

# Emergency Management/Force Readiness USCG Sector Sault Sainte Marie

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# Oil Spill Response Technology and Challenges Overview

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Sector Sault Sainte Marie AOR/Responsibilities

Risk Analysis (Greatest Threats)

Technology Integration for Spill Mitigation

Effectiveness/Challenges

# Sector Sault Area of Responsibility





# NMAC Risk Analysis

COMDTINST M16000.14A states the NCP mandates that an ACP be adequate to remove a WCD from a vessel, onshore or offshore facility. It is the responsibility of the FOSC to plan for WCD events from pipelines, rail, offshore facilities, on-shore facilities and vessels...and that WCD scenarios that may impact the Coastal Zone waterways are accounted for and addressed in the ACP.

**Worst Case Discharge (WCD) Summary Table**

Mode of Transportation	Name	WCD Volume
Facility	Venture Oil/US Oil Rogers City	80,000 bbls (3,360,000 gallons)
Vessel	Algo Tank Vessel	75,298 bbls (3,162,516 gallons)
Pipeline	Enbridge Line 5	6,658 bbls (279,636 gallons)
Rail	CN Rail	TBD
Mobile Facility	Tanker Truck	357 bbls (15,000 gallons)

# Emergency Management/Force Readiness Plans and Exercises



Northern Michigan Area Contingency Plan (NMACP)

Canada/US Lakes (CANUSLAK JCP Annex 1)

Straits of Mackinac Geographic Response Plan (GRS)

St. Mary's River (GRS)

U.S. 2 Corridor (GRS)

2010: Munising TTX (Vessel)

2011: St. Mary's River (CANUSLAK) FSE (Vessel)

2012: Beaver Island TTX (Aircraft)

2013: Charlevoix TTX (Tanker Truck)

2014: Indian River FSE (Pipeline)

2015: Straits of Mackinac FSE (Pipeline)

2016: Manistique TTX (Pipeline)

2017: Manistique TTX (Rail)

2018: Manistique FSE (Rail)

2019: Rogers City Workshop (On-Shore Facility)

\* 2012/2013 Additional Straits of Mackinac Oil-in-Ice Demonstrations



# Technology

In-Situ Burn

FLIR

Herding

Aerostats/Drones

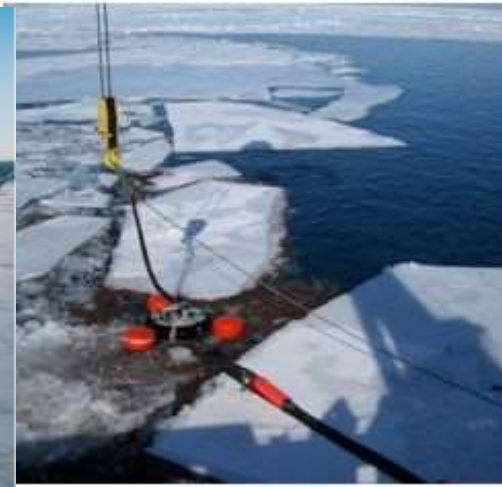
ROVs/AUVs

COP

Ice Cages

Autonomous Vehicles

HD Radar





# Challenges





# Questions

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