



NEW ENGLAND REGION OIL DISPERSANT AUTHORIZATION GUIDE

PURPOSE

Dispersant is a chemical reagent specifically designed to enhance the dispersion of oil into the water column by breaking the oil into small droplets that can then be entrained down into the water column by wave energy or tidal action. The small size, submerged oil droplets are more amenable to natural processes such as dispersion, dissolution, biodegradation, photolysis or sorption to small particulate organic carbon that may be floating suspended in the water column.

This guide is a tactical decision making tool that provides a process for approving the use of chemical dispersants in coastal New England and is not necessarily associated with a preauthorization memorandum.

This guide is coordinated between the Region 1 Regional Response Team (RRT-1) agency members when a decision is needed on the use of chemical dispersant when preliminarily considered a response option for oil spills in New England marine coastal waters and addressed by RRT-1, with exception of Long Island Sound¹.

The coast of New England is divided into three zones for dispersant use consideration:

1. No Preauthorization Zone: shoreline out to 3-nautical miles offshore.
2. Partial Preauthorization Zone: 3-nautical miles to 12-nautical miles offshore, and water depth >33-feet.
3. Preauthorization Zone: 12-nautical miles offshore and beyond, and water depth >33-feet.

The decision to use chemical dispersant involves trade-offs between *decreasing* the potential oil exposure of organisms that inhabit the surface layer of water or coastal environments where an oil discharge could wash ashore, and *increasing* the potential exposure of organisms offshore within the water column beneath the oil spill caused by dispersant and small oil droplets mixing down into the water column. Trading one perceived risk to a valued resource or ecosystem service at one location for another of lesser relative value or service is an incident-specific decision the enclosed worksheets are designed to assist in making. These worksheets, when completed, include information on what agencies judge to be of high relative value and consequence should an oil discharge impact the resources identified specific to season, location, water chemistry, oil fate and transport, ecology, biology, and economy.

The oil dispersant authorization guide provides guidance for completing a:

- Dispersant Use Authorization Recommendation
- Dispersant Use Authorization Decision Document
- Dispersant Use Request Application
- Incident-Specific Resource Screening
- Dispersant Authorization Checklist
- Dispersant Use After Action Report.

NOTE: ¹ Use of chemical dispersant is not authorized in Long Island Sound defined geographically as west of a north-south line between Watch Hill Light, Rhode Island (Lat. 41-18-14N / Long. 71-51-30W) and Montauk Point Light, New York (Lat. 41-04-16N / Long. 71-51-26W) on NOAA Chart #13205. Incident-specific request for chemical dispersant use in Long Island Sound shall be based on the non-preapproval method in Subpart J of NCP (40 CFR Part 300.910).



AUTHORITY

The Commandant of the U. S. Coast Guard has designated the Coast Guard Captains of the Port (defined in 33 CFR Par 3) as the Federal On-Scene Coordinators (FOSCs) for coastal oil discharges subject to the joint response boundary agreements with EPA. FOSCs are delegated the authority and responsibility to act in compliance with the Federal Water Pollution Control Act and its amendments (33 USC 1221, et seq., as amended) on behalf of the United States .

Subpart C of the National Contingency Plan (NCP; 40 CFR Part 300) directs the Region 1 Regional Response Team (RRT-1) to conduct regional planning and coordinate preparedness and response actions in conjunction with Area Committees in the case of oil discharges. This authorization guide assists in making expeditious response decisions regarding the use of dispersant to minimize or mitigate adverse impacts on fish and wildlife resources, their habitat and other sensitive or economically important environments [40 CFR Part 300.20(c)(4)(ii)(D)] and provides an administrative record for a decision basis.

Subpart J of the NCP (40 CFR Part 300.910) addresses regulatory concurrence and consultation requirements for dispersant use authorization. The present document guides a joint decision by the FOSC, State On Scene Coordinator (SOSC), Federal natural resource trustees, members of Unified Command (UC) and other key stakeholders on whether or not to authorize the use of chemical dispersant on oil discharges in US waters within the coastal zones of Maine (ME), New Hampshire (NH), Massachusetts (MA) and/or Rhode Island (RI). Chemical dispersant is not approved for use in Long Island Sound except by a non-preapproval method in Subpart J of the NCP.

U.S. Department of Interior (DOI) and U.S. Department of Commerce/National Oceanic and Atmospheric Administration (DOC/NOAA) are Federal natural resource trustees with whom the action agency is required to consult as indicated in Subpart G of the NCP regarding FOSC-directed removal actions during a response.



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Part 1: Dispersant Use Authorization Recommendation to Unified Command

Summary Dispersant Use Authorization and Deployment Recommendations

	Recommend: APPROVE
	Recommend:.....DISAPPROVE
	Recommend:.....APPROVE WITH CONDITIONS

Explanation & Conditions:

	Check if additional comments are attached
--	--

These recommendations are verified by:

	Title	Name (print)	Signature
	Environmental Unit Leader		
	Scientific Support Coordinator		



Part 2: Dispersant Use Authorization Decision Document & Signatures

(When signatures cannot be immediately obtained in person or via email or fax, verbal input will suffice until signatures can be obtained.)

