USCG Regulations for Group V Oils and OSRO Classification Guidelines for Non-Floating oils



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Definitions

- Group IV—specific gravity equal to or greater than .95 and less than or equal to 1.0.
- Group V—specific gravity greater than 1.0.
- *Oil spill removal organization (OSRO)* means an entity that provides oil spill response resources.
- FRP-Facility Response Plan
- VRP-Vessel Response Plan

The Regulations

- **§ 154.1047** Response plan development and evaluation criteria for <u>facilities</u> that handle, store, or transport Group V petroleum oils.
- **§ 155.1052** Response plan development and evaluation criteria for <u>vessels</u> carrying group V petroleum oil as a primary cargo.

33 CFR 154.1047(a)(1) and 33 CFR 155.1052(a)(1)

- plan holders must identify <u>procedures</u> and <u>strategies</u> for responding to a Worst Case Discharge of Group V petroleum oils to the maximum extent practicable.
- Both facility and vessel regulations require the plan holder take in to account operating conditions such as, Ice conditions, Debris, Temperature ranges and Weather-related visibility.

Equipment

- Sonar, sampling equipment, or other methods for locating the petroleum oil on the bottom or suspended in the water column;
- Containment boom, sorbent boom, silt curtains, or other methods for containing the petroleum oil that may remain floating on the surface or to reduce spreading on the bottom;
- Dredges, pumps, or other equipment necessary to recover petroleum oil from the bottom and shoreline;
- Equipment necessary to assess the impact of such discharges; and
- Other appropriate equipment necessary to respond to a discharge involving the type of petroleum oil handled, stored, or transported.

24 Hours!

- § 154.1047 (d) Response resources identified in a response plan for a facility that handles, stores, or transports Group V petroleum oils under paragraph (c) of this section must be capable of being at the spill site within 24 hours of discovery of a discharge.
- § 155.1052 (d) Response resources identified in a response plan under paragraph (c) of this section must be capable of being deployed within 24 hours of discovery of a discharge to the port nearest the area where the vessel is operating.

Reason for NFO Vs. Group V OSRO Classification

- The Non-Floating Oil (NFO) classification is an attempt by CG-HQ to address a short fall in regulation by incorporating "heavy" oils and group V oils into a single classification.
- What has been observed in the field is that some group IV oils have acted similar to group V oils in that they sank given the correct conditions (weathering, water/air temperature, sea state, etc.)
- Since these oils are defined as group IV oils the FRPs/VRPs didn't have the correct tools or possibly capable OSROs to respond.

Classification Process

- Working with CG-HQ, the National Strike Force Coordination center updated the Classified OSRO Guidelines.
- The guidelines included a new portion for NFO classification, and a NFO application process.
- CG-HQ & NSFCC worked together to create an evaluation guide, created using API NFO reports. This evaluation guide is used to ensure unbiased review meeting minimum standards.
- The evaluation guide breaks down essential and optional equipment standards needed for classification. This will be applied to each District/COTP the OSRO applies for.
- Each application will be reviewed by at least, one CG-HQ rep, one NSFCC rep, and one DRAT for each district the OSRO is applying for. NOAA Scientific Support Coordinators (SSC) can be called on for further support.

48

Table 3-2—Matrix to Evaluate Technologies For Detection, Delineation, and Characterization of Sunken Oil

	Sonar Systems	Camera/ Video	Acoustic Camera	Diver Observations	Towed Sorbents	Stationary Sorbents	Visual Observations	Bottom Sampling	Manual Shovel Pits	Laser Fluorosensor
Water Depth (ft)	10 to 1000	10 to 1000	10 to 1000	5 to 190	5 to 100	5 to 100	0 to 30	0 to 1000	0 to 5	10 to 100
Water Visibility										
— >30 ft		14 - X			2 X				2	
- 5 to 30 ft										
— <5 ft										
Availability										
Substrate Type										_
- Sand								8		
- Silty sand								-		
— Mud										
Bottom Obstruction										
Oil Patch Size	1							l i	ĺ	
— <0.1 ft ²	·									
- 0.1 to 1 ft ²				1						
— >1 to 10 ft ²					2 - 2			1 I		1
— >10 ft ²	<u>n</u>									
Oil Thickness										
Buried Oil										
Sensitive Habitat										
False Positives										
Coverage Rate	-									
Data Turnaround	-		1			1				

API Tech RP 1154-1

NFO Classification Review

OSROs Submit Application IAW Guidelines

> NSFCC, CG-MER & District Review Application – Focus on Administrative Requirements & Concept of Operations

> > Upon Success, Resources Added To The Response Resource Inventory (RRI)

> > > **Resources Validated With A (Joint) PAV**

Challenges/Goals

- Voluntary Program
- Hold to minimum standards
- Area of expertise not widely known
- Completion of NFO GIUEs and NFO PAVs
- Limited CG personnel to complete review

References

Reading

- API tech report 1154-1 Sunken Oil Detection and Recovery
- CG-D-09-13 report Development of Bottom Oil Recovery Systems
- National Research Council ISBN:0-309-52015-0 Spills of Nonfloating Oils: Risk and Response

Guidance

- OSRO Classification Guidelines 03/2016
- Preparedness Assessment Visit TTP, PAV Team Leader Qualification
- 33 CFR parts 154 and 155