transportation for all elements of the response.				
13.2 Response Equipment: Demonstrate the ability to provide effective maintenance and support for all equipment that supports the response. This requirement includes communications equipment, transportation equipment, administrative equipment, etc.				

14) Procurement

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
14. Demonstrate the ability to establish an effective procurement system.				
14.1 Personnel: Demonstrate the ability to procure sufficient personnel to mount and sustain an organized response. This requirement includes insuring that all personnel have qualifications and training required for their position within the response organization.				
14.2 Response Equipment: Demonstrate the ability to procure sufficient response equipment to mount and sustain an organized response.				
14.3 Support Equipment: Demonstrate the ability to procure sufficient support equipment to support and sustain an organized response.				

15) Documentation

Components	ICS Position Responsible	Completed (Y/N)	Date/Time Completed	Comments
15. Demonstrate the ability of the response organization to document all operational and support aspects of the response and provide detailed records of decisions and actions taken.				

PREPARED BY: THE RESPONSE GROUP (281) 880-5000

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APPENDIX D – CONTRACTUAL AGREEMENTS

A. Contractual Agreements

Any contracts or membership agreements with OSROs, COOP's, or Spill Management Team service companies are cited in the plan are outlined in **Figures D-1 to D-7**.

B. Primary Equipment Providers

The National Response Corporation (NRC) and the Marine Spill Response Corporation (MSRC) are the primary equipment providers for BP in the Gulf of Mexico region and maintain a dedicated fleet of vessels and other spill response equipment permanently located at designated ports. NRC & MSRC have the ability to plan the mobilization and rapid deployment of spill response resources on a 24 hour, 7 days a week basis. BP also has contracts with Clean Caribbean & Americas, as well as Oil Spill Response Limited/East Asia Response Limited for additional spill response support. The company also has contracts with the McCloskey Group, Inc. and The O'Brien's Group to provide resource/cost tracking consultation and oil spill response method consultation, respectively.

Resources mobilized through the above providers will be deployed and operated by HAZWOPER trained personnel with proven operations experience and local knowledge.

Contractual Agreements Quick Reference Table				
Contractor	Service Type	Begin Date	End Date	Self-Renewing
Clean Caribbean & Americas	Oil Spill Removal Organization	6/1/2001		Y
MSRC	Oil Spill Removal Organization	9/26/2001		Y
NRC	Oil Spill Removal Organization	2/22/2001		Y
ASI	Dispersant Application Services	1/1/2009	12/31/2009	Y
OSRL / EARL	Oil Spill Removal Organization	1/1/2006		Y
O'Brien Oil Pollution Service, Inc	Oil Spill Response Consultation			Y



Proof Of Contractual Agreements – Clean Caribbean & Americas

Figure D-1



2381 Stirling Road
Ft. Lauderdale, Florida 33312-6608
TEL: (954) 983-9880
FAX: (954) 987-3001

Members

- Aramco Services Company*
- BP Shipping U.S.A.*
- ChevronTexaco Corporation*
- ConocoPhillips*
- Ecopetrol Refineria de Cartagena*
- ExxonMobil Inter-America Inc.*
- Petrojam, Ltd.*
- Petroleos de Venezuela, S.A.*
- Petroleum Company of Trinidad and Tobago Limited*
- Petroterminal de Panama, S.A.*
- Shell Response Limited*
- South Riding Point Holding, Ltd.*
- State Oil Company Suriname N.V.*
- Stnoco, Inc.*

Associate Members

- BHP Billiton Petroleum (Americas) Inc.*
- Devon Energy Corporation*
- EOG Resources International, Inc.*
- La Compania de Electricidad de San Pedro de Macoris*
- MODEC, Inc.*
- Oleoducto Central S.A.*
- Panama Canal Authority*
- Petroleo Brasileiro S.A.*
- Refinadora Costarricense de Petroleo*
- Repsol YPF Cuba, S.A.*
- S.A. Rafinerie des Antilles*
- Staña Terminals N.V.*
- Statoil Venezuela AS*
- West Indies Oil Company, Ltd.*

June 11, 2009

Mr. John T. Husum
BP Shipping (USA), also known as BP Products North America Inc.

Re: Identification of CCA Resources for Vessel and Facility Response Plans (33 U.S.C. 2701) as required under the Oil Pollution act of 1990 ("OPA-90")

Dear Mr. Husum:

Your membership status in the Clean Caribbean Corporation, doing business as Clean Caribbean & Americas (CCA) (formerly Clean Caribbean Cooperative "CCC"), has been confirmed by the Board of Directors and the management of CCA as being current and in good standing for the 2009-2010 year. The original membership certificate issued on June 1, 2001 in your company's name is available for inspection at the offices of CCA in Ft. Lauderdale, Florida; however, a true copy of that certificate is attached to this letter for your records with your current status indicated on the face of the copy.

Your company on its own behalf, and on behalf of its affiliates, is hereby authorized to name CCA as a "**source of oil spill equipment and resources**," for use within the area of interest as currently established by the CCA Bylaws, in conjunction with the preparation and filing of your (or your affiliates') vessel and/or facility response plans required under OPA-90. This authorization to identify CCA in such plans as an equipment resource is limited to the 2009-2010 year, and will be renewed on an annual basis in February following the conclusion of the each year's annual meeting, provided your company maintains its current membership in CCA. Further, you are authorized to present this letter and the attached certificate to the U.S.C.G. officials to verify your good standing in CCA and your right to identify CCA as an equipment resource under OPA-90 for the 2009-2010 year.

It is expressly understood and agreed that CCA is not a response entity and that it may therefore only be referenced or identified as an equipment resource or material stockpile under any such plans. For further information regarding contractors who are available to your company for purposes of **response services**, please call the undersigned at the telephone indicated above.

Sincerely,

Paul A. Schuler
President

PAS/pks
attachment

Endorsed for distribution to the identified Member Company of the Clean Caribbean Corporation a/k/a Clean Caribbean & Americas (formerly known as the Clean Caribbean Cooperative), which is a current Member in good standing (2009-2010 year).

Pam Saidon
Corporate Secretary

- SEAL -

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GoM EMS Mgmt Representative
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Proof Of Contractual Agreements – CCA (Cont'd)

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Proof Of Contractual Agreements – MSRC

Figure D-2

**MARINE SPILL RESPONSE CORPORATION
SERVICE AGREEMENT**

EXECUTION INSTRUMENT

The **MSRC SERVICE AGREEMENT** attached hereto (together with this execution instrument, the "Agreement"), a standard form of agreement amended and restated as of September 27, 1996, is hereby entered into by and between

BP America, Inc.

[Name of COMPANY]

a Delaware Corporation

[Type of entity and place of organization]

with its principal offices located at 200 East Randolph Drive, Chicago, IL 60601

(the "COMPANY"), and **MARINE SPILL RESPONSE CORPORATION**, a nonprofit corporation organized under the laws of Tennessee ("MSRC"), and shall be identified as

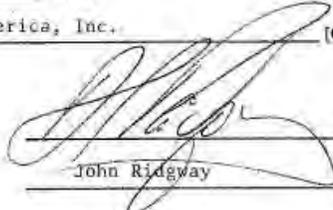
SERVICE AGREEMENT No. GMPA 130 [This is to be provided by MSRC.]

IN WITNESS WHEREOF, the parties hereto each have caused this Agreement to be duly executed and effective as of Sept. 26, 2000.

BP America, Inc.

[COMPANY]

By:



[signature]

John Ridgway

[print name]

Title:

Regional Manager

Address:

28100 Torch Parkway

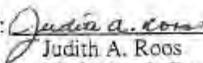
Warrenville, IL 60555

Telephone: 630 836-6869

Fax: 630 836-6987

MARINE SPILL RESPONSE CORPORATION:

By:



Judith A. Roos

Marketing & Customer Service Manager

455 Spring Park Place, Suite 200

Herndon, Virginia 20170

703/326-5617; Fax: 703/326-5660

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Proof Of Contractual Agreements – NRC

Figure D-3



**Amendment #3
To Agreement for the Provision of Response Resources between NRC and BP
Exploration dated May 14, 1998**

The undersigned hereby agree to amend that certain Agreement for the Provision of Response Resources dated May 14, 1999 between National Response Corporation (the "Provider") and BP Exploration (the "Client") as follows:

1. The Basic Compensation for the remainder of calendar year 2001 and through the end of March, 2002, as contained in schedule 3 as previously amended to add Amoco and VASTAR facilities will remain in effect. The Producers Price Index for Industrial Commodities of 6.403% will be added in accordance with that schedule.
2. The above paragraph is contingent on the use of the Provider's Gulf of Mexico Operations Center ("GoMOC") for training programs during 2001 that involve Emergency Response, On-Scene Major Emergency Management (MEM) and other Spill Management Training as scheduled in advance. The use of the GoMOC facility will be invoiced on a per use basis in accordance with the Time & Materials Schedule attached and labeled Attachment #1 to Amendment #3.
3. Prior to March 1, 2002, Provider and Client agree to evaluate the terms of this amendment and the contract with respect to the total retainer fees for the Provision of Response Resources to the Client's covered properties. This evaluation is to be directed toward maintenance of the fee structure in an amount consistent with the original terms of the contract as it relates to all covered properties acquired by BP during the contract period.
4. If the Provider and the Client are unable to agree on an adjustment to the Basic Compensation to compensate the Provider for the addition of the VASTAR facilities, the existing Basic Compensation will continue and the VASTAR facilities will be removed from Schedule 1, Description of Client Facilities. Client also agrees that the Client will not list the Provider in the Client's Oil Spill Contingency Plans for federal or state regulatory compliance of those facilities.
5. Nothing contained in this amendment will prejudice any other terms and conditions of the Agreement between the Provider and Client.

Provider and Client agree to this amendment as of this 22 day of February 2001.

By and between:

BP

National Response Corporation

M. Keith Manton
Name: M. Keith Manton
Title: Director Crisis Mgmt Houston Crisis Center

Arten Tidemann
Name: Arten Tidemann
Title: MOB CLIENT SERV.

Title of Document: Regional Oil Spill Response Plan
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Proof Of Contractual Agreements – ASI

Figure D-4



AERIAL DISPERSANT CONTRACT CERTIFICATION

Airborne Support Inc (ASI) certifies that British Petroleum (BP) has "ensured, by contract or other approved means, the availability of personnel and equipment necessary to respond, to the maximum extent practicable, to a discharge requiring an aerial dispersant response" for the below named facilities. Beginning August 1, 2009 BP agrees to a per barrel fee based on production. ASI agrees that the Client has the right to name ASI and its resources in accordance with 30 CFR 254.27.

Entered Facilities:

British Petroleum (BP)

Acknowledged by:

Date: Jan 1 – Dec 31, 2009

Airborne Support Inc.


Howard Barker
President

3628 Thunderbird Road
Houma-Terrebonne Airport
Houma, Louisiana 70363

P. O. Box 487
Bourg, Louisiana 70243-0487
Phone 885-851-6391
Fax 885-851-6393

Assisting Nature With Dispersants

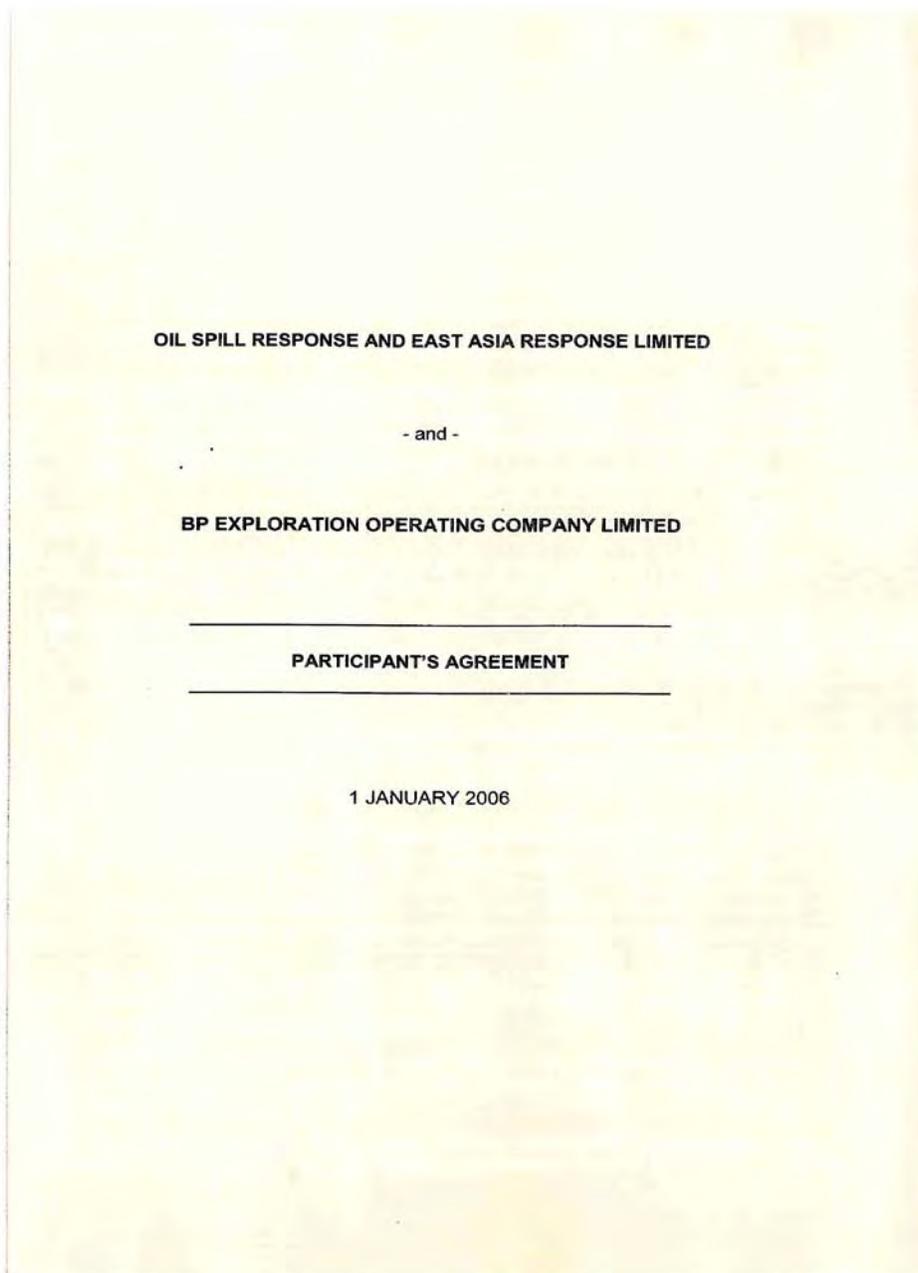
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Proof Of Contractual Agreements – OSRL / EARL

Figure D-5



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Proof Of Contractual Agreements – OSRL / EARL

Figure D-5

TAXATION

27. Any Value Added Tax or any other taxes chargeable on any payments made under this Agreement shall be added to the relevant sums due under this Agreement. If any deduction or withholding in respect of tax or otherwise is required by law to be made from any sums payable by the Participant to OSRL, the Participant shall be obliged to pay to OSRL such greater sum as will, after such deduction or withholding is made, leave OSRL with a payment for the same amount as it would have been entitled to receive in the absence of any requirement to make such reduction or withholding.

SEVERABILITY

28. The invalidity or unenforceability of any provisions of this Agreement shall not affect the validity or enforceability of the remainder.

EQUALITY OF CONTRACTUAL ARRANGEMENTS

29. OSRL hereby represents and undertakes that it has not entered into, and will not enter into, any agreement with a Co-Participant on terms and conditions more favourable to such Co-Participant than the terms and conditions applicable to the Participant under this Agreement.

AS WITNESS the hands of the duly authorised representatives of the parties hereto the day and year first above written.

SIGNED for and on behalf of
OIL SPILL RESPONSE AND EAST ASIA RESPONSE LIMITED by

Archibald F. Smith
Chief Executive & Director

SIGNED for and on behalf of
BP EXPLORATION OPERATING COMPANY LTD
by

Name: GORDON YOUNG BIRRELL

Position: DIRECTOR



Proof Of Contractual Agreements – The O’Brien’s Group, Inc.

Figure D-7

Master Consulting Services Contract

between

BP America Production Company

and

The O’Brien’s Group, Inc.

Emergency Preparedness and Response Management Project

Contract No. BPO-04-01476

Model Approved by FC: 9-4-01
File: C:\Documents And Settings\jlllerena\Local Settings\Temp\Services Contract Obrien Rev 1 Doc

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Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
GoM HSSE Document Mgmt Administrator
Issuing Dept.: GoM SPU
Control Tier: Tier 2 - GoM Region
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Proof Of Contractual Agreements – The O'Brien's Group (continued) Figure D-7a

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the day and year first above written in Section 5.01.

BP AMERICA PRODUCTION COMPANY
COMPANY

By: *[Signature]*
D.R. Kvor
Printed Name
Title: CONTRACT SPECIALIST

Approved by:	
Legal	
Supply Chain Management	

THE O'BRIEN'S GROUP, INC.
CONTRACTOR

By: *[Signature]*
Keith R. Forster
Printed Name
Title: CFO

**E. RESPONSE EQUIPMENT****a. Equipment Inventory**

The National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) are the primary equipment providers for BP in the Gulf of Mexico Region, and maintain a dedicated fleet of vessels and other equipment permanently located at designated ports. NRC & MSRC have the capability to plan the mobilization and rapid deployment of spill response resources on a 24 hour, 7 days a week basis.

For additional information about the response equipment available from NRC & MSRC, please visit their websites, listed below:

<http://www.nrcc.com/equipment.html>

<http://www.msrc.com/Equipment.htm>

b. Inspection and Maintenance Programs

As certified OSRO's, BP's primary equipment providers and their affiliates have established programs for inspecting, testing, and maintaining their oil spill response equipment. Additionally, the equipment hours are logged and routine maintenance activities such as oil changes continue to occur even when the equipment is in active use.

Detailed records of maintenance, testing and inspections on NRC equipment located in the Gulf of Mexico can be obtained through the NRC's office in Houston, TX at 281-899-4848. Records for MSRC's equipment may be obtained from the MSRC's office at 703-326-5600. These records are retained by the companies for an indefinite period of time.



APPENDIX F – SUPPORT SERVICES & SUPPLIES

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Air Emergency Care			
Contact	Phone	Alt.	Fax
Air Care – Toll Free	1-800-382-4006		
Air Care - West Jefferson Hospital	1-800-382-4006		
Acadian Ambulance Service	1-800-259-3333	1-866-389-2144	
Acadian Ambulance Service – ERA Helicopters	1-800-259-3333	337-291-3333	
Wildlife Rehabilitation			
Contact	Phone	Alt.	Fax
Wildlife Rehabilitation & Education	713-861-WILD	713-254-5724	
International Bird Rescue Research Center	707-207-0380	310-514-2573 907-230-2492	
Poison Control			
Contact	Phone	Alt.	Fax
Poison Control Center (Galveston)	1-800-764-7661	409-766-4403	409-772-3917
Fatalities (or 3 or more hospitalized)			
Contact	Phone	Alt.	Fax
OSHA	1-800-321-OSHA	281-286-0583	
Louisiana Coroners			
Cameron Parish Coroner	337-775-5102		
Iberia Parish Coroner	337-364-4507		
Jefferson Parish Coroner	504-365-9100		
LaFourche Parish Coroner	985-537-7055		
Plaquemines Parish Coroner	504-394-3330		
St. Bernard Parish Coroner	504-277-8941		
St. Mary Parish Coroner	985-384-9964		
Terrebonne Parish Coroner	985-873-6440		
Vermilion Parish Coroner	337-893-7950		
Texas Coroners			
Galveston County Coroner	409-935-9274		
Jefferson County Coroner	409-726-2571		

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 GoM EMS Mgmt Representative
 Scope: GoM EMS
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 Document Administrator: Kristy McNease,
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Hospitals			
Contact	Phone	Alt.	Fax
Ochsner Foundation Hospital New Orleans, LA	504-842-3900		
West Jefferson Marrero, LA	504-347-5511		
Teche Medical Center (formerly Lakewood Medical Ctr.) Morgan City, LA	985-384-2200		
Terrebone General Hospital Houma, LA	985-873-4141	1-800-256-8377	
Lafayette General Hospital Lafayette, LA	337-289-8088		
University of TX Medical Branch Galveston, TX	409-772-1011		
Abbeville General Hospital Abbeville, LA	337-893-5466	337-898-6500	
North Bay Hospital Aransas Pass, TX	361-758-8585		
Baptist Hospital of Southeast Texas Beaumont, TX	409-835-3781		
St. Elizabeth Hospital, Beaumont, TX	409-892-7171		
Christus Spohn Hospital Memorial, Corpus Christi, TX	361-902-4000		
Methodist Hospital (Burn Unit), Houston, TX	713-790-3311		
Brazosport Memorial Hospital, Lake Jackson, TX	979-297-4411		
Park Place Hospital, Port Arthur/Groves/Port Lavaca, TX	409-983-4951	409-985-0346	409-983-6152
St. Mary Hospital Port Arthur/Groves/Port Lavaca, TX	409-985-7431	409-989-5124	
Memorial Medical Center, Port Arthur/Groves/Port Lavaca, TX	361-552-6713		
Mainland Medical Center, Texas City, TX	409-938-5000	409-938-5112	
Citizens Memorial Hospital, Victoria, TX	361-573-9181		
Detar Hospital, Victoria, TX	361-545-7441	361-573-6100	

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Hospitals (Cont'd)			
Contact	Phone	Alt.	Fax
Victoria Regional Medical Center, Victoria, TX	361-573-6100		
Baton Rouge General Medical Center, Baton Rouge, LA	225-387-7000	225-763-4000	
Acadia-St. Landry Hospital, Church Pointe, LA	337-684-5435		337-684-5449
American Legion Hospital Crowley, LA	337-783-3222	337-788-4007	
Lady of the Sea Hospital, Galliano, LA	985-632-6401	985-632-8256	985-632-8263
Terrebonne General Medical Center, Houma, LA	985-873-4141	985-873-4150	
Christus St. Patrick Hospital, Lake Charles, LA	337-436-2511		337-491-7157
West Jefferson Medical Center, Marrero, LA	504-347-5511	504-349-1533	
Lakewood Hospital, Morgan City, LA	504-384-2000	504-384-2200	
Lady of the Lake Assumption, Napoleonville, LA	985-369-3600		
Dauterive Hospital, New Iberia, LA	337-365-7311		
Mercy Baptist Medical Center, New Orleans, LA	504-899-9311		
Memorial Medical Center, New Orleans, LA	504-483-5000		
Pendelton Memorial Methodist Hos. New Orleans, LA	504-244-5100		
Touro Infirmary New Orleans, LA	540-897-7011		
St. Claude Medical Center Hospital New Orleans, LA	504-948-8200		504-949-0298
Plaquemines Parish Comprehensive Care Center Port Sulphur, LA	985-564-3344	985-564-3338	
West Calcasieu-Cameron Hospital Sulphur, LA	337-527-7034		
Thibodeaux Regional Medical Cent. Thibodeaux, LA	985-477-5500	1-800-822-8442	985-449-4600

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Hospitals (Cont'd)			
University of S. AL Medical Center, Mobile, AL	251-471-7000	251-471-7300	251-470-1672
Helicopter / Air Services			
Contact	Phone	Alt.	Fax
Air Logistics	985-395-6191		
Petroleum Helicopters, Inc.	337-235-2452	1-800-235-2452	
ERA Helicopter Services	1-800-655-1414	337-478-6131	
Aerial Dispersant Spraying			
Contact	Phone	Alt.	Fax
Airborne Support, Inc.	985-851-6391		985-851-6393
Weather			
Contact	Phone	Alt.	Fax
Wilkins Weather Technologies	713-430-7100	1-800-503-5811	
National Weather Service Dickinson, TX	281-337-5074		
National Weather Service Lake Charles, LA	337-477-5285		
Waste Disposal			
Contact	Phone	Alt.	Fax
Newpark Environmental Services, Inc.	337-984-4445		
Omega Waste Management, Inc.	985-399-5100	1-888-419-5100	985-399-7963
U.S. Liquids	337-824-3194		337-824-3147
Technical Support			
Contact	Phone	Alt.	Fax
A. Biological and Chemical			
Acculab, Inc. Marrerro, LA	504-371-8557	1-800-291-1294	504-371-8560
Analysis Laboratories, Inc. Metairie, LA	504-889-0710		
Eurofins Central Analytical Laboratory (CAL) Metairie, LA	504-297-3400		504-297-3410
Coastal Environment Baton Rouge, LA	225-383-7451		225-383-7925
EDI Environmental Services Lafayette, LA	337-264-9810		337-264-9816

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
A. Biological and Chemical (Cont'd)			
Enviro-Lab, Inc. Houma, LA	985-876-5668		
Fugro Consultants (formerly Gulf Coast Testing) Corpus Chirsti, TX	361-882-5411		
Sherry Labs Lafayette, LA	337-235-0483	1-800-737-2378	337-233-6540
Jordan Labs Corpus Christi, TX	361-884-0371		361-884-9116
Louisiana Geological Survey Baton Rouge, LA	225-578-5320		225-578-3662
Severn Trent Laboratories Corpus Christi, TX	361-289-2673		
Southern Flow Companies, Inc. Belle Chasse, LA	504-394-9440		
Southern Petroleum Laboratory (SPL) Scott, LA	1-800-304-5227		
Texas A&M Dept. of Biology College Station, TX	979-845-7747		979-845-2891
B. Blowout and Firefighting			
Firefighting Boats			
Edison Chouest Offshore, Inc. Galliano, LA	985-601-4444		985-601-4237
Cudd Pressure Control Houston, TX	713-877-1118	1-800-899-1118	713-877-8961
Cudd Pressure Control Robstown, TX	361-387-8521	1-800-762-6557	
Danos & Curole Larose, LA	985-693-3313		985-693-4698
Global Industries Carlyss, LA	337-583-5000		337-583-5100
Power Offshore Services Harvey, LA	504-394-2900		
Tetra Marine, Inc. Belle Chasse, LA	504-394-3506		
Firefighting Experts			
Boots & Coots Houston, TX	281-931-8884	1-800-BLOWOUT	281-931-8302
Cudd Pressure Control Houston, TX	713-877-1118	1-800-899-1118	713-877-8961

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
B. Blowout and Firefighting (Cont'd)			
Firefighting Experts (Cont'd)			
Wild Well Control Houston, TX	281-784-4700		281-784-4750
Williams Fire & Hazard Control Houston, TX	281-999-0276 409-727-2347		
C. Catering Service			
Energy Catering Houma, LA	985-876-6255		
ESS Support Services Lafayette, LA	337-233-9153	1-877-387-3781	337-233-9156
Universal Sodexho Harahan, LA	504-733-5761	1-800-352-5808	
D. Communications			
Able Communications Pearland, TX	281-485-4228	713-749-0922	
ATN Signals, Inc. Alvin, TX	281-331-4444	1-800-284-1558	
Auto Com Lafayette, LA	337-232-9610	1-800-284-1840	
Caprock Services Lafayette, LA	337-988-7480	337-988-7489	
Coastel Communications Lafayette, LA	337-989-0444		
PetroCom Lafayette, LA	1-800-233-8372	504-734-6190	
Stratos Global Corp. Lafayette, LA	1-800-375-4000	337-761-2000	
Sola Lafayette, LA	337-232-7039	1-800-252-3086	
Stratos Oil & Gas Lafayette, LA	1-800-375-1562	337-234-3438	
Stratos Telecom, Inc. Morgan City, LA	985-384-3737		
Tomba Communications Metairie, LA	504-340-2448	504-349-4040	504-349-4083
Victoria Communications Services, Inc. Victoria, TX	361-575-7417		361-575-2369

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
E. Diving Companies			
Helix Energy Solutions (formerly Cal Dive International) Houston, TX	281-618-0400	713-361-2600	713-361-2690
Helix Energy Solutions New Iberia, LA	337-374-0001	1-877-361-2600	713-361-2690
Epic Companies Harvey, LA	504-340-5252		504-340-5416
Global Divers & Contractors, Inc. Houma, LA	337-583-5000	1-800-256-7587	
SubSea 7 Belle Chasse, LA	504-656-0147		
Oceaneering International, Inc. Morgan City, LA	985-395-5247		985-395-5443
Professional Divers of New Orleans Morgan City, LA	985-395-5247		985-395-5443
Russell-Veteto Engineering Corpus Christi, TX	361-887-8851		361-887-8855
Acergy Houston, TX	713-430-1100		713-461-0039
Underwater Services Corpus Christi, TX	800-372-6271	361-758-7487	361-758-7796
F. Drilling Companies			
Global Industries / Pelican Trans. Lafayette, LA	337-989-0000		
Noble Drilling Sugarland, TX	281-276-6100		281-491-2092
Rowan Companies, Inc. Houston, TX	713-621-7800		
Trans Ocean Houston, TX	713-232-7500	1-800-231-5754	281-925-6010
Diamond Offshore Drilling Inc., Houston, TX	281-492-5300	1-800-848-1980	281-492-5316
Marine Drilling Company, Houston, TX	713-789-1400		713-789-1430
G. Marine Contractors (Construction)			
Brown & Root Houston, TX	713-676-3011		
Crain Bros. Inc. Grand Chenier, LA	337-538-2411		337-538-2700

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
G. Marine Contractors (Construction) (Cont'd)			
Diamond Services Morgan City, LA	985-631-2187	1-800-879-1162	985-631-2442
Garrett Construction Co. Ingleside, TX	361-643-7575		361-776-7575
Global Industries Houma, LA	985-876-7592	1-800-256-7587	
Halliburton Houston, TX	281-575-3000		
J. Ray McDermott Engineering Houston, TX	281-870-5000	985-631-2561	
King Fisher Marine Service Port Lavaca, TX	361-552-6751		361-552-1200
Raymond Dugat Co. Portland, TX	361-776-7300		361-776-3990
H. Oil Spill Equipment / Consultants / Contractors			
American Pollution Control New Iberia, LA	337-365-7847	1-800-482-6765	337-365-8890
ASCO L&L Environmental Services, Lake Charles, LA	1-800-207-SPIL (7745)	337-436-3674	
Boots & Coots Houston, TX	281-931-8884	1-800-BLOWOUT	281-931-8302
Clean Gulf Associates New Orleans, LA	1-888-242-2007	504-299-3035	504-799-3036
Du-Tex, Inc. Corpus Christi, TX	361-887-9807	1-888-887-9807	361-887-0812
Environmental Equipment, Inc. Houma, LA	985-868-3100		
The O'Brien's Group Slidell, LA	985-781-0804		985-781-0580
ES&H Environmental Consulting, Svc. Houma, LA	985-851-5350	887-437-2634	985-853-1978
Garner Environmental Services Deer Park, TX	281-930-1200	1-800-424-1716	281-478-0296

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
H. Oil Spill Equipment / Consultants / Contractors (Cont'd)			
Grand Isle Shipyards (GIS) Grand Isle, LA	985-787-2801		985-787-2141
Industrial Cleanup Incorporated Garyville, LA	985-535-3174	1-800-436-0883	
Miller Environmental Corpus Christi, TX	361-289-9800	1-800-929-7227	361-289-6363
MSRC / CGA Lake Charles, LA	1-888-242-2007		
National Response Corporation	1-800-899-4672	631-224-9141	631-224-9082
Oil Mop Oil Spill Control Corpus Christi, TX	361-882-2656	1-800-645-6671	
Phillips Services (PSC) Morgan City, LA	985-575-3434	1-877-772-6693	
The Response Group, Inc.	281-880-5000	1-800-651-3942	281-880-5005
United States Environmental Services, L.L.C.	1-888-279-9930	504-279-9930	504-566-8309
I. Photography			
Jim Hebert Photography Raceland, LA	985-537-5305		
Petris Technology Houston, TX	713-956-2165		
J. Portable Tanks			
Baker Tanks Geismar, LA	225-677-8763	225-744-4774	225-673-8001
Diamond Tank Rentals Intracoastal, LA	337-893-9317	1-800-960-0065	337-893-7882
Dragon Products, Ltd. Beaumont, TX	409-833-2665	1-800-231-8198	409-833-3170
Gulfstream Houma, LA	985-868-0303	1-800-821-8454	985-872-3423
Magnum Mud Equipment Houma, LA	985-872-1755	1-800-200-8265	985-872-1786
Neff Rental Company Gaismer, LA	225-647-6333	1-800-709-6333	
Houma, LA	985-868-9138		
Lafayette, LA	337-237-6318		
Lake Charles, LA	337-494-0673		
New Orleans, LA	504-340-0061		
Morgan City, LA	985-384-7571		

