
Southeast Texas and Southwest Louisiana
Area Contingency Plan
(SETX and SWLA ACP)

Risk Analysis: Area Planning Scenarios

Annex B
June 2025

Record of Changes

Change Number	Change Description	Part Number	Change Date	Name
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Southeast Texas and Southwest Louisiana Area Contingency Plan

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1000 Introduction

The ACP has been developed by the MSU Port Arthur Captain of the Port, in consultation with the Southeast Texas and Southwest Louisiana Area Committee and is based on an assessment of all potential sources of discharges in this area meeting the provisions of 40 CFR §300.210(c) of the NCP. The ACP is intended to be the fundamental element for building confidence that the plan addresses the necessary elements for planning a successful response within the area.

1100 Average Most Probable Discharge

The Coast Guard has determined Average Most Probable Discharge as the lesser of 50 barrels or 1% of a Worst Case Discharge for an offshore or onshore facility/pipeline/marine terminal, or the lesser of 50 barrels or 1% of cargo from a Tank Vessel during cargo transfer operations. This value was adopted for consistency with Federal Vessel and Facility Response Plans.

1200 Maximum Most Probable Discharge

The Coast Guard has defined Maximum Most Probable Discharge as the lesser of 1,200 barrels or 10% of the volume of a Worst Case Discharge for an offshore facility or onshore facility/pipeline/marine terminal; 2,500 barrels of oil for a vessel with an oil cargo capacity equal to or greater than 25,000 barrels; or 10% of the vessel's oil cargo capacity for vessels with a capacity less than 25,000 barrels for Tank Vessels. These values were adopted for consistency with Federal Vessel and Facility Response Plans.

1300 Worst Case Discharge

As defined by section 311(a) (24) of the Clean Water Act, the definition of a Worst Case Discharge in the case of a vessel is a discharge in adverse weather conditions of its entire cargo, and in the case of an offshore facility or onshore facility/pipeline/marine facility, the largest foreseeable discharge in adverse weather conditions. This definition has been adopted for consistency with Federal Vessel and Facility Response Plans.

At a minimum, this annex addresses the following area planning elements:

1. Oil spill discharge and hazardous substance release history.
2. A risk assessment of potential sources of discharges within the area.
3. A description of planning assumptions describing a realistic assessment of the nature and size of possible threat and resources at risk.
4. Planning scenarios that provide for a Worst Case Discharge (WCD), a Maximum Most Probable Discharge (MMPD), and an Average Most Probable Discharge (AMPD) from a vessel, offshore facility, or onshore facility operating in the area as applicable.

1400 Spill and Discharge History

Table 1: Record of Significant Discharges and Releases

Date	Location	Source V = vessel OSF = offshore facility ONF = onshore facility OP = Pipeline	Product	Amount (bbls)	Responsible Party
02 Aug 2004	Sunoco Logistics Anchorage, Nederland, TX Neches River	V/TB	#6	714	Buffalo Marine
11 Nov 2005	Federal Waters Gulf of Mexcio (America)	V – Integrated Tank barge	Slurry Oil	45,846	K-Sea Transportation
19 Jun 2006	Lake Charles, LA	ONF	Waste Product	71,450	CITGO
23 Jan 2010	Port of Port Arthur, TX	V/TB	Crude	11,000	American Eagle Tankers

1500 Risk Assessment

A high probability exists for a WCD to occur anywhere in the Southeast Texas and Southwest Louisiana planning area given the high volume of deep-draft vessels (tank and non-tank vessels), the prevalence of oil and gas support vessels, offshore facilities (drilling rigs), oil and petrochemical terminals, and tug/tank barge composites. In addition, the unpredictable and sudden severe weather during transitional seasons and afternoon thunderstorms during the summer increase the risk.

2000 Possible Sources of WCD

The sections below describe the scenarios surrounding the source of a WCD scenario for offshore facilities, onshore facilities/pipelines/marine terminals, tank vessels and non-tank vessels.

2100 Offshore Facilities/Pipelines

See Table 4 of Sub-section 3310 of the Southeast Texas and Southwest Louisiana Area Contingency Plan (SETX and SWLA ACP) for OCS facilities and pipeline WCD volumes. Also see Sub-section 3330: Gulf of Mexcio (America) Offshore Technical Information for Area Contingency Planning in the ACP for OCS WCD scenarios and modeling.

2200 Onshore Facilities/Pipelines/Marine Terminals

The WCD from an onshore facility, pipeline, or marine terminal will be contingent on the specific location, type of product, weather conditions and scenario in which the discharge occurs. The SETX and SWLA planning area is home to numerous onshore petrochemical facilities. Additionally, these facilities utilize thousands of miles of pipelines to receive feed stocks and transport products to other facilities and terminals.

The Chevron Beaumont Terminal in Beaumont, TX has been identified as the WCD from an onshore facility. The facility has a WCD of 370,620 barrels of crude oil. The terminal has a total of 7.2 million barrels of tank storage capacity, comprised of 66 tanks with capacities ranging from 15,000 to 360,000 barrels each. The Chevron Beaumont Terminal can receive and redeliver crude oil and products via barge, ship, tank truck, tank rail car and pipeline. The facility can also store and/or blend crude oil or products for short or long-term periods.