Incident: _____

U.S. Department of the Interior RRT-1 Representative (*Consultation Required*):

- _____ Does not support the use of dispersants (reasons attached)
- _____ Agrees with dispersant use in the selected areas under attached conditions
- _____ Agrees with dispersant use as requested in the application form

Signature

Printed Name

Time/Date

U.S. Department of Commerce RRT-1 Representative (*Consultation Required*):

- _____ Does not support the use of dispersants (reasons attached)
- _____ Agrees with dispersant use in the selected areas under attached conditions
- _____ Agrees with dispersant use as requested in the application form

Signature

Printed Name

Time/Date

U.S. Environmental Protection Agency RRT-1 Representative (*Concurrence Required*):

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date

IF APPLICABLE, EPA RRT-2 Representative (*Concurrence Required*):

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date

IF APPLICABLE, Government of Canada (*Consultation Recommended*):

- _____ Does not support the use of dispersants (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date



Part 2: Dispersant Use Authorization Document, Continued

Incident: _____

State of _____ (*Concurrence Required*):

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date

State of _____ (*Concurrence Required*):

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date

State of _____ (*Concurrence Required*):

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form

Signature

Printed Name

Time/Date

Federal On-Scene Coordinator Decision

- _____ No dispersants may be applied (reasons attached)
- _____ Dispersant use is postponed (reasons attached)
- _____ Dispersants may be used in the selected areas under attached conditions
- _____ Dispersants may be applied as requested in the application form (reasons attached for the basis of determining that dispersant use would minimize overall environmental impacts)