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
J. Portable Tanks (Cont'd)			
New Iberia, LA	337-364-3631		
Venice, LA	504-466-1200		
K. Public Relations Consultants			
Brown, Nelson & Associates, Incorporated Houston, TX	713-784-6200		832-201-0858
Media Consultants, Inc. Sugarland, TX	281-980-1400		
L. Sampling Services			
ARS Port Allen, LA	800-401-4277	225-381-2991	225-381-2996
B – Environmental Victoria, TX	361-572-8224		
M. Spill Tracking / Trajectories			
The Response Group, Inc. Houston, TX	281-880-5000	1-800-651-3942	281-880-5005
NOAA Seattle, WA	206-526-4548	504-589-6271	206-526-6329
N. Surveyors			
C.H. Fenstermaker & Ass. Lafayette, LA	337-237-2200		337-232-3299
John E. Chance & Ass. Lafayette, LA	337-237-1300		
O. Transportation - Air			
Airplanes / Airports			
Galveston Municipal Airport Galveston, TX	409-741-4609		409-741-4604
Hammond Municipal Airport Hammond, LA	985-227-5667		985-227-5669
Hammond Air Service Houma, LA	985-876-0584	1-877-872-1423	
Houma / Terrebonne Airport Commission Houma, LA	985-872-4646		985-876-4115
New Orleans Downtown Heliport New Orleans, LA	504-586-0055		504-566-1632
New Orleans International Airport New Orleans, LA	504-464-0831		504-465-1264
Paul Fournet Air Service Lafayette, LA	337-237-0520		337-237-0520

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Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
O. Transportation – Air (Cont'd)			
Airplanes / Airports (Cont'd)			
Southern Sea Plane, Inc. New Orleans, LA	504-394-5633		504-394-8458
Airborne Support, Inc. Houma, LA	985-851-6391		985-851-6393
Air Response (C-54 Aircraft) Mesa, AZ	480-844-0800		
Biegert Aviation, Inc. Chandler, AZ	520-796-2400		
Lynden Air Cargo, LLC Anchorage, AK	888-243-7248	1-800-770-6150	907-257-5124
Serus- Alaska Pipeline Valdez, AK	907-834-6902		
US Air Force Reserve Vienna, OH	330-856-3171		
US Coast Guard Air Station Clearwater, Clearwater, FL	727-535-1437		
Fixed Wing Aircraft			
Hammonds Air Service Houma, LA	985-876-0584	1-877-872-1423	
Petroleum Helicopters, Inc. Morgan City, LA	337-235-2452	1-800-235-2452	337-232-6537
Helicopters			
Air Logistics Galveston, TX	409-740-3546		409-740-1676
Houma, LA	985-851-6232		985-868-1091
Abbeville, LA	337-893-8631		337-893-0392
New Iberia, LA	337-365-6771	1-800-365-6771	337-364-8222
Patterson, LA	985-395-6191		985-395-3745
Rock Port, TX	361-727-1116		361-727-1662
Sabine, TX	409-971-2805		409-971-2548
Venice, LA	985-534-7481		985-534-7790
ERA Cameron, LA	337-775-5574		337-775-7421



Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
O. Transportation – Air (Cont'd)			
Helicopters (Cont'd)			
ERA Golden Meadow, LA	985-396-2285		985-396-2758
Houma, LA	985-868-0817		985-868-0878
Lake Charles, LA	337-478-6131	1-800-655-1414	337-474-3918
Evergreen Helicopters Galveston, TX	409-740-7732		
Port O' Conner, TX	361-983-4111		
Venice, LA	985-534-2230		
Houston Helicopters, Inc. Pearland, TX	281-485-1777		281-485-3701
Industrial Helicopters Corpus Christi, TX	337-233-3356		
Panther Helicopters Belle Chasse, LA	504-394-5803		504-394-5869
Petroleum Helicopters, Inc.			
Fourchon, LA	985-396-2350		
Galveston, TX	409-744-6419		
Houma, LA	985-868-1705		
Lafayette, LA	337-235-2452	1-800-235-2452	337-232-6537
Morgan City, LA	985-631-2131		
New Orleans, LA	504-733-7673		
Port O' Connor, TX	361-983-2942	361-729-1559	
Sabine Pass, TX	409-971-2455		
Buras, LA	985-534-2631		
P. Transportation – Land - Trucking			
Bus Lines			
Howard Coaches, Inc. New Orleans, LA	504-944-0253		
Kerrville Bus Coach, USA Lafayette, LA	337-234-1392		
Oilfield Equipment Haulers			
Ace Transportation, Inc.	337-837-4567		
Harvey, LA	1-800-654-4236	504-362-9181	
Houma, LA	1-800-654-4235	985-879-2482	
Victoria, TX	1-800-426-6401	361-572-8646	
Acme Truckline Patterson, LA	985-395-9283		

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P. Transportation – Land (Cont'd)			
Oilfield Equipment Haulers (Cont'd)			
Acme Truckline Beaumont, TX	1-800-456-2263	409-842-0509	
Belle Chasse, LA	1-800-825-4789	504-367-3200	
Cameron, LA	1-800-775-2263	377-775-7102	337-775-7103
Groves, TX	409-962-8591		409-963-1880
Houma, LA	1-800-274-2263	985-868-7600	985-868-7605
Houston, TX	713-674-7070	1-800-777-4786	713-674-0718
Lafayette, LA	1-888-844-2263	337-593-1210	337-289-5264
Lake Charles, LA	337-439-9830	1-800-727-2263	337-439-5853
Morgan City, LA	1-800-365-2263	985-395-9283	985-395-9773
Future Freightways Houston, TX	713-780-1180		
King Trucking, Inc. Amelia, LA	985-631-0525		985-631-3330
Whitney / Lonestar Transportation Corpus Christi, TX	361-241-0633	1-800-242-1085	
Packard Truck Lines, Inc. Belle Chasse, LA	504-392-9994	504-393-9955	504-392-5311
QV Services, Inc. Hallettsville, TX	361-578-9975		
QV Services, Inc. Victoria, TX	361-578-9975		
Ray Bellow and Sons, Inc. Houston, TX	713-991-0390	1-800-231-4284	713-991-0407
Service Offshore, Inc. Abbeville, LA	337-893-6843	337-235-6496	
Specialized Waste Systems, Inc. Houston, TX	713-452-1735		
Tetra Technologies, Inc. The Woodlands, TX	281-367-1983		281-364-4398
Texas Hot Shot Houston, TX	281-227-1233	281-227-2777	
Kilgore, TX	903-984-5022		
Venture Transport, Inc. Lafayette, LA	337-291-6700		
Houston, TX	713-678-7700		
Walker Trucking Houma, LA	713-688-8400	1-800-880-5669	713-688-8484

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Contact	Phone	Alt.	Fax
Q. Transportation - Marine			
Vessels			
Adams Towing Morgan City, LA	985-384-1752		
AMC Golden Meadow, LA	985-475-5077		
Aries Marine Corporation Lafayette, LA	337-232-0335	337-856-9015	337-856-7380
Atlas Boats, Inc. Belle Chasse, LA	504-391-0192		
B&C Boat Rentals Golden Meadow, LA	985-475-5543		
B&J Martin, Inc. Cutoff, LA	985-632-2727		
Barnett Marine, Inc. Belle Chasse, LA	504-394-6055		
Broussard Brothers, Inc. Abbeville, LA	337-893-5303	1-800-299-5303	337-893-7148
Brown Water Marine Services, Inc. Rockport, TX	361-729-3721		361-729-0332
Bud's Boat Rentals Venice, LA	985-534-2394		985-534-2877
C&E Boat Rental Cutoff, LA	985-632-6166		985-632-4109
Abdon Callais Offshore, Inc. Golden Meadow, LA	985-475-7111	1-800-632-3411	
Harvey Canal Bridge Harvey, LA	985-532-2865		
Cameron Offshore Boats, Inc. Cameron, LA	337-775-5505		
Candy Fleet Morgan City, LA	985-384-5835		
Cenac Towing Co., Inc. Houma, LA	985-872-2413		
Central Boat Rental, Inc. Berwick, LA	985-384-8200		
Crew Boats, Inc. Chalmette, LA	504-277-8201		
Edison Chouest Offshore Galliano, LA	985-601-4444		

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Q. Transportation – Marine (Cont'd)			
Vessels (Cont'd)			
Ensco Marine Company Broussard, LA	337-837-8500	1-800-423-8006	
Harvey Gulf International Harvey, LA	504-348-2466		504-348-8060
Kilgore Offshore Spring, TX	281-364-6942		
Kim Susan, Inc. Larose, LA	985-693-7601	985-693-762	
Hornbeck Offshore (formerly Leevac Marine, Inc.) Mandeville, LA	985-727-6945	985-727-2000	985-727-2006
L&M Bo Truck Rental Golden Meadow, LA	985-475-5733		985-475-5669
Louisiana International Marine Gretna, LA	504-392-8670	1-800-286-2376	504-391-0389
Lytal Marine Lockport, LA	985-532-5561	1-800-245-9825	985-532-2028
Marine Transportation Service, Inc. Panama City, FL	850-769-1459	1-800-874-2839	
Masco Operators, Inc. Freeport, TX	979-233-4827		979-233-4422
McDonough Marine Service New Orleans, LA	504-780-8100	1-800-227-4348	504-780-8200
Third Coast Towing (formerly Mid Coast Barge Corp.) Corpus Christi, TX	361-881-9422		
Montco, Inc. Golden Meadow, LA	985-325-7157	1-877-6MONTCO	985-325-6795
Moran Towing of Texas Port Arthur, TX	409-962-0591		409-962-1287
Otto Candies, Inc. Des Allemands, LA	504-469-7700		504-469-7740
Raymond Dugat Company Portland, TX	361-776-7300		361-776-3990
Ryan Marine Service Galveston, TX	409-763-1269		409-741-3920
Seacor Marine, Inc Houston, TX	281-899-4800		281-899-4801
Houma, LA	985-876-5400		985-876-5444

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Q. Transportation – Marine (Cont'd)			
Vessels (Cont'd)			
Sea Mar, Inc. New Iberia, LA	337-365-6000		
Shell Landing, Inc. Intracoastal City, LA	337-893-1211		
Suard Barge Service, Inc. Lockport, LA	985-532-5300		
Texas Crew Boats Freeport, TX	979-233-8222		
Delta Towing Houma, LA	985-851-0566		
Tidewater Marine Amelia, LA	985-631-5820		
Houston, TX	713-470-5300		
New Orleans, LA	504-568-1010	1-800-678-8433	
Trico Marine Services, Inc. Houma, LA	985-851-3833	713-780-9926	
Y&S Boat Rental Buras, LA	985-657-7546		
Vessel Brokers			
Otto Candies, Inc.	504-469-7700		504-469-7740
Rault Resources, Inc. Gretna, LA	504-581-1314		
Southern States Offshore Houston, TX	281-209-2871		281-209-2879
R. Trailers			
Clegg Industries, Inc. Victoria, TX	361-578-0291		361-578-5908
H&B Rentals Liverpool, TX	281-393-1210	1-800-237-6062	281-581-9034
Osers, Inc. Morgan City, LA	985-384-6980	1-800-391-9644	985-384-6985
Proco, Inc. Kingsville, TX	361-516-1112		361-516-1105
Scope International Village Mills, TX	409-834-2289		
Waste Management of Acadiana Houston, TX	713-512-6200		
Lafayette, LA	337-261-0430	1-800-284-2451	
Lake Charles, LA	337-436-7229	1-800-423-1250	

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R. Trailers (Cont'd)			
Williams Scotsman Houston, TX	713-466-4353	1-800-782-1500	
S. Vacuum Services			
APT Corpus Christi, TX	361-852-2266		
Brine Service Company Corpus Christi, TX	361-289-0063		
H&K Vacuum Trucking Company Sinton, TX	361-364-4311		
KoVac Systems, Inc. Lafayette, LA	337-886-6076		
Max-Vac Corpus Christi, Inc.	361-887-2182	361-887-2181	
Mo-Vac Alice, TX	956-631-9121	361-883-0296	
Onyx Industrial Services Corpus Christi, TX	361-299-0006		
Phillips Services Corpus Christi, TX	985-575-3434	1-877-772-6693	
Southwest Land & Marine, Inc. Corpus Christi, TX	361-855-4552	361-855-4551	
Vanguard Vacuum Trucks, Inc.	985-851-0998	1-800-874-9269	985-851-6998
T. Well Control Supplies			
Baker Oil Tools New Iberia, LA	337-369-3731		
Frank's Casing Crew Lafayette, LA	337-233-0303	1-800-833-7265	337-572-2462
Gulf Coast Rental Tools Houston, TX	713-622-1686		
Gulf Coast Rental Tools Lafayette, LA	337-234-4571		
Kim Susan Incorporated Larose, LA	985-693-7601	985-693-7602	
Patterson Rental Tools Alice, TX	361-668-8231		
Houma, LA	985-879-1593		
Houston, TX	713-751-0066		
Broussard, LA	337-359-9900		
Enterra Oilfield Rental Corpus Christi, TX	361-289-1551		

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Contact	Phone	Alt.	Fax
T. Well Control Supplies (Cont'd)			
EVI Weatherford Broussard, LA	337-837-1877	1-800-921-5547	337-839-8177
U. Wildlife and Marine Life			
Specialists – National			
IBRRC California	707-207-0380	310-514-2573	707-207-0395
Tri-State Bird Rescue & Research, Inc. Eilleen Gilbert – Newark, DE Dr. Heidi Stout	302-737-9543		
University of Miami – School of Marine Sciences Dr. Peter Lutz – Miami, FL	305-361-4080		
WR&E – Wildlife Rehab & Education Sharon Schmalz – League City, TX Michelle Johnson	281-332-8319	281-731-8826	
Specialists – Texas			
Aransas Wildlife Refuge Austwell, TX	361-286-3533	361-286-3559	
Houston Audubon Society Houston, TX	713-932-1639	713-932-1392	
Institute of Marine Life Sciences Dr. Andrew M. Landrie	409-740-4413		
Marine Mammal Research Program Dr. Bernard Wursig Galveston, TX	409-740-4718		
National Marine Fisheries Galveston, TX	409-766-3500	281-379-7961	
W R & E League City, TX	512-389-4848		
Texas Parks & Wildlife Law Enforcement – Austin, TX	512-389-4848		



Technical Support (Cont'd)			
Contact	Phone	Alt.	Fax
Specialists – Louisiana			
Louisiana Department of Wildlife & Fisheries – Baton Rouge, LA	225-765-2800	1-800-442-2511	
US Dept. of Agriculture Port Allen, LA	225-389-0229	337-783-0182	
US Fish & Wildlife			
Field Offices, Ecological Services Houston, TX	281-286-8282		281-488-5882
Brian Cain – Environmental Contaminant Specialist	281-480-7418		
Corpus Christi State University	361-994-9005		
Tom Shultz, Environmental Contaminant Specialist	361-994-9005		
Claire Lee , Assistant	361-994-9005		
Field Offices / Ecological Services Lafayette, Louisiana	337-291-3100	227-280-1157	
Panhandle of Florida to Swanee River Drainage – Panama City, FL	850-769-0552		
V. Hotels (National)			
Best Western	1-800-780-7234		
Courtyard (Marriott)	1-888-236-2427		
Days Inn	1-800-329-7466		
Embassy Suites	1-800-362-2779		
Hilton Hotels	1-800-445-8667		
Holiday Inn	1-888-465-4329		
Hyatt Hotels	1-888-591-1234		
Marriott Hotels	1-888-272-2427		
Ramada Inn	1-800-272-6232		
Sheraton Hotels	1-800-325-3535		
Holiday Inn Corpus Christi	361-883-5731		
Galveston Island Hilton Galveston, TX	409-744-5000		
Holiday Inn Galveston, TX	409-740-3581		
Hotel Galvez Galveston, TX	409-765-7721		
San Luis Galveston, TX	409-744-1500		

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V. Hotels (National) (Cont'd)			
Hotels - Texas			
Holiday Inn Houston, TX	281-821-2570		
Marriott Hotel Houston, TX	713-943-7979		
Bay Tree Condominiums Port Aransas, TX	361-749-5859		
Casa Del Cortes Port Aransas, TX	361-749-6942	1-800-408-9952	
Cline's Landing Port Aransas, TX	361-749-5274	1-877-238-8444	
Mustang Towers Condos Port Aransas, TX	361-749-6212	1-800-343-2772	
Seaside Motel & Condos Port Aransas, TX	361-749-4105	1-800-765-3103	
Calm Harbor Real Estate Rockport, TX	361-729-1367	1-800-585-CALM	
Hunt's Castle Rockport, TX	361-729-5002	1-888-345-4868	
Key Allegro Rentals Rockport, TX	361-729-2772	1-800-385-1597	
Kontiki Beach Resort & Hotel Rockport, TX	361-729-2318	1-800-388-0649	
Hotels - Louisiana			
Sunbelt Lodge Abbeville, LA	337-898-1453	1-866-299-1480	337-898-1463
Cameron Hotel Cameron, LA	337-775-5442		
Grand Isle Suites Grand Isle, LA	985-787-3515		
Sand Dollar Motel Grand Isle, LA	985-787-2893		985-787-3800
Sun and Sand Cabins Grand Isle, LA	985-787-2456		
Holiday Inn Holidome Houma, LA	985-868-5851		
Houma's Red Carpet Inn Houma, LA	985-876-4160		

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V. Hotels (National) (Cont'd)			
Hotels – Louisiana (Cont'd)			
Plantation Inn Houma, LA	985-879-4871	1-800-373-0072	985-873-8970
Ramada Inn Houma, LA	985-879-4871		
Best Western Hotel Acadiana Lafayette, LA	337-233-8120	1-800-826-8386	
Holiday Inn Lafayette, LA	337-233-6815	1-800-942-4868	
Lafayette Hilton & Towers Lafayette, LA	337-235-6111		
LaQuinta Inn Lafayette, LA	337-291-1088		
Quality Inn Lafayette, LA	337-234-0383		
Ramada Executive Plaza Lafayette, LA	337-235-0858		
LaQuinta Metairie, LA	504-835-8511		
Holiday Inn Morgan City, LA	985-385-2200		
Morgan City Motel Morgan City, LA	985-384-6640		
Plantation Inn Morgan City, LA	985-395-4511		
Days Inn Morgan City, LA	985-384-5750		
Garden District Hotel New Orleans, LA	504-566-1200		
Hilton Hotel New Orleans, LA	504-561-0500		
Marriott Hotel New Orleans, LA	504-581-1000		
Royal Sonesta New Orleans, LA	504-586-0300		
Sheraton Hotel New Orleans, LA	504-595-5514		
Ramada Inn Thibodeaux, LA	985-446-0561		

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V. Hotels (National) (Cont'd)			
Hotels – Louisiana (Cont'd)			
Howard Johnson Lodge Thibodeaux, LA	985-447-9071		
Cypress Cove Lodge Venice, LA	985-534-7777	1-888-534-8777	
Empire Inn Venice, LA	985-657-9853		
Lighthouse Lodge Venice, LA	985-534-2522		
Media - TV			
KPRC – Channel 2 Houston, TX	713-222-2222		
KHOU – Channel 11 Houston, TX	713-526-1111		
KTRK – Channel 13 Houston, TX	713-666-0713		
KFDM – Channel 6 Beaumont, TX	409-892-6622		409-892-6665
KBMT – Channel 12 Beaumont, TX	409-833-7512		409-981-1563
KBTV – Channel 4 Port Arthur, TX	409-985-5557	409-840-4444	409-899-4639
KPLC – Channel 7 Lake Charles, LA	337-439-9071		337-437-7600
KLFY – Channel 10 Lafayette, LA	337-981-4823	337-981-4844	337-984-8323
WAFB – Channel 9 Baton Rouge, LA	225-383-9999		
WBRZ – Channel 2 Baton Rouge, LA	225-387-2222		
WBTR – Channel 19 Baton Rouge, LA	225-201-1919		
WDSU – Channel 6 New Orleans, LA	504-679-0600		
WWL - Channel 4 New Orleans, LA	504-529-4444	504-529-6298	
WVUE – Channel 8 New Orleans, LA	504-486-6161		

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Media – Radio			
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KTRH – AM – Houston, TX	713-212-8000	281-214-0440	713-212-8957
KPRC – AM – Houston, TX	281-588-4800		
KLVI – AM – Beaumont, TX	409-896-5555		
KZZB – AM – Beaumont, TX	409-833-0990		
KALO – AM – Beaumont, TX	409-963-1276		
KAYC – AM – Beaumont, TX	409-727-2774		
KQHN – AM – Beaumont, TX	409-727-2774		
KQXY – FM – Beaumont, TX	409-833-9421		409-833-9296
KYKR – FM – Beaumont, TX	409-896-5555	1-800-329-9595	409-896-5500
KAYD – FM – Beaumont, TX	409-212-1017	409-729-1017	409-833-9296
KKMY – FM – Beaumont, TX	409-896-5555	1-800-329-9595	409-896-5500
KIOC – FM – Beaumont, TX	409-896-5555	1-800-329-9595	1-800-329-9595
KEZM – AM – Lake Charles, LA	337-527-3611		
KYKZ – FM – Lake Charles, LA	337-439-3300	1-800-439-6979	337-433-7701
WYNK – FM – Baton Rouge, LA	225-231-1860		
WXCT – FM – Baton Rouge, LA	225-388-9898		
WJFM – FM – Baton Rouge, LA	225-768-3227	225-768-3202	
KKAY – FM – Donaldsville, LA	225-473-6397		
Media – Newspapers			
Galveston Daily News Galveston, TX	409-744-3611		
Houston Chronicle Houston, TX	713-220-7491		
Beaumont Enterprise Journal Beaumont, TX	409-833-3311		
Port Arthur News Port Arthur, TX	409-721-2400		
Orange Leader Orange, TX	409-883-3571		
Times Picayune New Orleans, LA	504-826-3070		
The Advocate Baton Rouge, LA	225-383-1111		
American Press Lake Charles, LA	337-494-4040		
Southwest Builder / News Sulphur, LA	337-527-7075		
Plaquemine Post Plaquemines, LA	225-687-3288		

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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APPENDIX G – NOTIFICATION AND REPORT FORMS

This Appendix contains reporting forms for internal communication and regulatory compliance.

a. Internal Spill Reporting Form

[BP Spill Reporting Form](#)

b. External Spill Reporting Forms

[MMS Spill Response Completion Report](#)

[TGLO Oil Spill Response Completion Report](#)

[Louisiana Spill Reporting Form](#)

[Mississippi Spill Reporting Form](#)

[MMS Initial Oral Report Of Pipeline Break Or Leak](#)

[MMS Serious Injury Report](#)

[CG-2692 Report Of Marine Accident, Injury Or Death](#)

[CG-2692B Report Of Required Chemical Drug and Alcohol Testing Following a Serious Marine Incident](#)



BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix G
Notification and
Report Forms

BP Spill Reporting Form

**PLEASE FILL OUT HIGHLIGHTED FIELDS IMMEDIATELY AND REPORT TO THE ENVIRONMENTAL
PAGER (713)-612-4106**

Date/Time of Spill: _____ **Date of Report:** _____
Date/Time Spill was Discovered: _____ **Time of Report:** _____
Sighted By: _____ **Reported By:** _____
Facility (Lat/Long) Location: _____ **County/Parish:** _____ **State:** _____
Area/Block: _____ **OCS-G** _____ **Well #:** _____
Description of incident: _____
Spill Source: _____
Type of material released: _____
Quantity Discharged: _____ **Discharge Rate:** _____
Description of spill: (i.e., slick – colored film or layer of oil, sheen – thin clear film or thin layer of oil; rainbow – reflect on type film, size):

Length of Time Discharge Occurred: _____ **Quantity:** _____ **Recovered:** _____
Weather: Clear _____ Cloudy _____ Fog _____ Rain _____
Wind: Velocity _____ Dir. (from) _____ **Current Dir. (to)** _____ **Velocity** _____
Visibility: _____ **Ceiling:** _____
Temperature: _____ **Wave: Height** _____
Did spill affect any water? _____ **If yes, describe and name:** _____
Size of Oil: Width _____ **Length** _____
Percent Coverage: _____
Approximate Location of Oil: _____ **Long.** _____
Lat. _____
Direction of Movement: _____
Potential Hazard to Life and Property: _____
Description of effects of spill (on fish, wildlife, vegetation, etc.): _____
Damage: _____ **Injuries:** _____
Corrective Action Taken: _____
Cause: _____
Explain containment and cleanup measures taken (including equipment and material used): _____
How successful were these efforts (amount recovered): _____
Did representative of outside agency visit the scene? _____
If so, which agencies? _____
Additional remarks and recommendations (include any pertinent comments on public relations observation):

Supervisor In Charge

Title of Document: Regional Oil Spill Response Plan
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BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix G
Notification and
Report Forms

Report To Regulatory Agencies

<u>Agency</u>	<u>Report By:</u>	<u>Report To:</u>	<u>Time and Date</u>
MMS	_____	_____	_____
NRC	_____	_____	_____
EPA	_____	_____	_____
USCG	_____	_____	_____
LSP	_____	_____	_____
LOSCO	_____	_____	_____
TGLO	_____	_____	_____
TRRC	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NRC Phone # - 1-800-424-8802

NRC Case Number (assigned by the NRC): _____

NOTES:

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 GoM EMS Mgmt Representative
 Scope: GoM EMS
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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MMS Oil Spill Report Form

1. Name of Company _____
2. Telephone Number _____
3. Person Reporting Spill _____
 - a. Telephone No. _____
4. Name of Person-In-Charge _____
 - a. Telephone No. _____
5. Exact Location of Spill _____
 - a. Time _____
6. Estimated Quantity and Type _____
7. Movement and Size of Slick _____
8. Direction and Speed of Wind and Wave Height _____
9. List of Agencies Notified _____

10. List of:
 - a. River Banks _____
 - b. Shores _____
 - c. Beaches _____
 - d. Other Areas _____
11. Action Taken to Control and Clean Up _____

12. Injuries, If Any _____

13. Possible Hazards to Human Health or Environment _____



TGLO Oil Spill Response Completion Report

This is a sample report generated by TGLO operators when a spill is reported to the TGLO hotline. This form is not for the Responsible Party to fill out; the TGLO operators as the following questions:

Report Number: _____

Is this a Drill? _____ Report Taken By: _____ Date: _____ Time: _____

Agency(s) to be Notified: _____

Reporting Party Information:

Reported By's Name: _____ Reporting Party Affiliation: _____

Incident Date: _____
Incident Time: _____
Contact Number: _____
Other Phone Numbers: _____

Material(s) Discharged or Spilled:

Material(s)	CAS/UN Number	Amt. Spilled	Unit

Discharge or Spill Location:

County: _____

Origin: _____

Non-Coastal:

Land Release Only?
Threatens or Entered Water

Receiving Water:

Amount In Water:

Units

Coastal:

Threatens or Entered Water

Air Release

Incident Location / Driving Directions:

Description of Incident, Cause, Impact, and Response:

Others Reporting Party Notified:

Agency	Who	Where	Date	Time
NRC				

*Party Responsible for Discharge/Spill:

Firm or Municipality:

Street or P.O. Box:

City:

Contact Person:

State:

Zip Code:

Phone:

Comments:

Emergency Hotline Phone Notifications:

Agency	Who	Where	Date	Time
GLO				



Louisiana Spill Reporting Form

Date Reported _____

Time _____

Company Reporting Spill _____

Person Reporting Spill _____

Telephone No. _____

Location of Spill _____

Type of Material _____ Amount _____ BBLs _____

Source of Spill _____

Action Taken to Control and Clean Up _____

Estimate of spilled material recovered _____ BBLs

Name of individual with state agency or

Answering service taking spill report _____

Date _____

File Report to:

Department of Natural Resources

Office of Conservation

P.O. Box 44275

Baton Rouge, Louisiana 70804

Louisiana Department of Environmental Quality

P.O. Box 82215

Baton Rouge, Louisiana 70884



Mississippi Spill Reporting Form

Date Reported _____ Time _____

Person Reporting _____

Address: _____

City

Street or P.O. Box

Phone

Spill Location _____

Company Name and Address _____

Material Spilled _____

Estimated Quantity _____

Source of Spill _____

Cause of Spill _____

Action Taken: Containment, Cleanup: _____

Agencies Reported to: _____

Report Taken by: _____

Name

Title

Location: NRO CRO SRO ADMINISTRATIVE OFFICE

Action Taken:



MMS Initial Oral Report Of Pipeline Break Or Leak

Report Received By

Name: _____

Date: _____

Report Given By

Name: _____

Company: _____

Phone No.: _____

Time and Date of Break or Leak Discovery: _____

Break or Leak Location: _____

Pipeline: Size: _____ Product: _____

From: _____

To: _____

Wind Velocity: _____ Sea Conditions: _____

How far from shore: _____

Extent of Slick: _____

Volume of Spill: _____

Normal Daily Production: _____ BOPD _____ MCFPD _____

Production to Pipeline Shut In? _____ If So How? (Auto/Manual)

Operating Pressure Range? _____

Low Pressure Sensor Setting? _____

Approximate Date of Construction: _____

Remind Operator of NTL 80-9 (Pipeline Damage Reporting) _____

Cause: _____

Remarks: _____

Was Washington Notified By Phone? _____

When? _____ By Whom? _____

To Whom? _____

NOTIFY DATE OF PIPELINE REPAIR

Report Received By

Name: _____

Date: _____

Report Given By

Name: _____

Date: _____

Inspection of Installation

Date: _____

Name of Inspector: _____

Remarks _____

Segment No. DOI or DOT



MMS Serious Injury Report

MMS Office to be Forwarded: _____ Date of Report: _____

Name of Injured: _____ Date of Injury: _____

Injured Person's Address _____ Time of Injury: _____

Social Security No.: _____ Place of Injury: _____

Location (Area & Block): _____ OCS No.: _____

Employer of Injured: _____

Description of Injury: _____

Nature of Injury: _____ Type of Operations: _____

Specific Tasks: _____ Weather: _____

Witnesses: _____

What Would Prevent Similar Injury: _____

Hospital/Doctor Where Treatment Received: _____

Length of Disability: _____ Comments: _____

For Further Information Contact:

Signature of Preparer



BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix G
Notification and
Report Forms