Picture 1: Chevron Beaumont Terminal in Beaumont, TX

2300 Rail

The WCD from rail would be from BNSF/Union Pacific in Jefferson County, with 12,857 barrels (540,000 gallons) of oil products.

2400 Tank Vessels Offshore

The WCD from a tank vessel originating in the SETX and SWLA planning area has been identified as the total loss of a Very Large Crude Carrier (VLCC). These types of vessels carry approximately 2 million barrels of Arabian heavy crude (API 27.67) as cargo on board.

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The likely scenario involving the total loss of a VLCC would be a collision of a VLCC and another VLCC in the South Sabine Lightering Area (28-32 N, 093-40 W) resulting in the total loss of one of the VLCCs and all product on board.



Picture 2: VLCC EAGLE VIRGINIA

The VLCC EAGLE VIRGINIA is considered to be the largest crude oil tank ship that arrives at the Lightering Zone of the SETX and SWLA ACP planning area. Owned by American Eagle Tankers Houston, TX, the vessel is 333 meters (1,092.5) long with a Dead Weight Tonnage (DWT) of 307,000 tons, with a draft of 75 feet. The M/V EAGLE VIRGINIA is capable of transporting 2,000,000 barrels of crude oil. In order to transport the crude oil to the ports of Port Arthur, Lake Charles and Houston, four lightering ships are used to transport the cargo. As a reference point the VLCC EAGLE VIRGINIA is three times the DWT of the vessels it lighters to which are mainly AFRAMAX tankships. In Cargo Capacity an AFRAMAX used for lightering into the Port of Port Arthur or Beaumont has a capacity of 419,000 barrels.

A WCD incident would involve any of the lightering ships colliding with the EAGLE VIRGINIA in a fog laden lightering zone which would break the VLCC in half discharging all 2,000,000 barrels of crude oil into the Gulf of Mexico (America).

2500 Tank Vessels within the Sabine Neches Channel



Picture 3: MV EAGLE OTOME

On January 23, 2010, the 810-foot-long tanker EAGLE OTOME allided with the 597-foot-long general cargo vessel GULF ARROW at the port of Port Arthur, Texas. The EAGLE OTOME was subsequently struck by a 297-foot-long barge, the Kirby 30406, which was being pushed by the towboat DIXIE VENGENGE.

As a result of the accident, an estimated 462,000 gallons of oil spilled into the water. This was the largest Oil Spill recorded in the State of Texas in the last 16 Years. It was also the largest Oil Spill in the Sabine-Neches Channel in over 30 years.

MSU Port Arthur Personnel immediately utilized the Southeast Texas/Southwest Geographic Response Plan and the Unified Command of Coast Guard and Texas General Land Office immediately dispatched local OSRO's to implement the Sabine-Neches Channel Booming strategies identified in the GRP. As a result, the largest oil spill in the State of Texas resulted in minimal environmental and economic impact and the channel was quickly opened to expedite the Marine Transportation system.

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handling, and storage of oil, along with the activities associated with offshore oil and gas exploration and production within the area provide high consequence situations for a WCD. Factor in natural disasters such as tropical storms and other severe weather events, the likelihood of a major spill occurring in the area increases significantly.

3101 Offshore Facilities

Please see Sub-section 3330 of the ACP for information related to oil and gas exploration and production.

3102 Response Resources for WCD Offshore Platform Scenarios

For a list of the most up to date offshore response resources please see the Marine Well Containment Company ([MWCC](#)) or the [HWCC](#) websites; additional links to offshore resource may be found in Section 7000 of the ACP base plan.

Table 2: List of Blowout and Firefighting Specialists

Firefighting Boats	
<i>Edison Chouest Offshore, Inc.</i> - Galliano, LA	(985) 601-4444
Jackup Boats	
<i>Cudd Energy Service</i> Houston, TX	(832)295-5555
Houston, TX Toll Free	(800) 899-1118
Robstown, TX	(361) 387-8521
Robstown, TX Toll Free	(800) 762-6557
<i>Danos & Curole</i> - Larose, LA	(985) 693-3313
<i>Global Industries</i> Carlyss, LA	(337) 583-5000
Toll Free	(800) 256-7587
<i>Tetra Applied Technologies</i> – Belle Chasse, LA	(504) 394-3506
Firefighting Experts	
<i>Boots & Coots</i> - Houston, TX – Toll Free	(800) 256-9688 / (281) 931-8884
<i>Cudd Energy Service</i> / Houston, TX	(713) 849-2769 / (832) 295-5555
Toll Free	(800) 899-1118
<i>Wild Well Control</i> - Houston, TX	(281) 784-4700
<i>Williams Fire & Hazard Control</i> Vidor, TX	(281) 999-0276
Alternate Number	(409) 727-2347

3103 Planning Scenarios

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Given the applicable conditions described above, the WCD volumes from all potential sources is listed in the table below. The MMPD and the AMPD scenario volume is calculated based on a fixed number established for an offshore facility, an onshore facility/pipeline/marine terminal, or a percentage of the WCD rate from each potential source. For tank and non-tank vessels, the MMPD and the AMPD scenario volume is calculated based on a fixed number, a percentage of the cargo capacity, or the cargo transfer rate.

3120 Response Resources for WCD Offshore Platform Scenarios

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3130 Planning Scenarios

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