CG-2692 Report Of Marine Accident, Injury Or Death

OMB Control No. 1625-0001

U.S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-2692 (Rev. 06-04)		REPORT OF MARINE ACCIDENT, INJURY OR DEATH				RCS No. G-MOA MISIDENTIFICATION NUMBER
SECTION I. GENERAL INFORMATION						
1. Name of Vessel or Facility		2. Official No.		3. Nationality	4. Call Sign	5. USCG Certificate of Inspection issued at:
6. Type: (Towing, Freight, Fish, Drill, etc.)		7. Length	8. Gross Tons	9. Year Built	10. Propulsion: (Steam, diesel, gas, turbine...)	
11. Hull Material (Steel, Wood...)	12. Draft (ft. - in.) FWD AFT.		13. If Vessel Classed, By Whom: (ABS, LLOYDS, DNV, BV, etc.)		14. Date (of occurrence)	15. TIME (Local)
16. Location (See Instruction No. 10A)					17. Estimated Loss of Damage TO:	
18. Name, Address & Telephone No. of Operating Co.					VESSEL _____ CARGO _____ OTHER _____	
18. Name of Master or Person in Charge		USCG License <input type="checkbox"/> YES <input type="checkbox"/> NO		20. Name of Pilot		USCG License State License <input type="checkbox"/> YES <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO
19a. Street Address (City, State, Zip Code)		19b. Telephone Number		20a. Street Address (City, State, Zip Code)		20b. Telephone Number
21. Casualty Elements (Check as many as needed and explain in Block 44.)						
NO. OF PERSONS ON BOARD _____		<input type="checkbox"/> FLOODING; SWAMPING WITHOUT SINKING		<input type="checkbox"/> FIREFIGHTING OR EMERGENCY EQUIPMENT FAILED OR INADEQUATE (Describe in Block 44.)		
<input type="checkbox"/> DEATH - HOW MANY? _____		<input type="checkbox"/> CAPSIZING (with or without sinking)		<input type="checkbox"/> LIFESAVING EQUIPMENT FAILED OR INADEQUATE (Describe in Block 44.)		
<input type="checkbox"/> MISSING - HOW MANY? _____		<input type="checkbox"/> FOUNDERING OR SINKING		<input type="checkbox"/> BLOW OUT (Petroleum exploration/production)		
<input type="checkbox"/> INJURED - HOW MANY? _____		<input type="checkbox"/> HEAVY WEATHER DAMAGE		<input type="checkbox"/> ALCOHOL INVOLVEMENT (Describe in Block 44.)		
<input type="checkbox"/> HAZARDOUS MATERIAL RELEASED OR INVOLVED (Identify Substance and amount in Block 44.)		<input type="checkbox"/> FIRE		<input type="checkbox"/> DRUG INVOLVEMENT (Describe in Block 44.)		
<input type="checkbox"/> OIL SPILL - ESTIMATE AMOUNT: _____		<input type="checkbox"/> EXPLOSION		<input type="checkbox"/> OTHER (Specify) _____		
<input type="checkbox"/> CARGO CONTAINER LOST/DAMAGED		<input type="checkbox"/> COMMERCIAL DIVING CASUALTY				
<input type="checkbox"/> COLLISION (Identify other vessel or object in Block 44.)		<input type="checkbox"/> ICE DAMAGE				
<input type="checkbox"/> GROUNDING <input type="checkbox"/> WAKE DAMAGE		<input type="checkbox"/> DAMAGE TO AIDS TO NAVIGATION				
		<input type="checkbox"/> STEERING FAILURE				
		<input type="checkbox"/> MACHINERY OR EQUIPMENT FAILURE				
		<input type="checkbox"/> ELECTRICAL FAILURE				
		<input type="checkbox"/> STRUCTURAL FAILURE				
22. Conditions						
A. Sea or River Conditions (wave height, river stage, etc.)		B. WEATHER <input type="checkbox"/> CLEAR <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW <input type="checkbox"/> FOG <input type="checkbox"/> OTHER (Specify) _____	C. TIME <input type="checkbox"/> DAYLIGHT <input type="checkbox"/> TWILIGHT <input type="checkbox"/> NIGHT	D. VISIBILITY <input type="checkbox"/> GOOD <input type="checkbox"/> FAIR <input type="checkbox"/> POOR	E. DISTANCE (miles of visibility) _____	F. AIR TEMPERATURE (F) _____
					G. WIND SPEED & DIRECTION _____	H. CURRENT SPEED & DIRECTION _____
23. Navigation Information <input type="checkbox"/> MOORED, DOCKED OR FIXED <input type="checkbox"/> ANCHORED <input type="checkbox"/> UNDERWAY OR DRIFTING				SPEED AND COURSE _____	24. Last Port Where Bound _____	24a. Time and Date of Departure _____
25. FOR TOWING ONLY	25a. NUMBER OF VESSELS TOWED	Empty	Loaded	Total	25b. TOTAL H.P. OF TOWING UNITS	25c. MAXIMUM SIZE OF TOW WITH TOW-BOAT(S) Length Width
						25d. (Describe in Block 44.) <input type="checkbox"/> PUSHING AHEAD <input type="checkbox"/> TOWING ASTERN <input type="checkbox"/> TOWING ALONGSIDE <input type="checkbox"/> MORE THAN ONE TOW-BOAT ON TOW
SECTION II. BARGE INFORMATION						
26. Name		26a. Official Number		26b. Type	26c. Length	26d. Gross Tons
26f. Year Built	26g. <input type="checkbox"/> SINGLE SKIN <input type="checkbox"/> DOUBLE	26h. Draft FWD AFT		26i. Operating Company		
26j. Damage Amount BARGE _____ CARGO _____ OTHER _____				26k. Describe Damage to Barge _____		
26e. USCG Certificate of Inspection issued at:						

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Scope: GoM EMS
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UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
Environmental Coordinator
Document Administrator: Kristy McNease,
GoM HSSE Document Mgmt Administrator
Issuing Dept.: GoM SPU
Control Tier: Tier 2 - GoM Region
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CG-2692 Report Of Marine Accident, Injury Or Death (Cont'd)

PAGE 2 OF CG-2692 (REV 06-04)

SECTION III. PERSONNEL ACCIDENT INFORMATION			
27. Person Involved <input type="checkbox"/> MALE or <input type="checkbox"/> FEMALE <input type="checkbox"/> DEAD <input type="checkbox"/> INJURED <input type="checkbox"/> MISSING		27a. Name (Last, First, Middle Name)	
		27b. Address (City, State, Zip Code)	
28. Birth Date	29. Telephone No.	30. Job Position	27c. Status <input type="checkbox"/> Crew <input type="checkbox"/> Passenger <input type="checkbox"/> Other <input type="checkbox"/> (Check here if off duty)
32. Employer - (if different from Block 16., fill in Name, Address, Telephone No.)			
33. Person's Time		YEAR(S)	MONTH(S)
A. IN THIS INDUSTRY -		_____	_____
B. WITH THIS COMPANY -		_____	_____
C. IN PRESENT JOB OR POSITION -		_____	_____
D. ON PRESENT VESSEL/FACILITY -		_____	_____
E. HOURS ON DUTY WHEN ACCIDENT OCCURRED -		_____	_____
34. Industry of Employer (Towing, Fishing, Shipping, Crew Supply, Drilling, etc.)			
35. Was the Injured Person Incapacitated 72 Hours or More?			
36. Date of Death			
37. Activity of Person at Time of Accident			
38. Specific Location of Accident on Vessel/Facility			
39. Type of Accident (Fall, Caught between, etc.)		40. Resulting Injury (Cut, Bruise, Fracture, Burn, etc.)	
41. Part of Body Injured		42. Equipment Involved in Accident	
43. Specific Object, Part of the Equipment in block 42., or Substance (Chemical, Solvent, etc.) that directly produced the injury.			
SECTION IV. DESCRIPTION OF CASUALTY			
44. Describe how accident occurred, damage, information on alcohol/drug involvement and recommendations for corrective safety measures. (See instructions and attach additional sheets if necessary).			
45. Witness (Name, Address, Telephone No.)			
46. Witness (Name, Address, Telephone No.)			
SECTION V. PERSON MAKING THIS REPORT			
47. Name (PRINT) (Last, First, Middle)		47b. Address (City, State, Zip Code)	
47a. Signature		47c. Title	
		47d. Telephone No.	
		47e. Date	
FOR COAST GUARD USE ONLY		REPORTING OFFICE:	
MISLE Incident Investigation Activity Data Entry:		MISLE Incident Investigation Activity Number (if applicable)	
<input type="checkbox"/> NONE <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> DATA COLLECTION		<input type="checkbox"/> INFORMAL <input type="checkbox"/> FORMAL	
Serious Marine Incident <input type="checkbox"/> Yes <input type="checkbox"/> No	INVESTIGATOR (Name)	DATE	APPROVED BY (Name)
Major Marine Casualty <input type="checkbox"/> Yes <input type="checkbox"/> No			DATE

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CG-2692 Report Of Marine Accident, Injury Or Death - Instructions

INSTRUCTIONS

FOR COMPLETION OF FORM CG-2692

REPORT OF MARINE ACCIDENT, INJURY OR DEATH

AND FORM CG-2692A, BARGE ADDENDUM

WHEN TO USE THIS FORM

1. This form satisfies the requirements for written reports of accidents found in the Code of Federal Regulations for vessels, Outer Continental Shelf (OCS) facilities, mobile offshore drilling units (MODUs), and diving. The kinds of accidents that must be reported are described in the following instructions.

VESSELS

2. A vessel accident must be reported if it occurs upon the navigable waters of the U.S., its territories or possessions; or whenever an accident involves a U.S. vessel; wherever the accident may occur. (Public vessels and recreational vessels are excepted from these reporting requirements.) The accident must also involve one of the following (ref. 46 CFR 4.05-1):

A. All accidental groundings and any intentional grounding which also meets any of the other reporting criteria or creates a hazard to navigation, the environment, or the safety of the vessel;

B. Loss of main propulsion or primary steering, or an associated component or control system, the loss of which causes a reduction of the maneuvering capabilities of the vessel. Loss means that systems, component parts, subsystems, or control systems do not perform the specified or required function;

C. An occurrence materially and adversely affecting the vessel's seaworthiness or fitness for service or route including but not limited to fire, flooding, failure or damage to fixed fire extinguishing systems, lifesaving equipment or bilge pumping systems;

D. Loss of life;

E. An injury that requires professional medical treatment (beyond first aid) and, if a crewmember on a commercial vessel, that renders the individual unfit to perform routine duties.

F. An occurrence not meeting any of the above criteria but resulting in damage to property in excess of \$25,000. Damage cost includes the cost of labor and material to restore the property to the condition which existed prior to the casualty, but it does not include the cost of salvage, cleaning, gas freeing, drydocking or demurrage.

MOBILE OFFSHORE DRILLING UNITS

3. MODUs are vessels and are required to report an accident that results in any of the events listed by Instruction 2-A through 2-F for vessels. (Ref. 46 CFR 4.05-1, 46 CFR 109.411)

OCS FACILITIES

4. All OCS facilities (except mobile offshore drilling units) engaged in mineral exploration, development or production activities on the Outer Continental Shelf of the U.S. are required by 33 CFR 146.30 to report accidents resulting in:

A. Death;

B. Injury to 5 or more persons in a single incident;

C. Injury causing any person to be incapacitated for more than 72 hours;

D. Damage affecting the usefulness of primary lifesaving or firefighting equipment;

E. Damage to the facility in excess of \$25,000 resulting from a collision by a vessel;

F. Damage to a floating OCS facility in excess of \$25,000.

5. Foreign vessels engaged in mineral exploration, development or production on the U.S. Outer Continental Shelf, other than vessels already required to report by Instructions 2 and 3 above, are required by 33 CFR 146.303 to report casualties that result in any of the following:

A. Death;

B. Injury to 5 or more persons in a single incident;

C. Injury causing any person to be incapacitated for more than 72 hours.

DIVING

6. Diving casualties include injury or death that occurs while using underwater breathing apparatus while diving from a vessel or OCS facility.

A. **COMMERCIAL DIVING.** A dive is considered commercial if it is for commercial purposes from a vessel required to have a Coast Guard certificate of inspection, from an OCS facility or in its related safety zone or in a related activity, at a deepwater port or in its safety zone. Casualties that occur during commercial dives are covered by 46 CFR 197.486 if they result in:

1. Loss of life;

2. Injury causing incapacitation over 72 hours;

3. Injury requiring hospitalization over 24 hours.



CG-2692 Report Of Marine Accident, Injury Or Death – Instructions (Cont'd)

In addition to the information requested on this form, also provide the name of the diving supervisor and, if applicable, a detailed report on gas embolism or decompression sickness as required by 46 CFR 197.410(a)(9).

Exempt from the commercial category are dives for:

1. Marine science research by educational institutions;
2. Research in diving equipment and technology;
3. Search and Rescue controlled by a government agency.

B. ALL OTHER DIVING. Diving accidents not covered by Instruction (6-A) but involving vessels subject to Instruction (2), VESSELS, must be reported if they result in death or injury causing incapacitation over 72 hours. (Ref. 46 CFR 4.03-1(c)).

HAZARDOUS MATERIALS

7. When an accident involves hazardous materials, public and environmental health and safety require immediate action. As soon as any person in charge of a vessel or facility has knowledge of a release or discharge of oil or a hazardous substance, that person is required to immediately notify the U. S. Department of Homeland Security's National Response Center (telephone toll-free 800-424-6802 - in the Washington, D.C. area call 202-426-2675). Anyone else knowing of a pollution incident is encouraged to use the toll-free telephone number to report it. If etiologic (disease causing) agents are involved, call the U.S. Public Health Service's Center for Disease Control in Atlanta, GA. (telephone 404-633-5313). (Ref. 42 USC 9603; 33 CFR 153; 49 CFR 171.15)

COMPLETION OF THIS FORM

8. This form should be filled out as completely and accurately as possible. Please type or print clearly. Fill in all blanks that apply to the kind of accident that has occurred. If a question is not applicable, the abbreviation "NA" should be entered in that space. If an answer is unknown and cannot be obtained, the abbreviation "UNK" should be entered in that space. If "NONE" is the correct response, then enter it in that space.

9. Once completed, deliver or mail this form as soon as possible to the Coast Guard Marine Safety, Marine Inspection or Activities Office nearest the location of the casualty or, if at sea, nearest the arrival port.

10. Amplifying information for completing the form:

A. Block 16 - "LOCATION" - Latitude and longitude to the nearest tenth of a minute should always be entered except in those rivers and waterways where a mile marker system is commonly used. In these cases, the mile number to the nearest tenth of a mile should be entered. If the latitude and longitude, or mile number, are unknown, reference to a known landmark or object (buoy, light, etc.) with distance and bearing to the object is permissible. Always identify the body of water or waterway referred to.

B. Tug or towboat with tow - Tugs or towboats with tows under their control should complete all applicable portions of the CG-2692. SECTION II should be completed if a barge causes or sustains damage or meets any other reporting criteria. If additional barges require reporting, the "Barge Addendum," CG-2692A, may be used to provide the information for the additional barges.

C. Moored/Anchored Barge - If a barge suffers a casualty while moored or anchored, or breaks away from its moorage, and causes or sustains reportable damages or meets any other reporting criteria, enter the location of its moorage in Block (1) of the CG-2692 and complete the form except for Blocks (2) through (13). The details will be entered in SECTION II for one barge and on the "Barge Addendum" CG-2692A, for additional barges.

D. SECTION III - Personnel Accident Information - SECTION III must be completed for a death or injury. In addition, applicable portions of SECTIONS I, II and IV must be completed. If more than one death or injury occurs in a single incident, complete one CG-2692 for one of the persons injured or killed, and attach additional CG-2692's, filling out Blocks (1) and (2) and SECTION III for each additional person.

E. BLOCK 44 - Describe the sequence of events which led up to this casualty. Include your opinion of the primary cause and any contributing causes of the casualty. Briefly describe damage to your vessel, its cargo, and other vessels/property. Include any recommendations you may have for preventing similar casualties. **ALCOHOL AND DRUG INFORMATION.** Provide the following information with regard to each person determined to be directly involved in the casualty: name, position aboard the vessel, whether or not the person was under the influence of alcohol or drugs at the time of the casualty, and the method used to make this determination. If toxicological testing is conducted the results should be included; if results are not available in a timely manner, provide the results of the toxicological test as soon as practical and indicate that this is the case in block 44 of the casualty form.

NOTICE: The information collected on this form is routinely available for public inspection. It is needed by the Coast Guard to carry out its responsibility to investigate marine casualties, to identify hazardous conditions or situations and to conduct statistical analysis. The information is used to determine whether new or revised safety initiatives are necessary for the protection of life or property in the marine environment.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number.

The Coast Guard estimates that the average burden for this report is 1 hour. You may submit any comments concerning the accuracy of this burden estimate or any suggestions for reducing the burden to: Commandant (G-MOA), U.S. Coast Guard, Washington, DC 20593-0001 or Office of Management and Budget, Paperwork Reduction Project (1625-0001), Washington, DC 20503.



CG-2692B Report Of Required Testing Following A Marine Incident

U.S. DEPARTMENT OF HOMELAND SECURITY U.S. COAST GUARD CG-2692B (11-04)		REPORT OF REQUIRED CHEMICAL DRUG AND ALCOHOL TESTING FOLLOWING A SERIOUS MARINE INCIDENT <i>(See Instructions on reverse)</i>				APPROVED OMB NO. 1625-0001				
		USCG MISLE ACTIVITY NUMBER								
SECTION I—VESSEL INFORMATION										
1. Name of vessel			2. Official Number		3. Call Sign		4. Nationality			
5. Vessel Type (<i>Freight, Towing, Fishing, MODU, etc.</i>)			6. Length		7. Gross Tons		8. Year Built			
9. Operating Company Name: Address: Telephone Number:			10. Master or Person in Charge Name: Address: Telephone Number:							
SECTION II—INCIDENT INFORMATION										
11. Type of Serious Marine Incident (<i>Check Appropriate Box(es). (See Instructions on Reverse)</i>)										
<input type="checkbox"/> a. Death (<i>Append to Form CG-2692</i>)				<input type="checkbox"/> e. Loss of uninspected, self-propelled vessel of over 100 gross tons (<i>Append to Form CG-2692</i>)						
<input type="checkbox"/> b. Injury requiring medical treatment (<i>Append to Form CG-2692</i>)				<input type="checkbox"/> f. Discharge of oil of 10,000 gallons or more into U.S. waters						
<input type="checkbox"/> c. Property damage in excess of \$100,000 (<i>Append to Form CG-2692</i>)				<input type="checkbox"/> g. Discharge of a reportable quantity of hazardous substance into U.S. waters						
<input type="checkbox"/> d. Loss of inspected vessel (<i>Append to Form CG-2692</i>)				<input type="checkbox"/> h. Release of a reportable quantity of hazardous substance into U.S. environment						
12. Date of Incident		13. Time (<i>local</i>) of Incident		14. Location of Incident (<i>Latitude and Longitude or River and Milepost</i>)						
SECTION III—PERSONNEL / TESTING INFORMATION										
15. Personnel Directly Involved In Serious Marine Incident				16. Drug and Alcohol Testing (<i>See Instructions on reverse</i>)						
15a. Name (<i>Last, First, Middle Initial</i>)		15b. Licensing/Certification (<i>Check Appropriate Box(es)</i>) USCG USCG License MMD Neither		16a. Drug Test Urine Specimen provided within 32 hours?		16b. Alcohol Test Specimen provided within 2 hours?		Alcohol Test Specimen Source		Alcohol Test Results
				YES NO		YES NO		Saliva Blood Breath		
				<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
				<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
				<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
				<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
17. SAMHSA Accredited Laboratory Conducting Chemical Drug Tests				18. Laboratory conducting blood alcohol test(s) or individual conducting saliva or breath alcohol test(s)						
Name: Address: Telephone Number:				Name: Address: Telephone Number:						
19. Person Making This Report (<i>Please Print</i>)				20. Signature			21. Date			
Name: Address: Telephone Number:				Title:						
22. Remarks (<i>See Instructions on Reverse</i>)										

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
 Appendix G, Page 14 of 15 Pages
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CG-2692B Report Of Required Testing Following A Marine Incident - Instructions

**INSTRUCTIONS FOR COMPLETION OF FORM CG-2692B
REPORT OF REQUIRED CHEMICAL DRUG AND ALCOHOL TESTING
FOLLOWING A SERIOUS MARINE INCIDENT**

NOTE: When this form is being submitted along with a REPORT OF MARINE ACCIDENT, INJURY OR DEATH (Form CG-2692), Blocks 3-10 and Blocks 12-14 on Form CG-2692B need not be completed.

An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The Coast Guard estimates that the average burden for this report is .5 hours. You may submit any comments concerning the accuracy of this burden estimate or any suggestions for reducing the burden to: Commandant (G-MOA), U.S. Coast Guard, 2100 2nd St. SW, Washington D.C. 20593-0001 or Office of Management and Budget, Paperwork Reduction Project (1625-0001), Washington, DC 20503.

WHEN TO USE THIS FORM

1. This form satisfies the requirements in the Code of Federal Regulations for written reports of chemical drug and alcohol testing of individuals directly involved in serious marine incidents. Alcohol tests are to be conducted not later than 2 hours (unless there are casualty directly related safety concerns) and drug test specimens collected not later than 32 hours after a Serious Marine Incident. Public vessels and recreational vessels are excepted from these reporting requirements.

SERIOUS MARINE INCIDENTS

2. The term "serious marine incident" includes the following events involving a vessel in commercial service:

- A. Any marine casualty or accident that occurs upon the navigable waters of the U.S., its territories or possessions, or that involves a U.S. vessel anywhere, and that results in any of the following:
 - 1. One or more deaths;
 - 2. Any injury to a crewmember, passenger, or other person which requires professional medical treatment beyond first aid, and, in the case of a person employed on board a vessel in commercial service, which renders the individual unfit to perform routine vessel duties;
 - 3. Damage to property, as defined in 46 CFR 4.05-1(f), in excess of \$100,000;
 - 4. Actual or constructive total loss of any vessel subject to inspection under 46 U.S.C. 3301; or
 - 5. Actual or constructive total loss of any self-propelled vessel, not subject to inspection under 46 U.S.C. 3301, of 100 gross tons or more.
- B. A discharge of oil of 10,000 gallons or more into the navigable waters of the United States, as defined in 33 U.S.C. 1321, whether or not resulting from a marine casualty.
- C. A discharge of a reportable quantity of a hazardous substance into the navigable waters of the United States, whether or not resulting from a marine casualty.
- D. A release of a reportable quantity of a hazardous substance into the environment of the United States, whether or not resulting from a marine casualty.

INDIVIDUAL DIRECTLY INVOLVED IN A SERIOUS MARINE INCIDENT

3. Term "individual directly involved in a serious marine incident" is an individual whose order, action or failure to act is determined to be, or cannot be ruled out as, a causative factor in the events leading to or causing a serious marine incident.

COMPLETION OF THIS FORM

- 4. This form should be filled out as completely and accurately as possible. Please type or print clearly. Fill in all blanks that apply to the kind of incident that has occurred. If a question is not applicable, the abbreviation "NA" should be entered in that space. If an answer is unknown and cannot be obtained, the abbreviation "UNK" should be entered in that space. If "NONE" is the correct response, then enter it in that space.
- 5. When this form has been completed, deliver or mail it as soon as practicable to the Coast Guard Marine Safety or Marine Inspection Office nearest to the location of the incident or, if at sea, nearest to the port of first arrival.
- 6. Upon receipt of a report of chemical test results, the marine employer shall submit a copy of the test results for each person listed in block 15(a) of this form to the Coast Guard Officer in Charge, Marine Inspection where the CG-2692B was submitted. (Ref. 46 CFR 4.06-80(d)).
- 7. Amplifying information for completing the form:
 - A. Block 11—"TYPE OF SERIOUS MARINE INCIDENT" Check each appropriate box. If box a, b, c, d, or e is checked, or append this form to the required form CG-2692, "REPORT OF MARINE ACCIDENT, INJURY OR DEATH", and submit both forms as indicated in 5. above.
 - B. Block 16c—"ALCOHOL TEST BREATH SPECIMEN PROVIDED?" When breath test results are available alcohol concentration shall be expressed numerically in percent by weight (i.e., .04, .10 etc..).
 - C. Block 22—"REMARKS" Describe the duties of each individual listed in 15a, at the time of incident (i.e., master, pilot, chief engineer, ..). If an individual refuses to provide the required specimens, if specimens are not timely obtained, or not obtained, describe the circumstances completely.

NOTICE: The information collected on this form is routinely available for public inspection. It is needed by the Coast Guard to carry out its responsibility to investigate marine casualties, to identify hazardous conditions or situations and to conduct statistical analysis. The information is used to determine whether new or revised safety initiatives are necessary for the protection of life or property in the marine environment.

22. REMARKS (Continued)

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 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
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 Control Tier: Tier 2 - GoM Region
 Appendix G, Page 15 of 15 Pages
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APPENDIX H – WORST CASE DISCHARGE

A. General Information

Worst case discharge scenarios were selected based on projected discharge volume, proximity to shorelines, areas of environmental and/or economic sensitivity, and marine and shoreline resources. The lack of significant differences between operations, products, resources, and sensitivities helped to establish potential discharge volume and location as the primary decisive factors for Worst Case Discharge selections.

The following Appendix contains worst case discharge assessments and response plans for a BP facility within 10 miles of shore, outside 10 miles from shore and from an exploratory well. MMS regulations in 30 C FR 254.47 define the parameters for worst case discharge calculations. For an oil production platform facility, the size of the worst case discharge scenario is the sum of:

•	Maximum capacity of all oil storage tanks and flowlines on the facility.
•	The volume of oil calculated to leak from a break in any pipelines connected to the facility considering shutdown time, the effect of hydrostatic pressure, gravity frictional wall forces and other factors.
•	The daily production volume from an uncontrolled blowout of the highest capacity well associated with the facility flowing for 30 days.

The discharge rates from an uncontrolled blowout of oil production facilities were calculated using the following:

•	Reservoir characteristics
•	Reservoir pressure data
•	Reservoir drive mechanisms
•	Reservoir depletion rates
•	Wellbore completion configurations
•	Casing and production tubing sizes
•	Casing and tubing friction factors
•	Production history
•	Static and flowing bottom hole pressures
•	Water intrusion (where appropriate)



In addition to the worst case discharge volumes, the individual summaries also include the following maps and information:

1. Overview Map
2. Land Impact Probability Map
3. On-Water Recovery Response Equipment Location Map
4. On-Water Recovery Response Equipment Status Boards
5. Dispersant Application Map
6. Dispersant Application Status Boards

The location of the nearest response contractor, and estimated time for mobilization and deployment of response resources to Company operated facilities and ROW pipelines has been calculated and included in this section where applicable. Times provided for mobilization and deployment are estimates and will depend on meteorological conditions, sea state, and availability of vessels and manpower.

<i>Worst Case Discharge Scenario Summary Listing</i>			
WCD Type	Name of Facility	Area/Block	Distance from Shore (Miles)
< 10 Miles	SP 89 Pipeline	SP 89	9.53
> 10 Miles	MC 778 PDQ	MC 778	68
Exploratory Well	Living Color Well	MC 462	33
Flower Gardens	N/A		



B. Worst Case Discharge scenario less than 10 miles

1) Worst Case Summary

BP has determined that its worst case scenario for discharge within 10 miles of shoreline would occur from the SP 89 ROW pipeline. Both the DOT/RSPA worst case discharge calculations and the MMS Pipeline Oil Spill Volume Computer Model program were used in this calculation. Both models were within 15% of each other. The higher volume of 28,033 barrels (based on the DOT/RSPA model) was selected as the WCD for this pipeline.

2) Facility Information

- Area and Block: SP 89
- Latitude: 28° 41' 50.55"
- Longitude: 89° 23' 45.29"
- Distance to Shore: 9.53
- API Gravity: °

3) Worst Case Discharge Volume

<i>Criteria</i>	<i>Barrels</i>
Maximum Oil Flow Rate	0.9 bbls/ft
Volume released due to facility pipeline break (drains down from pipeline)	28,033
TOTAL WORST CASE DISCHARGE	28,033

4) Land Segment Identification

Land areas that could be potentially impacted by an SP 89 oil spill were determined using the MMS Oil Spill Risk Analysis Model (OSRAM) trajectory results. The OSRAM estimates the probability that oil spills from designated locations would contact shoreline and offshore natural resources. These probabilities indicate, in terms of percentage, the chance that an oil spill occurring in a particular launch area will contact a certain county or parish within 3, 10, and 30 days. OCS Launch Area C56 was utilized as SP 89's point of origin. Land segments identified by the model are listed below:



Area and Spill Site	Land Segment Contact Land Segment No. & County/ Parish & State	Percent Impact Chance		
		3 Days	10 Days	30 Days
BP Facility	Matagorda, TX	--	--	1
	Galveston, TX	--	--	1
	Jefferson, TX	--	--	1
	Cameron, LA	--	--	3
	Vermillion, LA	--	--	2
	Iberia, LA	--	--	1
	Terrebonne, LA	--	3	5
	LaFourche, LA	1	4	5
	Jefferson, LA	--	1	2
	Plaquemines, LA	6	13	16
	St. Bernard, LA	--	--	1
	Jackson, MS	--	--	1
	Escambia, FL	--	--	1

5) Resource Identification

The land segment that has the highest probability of being impacted by the SP 89 facility is Plaquemines Parish, Louisiana, at 16 percent. Sources listing the resources within Plaquemines Parish, Louisiana are identified in Section 11.

6) Response

BP will make every effort to respond to the Worst Case Discharge as effectively as possible. BP has contracted with National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) as primary Oil Spill Removal Organizations. Contact information for the OSROs can be found in **Figure 7-7**. Upon notification of the spill, BP would request a partial or full mobilization of the resources identified in the attached **Appendix E**, including, but not limited to, dispersant aircraft from ASI & MSRC and NRC & MSRC skimming vessels. The Qualified Individual, Person in Charge, Incident Commander or designee may contact other service companies if the Unified Command deems such services necessary to the response efforts.

An A dios model was run on a similar product. The results indicate 25% of the product would be evaporated or naturally dispersed within 12 hours, leaving approximately 21,025 barrels on the water.



Tables below outline equipment as well as temporary storage equipment to be considered in order to cope with an initial spill of 28,033 bbls. The list estimates individual times needed for procurement, load out, travel time to the site and deployment.

Offshore response strategies may include attempting to simulate utilizing MSRC & NRC's Oil Spill Response Vessels (OSRVs), Oil Spill Response Barges (OSRBs), ID Boats, and Quick Strike OSRVs, which have a combined derated recovery rate of 81,877 barrels/day. Temporary storage associated with the identified skimming and temporary storage equipment equals 97,864 barrels.

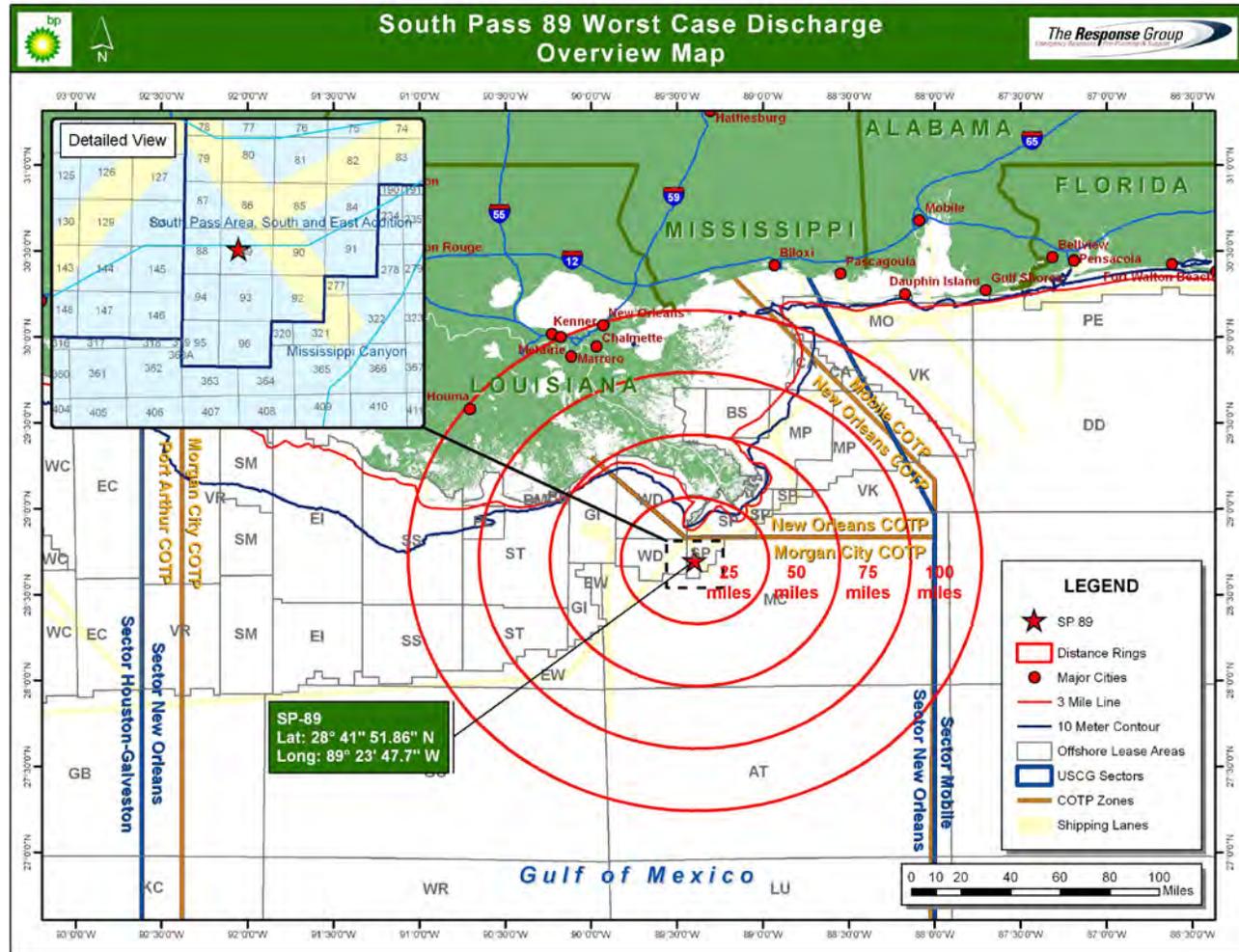
Dispersants may be a viable response option. If appropriate, 4 to 5 sorties (1,000 gallons per sortie) from the DC-3 and 4 to 5 sorties (2,000 gallons per sortie) from the DC-4 within the first 12 hour operating day of the response. Using a 1:20 application rate, 90% effectiveness, and assuming 4-5 sorties per day the systems could disperse approximately 5,486 to 6,857 barrels of oil per day based on the NOAA Dispersant Planner. Additionally, 3 to 4 sorties (300 gallons per sortie) from MSRC's BE-90 and one sortie (3250 gallons per sortie) from MSRC's C-130A could be completed within the first 12 hour operating day of the response. Using the same assumptions as above, these two aircraft could disperse approximately 1,778 to 1,907 barrels of oil in the first day. On each subsequent day, the BE-90 and the C-130A would be able to complete 4-5 sorties each (300 and 3250 gallons per sortie, respectively), for a total amount of 6,080 to 7,600 barrels of oil per day dispersed.

If the spill went unabated, shoreline impact would depend upon existing environmental conditions. Nearshore response may include the deployment of shoreline boom on beach areas, or protection and sorbent boom on vegetated areas. Strategies would be based upon surveillance and real time trajectories provided by The Response Group that depict areas of potential impact given actual sea and weather conditions. Strategies from the Area Contingency Plan, The Response Group and Unified Command would be consulted to ensure that environmental and special economic resources would be correctly identified and prioritized to ensure optimal protection. The Response Group shoreline response guides depict the protection response modes applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in areas of environmental concern. Supervisory personnel have the option to modify the deployment and operation of equipment allowing a more effective response to site-specific circumstances. (For more information on resource identification, see **Section 11**; for more information on resource protection methods, see **Section 13**.)



BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge



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 GoM EMS Mgmt Representative
 Scope: GoM EMS
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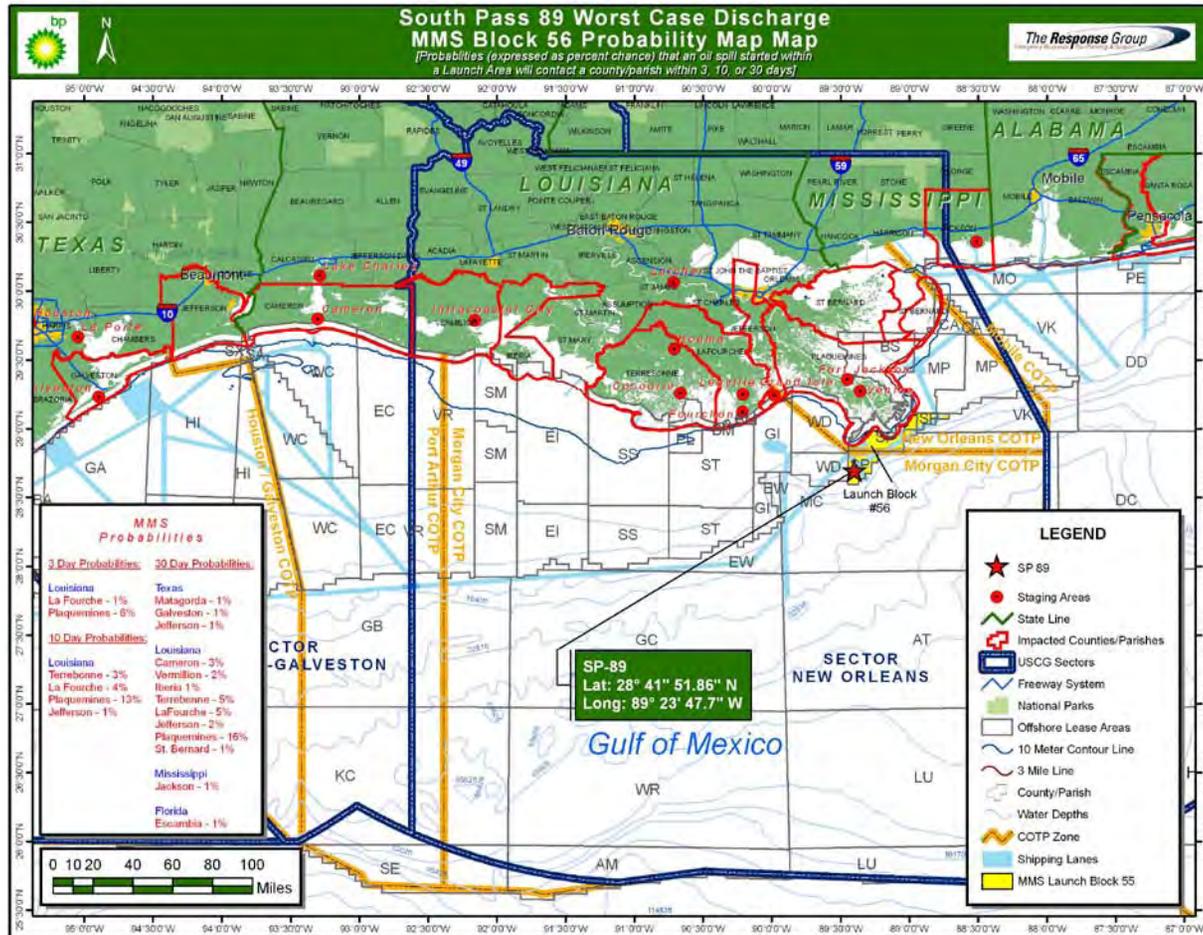
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 Document Administrator: Kristy McNease,
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge



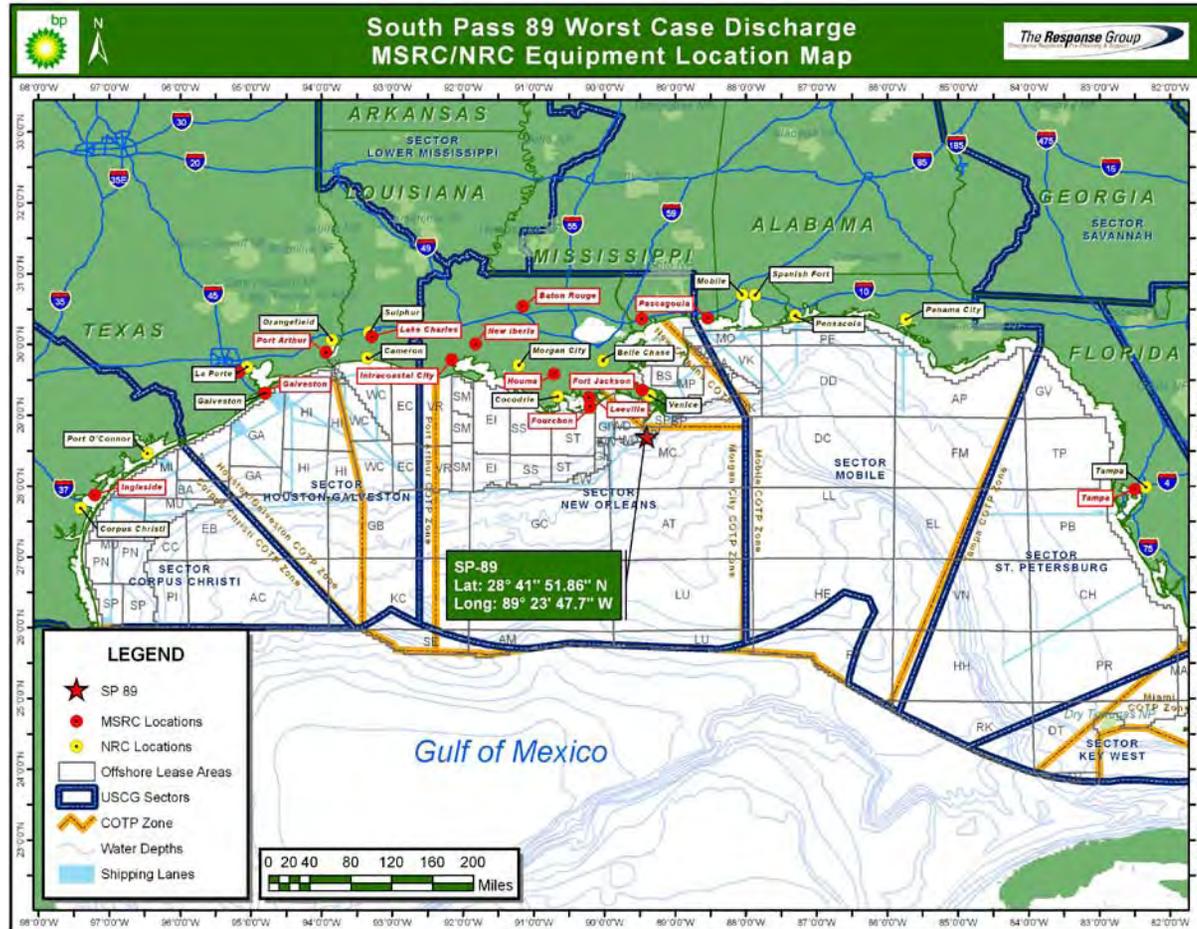
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SP 89 Pipeline (<10 Miles) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
Seahorse 5 ID Boat	NRC 800-899-4672	Fourchon, LA	Ord Disk Skimmer 21" Boom Personnel 146" Utility Boat	1 100' 4 1	1,954	100	Fourchon, LA	60	1	0	4.5	1	6.5
Celeste Elizabeth ID Boat	NRC 800-899-4672	Fourchon, LA	Ord Disk Skimmer 21" Boom Personnel Utility Boat -126'	1 100' 4 1	1,954	416	Fourchon, LA	60	1	0	4.5	1	6.5
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Transrec Skimmer 67" Boom 210' Vessel Personnel 32' Support Boat	1 1320' 1 12 1	10,567	4,000	Fort Jackson, LA	54	2	1	4	1	8
SOS System AB/AW-363	NRC 800-899-4672	Belle Chasse, LA	Marco/VTU Skimmer 43" Boom Personnel Manne Tank 110' Utility Boat	1 200' 4 1 1	30,857	124	Venice, LA	45	2.5	1	3	1	7.5
SOS System FF-332	NRC 800-899-4672	Belle Chasse, LA	Vikoma Skimmer 21" Boom Personnel Manne Tank 110' Utility Boat	1 200' 4 1 1	3,154	100	Venice, LA	45	2.5	1	3	1	7.5
M/V Recovery MOSS Unit SS-50	AMPOL 800-482-6765	Fourchon, LA	MOSS SS-50 Skimmer 36" Expandi Boom Personnel 110' Utility Boat Crew Boat	1 720' 4 1 1	3,017	200	Fourchon, LA	60	2	1	4.5	1	8.5
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Transrec Skimmer 67" Boom 210' Vessel Personnel 32' Support Boat	1 1320' 1 12 1	10,567	4,000	Pascagoula, MS	130	2	1	9.5	1	13.5
SOS System RM-313	NRC 800-899-4672	Spanish Fort, AL	Rope Mop/VTU Skimmer 21" Boom Personnel Manne Tank 110' Utility Boat	1 300' 4 1 1	8,352	124	Fourchon, LA	60	7	1	4.5	1	13.5
Seahorse 4 ID Boat	NRC 800-899-4672	Morgan City, LA	Ord Disk Skimmer 21" Boom Personnel 145' Utility Boat	1 100' 4 1	1,954	100	Morgan City, LA	165	1	0	12	1	14
NRC "Energy" ID Boat	NRC 800-899-4672	Morgan City, LA	Vikoma Sea Skim 21" Boom Personnel Boom Boat 110' Utility Boat	1 2100' 4 1 1	7,547	300	Morgan City, LA	165	2	1	12	1	16
Seahorse 6 ID Boat	NRC 800-899-4672	Cameron, LA	Ord Disk Skimmer 21" Boom Personnel 146' Utility Boat	1 100' 4 1	1,954	100	Cameron, LA	250	1	0	18	1	20
DERATED RECOVERY RATE (BBLs/DAY)												81,877	
SKIMMING VESSEL STORAGE CAPACITY (BARRELS)												9,564	

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge

SP 89 Pipeline (<10 Miles) - Offshore On-Water Recovery Storage List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				Total ETA
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	
MSRC-452 Offshore Barge	MSRC 800-OIL-SPIL	Fort Jackson, LA	3000 BBL Bladders	1		3,000	Fort Jackson, LA	80	2	1	9		12
			Offshore Barge	1		45,000							
			Personnel	4									
			Offshore Tug	1									
MSRC-402 Offshore Barge	MSRC 800-OIL-SPIL	Pascagoula, MS	Offshore Barge	1		40,300	Pascagoula, MS	150	2	1	16.5		19.5
			Personnel	4									
			Offshore Tug	1									
STORAGE CAPACITY (BARRELS)											88,300		
TOTAL STORAGE CAPACITY (INCLUDING SKIMMING VESSELS) (BARRELS)											97,864		

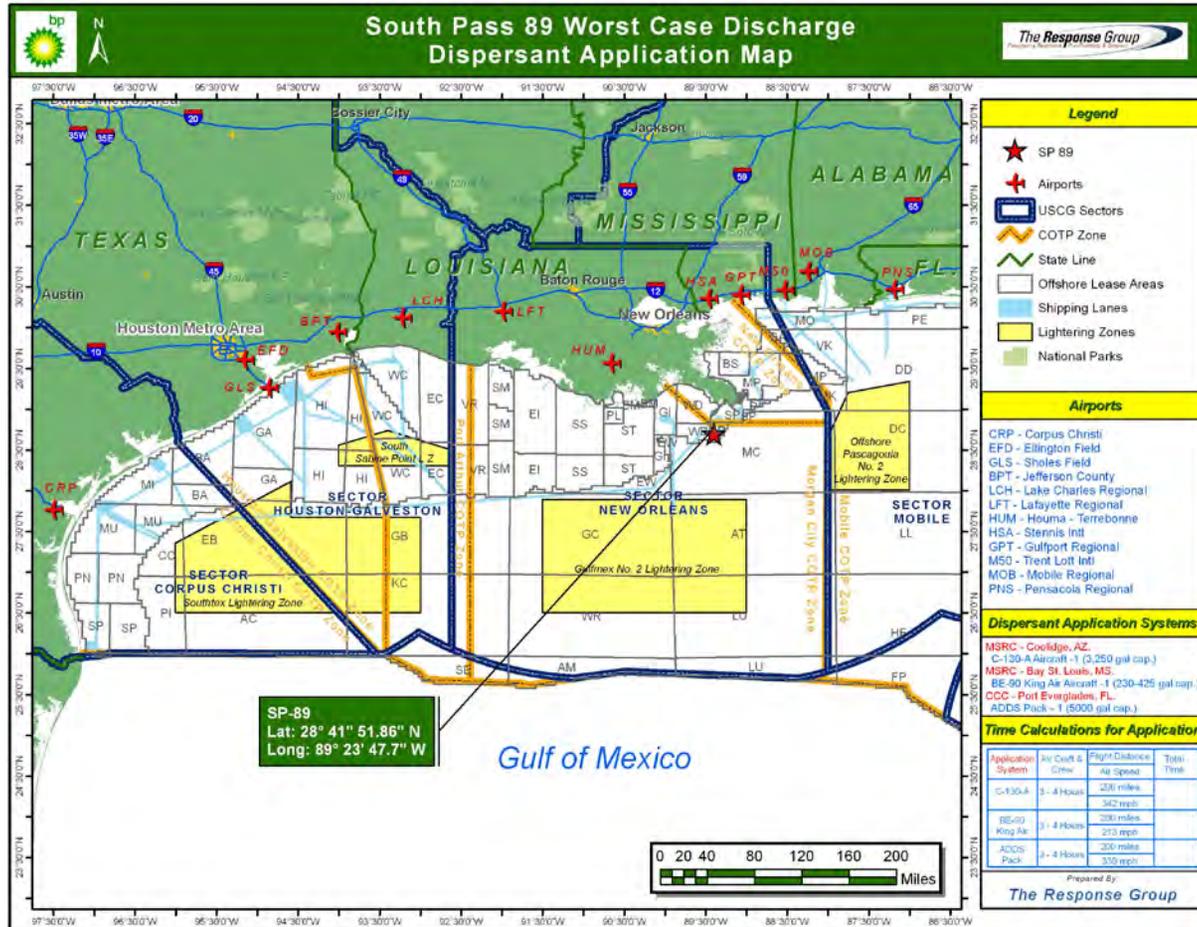
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge

SP 89 Pipeline (<10 Miles) - Offshore Aerial Dispersant Activation List											
Aerial Dispersant System	Supplier & Phone	Warehouse	Aerial Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
							Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
DC-3 Aircraft Air Speed - 180 MPH	Airborne Support 985-851-6391	Houma, LA	DC-4 Dispersant Aircraft	1	Houma, LA	94	2	0.5	0.55	0.3	3.35
			Dispersant - Gallons	2000							
			Spotter Aircraft	1							
			Spotter Personnel	2							
			Crew - Pilots	2							
DC-3 Aircraft Air Speed - 150 MPH	Airborne Support 985-851-6391	Houma, LA	DC-3 Dispersant Aircraft	1	Houma, LA	94	2	0.4	1.20	0.2	3.80
			Dispersant - Gallons	2000							
			Spotter Aircraft	1							
			Spotter Personnel	2							
			Crew - Pilots	2							
BE-90 King Air Aircraft Air Speed - 213 MPH	MSRC 800-OIL-SPIL	Bay St. Louis, MS	BE-90 Dispersant Aircraft	1	Stennis INTL., MS 1st Flight	116	4.00	0.20	0.55	0.20	4.95
			Dispersant - Gallons	230-425							
			Spotter Aircraft	1	Stennis INTL., MS 2nd Flight	116	0.55	0.20	0.55	0.20	1.50
			Spotter Personnel	2							
			Crew - Pilots	2							
C130-A Aircraft Air Speed - 342 MPH	MSRC 800-OIL-SPIL	Coolidge, AZ	C130-A Dispersant Aircraft	1	Ellington Field, TX 1st Flight	352	8	0.3	1.05	0.5	9.90
			Dispersant - Gallons	3250							
			Spotter Aircraft	1	Stennis INTL., MS 2nd Flight	116	0.35	0.3	0.35	0.5	1.55
			Spotter Personnel	2							
			Crew - Pilots	2							
ADDS PACK Air Speed - 330 MPH	Clean Carribean 985-851-6391	Pt. Everglades, FL	USCG C-130 Aircraft	1	Clearwater, FL	600	24-48	1	1.82	0.5	27.35 to 51.35
			ADDS PACK	1							
			Dispersant - Gallons	5000							
			Spotter Aircraft	1							
			Spotter Personnel	2							
Crew - Pilots	2										

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SP 89 Pipeline (<10 Miles) - Offshore Boat Spray Dispersant Activation List

Boat Spray Dispersant System	Supplier & Phone	Warehouse	Boat Spray Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
							Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Dispersant Spray System	1	Fort Jackson, LA	54	2	1	4	1	8
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
M/V Recovery	AMPOL 800-482-6765	Fourchon, LA	Dispersant Spray System	1	Fourchon, LA	60	1	1	4.5	1	7.5
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
USCG SMART Team	USCG	Mobile, AL	Personnel	4	Fourchon, LA	60	3	1	4.5	1	9.5
			Crew Boat	1							
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Dispersant Spray System	1	Pascagoula, MS	130	2	1	9.5	1	13.5
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
Vessel Based Dispersant Spray System	NRC 800-899-4672	Morgan City, LA	Dispersant Spray System	1	Morgan City, LA	165	1	1	12	1	15
			Dispersant (Gallons)	500							
			Personnel	4							
			Crew Boat	1							
M/V Responder	AMPOL 800-482-6765	Cameron, LA	Dispersant Spray System	1	Cameron, LA	250	1	1	18	1	21
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
Gulf Coast Responder Transrec-350	MSRC 800-OIL-SPIL	Lake Charles, LA	Dispersant Spray System	1	Lake Charles, LA	275	2	1	19.5	1	23.5
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
Texas Responder Transrec-350	MSRC 800-OIL-SPIL	Galveston, TX	Dispersant Spray System	1	Galveston, TX	335	2	1	24	1	28
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			32' Support Boat	1							

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Dispersant Stockpiles by Location (Updated 03/2009)			
Supplier & Phone	Location of Dispersants	Type	Quantity in Gallons
Airborne Support, Inc. (ASI) 985-851-6391	Houma, LA	Corexit 9527	3,355
MSRC (800) OIL-SPIL	Slaughter Beach, DE - DBRC Site	Corexit 9527	330
	Chesapeake City, MD - MSRC Site	Corexit 9527	9,130
	Portland, ME - OSRV	Corexit 9527	330
	Perth Amboy, NJ - OSRV	Corexit 9527	330
	Chesapeake City, MD - OSRV	Corexit 9527	330
	Virginia Beach, VA - OSRV	Corexit 9527	330
	San Juan, PR - MSRC Site	Corexit 9527	900
	Kiln, MS - Stennis Airport	Corexit 9527	22,260
	Kiln, MS - Stennis Airport	Corexit 9500	3,960
	Miami, FL - OSRV	Corexit 9527	800
	Pascagoula, MS - OSRV	Corexit 9527	800
	Fort Jackson, LA - OSRV	Corexit 9527	800
	Lake Charles, LA - OSRV	Corexit 9527	800
	Galveston, TX - OSRV	Corexit 9527	800
	Corpus Christi - OSRV	Corexit 9527	330
	Galveston, TX - MSRC Site	Corexit 9500	18,980
	Coolidge, AZ - Coolidge Airport	Corexit 9527	3,300
	Long Beach, CA - Tesoro Terminal	Corexit 9500	10,890
	Terminal Island, CA - OSRV	Corexit 9527	600
	Richmond, CA - MSRC Warehouse	Corexit 9527	11,500
	Richmond, CA - OSRV	Corexit 9527	605
	Everett, WA - Everett Warehouse	Corexit 9527	6,495
Ferndale, WA - CP Refinery	Corexit 9527	6,430	
Port Angeles, WA - OSRV	Corexit 9527	605	
Astoria, OR - OSRV	Corexit 9527	605	
Honolulu, HI - OSRV	Corexit 9527	605	
NRC National Response Corp. John Hielscher 631-224-9141 ext. 142	Morgan City, LA	COREXIT 9527	1,320
	Morgan City, LA	SPC 1000	220
	Morgan City, LA	BIO Disperse	1,045
	Toa Baja, PR	COREXIT 9527	5,005
	St. Croix, VI	COREXIT 9527	1,650
ONDEO Nalco	Sugarland, TX	Corexit 9500	11,000
Clean Caribbean & Americas	Ft. Lauderdale, FL	Corexit 9500	30,360
OSR / EARL +44 (0)20 7724 0102	Southampton, UK	Corexit 9500	5,283
	Bahrain, MENAS Base	Corexit 9500 (1 week activation)	3,963
	Singapore, SG	Corexit 9500 (1 week activation)	8,440
TOTAL QUANTITY (GALLONS)			174,486

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C. Worst Case Discharge scenario greater than 10 miles

1) Worst Case Summary

BP has determined that its worst case scenario for discharge in waters greater than 10 miles of shoreline would occur from the MC 778 Thunder Horse operations. MC 778 operations involve development drilling and production of oil. A worst case scenario at this facility could result in a discharge of 177,400 barrels of crude as defined by MMS regulations.

2) Facility Information

- Type of Operation: Production
- Facility Name: MC 778 PDQ
- Area and Block: MC 778
- Latitude: 28° 11' 26.21"
- Longitude: -88° 29' 44.32"
- Distance to Shore: 68
- Maximum Tank and Flowline Capacity: 21,400 + 2,000 barrels
- Volume released due to facility pipeline break: 13,000 bbls
- Daily Production Volume: 141,000 bbls

3) Worst Case Discharge Volume

<i>Criteria</i>	<i>Barrels</i>
Maximum tank and flowline capacity	21,400 + 2,000 bbls
Volume released due to facility pipeline break	13,000 bbls
Daily production volume	141,000 bbls
TOTAL WORST CASE DISCHARGE	177,400 bbls

4) Land Segment Identification

Land areas that could be potentially impacted by an MC 778 oil spill were determined using the MMS Oil Spill Risk Analysis Model (OSRAM) trajectory results. The OSRAM estimates the probability that oil spills from designated locations would contact shoreline and offshore natural resources. These probabilities indicate, in terms of percentage, the chance that an oil spill occurring in a particular launch area will contact a certain county or parish within 3, 10, and 30 days.



OCS Launch Area 59 was utilized as MC 778's point of origin. Land segments identified by the model are listed below:

Area and Spill Site	Land Segment Contact Land Segment No. & County/ Parish & State	Percent Impact Chance		
		3 Days	10 Days	30 Days
MC 778 "Thunder Horse" Facility	(13) Cameron	LA	-	-
	(14) Vermillion	LA	-	-
	(17) Terrebonne	LA	-	-
	(18) LaFourche	LA	-	1
	(19) Jefferson	LA	-	-
	(20) Plaquemines	LA	-	5
	(21) St. Bernard	LA	-	-
	(29) Walton	FL	-	1
	(30) Bay	FL	-	-

5) Resource Identification

The land segment that has the highest probability of being impacted by the MC 778 facility is Plaquemines Parish, Louisiana, at 5 percent. Sources listing the resources within Plaquemines Parish are identified in Section 11.

6) Response

BP will make every effort to respond to the Worst Case Discharge as effectively as possible. BP has contracted with Clean Caribbean & Americas (CCA), Marine Spill Response Corporation (MSRC) and the National Response Corporation (NRC) as primary Oil Spill Removal Organizations. Contact information for the OSROs can be found in Figure 7-6A. Upon notification of the spill, BP would request a partial or full mobilization of the resources identified in the attached Appendix E, including, but not limited to, dispersant aircraft from CCA, ASI & MSRC and NRC & MSRC skimming vessels. The Qualified Individual, Person in Charge, Incident Commander or designee may contact other service companies if the Unified Command deems such services necessary to the response efforts.

An Adios model was run on a similar product. The results indicate 15% of the product would be evaporated or naturally dispersed within 12 hours, leaving approximately 150,790 barrels on the water.



Tables below outline equipment as well as temporary storage equipment to be considered in order to cope with an initial spill of 177,400 bbls. The list estimates individual times needed for procurement, load out, travel time to the site and deployment.

Offshore response strategies may include attempting to simulate utilizing MSRC & NRC's Oil Spill Response Vessels (OSRVs), Oil Spill Response Barges (OSRBs), ID Boats, and Quick Strike OSRVs, which have a combined derated recovery rate of 339,207 barrels/day. Temporary storage associated with the identified skimming and temporary storage equipment equals 278,030 barrels.

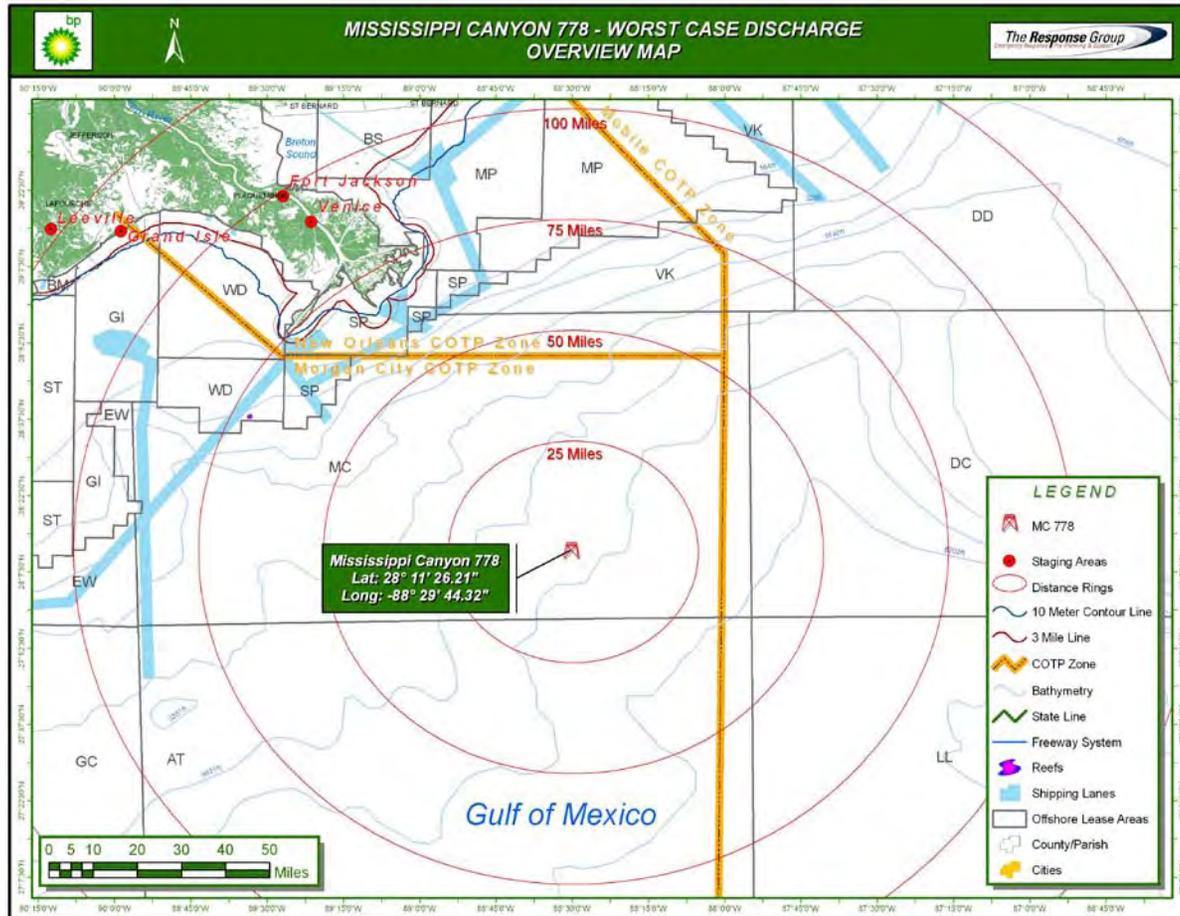
Dispersants may be a viable response option. If appropriate, 4 to 5 sorties (1,000 gallons per sortie) from the DC-3 and 4 to 5 sorties (2,000 gallons per sortie) from the DC-4 within the first 12 hour operating day of the response. Using a 1:20 application rate, 90% effectiveness, and assuming 4-5 sorties per day the systems could disperse approximately 5,486 to 6,857 barrels of oil per day based on the NOAA Dispersant Planner. Additionally, 3 to 4 sorties (300 gallons per sortie) from MSRC's BE-90 and one sortie (3250 gallons per sortie) from MSRC's C-130A could be completed within the first 12 hour operating day of the response. Using the same assumptions as above, these two aircraft could disperse approximately 1,778 to 1,907 barrels of oil in the first day. On each subsequent day, the BE-90 and the C-130A would be able to complete 4-5 sorties each (300 and 3250 gallons per sortie, respectively), for a total amount of 6,080-7,600 barrels of oil per day dispersed.

If the spill went unabated, shoreline impact would depend upon existing environmental conditions. Nearshore response may include the deployment of shoreline boom on beach areas, or protection and sorbent boom on vegetated areas. Strategies would be based upon surveillance and real time trajectories provided by The Response Group that depict areas of potential impact given actual sea and weather conditions. Strategies from the Area Contingency Plan, The Response Group and Unified Command would be consulted to ensure that environmental and special economic resources would be correctly identified and prioritized to ensure optimal protection. The Response Group shoreline response guides depict the protection response modes applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in areas of environmental concern. Supervisory personnel have the option to modify the deployment and operation of equipment allowing a more effective response to site-specific circumstances. (For more information on resource identification, see **Section 11**; for more information on resource protection methods, see **Section 13**.)



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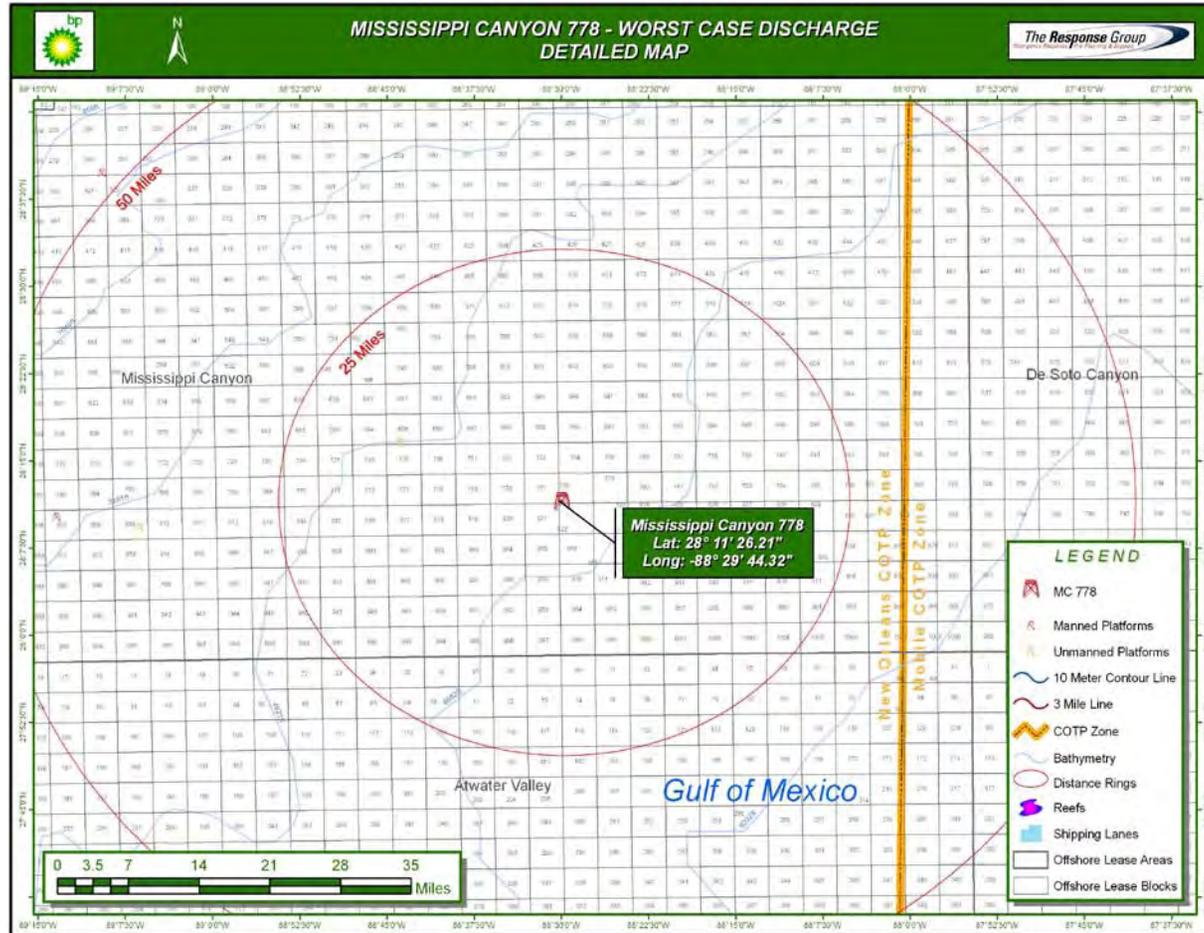
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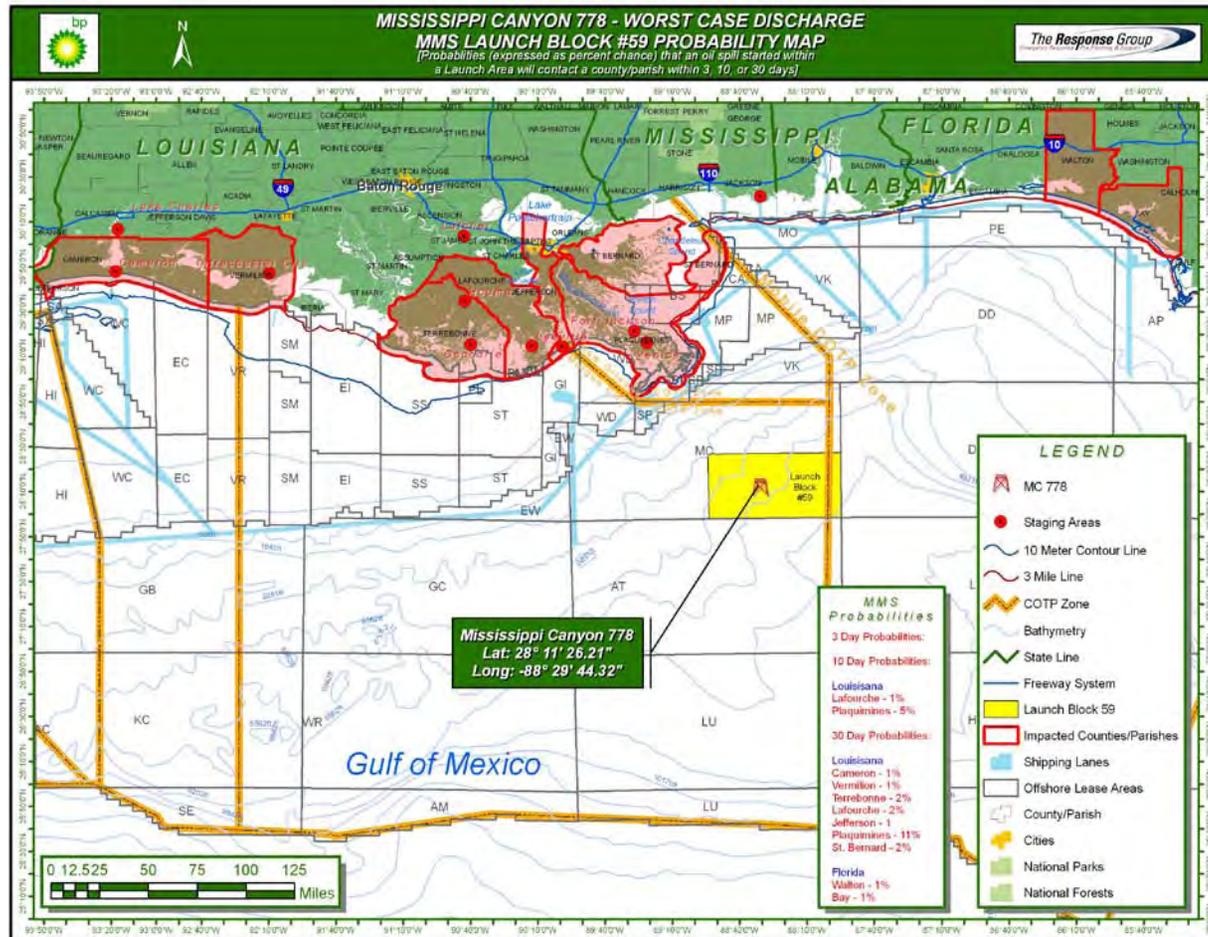
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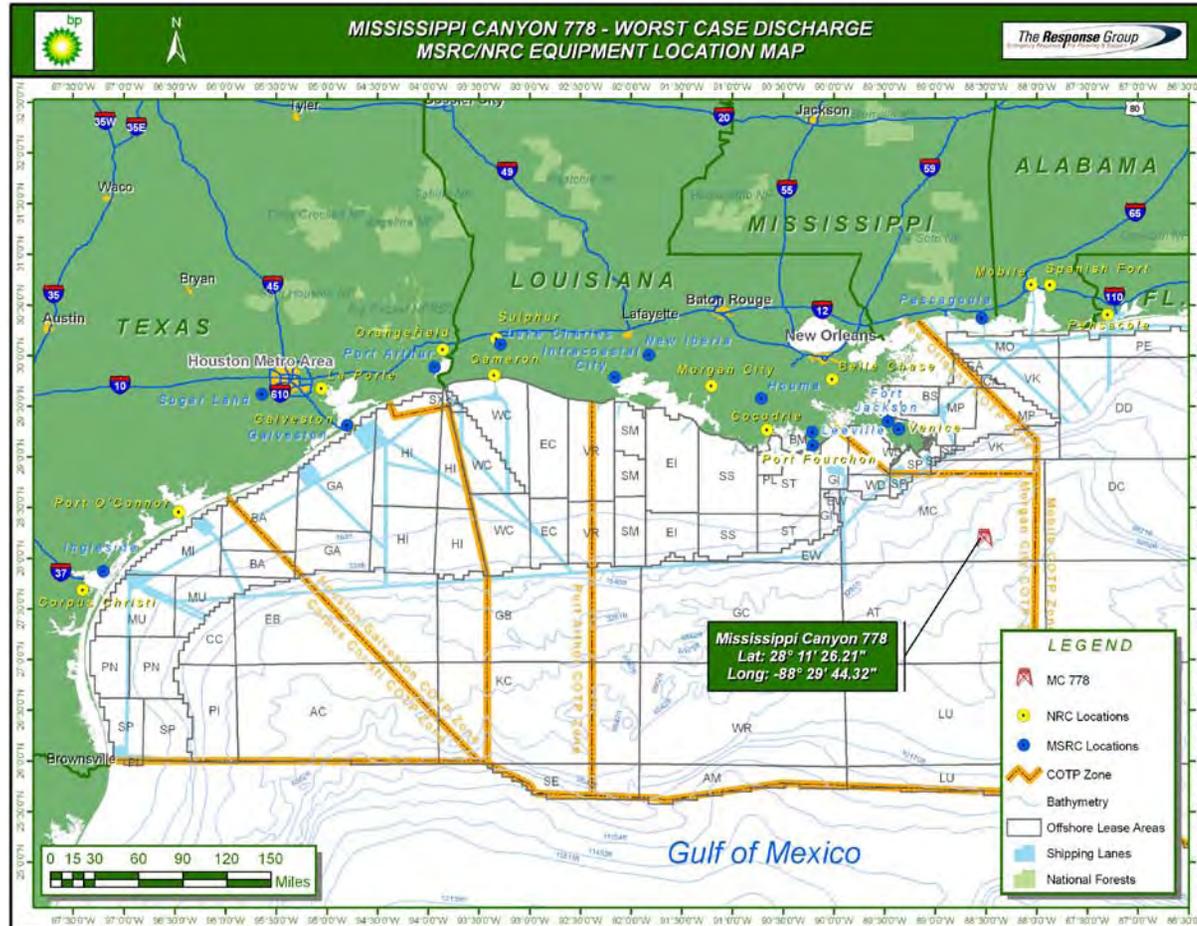
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MC 778 Thunder Horse (>10 Miles) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
Seahorse 5 ID Boat	NRC 800-899-4672	Fourchon, LA	Ord Disk Skimmer	1	1,954	100	Fourchon, LA	100	1	0	7	1	9
			21' Boom	100'									
			Personnel	4									
			146' Utility Boat	1									
Celeste Elizabeth ID Boat	NRC 800-899-4672	Fourchon, LA	Ord Disk Skimmer	1	1,954	416	Fourchon, LA	100	1	0	7	1	9
			21' Boom	100'									
			Personnel	4									
			Utility Boat -126'	1									
MV Recovery MOSS Unit SS-50	AMPOL 800-482-6765	Fourchon, LA	MOSS SS-50 Skimmer	1	3,017	200	Fourchon, LA	100	2	1	7	1	11
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Transrec Skimmer	1	10,567	4,000	Fort Jackson, LA	95	2	1	7	1	11
			67" Boom	1320'									
			210' Vessel	1									
			Personnel	12									
Stress 1	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	15,840		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									
FOILEX 250	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	3,977		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									
FOILEX 200	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	1,989		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
DESMI OCEAN	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	3,017		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									
GT-185	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	1,371		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
WP-4	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	3,017		Fort Jackson, LA	95	2	1	7	1	11
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
GT-185	MSRC 800-OIL-SPIL	Baton Rouge, LA	Offshore Skimmer	1	1,371		Fourchon, LA	100	4.5	1	7	1	13.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Transrec Skimmer	1	10,567	4,000	Pascagoula, MS	150	2	1	11	1	14.5
			67" Boom	1320'									
			210' Vessel	1									
			Personnel	12									
Stress 1	MSRC 800-OIL-SPIL	Lake Charles, LA	Offshore Skimmer	1	15,840		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									
FOILEX 250	MSRC 800-OIL-SPIL	Lake Charles, LA	Offshore Skimmer	1	3,977		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									

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MC 778 Thunder Horse (>10 Miles) - Offshore On-Water Recovery Activation List													
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									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
DESMI OCEAN	MSRC 800-OIL- SPIL	Lake Charles, LA	Offshore Skimmer	1	3,017		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	1320'									
			Personnel	4									
			Utility Boat	1									
GT-185	MSRC 800-OIL- SPIL	Pascagoula, MS	Offshore Skimmer	1	1,371		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Stress 1	MSRC 800-OIL- SPIL	Pascagoula, MS	Offshore Skimmer	1	15,840		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
WP-1	MSRC 800-OIL- SPIL	Pascagoula, MS	Offshore Skimmer	1	3,017		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
AARDVAC	MSRC 800-OIL- SPIL	Pascagoula, MS	Offshore Skimmer	1	3,840		Fourchon, LA	100	6.5	1	7	1	15.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Seahorse 4 ID Boat	NRC 800-899- 4672	Morgan City, LA	Ord Disk Skimmer	1	1,954	100	Morgan City, LA	210	1	0	15	1	17
			21" Boom	100'									
			Personnel	4									
			145' Utility Boat	1									
GT-185	MSRC 800-OIL- SPIL	Port Arthur, TX	Offshore Skimmer	1	1,371		Fourchon, LA	100	8	1	7	1	17
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
FOILEX 250	MSRC 800-OIL- SPIL	Galveston, TX	Offshore Skimmer	1	3,977		Fourchon, LA	100	10	1	7	1	19
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
GT-185	MSRC 800-OIL- SPIL	Galveston, TX	Offshore Skimmer	1	1,371		Fourchon, LA	100	10	1	7	1	19
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Stress 1	MSRC 800-OIL- SPIL	Galveston, TX	Offshore Skimmer	1	15,840		Fourchon, LA	100	10	1	7	1	19
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
WP-4	MSRC 800-OIL- SPIL	Galveston, TX	Offshore Skimmer	1	3,017		Fourchon, LA	100	10	1	7	1	19
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
NRC "Energy" ID Boat	NRC 800-899- 4672	Morgan City, LA	Vikoma Sea Skim	1	7,547	300	Morgan City, LA	210	2	1	15	1	19
			21" Boom	2100'									
			Personnel	4									
			Boom Boat	1									
MV Responder MOSS Unit GT-185	AMPOL 800-482- 6765	Intracoastal City, LA	GT-185 Skimmer	1	1,371	200	Intracoastal City, LA	230	2	1	17	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
GT-260	AMPOL 800-482- 6765	New Iberia, LA	GT-260 Skimmer	1	2,743		Intracoastal City, LA	230	2	1	17	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
			Crew Boat	1									

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MC 778 Thunder Horse (>10 Miles) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
WP-1	MSRC 800-OIL-SPIL	Tampa, FL	Offshore Skimmer	1	3,017		Fourchon, LA	100	13.5	1	7	1	22.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Seahorse 6 ID Boat	NRC 800-899-4672	Cameron, LA	Ord Disk Skimmer	1	1,954	100	Cameron, LA	290	1	0	21	1	22.5
			21" Boom	100'									
			Personnel	4									
			146' Utility Boat	1									
NRC "DEFENDER" OSRB	NRC 800-899-4672	Mobile AL	Offshore Skimmer	1	29,465	16,500	Mobile, AL	180	2	1	20		23
			43" Boom	2700'									
			Personnel	6									
			198' Barge	1									
			Boom Boat	1									
Offshore Tugs	2												
Gulf Coast Responder Transrec-350	MSRC 800-OIL-SPIL	Lake Charles, LA	Transrec Skimmer	1	10,567	4,000	Lake Charles, LA	310	2	1	22	1	26
			67" Boom	1320'									
			210' Vessel	1									
			Personnel	12									
			Tow Bladder	1									
Texas Responder Transrec-350	MSRC 800-OIL-SPIL	Galveston, TX	Transrec Skimmer	1	10,567	4,000	Galveston, TX	365	2	1	26	1	30
			67" Boom	1320'									
			210' Vessel	1									
			Personnel	12									
			32' Support Boat	1									
NRC "ADMIRAL" OSRV	NRC 800-899-4672	Galveston, TX	Offshore Skimmer	1	26,125	300	Galveston, TX	365	2	1	26	1	30
			43" Boom	2700'									
			Personnel	6									
			110' Utility Boat	1									
			Crew Boat	1									
NRC "Liberty" ID Boat	NRC 800-899-4672	Tampa, FL	Ord Mag Skimmer	1	4,752	322	Tampa, FL	415	1	0	30	1	31.5
			43" Boom	1000'									
			Personnel	4									
			110' Utility Boat	1									
MSRC "Lightning"	MSRC 800-OIL-SPIL	Tampa, FL	LORI Brush Skimmer	1	5,000	50	Tampa, FL	415	1	0	30	1	31.5
			67" Boom	660'									
			Personnel	4									
			47' Fast Response Boat	1									
MSRC "Quick Strike"	MSRC 800-OIL-SPIL	Ingleside, TX	LORI Brush Skimmer	1	5,000	50	Ingleside, TX	505	2	0	36	1	39
			67" Boom	660'									
			Personnel	4									
			47' Fast Response Boat	1									
Southern Responder Transrec-350	MSRC 800-OIL-SPIL	Ingleside, TX	Transrec Skimmer	1	10,567	4,000	Ingleside, TX	505	2	1	36	1	40
			67" Boom	1320'									
			210' Vessel	1									
			Personnel	12									
			Tow Bladder	1									
NRC "VALIANT" OSRB	NRC 800-899-4672	Corpus Christi, TX	Offshore Skimmer	1	24,000	20,892	Corpus Christi, TX	505	2	1	56	1	60
			43" Boom	2600'									
			Personnel	6									
			199' Barge	1									
			Boom Boat	1									
			Offshore Tugs	2									
DERATED RECOVERY RATE (BBL/DAY)												339,207	
SKIMMING VESSEL STORAGE CAPACITY (BARRELS)												59,530	

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Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
MSRC-452 Offshore Barge	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Barge	1		45,000	Fort Jackson, LA	80	2	1	9		12
			Personnel	4									
			Offshore Tug	1									
MSRC-402 Offshore Barge	MSRC 800-OIL-SPIL	Pascagoula, MS	Offshore Barge	1		40,300	Pascagoula, MS	150	2	1	17		19.5
			Personnel	4									
			Offshore Tug	1									
MSRC-570 Offshore Barge	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Barge	1		56,900	Galveston, TX	365	2	1	41		43.5
			Personnel	4									
			Offshore Tug	1									
MSRC Offshore Tank Barge	MSRC 800-OIL-SPIL	Tampa, FL	Offshore Barge	1		36,000	Tampa, FL	415	2	1	46		49
			Personnel	4									
			Tug - 3000 HP	1									
MSRC-403 Offshore Barge	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Barge	1		40,300	Ingleside, TX	505	2	1	56		59
			Personnel	4									
			Offshore Tug	1									
STORAGE CAPACITY (BARRELS)												218,500	
TOTAL STORAGE CAPACITY (INCLUDING SKIMMING VESSELS) (BARRELS)												278,030	

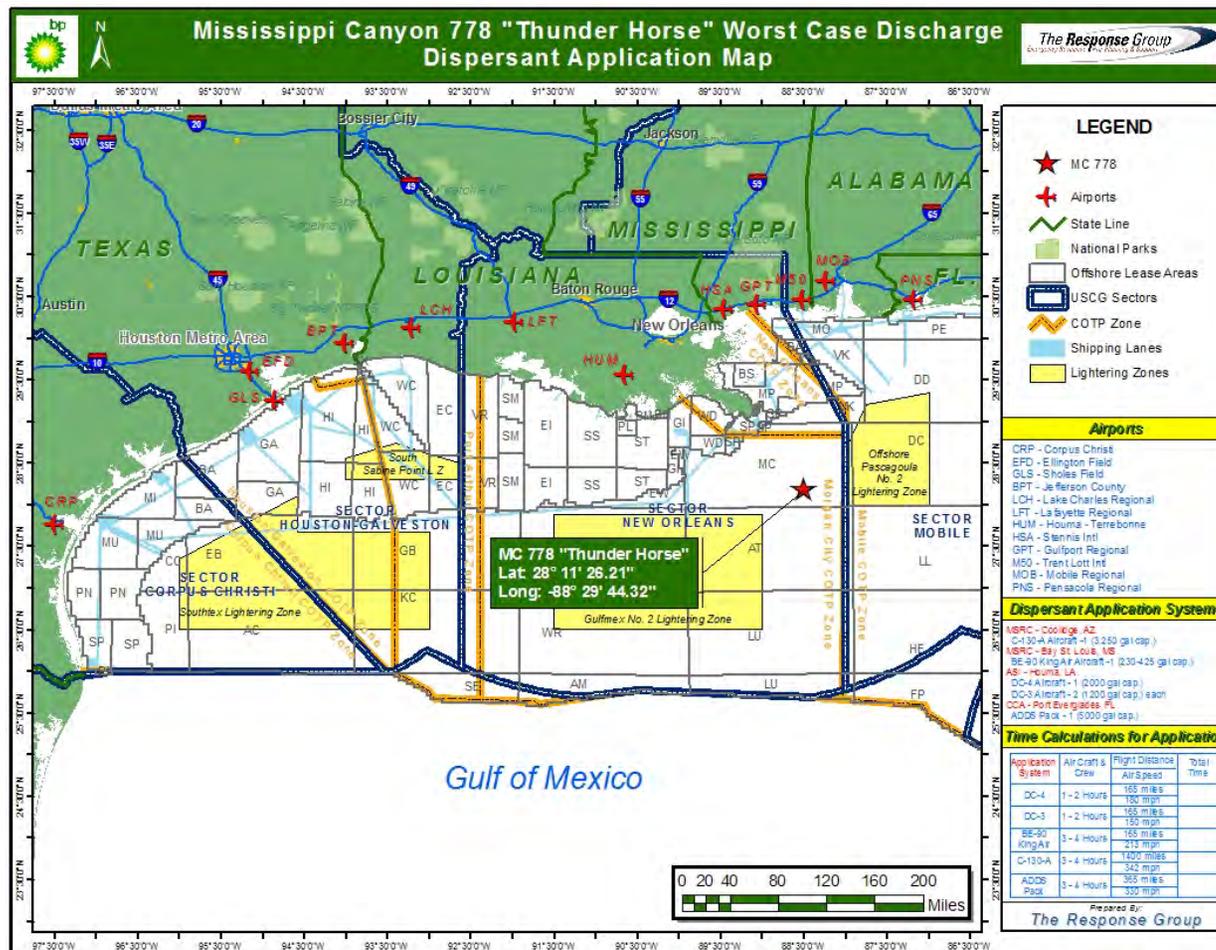
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MC 778 Thunder Horse (>10 Miles) - Offshore Aerial Dispersant Activation List												
Aerial Dispersant System	Supplier & Phone	Warehouse	Aerial Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)					Total ETA
							Staging ETA	Loadout Time	ETA to Site	Deployment Time		
DC-3 Aircraft Air Speed - 150 MPH	Airborne Support 985-851-6391	Houma, LA	DC-3 Dispersant Aircraft	1	Houma, LA	165	2	0.4	1.10	0.2	3.70	
			Dispersant - Gallons	2000								
			Spotter Aircraft	1								
			Spotter Personnel	2								
			Crew - Pilots	2								
DC-3 Aircraft Air Speed - 150 MPH	Airborne Support 985-851-6391	Houma, LA	DC-4 Dispersant Aircraft	1	Houma, LA	165	2	0.5	0.95	0.3	3.75	
			Dispersant - Gallons	2000								
			Spotter Aircraft	1								
			Spotter Personnel	2								
			Crew - Pilots	2								
BE-90 King Air Aircraft Air Speed - 213 MPH	MSRC 800-OIL-SPIL	Bay St. Louis, MS	BE-90 Dispersant Aircraft	1	Stennis INTL., MS 1st Flight	165	4.00	0.20	0.80	0.20	5.20	
			Dispersant - Gallons	230-425								
			Spotter Aircraft	1	Stennis INTL., MS 2nd Flight	165	0.80	0.20	0.80	0.20	2.00	
			Spotter Personnel	2								
			Crew - Pilots	2								
ADDS PACK Air Speed - 330 MPH	Clean Carribean 985-851-6391	Pt. Everglades, FL	USCG C-130 Aircraft	1	Clearwater, FL	365	24-48	1	1.11	0.5	26.65 to 50.65	
			ADDS PACK	1								
			Dispersant - Gallons	5000								
			Spotter Aircraft	1								
			Spotter Personnel	2								
			Crew - Pilots	2								
C130-A Aircraft Air Speed - 342 MPH	MSRC 800-OIL-SPIL	Coolidge, AZ	C130-A Dispersant Aircraft	1	Ellington Field, TX 1st Flight	415	8	0.3	1.25	0.5	10.10	
			Dispersant - Gallons	3250								
			Spotter Aircraft	1								
			Spotter Personnel	2	Stennis INTL., MS 2nd Flight	165	0.50	0.3	0.50	0.5	1.85	
			Crew - Pilots	2								

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MC 778 Thunder Horse (>10 Miles) - Offshore Boat Spray Dispersant Activation List											
Boat Spray Dispersant System	Supplier & Phone	Warehouse	Boat Spray Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
							Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
M/V Recovery	AMPOL 800-482-6765	Fourchon, LA	Dispersant Spray System	1	Fourchon, LA	100	1	1	7	1	10
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Dispersant Spray System	1	Fort Jackson, LA	95	2	1	7	1	11
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
USCG SMART Team	USCG	Mobile, AL	32' Support Boat	1	Fourchon, LA	100	3	1	7	1	12
			Personnel	4							
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Dispersant Spray System	1	Pascagoula, MS	150	2	1	10.5	1	14.5
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
Vessel Based Dispersant Spray System	NRC 800-899-4672	Morgan City, LA	Dispersant Spray System	1	Morgan City, LA	210	1	1	15	1	18
			Dispersant (Gallons)	500							
			Personnel	4							
			Crew Boat	1							
M/V Responder	AMPOL 800-482-6765	Cameron, LA	Dispersant Spray System	1	Cameron, LA	290	1	1	20.5	1	23.5
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
Gulf Coast Responder Transrec-350	MSRC 800-OIL-SPIL	Lake Charles, LA	Dispersant Spray System	1	Lake Charles, LA	305	2	1	22	1	26
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
Texas Responder Transrec-350	MSRC 800-OIL-SPIL	Galveston, TX	Tow Bladder	1	Galveston, TX	365	2	1	26	1	30
			Dispersant Spray System	1							
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			32' Support Boat	1							

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Dispersant Stockpiles by Location (Updated 03/2009)

Supplier & Phone	Location of Dispersants	Type	Quantity in Gallons
Airborne Support, Inc. (ASI) 985-851-6391	Houma, LA	Corexit 9527	3,355
MSRC (800) OIL-SPIL	Slaughter Beach, DE - DBRC Site	Corexit 9527	330
	Chesapeake City, MD - MSRC Site	Corexit 9527	9,130
	Portland, ME - OSRV	Corexit 9527	330
	Perth Amboy, NJ - OSRV	Corexit 9527	330
	Chesapeake City, MD - OSRV	Corexit 9527	330
	Virginia Beach, VA - OSRV	Corexit 9527	330
	San Juan, PR - MSRC Site	Corexit 9527	900
	Kiln, MS - Stennis Airport	Corexit 9527	22,260
	Kiln, MS - Stennis Airport	Corexit 9500	3,960
	Miami, FL - OSRV	Corexit 9527	800
	Pascagoula, MS - OSRV	Corexit 9527	800
	Fort Jackson, LA - OSRV	Corexit 9527	800
	Lake Charles, LA - OSRV	Corexit 9527	800
	Galveston, TX - OSRV	Corexit 9527	800
	Corpus Christi - OSRV	Corexit 9527	330
	Galveston, TX - MSRC Site	Corexit 9500	18,980
	Coolidge, AZ - Coolidge Airport	Corexit 9527	3,300
	Long Beach, CA - Tesoro Terminal	Corexit 9500	10,890
	Terminal Island, CA - OSRV	Corexit 9527	600
	Richmond, CA - MSRC Warehouse	Corexit 9527	11,500
Richmond, CA - OSRV	Corexit 9527	605	
Everett, WA - Everett Warehouse	Corexit 9527	6,495	
Ferndale, WA - CP Refinery	Corexit 9527	6,430	
Port Angeles, WA - OSRV	Corexit 9527	605	
Astoria, OR - OSRV	Corexit 9527	605	
Honolulu, HI - OSRV	Corexit 9527	605	
NRC National Response Corp. John Hielscher 631-224-9141 ext. 142	Morgan City, LA	COREXIT 9527	1,320
	Morgan City, LA	SPC 1000	220
	Morgan City, LA	BIO Disperse	1,045
	Toa Baja, PR	COREXIT 9527	5,005
	St. Croix, VI	COREXIT 9527	1,650
ONDEO Nalco	Sugarland, TX	Corexit 9500	11,000
Clean Caribbean & Americas	Ft. Lauderdale, FL	Corexit 9500	30,360
OSR / EARL +44 (0)20 7724 0102	Southampton, UK	Corexit 9500	5,283
	Bahrain, MENAS Base	Corexit 9500 (1 week activation)	3,963
	Singapore, SG	Corexit 9500 (1 week activation)	8,440
TOTAL QUANTITY (GALLONS)			174,486

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D. Worst Case Discharge scenario for Exploratory Well from Offshore Drilling

1) Worst Case Summary

BP has determined that its worst case scenario for discharge from a mobile drilling rig operation would occur from the Mississippi Canyon 462 lease. MC 462 is a planned exploration well targeted for Miocene oil reservoirs. Given the anticipated reservoir thickness and historical productivity index for the Miocene, worst case discharge is expected to be 250,000 barrels of crude oil per day. Calculations are based on formulas defined by MMS regulations. The oil has an estimated API gravity of 26°.

2) Facility Information

- Area and Block: MC 462
- Latitude: 28° 30' 47.42"
- Longitude: 88° 52' 40.84"
- Distance to Shore: 33 miles
- API Gravity: 26° (Estimated)
- Oil Storage Volume: 0 barrels

3) Worst Case Discharge Volume

<i>Criteria</i>	<i>Barrels</i>
Highest capacity well uncontrolled blowout volume associated with exploration well	250,000
TOTAL WORST CASE DISCHARGE	250,000

4) Land Segment Identification

Land areas that could be potentially impacted by an MC 462 oil spill were determined using the MMS Oil Spill Risk Analysis Model (OSRAM) trajectory results. The OSRAM estimates the probability that oil spills from designated locations would contact shoreline and offshore natural resources. These probabilities indicate, in terms of percentage, the chance that an oil spill occurring in a particular launch area will contact a certain county or parish within 3, 10, and 30 days.



OCS Launch Block #57 was utilized as MC 462’s point of origin. Land segments identified by the model are listed below:

Area and Spill Site	Land Segment Contact Land Segment No. & County/ Parish & State	Percent Impact Chance		
		3 Days	10 Days	30 Days
Mississippi Canyon 462	Cameron, LA	--	--	1
	Vermilion, LA	--	--	1
	Terrebonne, LA	--	1	2
	Lafourche, LA	--	1	2
	Jefferson, LA	--	--	--
	Plaquemines, LA	4	14	21
	St. Bernard, LA	--	1	3
	Hancock, MS	--	--	1
	Harris, MS	--	--	1
	Jackson, MS	--	--	1
	Mobile, AL	--	--	1
	Baldwin, AL	--	--	1
	Escambia, FL	--	--	1
	Okaloosa, FL	--	--	1
	Walton, FL	--	--	1
	Bay, FL	--	--	1

5) Resource Identification

The land segment that has the highest probability of being impacted by a release from MC 462 is Plaquemines Parish, Louisiana, at 21 percent. Sources listing the resources within Plaquemines Parish are identified in Section 11.

6) Response

BP will make every effort to respond to the Worst Case Discharge as effectively as possible. BP has contracted with National Response Corporation (NRC) and Marine Spill Response Corporation (MSRC) as primary Oil Spill Removal Organizations. Contact information for the OSROs can be found in Figure 7-6A. Upon notification of the spill, BP would request a partial or full mobilization of the resources identified in the attached Appendix E, including, but not limited to, dispersant aircraft from ASI & MSRC and NRC & MSRC skimming vessels. The Qualified Individual, Person in Charge, Incident Commander or designee may contact other service companies if the Unified Command deems such services necessary to the response efforts.

An Adios model was run on a similar product. The results indicate 5% of the product would be evaporated or naturally dispersed within 12 hours, leaving approximately 237,500 barrels on the water.



Tables below outline equipment as well as temporary storage equipment to be considered in order to cope with an initial spill of 250,000 bbls. The list estimates individual times needed for procurement, load out, travel time to the site and deployment.

Offshore response strategies may include attempting to simulate utilizing MSRC & NRC's Oil Spill Response Vessels (OSRVs), Oil Spill Response Barges (OSRBs), ID Boats, and Quick Strike OSRVs, which have a combined derated recovery rate of 491,721 barrels/day. Temporary storage associated with the identified skimming and temporary storage equipment equals 299,066 barrels.

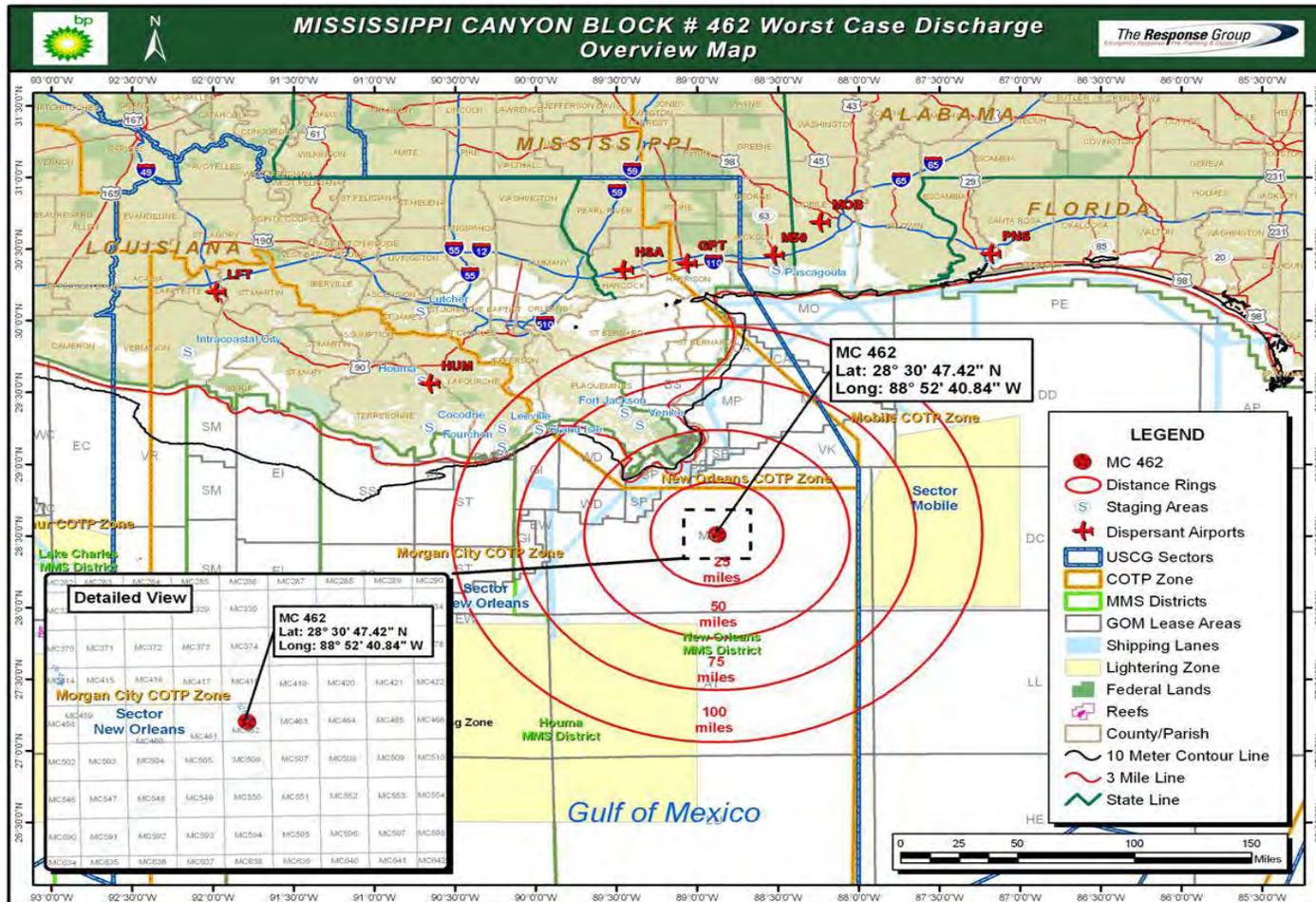
Dispersants may be a viable response option. If appropriate, 4 to 5 sorties (1,200 gallons to 2,000 gallons per sortie) from the DC-3 within the first 12 hour operating day of the response. Using a 1:20 application rate, 90% effectiveness, and assuming 4-5 sorties per day the systems could disperse approximately 5,486 to 6,857 barrels of oil per day based on the NOAA Dispersant Planner. Additionally, 3 to 4 sorties (300 gallons per sortie) from MSRC's BE-90 and one sortie (3250 gallons per sortie) from MSRC's C-130A could be completed within the first 12 hour operating day of the response. Using the same assumptions as above, these two aircraft could disperse approximately 1,778 to 1,907 barrels of oil in the first day. On each subsequent day, the BE-90 and the C-130A would be able to complete 4-5 sorties each (300 and 3250 gallons per sortie, respectively), for a total amount of 6,080-7,600 barrels of oil per day dispersed.

If the spill went unabated, shoreline impact would depend upon existing environmental conditions. Nearshore response may include the deployment of shoreline boom on beach areas, or protection and sorbent boom on vegetated areas. Strategies would be based upon surveillance and real time trajectories provided by The Response Group that depict areas of potential impact given actual sea and weather conditions. Strategies from the Area Contingency Plan, The Response Group and Unified Command would be consulted to ensure that environmental and special economic resources would be correctly identified and prioritized to ensure optimal protection. The Response Group shoreline response guides depict the protection response modes applicable for oil spill clean-up operations. Each response mode is schematically represented to show optimum deployment and operation of the equipment in areas of environmental concern. Supervisory personnel have the option to modify the deployment and operation of equipment allowing a more effective response to site-specific circumstances. (For more information on resource identification, see **Section 11**; for more information on resource protection methods, see **Section 13**.)



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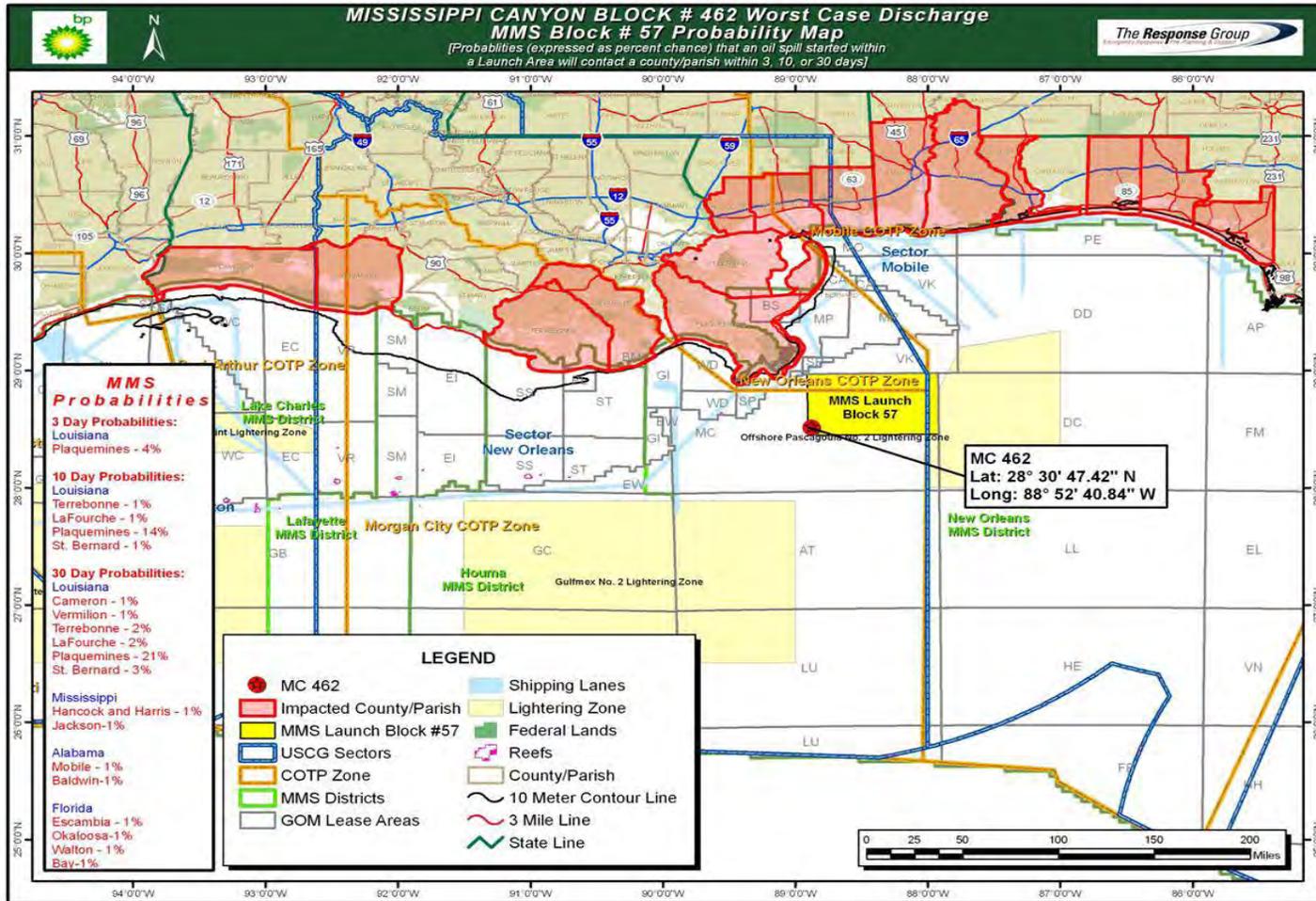
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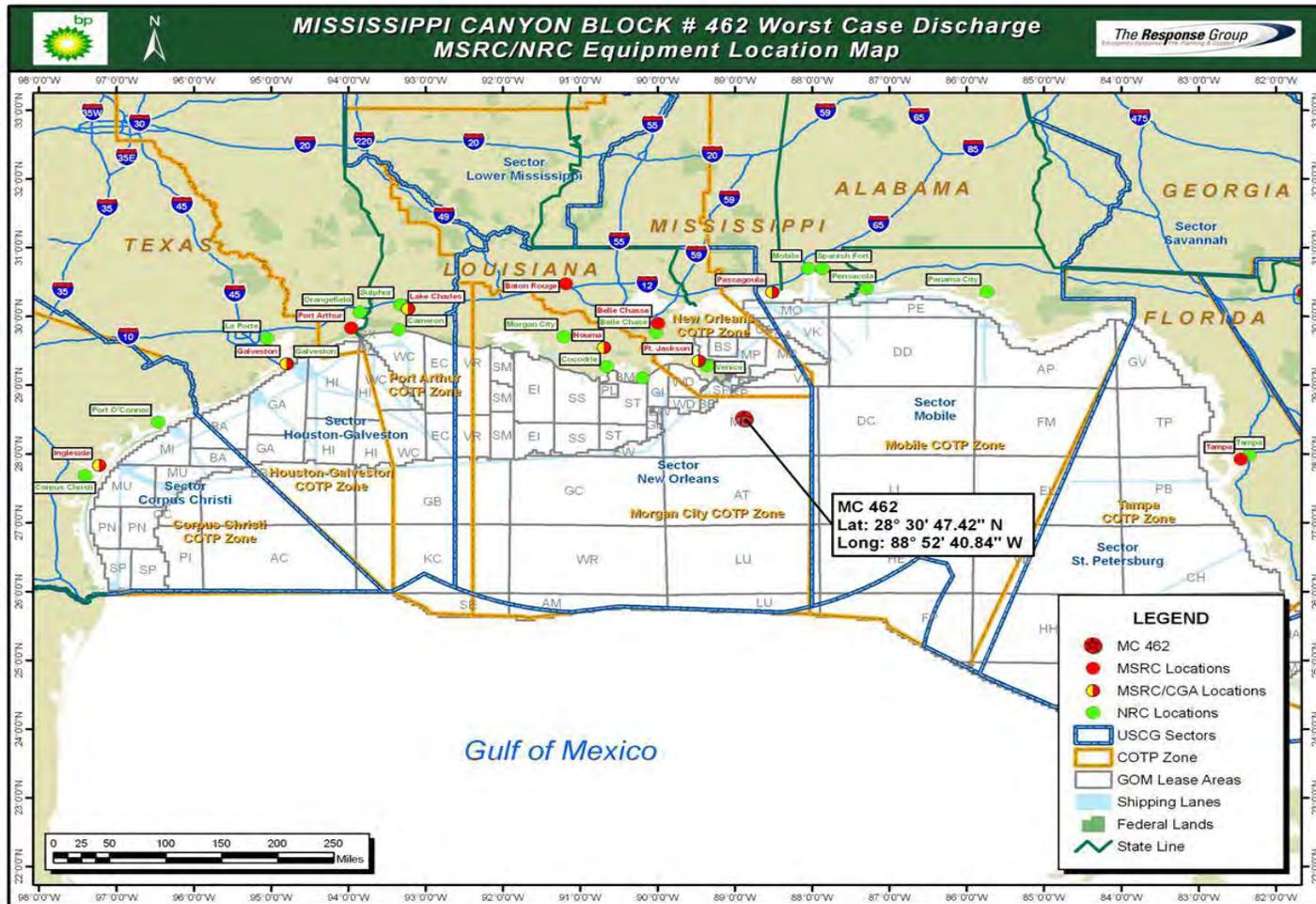
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MC 462 (Exploratory) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
Seahorse 5 ID Boat	NRC 800-899-4672	Fourchon, LA	Ord Disk Skimmer	1	1,954	100	Fourchon, LA	90	1	0	6.5	1	8.5
			21" Boom	100'									
			Personnel	4									
Celeste Elizabeth ID Boat	NRC 800-899-4672	Fourchon, LA	146' Utility Boat	1	1,954	416	Fourchon, LA	90	1	0	6.5	1	8.5
			Ord Disk Skimmer	1									
			21" Boom	100'									
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Personnel	4	10,567	4,000	Fort Jackson, LA	69	2	1	5	1	9
			32' Support Boat	1									
			Transrec Skimmer	1									
Stress 1	MSRC 800-OIL-SPIL	Fort Jackson, LA	67" Boom	1320'	15,840		Fort Jackson, LA	69	2	1	5	1	9
			Offshore Skimmer	1									
			Personnel	4									
FOILEX 250	MSRC 800-OIL-SPIL	Fort Jackson, LA	Utility Boat	1	3,977		Fort Jackson, LA	69	2	1	5	1	9
			67" Offshore Boom	1320'									
			Personnel	4									
FOILEX 200	MSRC 800-OIL-SPIL	Fort Jackson, LA	Utility Boat	1	1,989		Fort Jackson, LA	69	2	1	5	1	9
			Offshore Skimmer	1									
			67" Offshore Boom	660'									
DESMI OCEAN	MSRC 800-OIL-SPIL	Fort Jackson, LA	Personnel	4	3,017		Fort Jackson, LA	69	2	1	5	1	9
			Utility Boat	1									
			Offshore Skimmer	1									
GT-185	MSRC 800-OIL-SPIL	Fort Jackson, LA	67" Offshore Boom	660'	1,371		Fort Jackson, LA	69	2	1	5	1	9
			Personnel	4									
			Utility Boat	1									
WP-4	MSRC 800-OIL-SPIL	Fort Jackson, LA	Offshore Skimmer	1	3,017		Fort Jackson, LA	69	2	1	5	1	9
			67" Offshore Boom	660'									
			Personnel	4									
SOS System AB/AW-363	NRC 800-899-4672	Belle Chasse, LA	Utility Boat	1	30,857	124	Venice, LA	123	2.5	1	9	1	13.5
			Marco/VTU Skimmer	1									
			43" Boom	200'									
SOS System FF-332	NRC 800-899-4672	Belle Chasse, LA	Personnel	4	3,154	100	Venice, LA	123	2.5	1	9	1	13.5
			Marine Tank	1									
			110" Utility Boat	1									
M/V Recovery MOSS Unit SS-50	AMPOL 800-482-6765	Fourchon, LA	Offshore Skimmer	1	3,017	200	Fourchon, LA	90	2	1	6.5	1	10.5
			36" Expandi Boom	720'									
			Personnel	4									
GT-185	MSRC 800-OIL-SPIL	Baton Rouge, LA	110" Utility Boat	1	1,371		Fourchon, LA	90	4.5	1	6.5	1	13
			Offshore Skimmer	1									
			67" Offshore Boom	660'									
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Personnel	4	10,567	4,000	Pascagoula, MS	135	2	1	9.5	1	13.5
			Transrec Skimmer	1									
			67" Boom	1320'									
Stress 1	MSRC 800-OIL-SPIL	Lake Charles, LA	210" Vessel	1	15,840		Fourchon, LA	90	6.5	1	6.5	1	15
			Personnel	4									
			Utility Boat	1									

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 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

**Appendix H
Worst Case
Discharge**

MC 462 (Exploratory) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
FOILEX 250	MSRC 800-OIL-SPL	Lake Charles, LA	Offshore Skimmer	1	3,977		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	1320'									
			Personnel	4									
DESMI OCEAN	MSRC 800-OIL-SPL	Lake Charles, LA	Offshore Skimmer	1	3,017		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	1320'									
			Personnel	4									
GT-185	MSRC 800-OIL-SPL	Pascagoula, MS	Offshore Skimmer	1	1,371		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	660'									
			Personnel	4									
Stress 1	MSRC 800-OIL-SPL	Pascagoula, MS	Offshore Skimmer	1	15,840		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	660'									
			Personnel	4									
WP-1	MSRC 800-OIL-SPL	Pascagoula, MS	Offshore Skimmer	1	3,017		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	660'									
			Personnel	4									
AARDVAC	MSRC 800-OIL-SPL	Pascagoula, MS	Offshore Skimmer	1	3,840		Fourchon, LA	90	6.5	1	6.5	1	15
			67" Offshore Boom	660'									
			Personnel	4									
SOS System RM-313	NRC 800-899-4672	Spanish Fort, AL	Rope Mop/VTU Skimmer	1	8,352	124	Fourchon, LA	90	7	1	6.5	1	15.5
			21" Boom	300'									
			Personnel	4									
			Marine Tank	1									
Seahorse 4 ID Boat	NRC 800-899-4672	Morgan City, LA	Ord Disk Skimmer	1	1,954	100	Morgan City, LA	204	1	0	14.5	1	16.5
			21" Boom	100'									
			Personnel	4									
			145' Utility Boat	1									
SOS System AW 321	NRC 800-899-4672	Beaumont, TX	VTU Weir Skimmer	1	6,857	124	Fourchon, LA	90	8	1	6.5	1	16.5
			21" Boom	100'									
			Personnel	4									
			Marine Tank	1									
GT-185	MSRC 800-OIL-SPL	Port Arthur, TX	Offshore Skimmer	1	1,371		Fourchon, LA	90	8	1	6.5	1	16.5
			67" Offshore Boom	660'									
			Personnel	4									
SOS System WS/AW-359	NRC 800-899-4672	LaPorte, TX	Vikoma/VTU Skimmer	1	12,322	124	Fourchon, LA	90	9	1	6.5	1	17.5
			21" Boom	200'									
			Personnel	4									
			Marine Tank	1									
SOS System AW 325	NRC 800-899-4672	LaPorte, TX	VTU Weir Skimmer	1	6,857	124	Fourchon, LA	90	9	1	6.5	1	17.5
			21" Boom	200'									
			Personnel	4									
			Marine Tank	1									
SOS System FF/AW-327	NRC 800-899-4672	Panama City, FL	Vikoma/VTU Skimmer	1	10,011	124	Fourchon, LA	90	9	1	6.5	1	17.5
			21" Boom	300'									
			Personnel	4									
			Marine Tank	1									
NRC "Energy" ID Boat	NRC 800-899-4672	Morgan City, LA	Vikoma Sea Skim	1	7,547	300	Morgan City, LA	204	2	1	14.5	1	18.5
			21" Boom	2100'									
			Personnel	4									
			Boom Boat	1									
SOS System FM/AW-329	NRC 800-899-4672	Morgan City, LA	Rope Mop/VTU Skimmer	1	8,352	124	Morgan City, LA	204	2	1	14.5	1	18.5
			21" Boom	200'									
			Personnel	4									
			Marine Tank	1									

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Regional Oil Spill Response Plan – Gulf of Mexico

**Appendix H
Worst Case
Discharge**

MC 462 (Exploratory) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
SOS System FF-358	NRC 800-899-4672	Morgan City, LA	Vikoma Skimmer	1	3,154	100	Morgan City, LA	204	2	1	14.5	1	18.5
			21" Boom	200'									
			Personnel	4									
			Marine Tank	1									
SOS System RM-358	NRC 800-899-4672	Morgan City, LA	Rope Mop Skimmer	1	1,495	100	Morgan City, LA	204	2	1	14.5	1	18.5
			21" Boom	200'									
			Personnel	4									
			Marine Tank	1									
FOILEX 250	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Skimmer	1	3,977		Fourchon, LA	90	10	1	6.5	1	18.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
GT-185	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Skimmer	1	1,371		Fourchon, LA	90	10	1	6.5	1	18.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Stress 1	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Skimmer	1	15,840		Fourchon, LA	90	10	1	6.5	1	18.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
WP-4	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Skimmer	1	3,017		Fourchon, LA	90	10	1	6.5	1	18.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
GT-260	AMPOL 800-482-6765	New Iberia, LA	GT-260 Skimmer	1	2,743		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
WP-4	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	3,565		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
WP-4	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	3,565		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
WP-4	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	3,565		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
WP-1	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	1,440		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
GT-185	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	1,371		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
WP-3	AMPOL 800-482-6765	New Iberia, LA	Offshore Skimmer	1	2,880		Intracoastal City, LA	230	2	1	16.5	1	20.5
			36" Expandi Boom	720'									
			Personnel	4									
			110' Utility Boat	1									
FOILEX 250	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Skimmer	1	3,977		Fourchon, LA	90	13	1	6.5	1	21.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									
Vikoma 3 Weir	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Skimmer	1	5,657		Fourchon, LA	90	13	1	6.5	1	21.5
			67" Offshore Boom	660'									
			Personnel	4									
			Utility Boat	1									

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge

MC 462 (Exploratory) - Offshore On-Water Recovery Activation List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
GT-185	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 1320' 4 1	1,371		Fourchon, LA	90	13	1	6.5	1	21.5
Stress 1	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 1320' 4 1	15,840		Fourchon, LA	90	13	1	6.5	1	21.5
WP-1	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 1320' 4 1	3,017		Fourchon, LA	90	13	1	6.5	1	21.5
SOS System RM-313	NRC 800-899-4672	Corpus Christi, TX	Rope Mop/VTU Skimmer 21" Boom Personnel Marine Tank 110' Utility Boat	1 300' 4 1 1	8,352	124	Fourchon, LA	90	13	1	6.5	1	21.5
SOS System RM/AW-340	NRC 800-899-4672	Corpus Christi, TX	Rope Mop/VTU Skimmer 21" Boom Personnel Marine Tank 110' Utility Boat	1 200' 4 1 1	8,352	124	Fourchon, LA	90	13	1	6.5	1	21.5
Seahorse 6 ID Boat	NRC 800-899-4672	Cameron, LA	Ord Disk Skimmer 21" Boom Personnel 146' Utility Boat	1 100' 4 1	1,954	100	Cameron, LA	283	1	0	20	1	22
SOS System AW-338	NRC 800-899-4672	Tampa, FL	VTU - Weir Skimmer 21" Boom Personnel Marine Tank 110' Utility Boat	1 100' 4 1 1	6,857	124	Fourchon, LA	90	13.5	1	6.5	1	22
GT-185	MSRC 800-OIL-SPIL	Tampa, FL	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 660' 4 1	1,371		Fourchon, LA	90	13.5	1	6.5	1	22
Stress 1	MSRC 800-OIL-SPIL	Tampa, FL	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 660' 4 1	15,840		Fourchon, LA	90	13.5	1	6.5	1	22
WP-1	MSRC 800-OIL-SPIL	Tampa, FL	Offshore Skimmer 67" Offshore Boom Personnel Utility Boat	1 660' 4 1	3,017		Fourchon, LA	90	13.5	1	6.5	1	22
NRC "DEFENDER" OSRB	NRC 800-899-4672	Mobile AL	Offshore Skimmer 43" Boom Personnel 198' Barge Boom Boat Offshore Tugs	1 2700' 6 1 1 2	29,465	16,500	Mobile, AL	159	2	1	17.5	1	21.5
SOS System FF/AW-362	NRC 800-899-4672	Sulphur, LA	Vikoma/VTU Skimmer 21" Boom Personnel Marine Tank 110' Utility Boat	1 200' 4 1 1	10,011	124	Cameron, LA	283	2	1	20	1	24
M/V Responder MOSS Unit GT-185	AMPOL 800-482-6765	Cameron, LA	GT-185 Skimmer 36" Expandi Boom Personnel 110' Utility Boat Crew Boat	1 720' 4 1 1	1,371	200	Cameron, LA	283	2	1	20	1	24
SOS System WS/AW-328	NRC 800-899-4672	Sulphur, LA	Vikoma/VTU Skimmer 21" Boom Personnel Marine Tank 110' Utility Boat	1 200' 4 1 1	12,322	124	Cameron, LA	283	2	1	20	1	24

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge

MC 462 (Exploratory) - Offshore On-Water Recovery Activation List																
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)							
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA			
SOS System AW-302	NRC 800-899-4672	Ft. Lauderdale, FL	VTU - Weir Skimmer	1	6,857	124	Fourchon, LA	90	15.5	1	6.5	1	24			
			21" Boom	100'												
			Personnel	4												
			Marine Tank	1												
SOS System RM/AW-352	NRC 800-899-4672	Ft. Lauderdale, FL	Rope Mop/VTU Skimmer	1	8,352	124	Fourchon, LA	90	15.5	1	6.5	1	24			
			21" Boom	300'												
			Personnel	4												
			Marine Tank	1												
Gulf Coast Responder Transrec-350	MSRC 800-OIL-SPIL	Lake Charles, LA	Transrec Skimmer	1	10,567	4,000	Lake Charles, LA	320	2	1	23	1	27			
			67" Boom	1320'												
			210' Vessel	1												
			Personnel	12												
NRC "Liberty" ID Boat	NRC 800-899-4672	Tampa, FL	Ord Mag Skimmer	1	4,752	322	Tampa, FL	400	1	0	28.5	1	30.5			
			43" Boom	1000'												
			Personnel	4												
			110' Utility Boat	1												
MSRC "Lightning"	MSRC 800-OIL-SPIL	Tampa, FL	LORI Brush Skimmer	1	5,000	50	Tampa, FL	400	1	0	28.5	1	30.5			
			67" Boom	660'												
			Personnel	4												
			47' Fast Response Boat	1												
Texas Responder Transrec-350	MSRC 800-OIL-SPIL	Galveston, TX	Transrec Skimmer	1	10,567	4,000	Galveston, TX	366	2	1	26	1	30			
			67" Boom	1320'												
			210' Vessel	1												
			Personnel	12												
NRC "ADMIRAL" OSRV	NRC 800-899-4672	Galveston, TX	32' Support Boat	1	26,125	300	Galveston, TX	366	2	1	26	1	30			
			Offshore Skimmer	1												
			43" Boom	2700'												
			Personnel	6												
MSRC "Quick Strike"	MSRC 800-OIL-SPIL	Ingleside, TX	110' Utility Boat	1	5,000	50	Ingleside, TX	508	2	0	36.5	1	39.5			
			Crew Boat	1												
			LORI Brush Skimmer	1												
			67" Boom	660'												
Southern Responder Transrec-350	MSRC 800-OIL-SPIL	Ingleside, TX	Personnel	4	10,567	4,000	Ingleside, TX	508	2	1	36.5	1	40.5			
			47' Fast Response Boat	1												
			Transrec Skimmer	1												
			67" Boom	1320'												
NRC "VALIANT" OSRB	NRC 800-899-4672	Corpus Christi, TX	210' Vessel	1	24,000	20,892	Corpus Christi, TX	533	2	1	59	1	63			
			Personnel	6												
			199' Barge	1												
			Boom Boat	1												
												Offshore Tugs	2			
												DERATED RECOVERY RATE (BBL/DAY)				491,721
												SKIMMING VESSEL STORAGE CAPACITY (BARRELS)				61,566

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Regional Oil Spill Response Plan – Gulf of Mexico

**Appendix H
Worst Case
Discharge**

MC 462 (Exploratory) - Offshore On-Water Recovery Storage List													
Skimming System	Supplier & Phone	Warehouse	Skimming Package	Quantity	Recovery Rate (Barrels/Day)	Storage (Barrels)	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
									Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
MSRC-452 Offshore Barge	MSRC 800-OIL-SPIL	Fort Jackson, LA	3000 BBL Bladders	1		3,000	Fort Jackson, LA	69	2	1	7.5		10.5
			Offshore Barge	1		45,000							
			Personnel	4									
			Offshore Tug	1									
Towable Bladders	MSRC 800-OIL-SPIL	Lake Charles, LA	500 BBL Bladders	16		11,000	Fourchon, LA	90	6.5	1	10		17.5
			3000 BBL Bladder	1									
MSRC-402 Offshore Barge	MSRC 800-OIL-SPIL	Pascagoula, MS	Offshore Barge	1		40,300	Pascagoula, MS	135	2	1	15		18
			Personnel	4									
			Offshore Tug	1									
Towable Bladders	MSRC 800-OIL-SPIL	Miami, FL	500 BBL Bladder	8		4,000	Fourchon, LA	90	16	1	10		27
MSRC-570 Offshore Barge	MSRC 800-OIL-SPIL	Galveston, TX	Offshore Barge	1		56,900	Galveston, TX	366	2	1	40.5		43.5
			Personnel	4									
			Offshore Tug	1									
MSRC Offshore Tank Barge	MSRC 800-OIL-SPIL	Tampa, FL	500 BBL Bladders	2		1,000	Tampa, FL	400	2	1	44.5		47.5
			Offshore Barge	1									
			Personnel	4									
			Tug - 3000 HP	1									
MSRC-403 Offshore Barge	MSRC 800-OIL-SPIL	Ingleside, TX	Offshore Barge	1		40,300	Ingleside, TX	508	2	1	56.5		59.5
			Personnel	4									
			Offshore Tug	1									
STORAGE CAPACITY (BARRELS)												237,500	
TOTAL STORAGE CAPACITY (INCLUDING SKIMMING VESSELS) (BARRELS)												299,066	

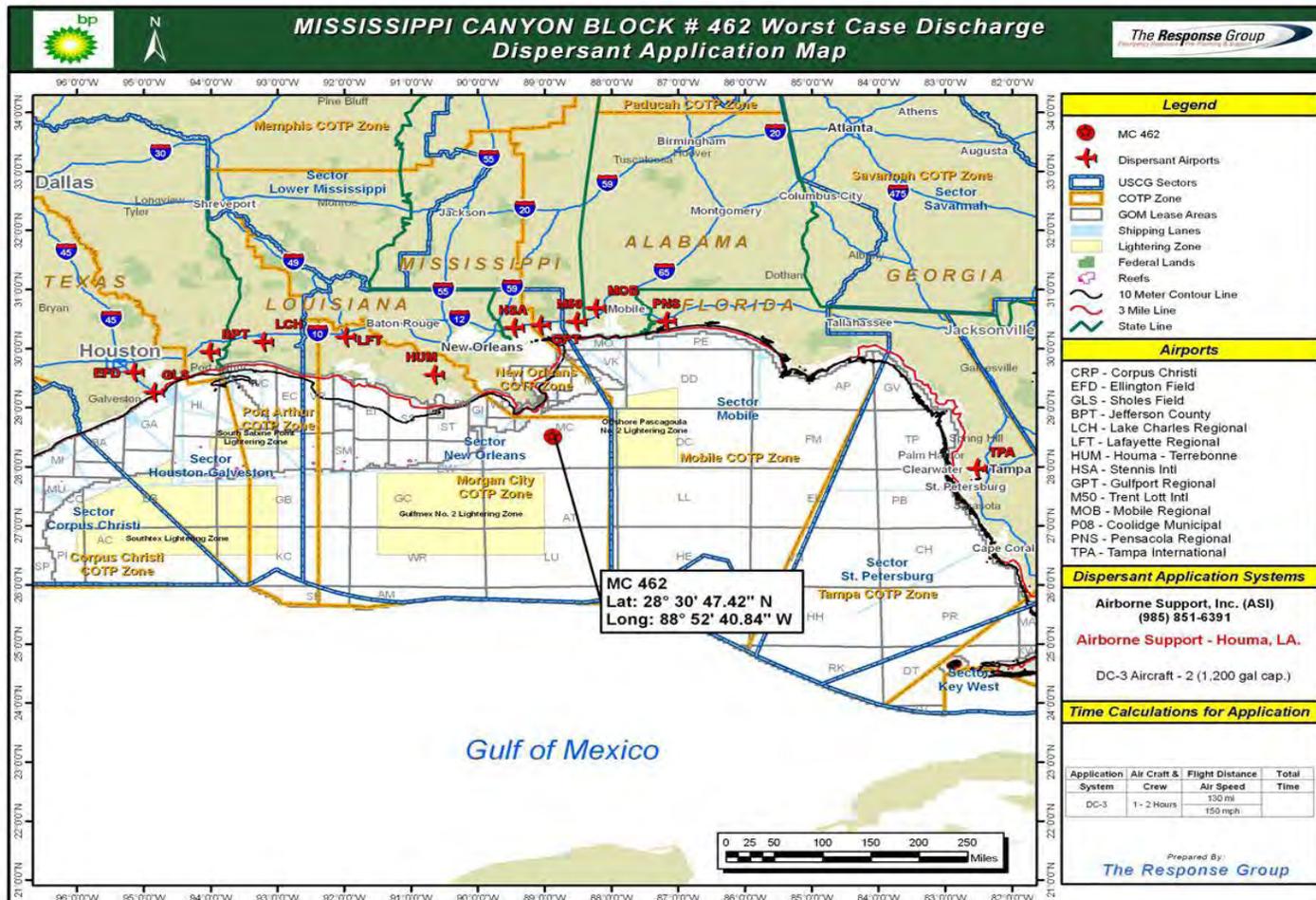
Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
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BP Regional Oil Spill Response Plan – Gulf of Mexico

**Appendix H
Worst Case
Discharge**



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Appendix H
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MC 462 (Exploratory) - Offshore Aerial Dispersant Activation List												
Aerial Dispersant System	Supplier & Phone	Warehouse	Aerial Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)					
							Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA	
DC-3 Aircraft Air Speed - 150 MPH	Airborne Support 985-851-6391	Houma, LA	DC-4 Dispersant Aircraft	1	Houma, LA	130	2	0.5	0.75	0.3	3.55	
			Dispersant - Gallons	2000								
			Spotter Aircraft	1								
			Spotter Personnel	2								
			Crew - Pilots	2								
DC-3 Aircraft Air Speed - 150 MPH	Airborne Support 985-851-6391	Houma, LA	DC-3 Dispersant Aircraft	1	Houma, LA	130	2	0.4	0.75	0.2	3.35	
			Dispersant - Gallons	1200								
			Spotter Aircraft	1								
			Spotter Personnel	2								
			Crew - Pilots	2								
BE-90 King Air Aircraft Air Speed - 213 MPH	MSRC 800-OIL-SPIL	Bay St. Louis, MS	BE-90 Dispersant Aircraft	1	Stennis INTL., MS 1st Flight	133	4.00	0.20	0.65	0.20	5.05	
			Dispersant - Gallons	230-425								
			Spotter Aircraft	1	Stennis INTL., MS 2nd Flight	133	0.65	0.20	0.65	0.20	1.70	
			Spotter Personnel	2								
			Crew - Pilots	2								
C130-A Aircraft Air Speed - 342 MPH	MSRC 800-OIL-SPIL	Coolidge, AZ	C130-A Dispersant Aircraft	1	Ellington Field, TX 1st Flight	387	8	0.3	1.15	0.5	10.00	
			Dispersant - Gallons	3250								
			Spotter Aircraft	1	Stennis INTL., MS 2nd Flight	133	0.40	0.3	0.40	0.5	1.65	
			Spotter Personnel	2								
			Crew - Pilots	2								
ADDS PACK Air Speed - 330 MPH	Clean Carribean 985-851-6391	Pt. Everglades, FL	USCG C-130 Aircraft	1	Clearwater, FL	375	24-48	1	1.14	0.5	26.65 to 50.65	
			ADDS PACK	1								
			Dispersant - Gallons	5000								
			Spotter Aircraft	1								
			Spotter Personnel	2								
Crew - Pilots	2											

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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix H
Worst Case
Discharge

MC 462 (Exploratory) - Offshore Boat Spray Dispersant Activation List											
Boat Spray Dispersant System	Supplier & Phone	Warehouse	Boat Spray Dispersant Package	Quantity	Staging Area	Distance to Site from Staging (Miles)	Response Times (Hours)				
							Staging ETA	Loadout Time	ETA to Site	Deployment Time	Total ETA
Louisiana Responder Transrec-350	MSRC 800-OIL-SPIL	Fort Jackson, LA	Dispersant Spray System	1	Fort Jackson, LA	69	2	1	5	1	9
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			32' Support Boat	1							
M/V Recovery	AMPOL 800-482-6765	Fourchon, LA	Dispersant Spray System	1	Fourchon, LA	90	1	1	6.5	1	9.5
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
			Crew Boat	1							
USCG SMART Team	USCG	Mobile, AL	Personnel	4	Fourchon, LA	90	3	1	6.5	1	11.5
			Crew Boat	1							
Mississippi Responder Transrec-350	MSRC 800-OIL-SPIL	Pascagoula, MS	Dispersant Spray System	1	Pascagoula, MS	135	2	1	9.5	1	13.5
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			32' Support Boat	1							
Vessel Based Dispersant Spray System	NRC 800-899-4672	Morgan City, LA	Dispersant Spray System	1	Morgan City, LA	204	1	1	14.5	1	17.5
			Dispersant (Gallons)	500							
			Personnel	4							
			Crew Boat	1							
M/V Responder	AMPOL 800-482-6765	Cameron, LA	Dispersant Spray System	1	Cameron, LA	283	1	1	20	1	23
			Dispersant (Gallons)	500							
			Personnel	4							
			110' Utility Boat	1							
			Crew Boat	1							
Gulf Coast Responder Transrec-350	MSRC 800-OIL-SPIL	Lake Charles, LA	Dispersant Spray System	1	Lake Charles, LA	320	2	1	23	1	27
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			Tow Bladder	1							
Texas Responder Transrec-350	MSRC 800-OIL-SPIL	Galveston, TX	Dispersant Spray System	1	Galveston, TX	366	2	1	26	1	30
			Dispersant (Gallons)	880							
			210' Vessel	1							
			Personnel	12							
			32' Support Boat	1							

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Appendix H
Worst Case
Discharge

Dispersant Stockpiles by Location (Updated 03/2009)			
Supplier & Phone	Location of Dispersants	Type	Quantity in Gallons
Airborne Support, Inc. (ASI) 985-851-6391	Houma, LA	Corexit 9527	3,355
MSRC (800) OIL-SPIL	Slaughter Beach, DE - DBRC Site	Corexit 9527	330
	Chesapeake City, MD - MSRC Site	Corexit 9527	9,130
	Portland, ME - OSRV	Corexit 9527	330
	Perth Amboy, NJ - OSRV	Corexit 9527	330
	Chesapeake City, MD - OSRV	Corexit 9527	330
	Virginia Beach, VA - OSRV	Corexit 9527	330
	San Juan, PR - MSRC Site	Corexit 9527	900
	Kiln, MS - Stennis Airport	Corexit 9527	22,260
	Kiln, MS - Stennis Airport	Corexit 9500	3,960
	Miami, FL - OSRV	Corexit 9527	800
	Pascagoula, MS - OSRV	Corexit 9527	800
	Fort Jackson, LA - OSRV	Corexit 9527	800
	Lake Charles, LA - OSRV	Corexit 9527	800
	Galveston, TX - OSRV	Corexit 9527	800
	Corpus Christi - OSRV	Corexit 9527	330
	Galveston, TX - MSRC Site	Corexit 9500	18,980
	Coolidge, AZ - Coolidge Airport	Corexit 9527	3,300
	Long Beach, CA - Tesoro Terminal	Corexit 9500	10,890
	Terminal Island, CA - OSRV	Corexit 9527	600
	Richmond, CA - MSRC Warehouse	Corexit 9527	11,500
	Richmond, CA - OSRV	Corexit 9527	605
	Everett, WA - Everett Warehouse	Corexit 9527	6,495
	Ferndale, WA - CP Refinery	Corexit 9527	6,430
Port Angeles, WA - OSRV	Corexit 9527	605	
Astoria, OR - OSRV	Corexit 9527	605	
Honolulu, HI - OSRV	Corexit 9527	605	
NRC National Response Corp. John Hielscher 631-224-9141 ext. 142	Morgan City, LA	COREXIT 9527	1,320
	Morgan City, LA	SPC 1000	220
	Morgan City, LA	BIO Disperse	1,045
	Toa Baja, PR	COREXIT 9527	5,005
	St. Croix, VI	COREXIT 9527	1,650
ONDEO Nalco	Sugarland, TX	Corexit 9500	11,000
Clean Caribbean & Americas	Ft. Lauderdale, FL	Corexit 9500	30,360
OSR / EARL +44 (0)20 7724 0102	Southampton, UK	Corexit 9500	5,283
	Bahrain, MENAS Base	Corexit 9500 (1 week activation)	3,963
	Singapore, SG	Corexit 9500 (1 week activation)	8,440
TOTAL QUANTITY (GALLONS)			174,486

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Appendix I
Oceanographic &
Meteorological
Information for
Subregional OSRPs

APPENDIX I – OCEANOGRAPHIC & METEOROLOGICAL INFORMATION FOR SUBREGIONAL OSRPs

- I. Not Applicable
This OSRP is designated for the Gulf of Mexico Region and thus eliminates the need for any Subregional information.

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Federal Response Team Region VI In-Situ Burn Plan, U.S. Coast Guard, 1994.

FOSC Preapproved Dispersant Use Manual, U.S. Coast Guard – Regional Response Team 6
Revision 4, 2000.

Inland Area Contingency Plan, U.S. Environmental Protection Agency Region VI, 1993.

Oil Spill Cleanup and Protection Techniques for Shoreline and Marshland and Marshlands,
Bruel, A, Park Ridge, New York.

National Preparedness for Response Exercise Program (PREP). U.S. DOT, USCG, USEPA,
USDOJ August 1994.

Response Specifications Manual, Clean Gulf Associates, 1993.

Sensitivity to Coast Environments and Wildlife to Spilled Oil, Louisiana, An Atlas of Coastal
Environments, 1989.

South Louisiana/Acadia Region Area Contingency Plan, U.S. Coast Guard.

Using Oil Spill Dispersants on the Sea, Committee in Effectiveness of Oil Spill Dispersants,
Marine Board Commission on Engineering, and Technical Systems, National Research
Counsel, National Academy Press, Washington D.C., 1989.

National Response Corporation, Contingency Plan.



APPENDIX K – MEDIA

A. Public Statements

Initial press statements will:

- 1) Give the name of the facility involved, the time of the incident and any other facts that are not in dispute (such as the steps the company has taken to contain, control, or handle the spill).
- 2) State explicitly that it is the company's policy to prevent pollution of the ocean, coastline, or inland waters - whatever is appropriate – and minimize damage to environmental or property.

As the following information becomes available, press statements will:

- 1) Note that containment and cleanup experts are on / being called to the scene to supervise/participate in the operation.
- 2) Give the type of product spilled – light or heavy oil? Other?
- 3) Report whether the spill has been contained, controlled.
- 4) Give the estimated size of the spill – quantity and area affected as known at that time.
- 5) Tell how spill is moving, and what factors can affect its movement, such as wind, current and tides.
- 6) Describe special efforts taken to protect members of the community, property and wildlife. No statement shall be made containing any of the following:
 - a) Speculations concerning liability for the spill or its legal consequences.
 - b) Speculations regarding the cause of the spill. An extended inquiry may be needed to determine the actual cause, and legal liability could be affected by what is said.
 - c) Estimates of damage and/ or value expressed in dollars, production statistics, sales volume, or insurance coverage.
 - d) Estimates of how long cleanup will take or cleanup costs.
 - e) Promises that property, ecology, or anything else will be restored to normal.
 - f) Do not release the name of injured or dead until next of kin have been notified.

If incorrect statements or unfounded speculations are published, the following steps are suggested:



- 1) Provide the source with correct information. If it is determined an appropriate audience, arrange for representatives to fly over the spill, or otherwise visit it, to confirm company estimates as to size, damage and action.
- 2) Avoid direct rebuttal or erroneous statements. Ask for amendments to incorrect details.
- 3) Do not rebut statements by scientists unless you use a comparable scientific source to back up any statement you make.

B. Joint Information Center (JIC)

The Joint Information Center (JIC) is set up by the Public Information Officer as a forum for dissemination of response related data to the media and the public. The JIC should be prepared to provide the following:

- 1) Multiple phone lines for incoming calls, attended by knowledgeable individuals.
- 2) Ensured availability of company, state, and federal public affairs representatives to the media.
- 3) Press releases and fact sheets issued to media with copies to response officials.
- 4) Scheduling and coordination of news conferences, media briefing and community townhalls.

Primary and Alternative Sites

The JIC should be kept separate from the Command Center. Primary and alternate sites should be pre-designated to expedite the setup and dissemination of incident information. Site should be identified and evaluated in the earliest stages of the response, to afford media a more proximate collection and distribution of information. Equipment needs for the JIC vary depending upon the size of the incident.

Some site and equipment considerations include:

- 1) Adequate parking
- 2) Clearly marked, media assembly areas (that is, roped or taped areas)
- 3) Adequate escorts for media representatives
- 4) News, conference and media work areas



- 5) Equipment needs for a JIC will vary depending upon the size of the incident, available space and staff, but for example, may include:
- Podium
 - Tables and chairs – arrangement to be determined by spacing and activity
 - A phone bank of 4-6 telephones
 - Answering machine (when phones are not staffed)
 - Fax machine (and extra paper)
 - Photocopier (and extra paper)
 - Computer and printer
 - Modem and internet access (to run PIERS, download files and email news releases)
 - Radio, TV, VCR, cassettes (to record media coverage)
 - Dry erase boards
 - Flip charts, pads and markers
 - Wall maps
 - Projectors
 - Extra extension cords and surge protectors
 - Wall clock (displaying next briefing time)
 - Incident status display boards
 - Aerial photos
 - Product samples (examples of their end uses)
 - General information media packets
 - Restrooms

Consideration should be given to renting equipment versus purchasing depending on the length of the event, purchase cost, and practical use of equipment by the responsible party after demobilization.

Media Briefing Facilities

A separate media briefing room will be located near the JIC. Outside of media briefing times, this room can be used by reporters as their “base of operations” to work on their stories. The room will have access to nearby restrooms, water fountains or soft drink machines, and the parking lot where TV, microwave or satellite uplink trucks can be parked.

The media briefing room should be equipped with:

- Table and chairs for Unified Command or other speakers
- Podium with microphone and public address system (as needed)
- Multiple distribution or audio “multi” box (as needed)
- Flip chart, pad and markers
- Easel to hold any maps or charts
- TV / VCR for video footage of the spill source or any impacted areas (as needed)



Use of an overhead projector during a news conference is not recommended, because the bright white light of the projector will “wash out” most overhead transparencies when viewed by TV cameras.

C. USCG District 8 Public Affairs

News releases will be coordinated with the U.S. Coast Guard’s public affairs specialists. The U.S. Coast Guard’s district public affairs specialists from New Orleans are available to the Federal On-Scene Coordinator or local Marine Safety Offices within the district.

From district offices, public affairs personnel can write and issue news releases, provide broadcast fax services, upload information to the District’s Internet Website, and respond to telephone inquiries before a JIC is established on-site. The 8th District’s home page is <http://www.uscg.mil/d8/default.asp>

The district’s public affairs specialists can serve as on-site JIC support staff for the Public Information Officer. The district maintains 35 mm still and Hi-8 video equipment and trained personnel to provide video and photo documentation on-site. 8th District Public Affairs assistance is available by calling the Public Affairs Office at (504) 589-6198.

A District Public Affairs Detachment is also based at Air Station Houston located at Ellington Field. Public affairs staff at the unit can be reached at (281) 481-3880.

6)



Media Contacts

Figure K-1

Media Outlet Name	Phone	Fax	Email
TEXAS MEDIA CONTACTS			
Emergency Alert System Stations			
KTRH – AM 740 (All southeast Texas)	713-212-8740	713-212-8958	ktrhnews@aol.com
KGBC – AM 1540 (for Galveston only)	409-744-1540	409-740-0844	kgbc@anglefire.com
KBRZ – AM 1460 (for Freeport only)	409-233-2655	409-233-2656	kbrzinfo@kbrz.com
Major Television Stations			
Channel 2 – KPRC (NBC)	713-778-4950	713-771-4930	News2@kprc.com newsdesk@kprc.com
Channel 11 – KHOU (CBS)	713-521-4385	713-521-4380 713-520-7763	assignments@khou.com
Channel 13 – KTRK (ABC)	713-663-4600	713-664-0013	Ktrk.newsalert@abc.com
Channel 26 – KRIV (FOX)	713-479-2801	713-479-2859	Fox26news@hotmail.com
Channel 39 – KHCW (CW)	713-435-2953	713-787-0528	khcwnews@tribune.com
Channel 45 – KXLN (Univision)	713-662-4545	713-668-9057	dlandron@univision.net macosta@univision.net
Channel 48 – KTMD (Telemundo)	713-974-4848	713-266-6397	noticias@telemundohouston.com
News Services			
Associated Press Houston Associated Press Dallas	281-872-8900 800-442-7189	281-872-9988 972-991-7207	aptexas@ap.org
Dow Jones/Wall Street Journal	713-227-5440	713-547-9234	Michael.rieke@dowjones.com
Guidry News Service	409-765-8676	409-763-4937	galvfax@guidrynews.com
Metro Networks	713-407-6854	713-407-6852	Mike_laurel@metronetworks.com
Reuters America – Houston Reuters America – Washington	713-210-8508 800-869-9108	713-751-0093 202-371-0036	Andrew.j.kelly@reuters.com
Texas State Network (TSN) Arlington	817-543-5400	817-543-5572	krlid@onramp.net
United Press International – Dallas UPI – Washington	800-441-9009 202-898-8020	214-720-9079 202-898-8057	Phil.mangers@cwixmail.com

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Media Outlet Name	Phone	Fax	Email
TEXAS MEDIA CONTACTS (continued)			
Radio Stations			
KILT – AM 610/ FM 100.3	713-881-5181	713-881-5199	rowdyates@kilt.com
KUHF – FM 88.7 (NPR/APR)	713-743-0887	713-743-1818	dfraser@uh.edu Kuhf@uh.edu
Newspapers			
Bay City Tribune (Matagorda Co.)	979-245-5555	979-244-5908	NONE
Baytown Sun (Baytown area)	281-422-8302	281-427-1880	sunnews@baytownsun.com
Bazosport Facts (Freeport area)	979-265-7411	979-265-9052	thefacts@thefacts.com
Galveston County Daily News	409-744-3611	409-740-3421	Heber.taylor@galvnews.com
Houston Chronicle	713-220-7171	713-220-6806	Burke.wason@chron.com
Houston Chronicle – Galveston	409-744-8822	409-744-8989	Kevin.moran@chron.com
Pasadena Citizen (Deer Park, Pasadena, South Houston area)	713-477-0221 x507	713-477-4172	newsbox@westwardcommlc.com
Texas City Sun	409-945-3441	409-935-0428	Stephen.hadley@texascitysun.com

Media Outlet Name	Phone	Fax	Email
LOUISIANA MEDIA CONTACTS			
Radio Stations			
KHOM	(504) 679-7300	(504) 679-7343	None
KKI/KDLP	(985) 395-2853	(985) 395-5094	kqki@cajun.net
WWL	(504) 593-6376	(504) 593-2099	news@wwlmail.com
Major Television Stations			
Channel 2- WBRZ (ABC)	(225) 387-2222	(225) 336-2347	www.wbrz.com
Channel 3 – KATC (ABC)	(337) 235-3333	(337) 232-5282	news@katctv.com
Channel 6 – WDSU (NBC)	(504) 679-0600	(504) 679-0733	feedback6@wdsu.com
Channel 8 – WVUE (ABC)	(504) 486-6161	(504) 483-1543	fox8news@wvue.emmis.com
Channel 9 – WAFB (CBS)	(225) 383-9999	(225) 379-7880	wafb@raycommedia.com

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LOUISIANA MEDIA CONTACTS (continued)

Major Television Stations (continued)

Channel 10 – KLFY (CBS)	(337) 981-4823	(337) 981-6533	news@klfy.com
Channel 26 – WCNO (ABC)	(504) 581-2600	(504) 619-6332	wgnotv@tribune.com
Channel 39 – Allens Cable	(985) 384-6960	(985) 385-1916	www.kwbj.com

Newspapers

Lake Charles American Press	(337) 433-3000	(337) 494-4070	news@americanpress.com
The Cameron Pilot	(337) 786-8004	(337) 786-8004	quincynews@centurytel.net
The Courier	(985) 879-1557	(985) 857-2244	houma@today.com
The Times Picayune	(504) 826-3279	(504) 826-3007	jbiers@timespicayune.com

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L. ICS FORMS

Incident Command System (ICS) Instructions & Forms	
ICS Form	Name
<u>IAP Cover Sheet</u>	IAP Cover Sheet
<u>Annex 1 Tab A</u>	General Incident Report
<u>Notifications</u>	Notification Report
<u>Weather</u>	Weather Report
<u>ICS 201-1</u>	Incident Briefing Map/Sketch
<u>ICS 201-2</u>	Summary of Current Actions
<u>ICS 201-3</u>	Current Organization
<u>ICS 201-4</u>	Resource Summary
<u>ICS 201-5</u>	Site Safety and Control Analysis
<u>ICS 201-7</u>	Recon Tactical Assessment
<u>ICS 202</u>	Response Objectives
<u>ICS 203</u>	Organization Assignment List
<u>ICS 204</u>	Assignment List
<u>ICS 205</u>	Communications Plan
<u>ICS 206</u>	Medical Plan
<u>ICS 207</u>	Incident Organization Chart
<u>ICS 208</u>	Site Safety Plan
<u>ICS 209</u>	Incident Status Summary
<u>ICS 210</u>	Change Status
<u>ICS 211p</u>	Check-In List (Personnel)
<u>ICS 211e</u>	Check-In List (Equipment)
<u>ICS 213</u>	Resource Requisition
<u>ICS 214</u>	Unit Log
<u>ICS 214a</u>	Individual Log
<u>ICS 215</u>	Operational Planning Worksheet
<u>ICS 220</u>	Air Operations Plan
<u>ICS 221</u>	Demobilization Check Out
<u>ICS 223</u>	Health and Safety Message
<u>ICS 224</u>	Environmental Unit Summary

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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L. ICS FORMS (Cont'd)

**Incident Command System
(ICS) Instructions & Forms (continued)**

ICS 226	Long Term Planning Worksheet
ICS 230	Daily Meeting Schedule
ICS 231	Meeting Description
ICS 232a	ACP Site Index
ICS 233	Open Action Tracker
ICS 234	Work Analysis Matrix

Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
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Issue Date: 12/01/00
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Control Tier: Tier 2 - GoM Region
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IAP Cover Sheet

Incident Name:

Operational Period to be covered by IAP:
Period (/ / to / /)

Approved by:

FOSC: _____

SOSC: _____

RPIC: _____

Incident Action Plan

Prepared By:

Prepared Date/Time:

IAP Cover Sheet

Printed:

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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Replogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
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GoM HSSE Document Mgmt Administrator
Issuing Dept.: GoM SPU
Control Tier: Tier 2 - GoM Region
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General Incident Report		
Incident:	Incident Date/Time:	
Person Reporting Incident:	Prepared:	at:
Person Contact Number(s): () -	Version:	
Platform Information and Points of Contact		
Platform Name:		
Type of Platform:		
Number of People at Platform:		
Contact:	Phone: () -	
Owner:	Phone: () -	
Operator:	Phone: () -	
Platform Specific Information		
Type(s) of Product:		
Equipment Involved:		
Max Production Rate:		
Max Rate Oil (bbls/day):		
Max Rate Gas (mcf/day):		
Incident Information		
Incident Location:	Latitude:	Longitude:
Type of Casualty:	Number of Tanks on Platform:	
Number of Tanks Impacted:	Total Capacity of Common Container:	
Material(s) Spilled:	API Gravity:	
Estimated Quantity Spilled:	Potential for Additional Spillage:	
Source Secured?:	If not, Estimated Spill Rate:	
	Classification:	
Notes:		
Incident Status		
Injuries/Casualties:		
Fire:	Fire Status:	Fire Assistance:
Notes:		
General Incident Report (Platform)		© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 Custodian: Earnest Bush,
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 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
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General Incident Report		
Incident:	Incident Date/Time:	
Person Reporting Incident:	Prepared:	at:
Person Contact Number(s): () -	Version:	
Pipeline Information and Points of Contact		
Pipeline Name:		
Contact:	Phone: () -	
Owner:	Phone: () -	
Operator:	Phone: () -	
Pipeline Specific Information		
Type(s) of Product:		
Equipment Involved:		
P/L Marker of Release	Nearest Upstream Block Valve	Nearest Downstream Block Valve
Incident Information		
Incident Location:	Latitude:	Longitude:
Type of Casualty:		
Total Capacity of Pipeline:	Potential for Additional Spillage:	
Material(s) Spilled:	API Gravity:	
Estimated Quantity Spilled:	Classification:	
Source Secured?:	If not, Estimated Spill Rate:	
Notes:		
Incident Status		
Injuries/Casualties:		
Fire:	Fire Status:	Fire Assistance:
Holed:	Hole Location:	Hole Size:
Notes:		
General Incident Report (Pipeline)		© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
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 Environmental Coordinator
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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General Incident Report		
Incident:	Incident Date/Time:	
Person Reporting Incident:	Prepared:	at:
Person Contact Number(s): () -	Version:	
Facility Information and Points of Contact		
Facility Name:		
Type of Facility:		
Number of People at Facility:		
Contact:	Phone: () -	
Owner:	Phone: () -	
Operator:	Phone: () -	
Facility Specific Information		
Type(s) of Product:		
Equipment Involved:		
Incident Information		
Incident Location:	Latitude:	Longitude:
Type of Casualty:		
Total Capacity of Common Container:	Potential for Additional Spillage:	
Material(s) Spilled:	API Gravity:	
Estimated Quantity Spilled:	Classification:	
Source Secured?: <input type="checkbox"/> Yes <input type="checkbox"/> No	If not, Estimated Spill Rate:	
Notes:		
Incident Status		
Injuries/Casualties:		
Fire: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fire Status:	Fire Assistance:
Notes:		
General Incident Report (Facility)		© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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BP
Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

Notification Status Report									
Incident:				Prepared By:					at:
Period:			to		Version Name:				
Organization Notified	Phone	Date /Time Notified	Person Contacted	Person Contacted Email	Case No.	Follow Up	ETA On Site	Notified By	
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
	() -					<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
Notes:									
Notification Status Report						<input type="checkbox"/> Y <input type="checkbox"/> N	HR		
							© 1997-2009 TRG/dbSoft, Inc.		

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
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 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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Weather Report

Incident:	Prepared By: _____ at _____
Period:	Version Name:

Present Conditions

Wind Speed:	Wave Height:
Wind Direction From The:	Wave Direction:
Air Temperature:	Swell Height:
Barometric Pressure:	Swell Interval:
Humidity:	Current Speed:
Visibility:	Current Direction
Ceiling:	Water Temperature:
Next High Tide (Time):	Next Low Tide (Time):
Next High Tide (Height):	Next Low Tide (Height):
Sunrise:	Sunset:

Notes:

24 Hour Forecast

Sunrise:	Sunset:
High Tide (Time):	High Tide (Time):
High Tide (Height):	High Tide (Height):
Low Tide (Time):	Low Tide (Time):
Low Tide (Height):	Low Tide (Height):

Notes:

48 Hour Forecast

Sunrise:	Sunset:
High Tide (Time):	High Tide (Time):
High Tide (Height):	High Tide (Height):
Low Tide (Time):	Low Tide (Time):
Low Tide (Height):	Low Tide (Height):

Notes:

Weather Report		© 1997-2009 TRG/dbSoft, Inc.
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ICS 201-1 Incident Briefing Map/Sketch

Incident:	Prepared By:	at
Period:	Version Name:	

--	--	--	--

**ICS 201-1 Incident Briefing
Map/Sketch**

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Title of Document: Regional Oil Spill Response Plan
Authority: Dan R. Repogle,
GoM EMS Mgmt Representative
Scope: GoM EMS
Issue Date: 12/01/00
Revision Date: 06/30/09
Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
Custodian: Earnest Bush,
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Issuing Dept.: GoM SPU
Control Tier: Tier 2 - GoM Region
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ICS 201-2 – Summary of Current Actions			
Incident:		Prepared By:	at:
Period:	to	Version Name:	
Incident Information			
Initial Incident Objectives			
Summary of Current Actions			
Date/Time	Action/Note		
ICS 201-2 Summary of Current Actions			© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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ICS 201-3 Current Organization

Incident: _____ Prepared By: _____ at: _____
 Period: _____ Version Name: _____



Unified
Command

Federal _____
 State _____
 Incident Commander _____

Safety Officer _____
 Liaison Officer _____
 Information Officer _____

OPS Section Chief	Planning Section Chief	Logistics Section Chief	Finance Section Chief
Branch/Div./Grp./TF	Situation Unit Leader		
Branch/Div./Grp./TF	Resource Unit Leader		
Branch/Div./Grp./TF	Documentation Unit		
Branch/Div./Grp./TF	Environmental Unit		
Branch/Div./Grp./TF			
Branch/Div./Grp./TF			
Branch/Div./Grp./TF			

ICS 201-3 – Current Organization © 1997-2006 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
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ICS 201-5 Site Safety and Control Analysis

Incident:	Prepared By: _____ at: _____
Period:	Version Name: _____
Site Control	
1. Is Site Control set up? <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Is there an on-scene command post? <input type="checkbox"/> Yes <input type="checkbox"/> No If so, where? _____
3. Have all personnel been accounted for? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	Injuries: _____ Fatalities: _____ Unaccounted: _____ Trapped: _____
4. Are observers involved, or rescue attempts planned? Observers: <input type="checkbox"/> Yes <input type="checkbox"/> No Rescuers: <input type="checkbox"/> Yes	5. Are decon areas setup? <input type="checkbox"/> Yes <input type="checkbox"/> No If so, where? _____
Hazard identification, immediate signs of: (if yes, explain in Remarks)	
1. Electrical line(s) down or overhead? <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Unidentified liquid or solid products visible? <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Wind direction across incident: <input type="checkbox"/> Towards your position Wind Speed _____ <input type="checkbox"/> Away from your position	4. Is a safe approach possible? <input type="checkbox"/> Yes <input type="checkbox"/> No
5. Odors or smells? <input type="checkbox"/> Yes <input type="checkbox"/> No	6. Vapors visible? <input type="checkbox"/> Yes <input type="checkbox"/> No
7. Holes, ditches, fast water, cliffs, etc. nearby? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. Fire, sparks, sources of ignition nearby? <input type="checkbox"/> Yes <input type="checkbox"/> No
9. Is local traffic a potential problem? <input type="checkbox"/> Yes <input type="checkbox"/> No	10. Product placards, color codes visible? <input type="checkbox"/> Yes <input type="checkbox"/> No
11. Other Hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	12. As you approach the scene from the upwind side, do you note a change in the status of any of the above? <input type="checkbox"/> Yes <input type="checkbox"/> No
Hazard Mitigation: have you determined the necessity for any of the following?	
1. Entry Objectives:	
2. Warning sign(s), barriers, color codes in place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
3. Hazardous material being monitored? <input type="checkbox"/> Yes <input type="checkbox"/> No 3a. Sampling Equipment: 3b. Sampling location(s): 3c. Sampling frequency: 3d. Personal exposure monitoring:	
4. Protective gear / level: 4b. Respirators: 4d. Boots:	4a. Gloves: 4c. Clothing: 4e. Chemical cartridge change frequency:
5. Decon 5a. Instructions: 5b. Decon equipment and materials:	
6. Emergency escape route established? <input type="checkbox"/> Yes <input type="checkbox"/> No Route? _____	
7. Field responders briefed on hazards? <input type="checkbox"/> Yes <input type="checkbox"/> No	
8. Remarks:	
ICS 201-5 Site Safety and Control Analysis	© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
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ICS 201-7 – Recon Tactical Assessment

Incident:	Prepared By: _____ at: _____
Period:	Version Name: _____
Access route to site:	
Closest helicopter landing spot:	
Type of substance: _____	Est. spill volume: _____
	Est. spill rate: _____
Source/cause of Spill (valve, break in line, rupture, truck, and/or vessel, cause known/unknown):	
Weather (air temperature / precipitation / cloud cover / ceiling / visibility / wind speed / direction):	
Recommended follow-on personnel and equipment:	
Current Situation Narrative (Brief)	
Direction of oil movement: Description of contaminated area: Nearest access: Proximity to sensitive areas: Is containment achieved: Additional information:	
Response action taken:	
Response equipment needed to establish control/containment:	
ICS 201-7 – Recon Tactical Assessment	© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
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 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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ICS 202 - General Response Objectives			
Incident:	Prepared By:	at:	
Period:	Version Name:		
Overall and Tactical Objectives			
		Assigned to:	Status
1. Ensure the Safety of Citizens and Response Personnel			
<input type="checkbox"/>	1a. Identify hazard(s) of spilled material		
<input type="checkbox"/>	1b. Establish site control (hot zone, warm zone, cold zone, & security)		
<input type="checkbox"/>	1c. Consider evacuations if needed		
<input type="checkbox"/>	1d. Establish vessel and/or aircraft restrictions		
<input type="checkbox"/>	1e. Monitor air in impacted areas		
<input type="checkbox"/>	1f. Develop site safety plan for personnel & ensure safety briefings are conducted		
2. Control the Source of the Spill			
<input type="checkbox"/>	2a. Complete emergency shutdown		
<input type="checkbox"/>	2b. Conduct firefighting		
<input type="checkbox"/>	2c. Initiate temporary repairs		
<input type="checkbox"/>	2d. Transfer and/or lighter product		
<input type="checkbox"/>	2e. Conduct salvage operations, as necessary		
3. Manage a Coordinated Response Effort			
<input type="checkbox"/>	3a. Complete or confirm notifications		
<input type="checkbox"/>	3b. Establish a unified command organization and facilities (command post, etc.)		
<input type="checkbox"/>	3c. Ensure local and tribal officials are included in response organizations		
<input type="checkbox"/>	3d. Initiate spill response Incident Action Plans (IAP)		
<input type="checkbox"/>	3e. Ensure mobilization & tracking of resources & account for personnel & equip		
<input type="checkbox"/>	3f. Complete documentation		
4. Maximize Protection of Environmentally-Sensitive Areas			
<input type="checkbox"/>	4a. Implement pre-designated response strategies		
<input type="checkbox"/>	4b. Identify resources at risk in spill vicinity		
<input type="checkbox"/>	4c. Track oil movement and develop spill trajectories		
<input type="checkbox"/>	4d. Conduct visual assessments (e.g., overflights)		
<input type="checkbox"/>	4e. Development/implement appropriate protection tactics		
ICS 202 General Response Objectives		© 1997-2009 TRG/dbSoft, Inc.	

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ICS 202 - GENERAL RESPONSE OBJECTIVES		
Incident:	Prepared By:	at:
Period:	Version Name:	
Overall and Tactical Objectives		
	Assigned to:	Status
5. Contain and Recover Spilled Material		
<input type="checkbox"/> 5a. Deploy containment boom at the spill site & conduct open-water skimming		
<input type="checkbox"/> 5b. Deploy containment boom at appropriate collection areas		
<input type="checkbox"/> 5c. Evaluate time-sensitive response technologies (e.g., dispersants, in-situ burning)		
<input type="checkbox"/> 5d. Develop disposal plan		
6. Recover and Rehabilitate Injured Wildlife		
<input type="checkbox"/> 6a. Establish oiled wildlife reporting hotline		
<input type="checkbox"/> 6b. Conduct injured wildlife search and rescue operations		
<input type="checkbox"/> 6c. Setup primary care unit for injured wildlife		
<input type="checkbox"/> 6d. Operate wildlife rehabilitation center		
<input type="checkbox"/> 6e. Initiate citizen volunteer effort for oiled bird rehabilitation		
7. Remove Oil from Impacted Areas		
<input type="checkbox"/> 7a. Conduct appropriate shoreline cleanup efforts		
<input type="checkbox"/> 7b. Clean oiled structures (piers, docks, etc.)		
<input type="checkbox"/> 7c. Clean oiled vessels		
8. Minimize Economic Impacts		
<input type="checkbox"/> 8a. Consider tourism, vessel movements, & local economic impacts		
<input type="checkbox"/> 8b. Protect public and private assets, as resources permit		
<input type="checkbox"/> 8c. Establish damage claims process		
9. Keep Stakeholders and Public Informed of Response Activities		
<input type="checkbox"/> 9a. Provide forum to obtain stakeholder input and concerns		
<input type="checkbox"/> 9b. Provide stakeholders with details of response actions		
<input type="checkbox"/> 9c. Identify stakeholder concerns and issues, and address as practical		
<input type="checkbox"/> 9d. Provide timely safety announcements		
<input type="checkbox"/> 9e. Establish a Joint Information Center (JIC)		
<input type="checkbox"/> 9f. Conduct regular news briefings		
ICS 202 General Response Objectives		© 1997-2009 TRG/dbSoft, Inc.

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 Issuing Dept.: GoM SPU
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ICS 203 - Organization Assignment

Incident: _____ **Prepared By:** _____ **at:** _____

Period: _____ **Version Name:** _____

Command Staff

Title	Name	Mobile	Pager	Other	Radio
Federal (FOSC)		() -	() -	() -	
State (SOSC)		() -	() -	() -	
RP(s)		() -	() -	() -	
Incident Commander		() -	() -	() -	
Deputy Incident Commander		() -	() -	() -	
Safety Officer		() -	() -	() -	
Information Officer		() -	() -	() -	
Liaison Officer		() -	() -	() -	
Intelligence Officer		() -	() -	() -	

Operations Section

Title	Name	Mobile	Pager	Other	Radio
Operations Section Chief		() -	() -	() -	
Deputy Operations Section Chief		() -	() -	() -	
Staging Area Manager		() -	() -	() -	
Recovery & Prot. Branch Director		() -	() -	() -	
Emergency Resp. Branch Director		() -	() -	() -	
Air Ops Branch Director		() -	() -	() -	
Wildlife Branch Director		() -	() -	() -	
Branch Director		() -	() -	() -	
Division/Group Supervisor		() -	() -	() -	
Disposal Group Supervisor		() -	() -	() -	

Planning Section

Title	Name	Phone	Fax	Other	Radio
Planning Section Chief		() -	() -	() -	
Deputy Planning Section Chief		() -	() -	() -	
Situation Unit Leader		() -	() -	() -	
Resource Unit Leader		() -	() -	() -	
Documentation Unit Leader		() -	() -	() -	
Technical Specialist		() -	() -	() -	
Demobilization Unit Leader		() -	() -	() -	
Check In Recorder		() -	() -	() -	

ICS 203 Organization Assignment

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ICS 203 - Organization Assignment (Continued)					
Incident:			Prepared By: _____ at _____		
Period:			Version Name:		
Logistics section					
Title	Name	Phone	Fax	Other	Radio
Logistics Section Chief		() -	() -	() -	
Deputy Logistics Section Chief		() -	() -	() -	
Service Branch Director		() -	() -	() -	
Medical Unit Leader		() -	() -	() -	
Food Unit Leader		() -	() -	() -	
Communication Unit Leader		() -	() -	() -	
Support Branch Director		() -	() -	() -	
Supply Unit Leader		() -	() -	() -	
Facilities Unit Leader		() -	() -	() -	
Ground Support Unit Leader		() -	() -	() -	
Vessel Support Unit Leader		() -	() -	() -	
		() -	() -	() -	
		() -	() -	() -	
Finance Section					
Title	Name	Phone	Fax	Other	Radio
Finance Section Chief		() -	() -	() -	
Deputy Finance Section Chief		() -	() -	() -	
Time Unit Leader		() -	() -	() -	
Procurement Unit Leader		() -	() -	() -	
Compensation/Claims Unit Leader		() -	() -	() -	
Cost Unit Leader		() -	() -	() -	
		() -	() -	() -	
		() -	() -	() -	
Source Control Section					
Title	Name	Phone	Fax	Other	Radio
Salvage/Source Control Group		() -	() -	() -	
		() -	() -	() -	
		() -	() -	() -	
ICS 203 Organizational Assignment				© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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ICS 204 - Assignment List		
Incident:	Branch:	
Period:	Division:	
Prepared by Signature:	Task Force:	
Approved by Signature:	Group:	
Tactical Objective		
Description of Work		
Location of Work		
Work Assignment Special Instructions		
Special Equipment/Supplies Needed for Assignment		
Special Environmental Considerations		
Special Site-Specific Safety Considerations		
Shoreline Cleanup Assessment Team (SCAT) Considerations		
Prepared by (Resource Unit Leader):	Approved by (Planning Section Chief):	Date/Time Approved:
ICS 204 Assignment List		© 1997-2009 TRG/dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Issuing Dept.: GoM SPU
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 206 – Medical Plan

Incident:

Prepared By: _____ **at:** _____

Period:

Version Name:

First Aid Stations

Name	Location	EMT (On-Site)	Phone	Radio

Transportation (Ground and/or Ambulance Services)

Name	Location	EMT	Phone	Radio

Air Ambulances

Name	Location	Doctor/Nurse	Phone	Radio

Hospitals

Name	Location	Helipad Center	Burn Center	Phone	Radio

Special Medical Emergency Procedures

--

ICS 206 Medical Plan

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Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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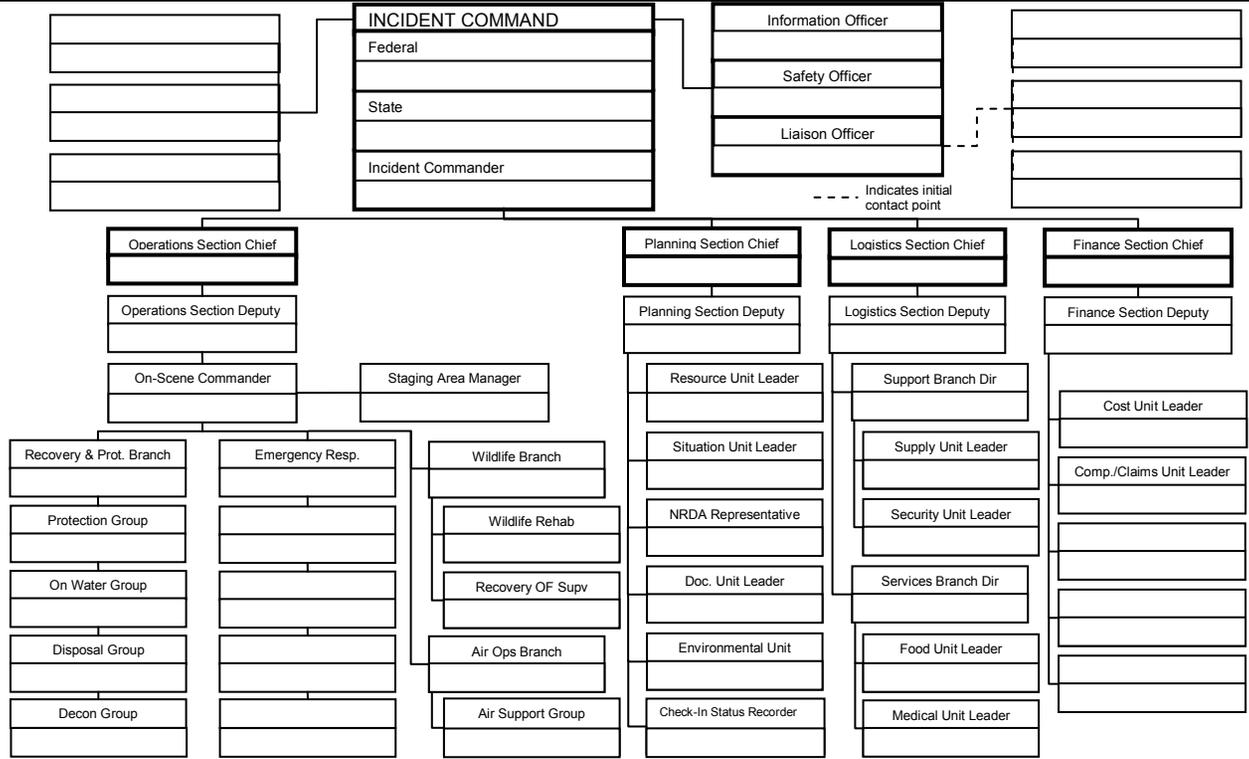


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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 207 – Organization Chart

Incident:	Prepared By:
Period:	Version Name:
	at:



ICS 207 – Organization Chart

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Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Appendix L
ICS Forms

ICS 208 – Site Safety Plan			
Incident:		Prepared by:	at:
Period:		Version Name:	
Revision:			
Applies To Site:			
Products:		(Attach MSDS)	
SITE CHARACTERIZATION			
Water:			
Wave Height:		Wave Direction:	
Current Speed:		Current Direction:	
Land:		Use:	
Weather:		Temp:	
Wind Speed:		Wind Direction:	
Pathways for Dispersion:			
Site Hazards			
<input type="checkbox"/> Boat Safety	<input type="checkbox"/> Fire, explosion, in-situ burning	<input type="checkbox"/> Pump hose	
<input type="checkbox"/> Chemical hazards	<input type="checkbox"/> Heat stress	<input type="checkbox"/> Slips, trips, and falls	
<input type="checkbox"/> Cold Stress	<input type="checkbox"/> Helicopter operations	<input type="checkbox"/> Steam and hot water	
<input type="checkbox"/> Confined Spaces	<input type="checkbox"/> Lifting	<input type="checkbox"/> Trenching/Excavation	
<input type="checkbox"/> Drum handling	<input type="checkbox"/> Motor vehicles	<input type="checkbox"/> UV Radiation	
<input type="checkbox"/> Equipment operations	<input type="checkbox"/> Noise	<input type="checkbox"/> Visibility	
<input type="checkbox"/> Electrical operations	<input type="checkbox"/> Overhead/buried utilities	<input type="checkbox"/> Weather	
<input type="checkbox"/> Fatigue	<input type="checkbox"/> Plants/wildlife	<input type="checkbox"/> Work near water	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	<input type="checkbox"/> Other	
Air Monitoring			
%O ₂ :		%LEL:	ppm Benzene:
ppm H ₂ S:		<input type="checkbox"/> Other (Specify):	
CONTROL MEASURES			
Engineering Controls			
<input type="checkbox"/> Source of release secured	<input type="checkbox"/> Valve(s) closed	<input type="checkbox"/> Energy source locked/tagged out	
<input type="checkbox"/> Site secured	<input type="checkbox"/> Facility shut down	<input type="checkbox"/> Other	
Personal Protective Equipment			
<input type="checkbox"/> Impervious suit	<input type="checkbox"/> Respirators		
<input type="checkbox"/> Inner gloves	<input type="checkbox"/> Eye protection		
<input type="checkbox"/> Outer gloves	<input type="checkbox"/> Personal floatation		
<input type="checkbox"/> Flame resistance clothing	<input type="checkbox"/> Boots		
<input type="checkbox"/> Hard hats	<input type="checkbox"/> Other		
Additional Control Measures			
<input type="checkbox"/> Decontamination	<input type="checkbox"/> Stations established		
<input type="checkbox"/> Sanitation	<input type="checkbox"/> Facilities provided – OSHA 29 CFR 1910.120n		
<input type="checkbox"/> Illumination	<input type="checkbox"/> Facilities provided – OSHA 29 CFR 1910.120m		
<input type="checkbox"/> Medical Surveillance	<input type="checkbox"/> Provided – OSHA 29 CFR 1910.120fq		
ICS 208 Site Safety Plan		© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 208 – Site Safety Plan			
Incident:		Prepared By:	at:
Period:		Version Name:	
WORK PLAN			
<input type="checkbox"/> Booming	<input type="checkbox"/> Skimming	<input type="checkbox"/> Vac trucks	<input type="checkbox"/> Pumping
<input type="checkbox"/> Heavy equipment	<input type="checkbox"/> Sorbent pads	<input type="checkbox"/> Patching	<input type="checkbox"/> Hot work
<input type="checkbox"/> Other	<input type="checkbox"/> Excavation		
<input type="checkbox"/> Appropriate permits used			
TRAINING			
<input type="checkbox"/> Verified site workers trained per OSHA 29 CFR 1920.120			
ORGANIZATION			
<u>Title</u>	<u>Name</u>	<u>Telephone/Radio</u>	
Incident Commander:			
Deputy Incident Commander:			
Safety Officer:			
Public Affaire Officer:			
Other:			
EMERGENCY PLAN			
<input type="checkbox"/> Alarm system:			
<input type="checkbox"/> Evacuation plan:			
<input type="checkbox"/> First aid location			
Notified			
<input type="checkbox"/> Hospital		Phone:	
<input type="checkbox"/> Ambulance		Phone:	
<input type="checkbox"/> Air ambulance		Phone:	
<input type="checkbox"/> Fire		Phone:	
<input type="checkbox"/> Law enforcement		Phone:	
<input type="checkbox"/> Emergency response/rescue		Phone:	
PRE-ENTRY BRIEFING			
<input type="checkbox"/> Initial briefing prepared for each site			
INCLUDING ATTACHMENTS/APPENDICES			
<u>Attachments</u>		<u>Appendices</u>	
<input type="checkbox"/> Site Map		<input type="checkbox"/> Site Safety Program Evaluation Checklist	
<input type="checkbox"/> Hazardous Substance Information Sheets		<input type="checkbox"/> Confined Space Entry Checklist	
<input type="checkbox"/> Site Hazards		<input type="checkbox"/> Heat Stress Consideration	
<input type="checkbox"/> Monitoring Program		<input type="checkbox"/> Cold Stress and Hypothermia Consideration	
<input type="checkbox"/> Training Program		<input type="checkbox"/> First Aid for Bites, Stings, and Poisonous Plant Contact	
<input type="checkbox"/> Confined Space Entry Procedure		<input type="checkbox"/> Safe Work Practice for Oily Bird Rehabilitation	
<input type="checkbox"/> Safe Work Practices for Boats		<input type="checkbox"/> SIPI Site Pre-Entry Briefing	
<input type="checkbox"/> PPE Description		<input type="checkbox"/> Personnel Tracking System	
<input type="checkbox"/> Decontamination			
<input type="checkbox"/> Communication and Organization			
<input type="checkbox"/> Site Emergency Response Plan			
ICS 208 – Site Safety Plan		© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 209 - Incident Status Summary			
Incident:		Prepared By:	at:
Period:		Version Name:	
Type of Incident			
<input type="checkbox"/> Oil Spill	<input type="checkbox"/> HAZMAT	<input type="checkbox"/> AMIO	
<input type="checkbox"/> SAR/Major SART	<input type="checkbox"/> SI/Terrorism	<input type="checkbox"/> Natural Disaster	
<input type="checkbox"/> Marine Disaster	<input type="checkbox"/> Civil Disturbance	<input type="checkbox"/> Military Outload	
<input type="checkbox"/> Planned Event	<input type="checkbox"/> Maritime HLS/Prevention	<input type="checkbox"/> Other	
Situation Summary as of Time of Report			
Future Outlook/Goals/Needs/Issues			
Safety Status/Personnel Casualty Summary			
Casualty Type	Since Last Report	Adjustments to Previous Op. Period	Total
Responder Injury			
Responder Death			
Public Missing (Active Search)			
Public Missing (Presumed Lost)			
Public Uninjured			
Public Injured			
Public Dead			
Total Public Involved			
Property Damage Summary			
Property Type	Est. Damage Amount		
Vessel			
Cargo			
Facility			
Other			
ICS 209 Incident Status Summary		© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 209 - Incident Status Summary

Incident: _____ **Prepared By:** _____ **at:** _____

Period: _____ **Version Name:** _____

Equipment Resources

Type	Notes	Ordered	Available / Staged	Assigned	Out-of-Service
Aircraft – Fixed-Wing					
Aircraft – Helo					
Pollution Equip – Boom					
Pollution Equip – OSRV					
Pollution Equip – Portable Storage					
Pollution Equip – Skimmers					
Pollution Equip – Tank Vsl/Barge					
Pollution Equip – VOSS/SORS					
Vehicles – Ambulance					
Vehicles – Car					
Vehicles - Fire/Rescue/HAZMAT					
Vehicles – Truck					
Vehicles – Vac/Tank Truck					
Vessels – Boat					
Vessels – Deck Barge					
Vessels – Pilot Boat					
Vessels – SAR/LE Boat					
Vessels – Tug/Tow Boat					
Vessels – USCG Cutter					
Vessels – Work/Crew Boat					

Personnel Resources

Agency	Total # of People
USCG	
DHS (other than USCG)	
NOAA	
FBI	
DOD (USN Supsalv, CST, etc.)	
DOI (US Fish & Wildlife, Nat Parks, BLM, etc.)	
RP	
State	
Local	
Total:	

ICS 209 Incident Status Summary

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Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 209 - Incident Status Summary						
Incident:		Prepared By:		at:		
Period:		Version Name:				
HAZMAT/Oil Spill Status (Estimated)						
Common Name(s):						
UN Number:		Source Status:	<input type="checkbox"/> Secured	<input type="checkbox"/> Unsecured		
CAS Number:		Remaining Potential:				
		Rate of Spillage:				
All estimates are in:						
	Adjustments to Previous Operational Period	Since Last Report	Total			
Volume Spilled/Released						
Mass Balance – HAZMAT/Oil Budget						
Recovered HAZMAT/Oil						
Evaporation/Airborne						
Natural Dispersion						
Chemical Dispersion						
Burned						
Floating, Contained						
Floating, Uncontained						
Onshore						
		Total HAZMAT/Oil Accounted for:				
Comments:						
HAZMAT/Oil Waste Management (est., since last report)						
	Waste Type	Recovered	Disposed	Stored		
	Oil					
	Oily Liquid					
	Liquid					
	Oily Solid					
	Solid					
HAZMAT/Oil Shoreline Impacts (Estimated)						
	Degree of Impact	Affected	Cleaned	To be Cleaned		
	Very Light					
	Light					
	Medium					
	Heavy					
		Total:				
HAZMAT/Oil Wildlife Impacts (Since last report)						
	Wildlife Type	Captured	Cleaned	Released	DOA	Died in Facility
						Euthanized
						Other
	Bird					
	Mammal					
	Reptile					
	Fish					
		Total:				
ICS 209 Incident Status Summary				© 1997-2009 TRG/dbSoft, Inc.		

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
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 Issuing Dept.: GoM SPU
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ICS Forms

ICS 209 - Incident Status Summary						
Incident:			Prepared By:		at:	
Period:			Version Name:			
HAZMAT/Oil Spill Status (Estimated)						
Common Name(s):						
UN Number:		Source Status:	<input type="checkbox"/> Secured		<input type="checkbox"/> Unsecured	
CAS Number:		Remaining Potential:				
			Rate of Spillage:			
All estimates are in:						
		Adjustments to Previous Operational Period	Since Last Report	Total		
Volume Spilled/Released						
Mass Balance – HAZMAT/Oil Budget						
Recovered HAZMAT/Oil						
Evaporation/Airborne						
Natural Dispersion						
Chemical Dispersion						
Burned						
Floating, Contained						
Floating, Uncontained						
Onshore						
		Total HAZMAT/Oil Accounted for:				
Comments:						
HAZMAT/Oil Waste Management (est., since last report)						
Waste Type			Recovered	Disposed	Stored	
Oil						
Oily Liquid						
Liquid						
Oily Solid						
Solid						
HAZMAT/Oil Shoreline Impacts (Estimated)						
Degree of Impact			Affected	Cleaned	To be Cleaned	
Very Light						
Light						
Medium						
Heavy						
Total:						
HAZMAT/Oil Wildlife Impacts (Since last report)						
Wildlife Type	Captured	Cleaned	Released	DOA	Died in Facility	
					Euthanized	Other
Bird						
Mammal						
Reptile						
Fish						
Total:						
ICS 209 Incident Status Summary			© 1997-2009 TRG/dbSoft, Inc.			

Title of Document: Regional Oil Spill Response Plan
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 Issuing Dept.: GoM SPU
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Appendix L
ICS Forms

ICS 210 – Change Status							
Incident:				Prepared By:			at:
Period:				Version Name:			
Incident Resources to Change							
ID	Supplier	Resource Type	Description	Quantity	Size	Current Location	Current Status
New Status and/or Location							
New Status:							
New Location:							
Date/Time of Change:							
Notes (Special Instructions, Safety Notes, Hazards, Priorities)							
ICS 210 – Change Status				© 1997-2009 TRG/dbSoft, Inc.			

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 Authority: Dan R. Repogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 Issuing Dept.: GoM SPU
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Regional Oil Spill Response Plan – Gulf of Mexico

ICS 215 – Operational Planning Worksheet											
Incident:			Prepared By:					at:			
Period:			Version Name:								
Branch/ Division/Area of Operation	Work Assignments	Resource								Reporting Location	Requested Arrival Date/Time
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									
		Req									
		Have									
		Need									

ICS 215 Operational Planning Worksheet
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 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
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 Issuing Dept.: GoM SPU
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 220 - Air Operations					
Incident:		Prepared By:			at:
Period:		Version Name:			
Personnel and Communications					
Title/Position	Name	Air/Air Frequency	Air/Ground Frequency	Phone	
Planned Flight Information					
Type Of Aircraft	Operating Base	Aircraft Company	Passenger Capacity	Purpose	Scheduled Flights
Notes (Special Instructions, Safety Notes, Hazards, Priorities)					
ICS 220 - Air Operations				© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
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ICS 223 – Health and Safety Message		
Incident:	Prepared By:	at:
Period:	Version Name:	
Major Hazards and Risks		
Narrative		
Signature:		
ICS 223 Health and Safety Message		© 1997-2009 TRG/dbSoft, Inc.



ICS 224 – Environmental Unit Summary	
Incident:	Prepared By: _____ at: _____
Period:	Version Name:
Area Environmental Data	
Priorities for Mitigating Environment and Cultural Impacts	
Wildlife Assessments and Rehabilitation	
Permits (Dispersants, Burning, and/or Other)	
Waste Management	
Other Environmental Concerns	
Logistical Support Needs	
ICS 224 - Environmental Unit Summary	
© 1997-2009 TRG/dbSoft, Inc.	

Title of Document: Regional Oil Spill Response Plan
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 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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ICS 231 – Meeting Summary		
Incident:	Prepared By:	at:
Period:	Version Name:	
Meeting Information		
Meeting Name:		
Meeting Date/Time:		
Meeting Location:		
Meeting Facilitator:		
Purpose and Attendees		
Purpose:		
Attendees:		
Agenda Outline		
Meeting Minutes		
ICS 231 Meeting Summary		© 1997-2009 TRG/dbSoft, Inc.



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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 233 – Open Action Tracker						
Incident:			Prepared By:		at:	
Period:			Version Name:			
Item Number	Description	Responsible Section/Person	Status	Start Date	Briefed	Target Date
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	
ICS 233 – Open Action Tracker			© 1997-2009 dbSoft, Inc.			

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 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
 Revision Date: 06/30/09
 Next Review Date: 06/30/11

UPS-US-SW-GOM-HSE-DOC-00177-2
 Custodian: Earnest Bush,
 Environmental Coordinator
 Document Administrator: Kristy McNease,
 GoM HSSE Document Mgmt Administrator
 Issuing Dept.: GoM SPU
 Control Tier: Tier 2 - GoM Region
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Regional Oil Spill Response Plan – Gulf of Mexico

Appendix L
ICS Forms

ICS 234 – Work Analysis Matrix		
Incident:	Prepared By:	at:
Period:	Version Name:	
Objectives		
Operations Objectives	Optional Strategies	Tactics/Work Assignments
ICS 234 – Work Analysis Matrix		© 1997-2009 dbSoft, Inc.

Title of Document: Regional Oil Spill Response Plan
 Authority: Dan R. Replogle,
 GoM EMS Mgmt Representative
 Scope: GoM EMS
 Issue Date: 12/01/00
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