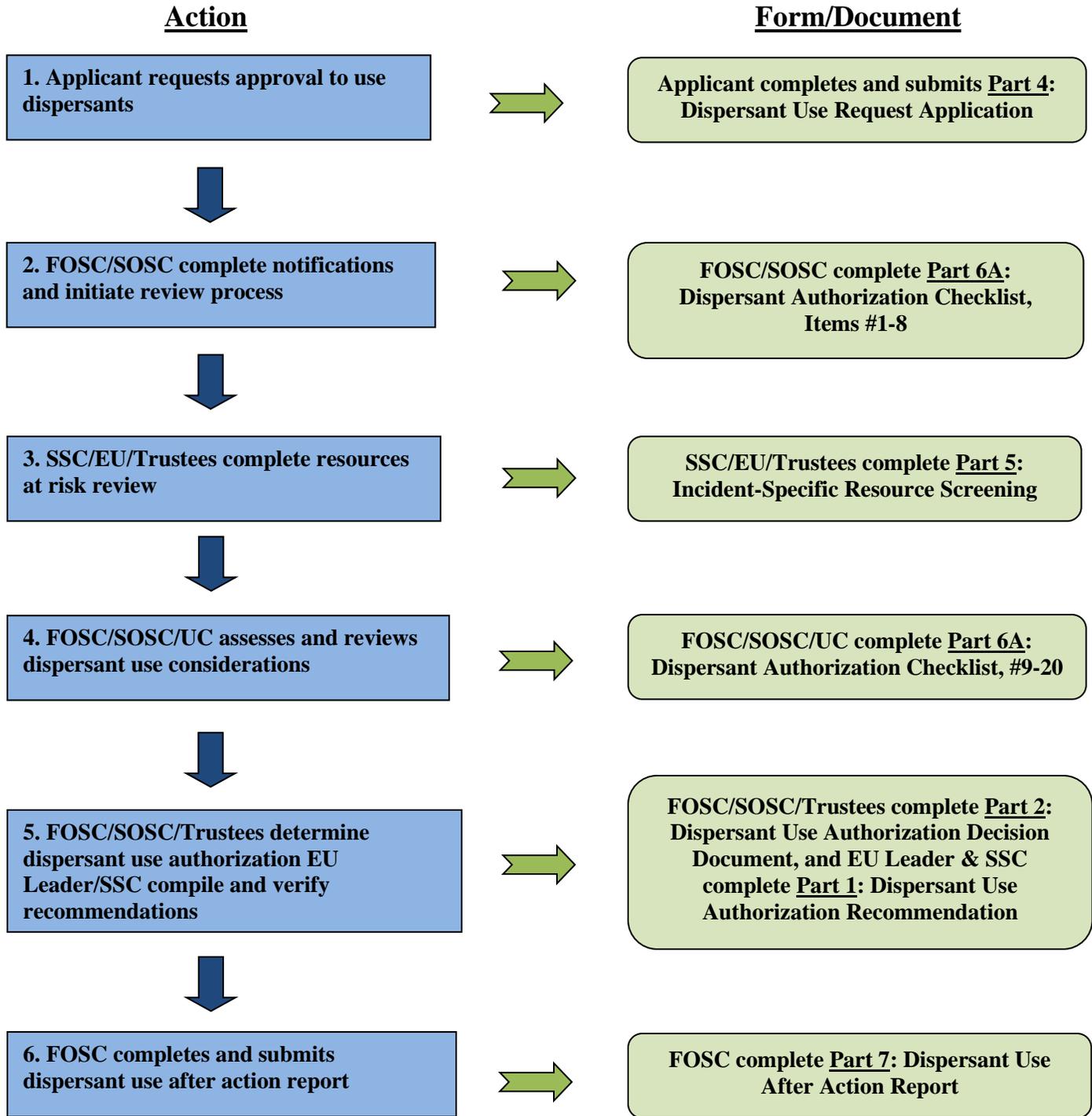
Signature

Printed Name

Time/Date



Part 3: Process for Dispersant Use Authorization Flow Chart





Part 4: Dispersant Use Request Application, Continued

WEATHER AND SEA CONDITIONS	DISPERSANT USE GUIDE																																				
<p>Check boxes and enter wind values in the following table:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;"></th> <th style="width:15%;">Present Condition</th> <th style="width:15%;">12-hour Forecast</th> <th style="width:15%;">24-hour Forecast</th> </tr> </thead> <tbody> <tr><td>Clear</td><td></td><td></td><td></td></tr> <tr><td>Partly cloudy</td><td></td><td></td><td></td></tr> <tr><td>Overcast</td><td></td><td></td><td></td></tr> <tr><td>Rain</td><td></td><td></td><td></td></tr> <tr><td>Snow</td><td></td><td></td><td></td></tr> <tr><td>Fog</td><td></td><td></td><td></td></tr> <tr><td>Wind speed (knots)</td><td></td><td></td><td></td></tr> <tr><td>Wind direction (from)</td><td></td><td></td><td></td></tr> </tbody> </table>			Present Condition	12-hour Forecast	24-hour Forecast	Clear				Partly cloudy				Overcast				Rain				Snow				Fog				Wind speed (knots)				Wind direction (from)			
	Present Condition	12-hour Forecast	24-hour Forecast																																		
Clear																																					
Partly cloudy																																					
Overcast																																					
Rain																																					
Snow																																					
Fog																																					
Wind speed (knots)																																					
Wind direction (from)																																					
<p>Proposed dates and times for application of dispersants: Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____</p> <p>Note: A dispersant application window of greater than 96 hours will require an additional request and approvals Distance to nearest staging area (airport/facility): _____mi What is the dispersant proposed for use? _____ Safety Data Sheet (SDS) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>What is the proposed dispersant to oil ratio? _____:_____</p> <p>How much total dispersant per acre is predicted? _____gallons</p> <p>What is the estimated percentage of spill slick area to be treated? _____percent</p> <p>Who will apply the dispersants? Individual/Affiliation: _____</p>																																					
<p>Visibility: _____ <input type="checkbox"/> miles <input type="checkbox"/> nautical miles Tidal state at _____ o'clock (check one): <input type="checkbox"/> Slack tide <input type="checkbox"/> Incoming (flood) <input type="checkbox"/> Outgoing (ebb) ✓ Attachment 1: Graph with tidal information for three tidal cycles. Dominant current (net drift): _____ Speed (knots): _____ Direction (to): _____</p> <p>Sea state: present condition (check one) <input type="checkbox"/> Calm <input type="checkbox"/> Choppy <input type="checkbox"/> Swell Sea state: 24-hour forecast (check one) <input type="checkbox"/> Calm <input type="checkbox"/> Choppy <input type="checkbox"/> Swell</p> <p>Waves (significant wave height), present condition: _____feet Waves (significant wave height), 24-hr forecast: _____feet</p> <p>Depth of water at target(s): _____feet Water temperature: _____degrees F Water salinity: _____parts/thousand If ice is present, describe: _____</p> <p>Next sunrise: _____ Next sunset: _____</p>																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Application Method</th> <th style="width:10%;">Est. Dispersant Cap/Sortie</th> <th style="width:20%;">Estimated Number of Sorties</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/> Boat</td><td></td><td></td></tr> <tr><td><input type="checkbox"/> Fixed Wing, Type:</td><td></td><td></td></tr> <tr><td><input type="checkbox"/> CASA</td><td></td><td></td></tr> <tr><td><input type="checkbox"/> Helicopter</td><td></td><td></td></tr> <tr><td><input type="checkbox"/> Other:</td><td></td><td></td></tr> </tbody> </table>		Application Method	Est. Dispersant Cap/Sortie	Estimated Number of Sorties	<input type="checkbox"/> Boat			<input type="checkbox"/> Fixed Wing, Type:			<input type="checkbox"/> CASA			<input type="checkbox"/> Helicopter			<input type="checkbox"/> Other:																				
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<input type="checkbox"/> CASA																																					
<input type="checkbox"/> Helicopter																																					
<input type="checkbox"/> Other:																																					
<p>Distance from source: _____miles Distance from nearest shoreline: _____miles</p> <p>✓ Attachment 2: Provide a chart with a distance scale. Chart must include: 1) estimated spill trajectory and landfalls with time; 2) location and distance of proposed dispersant application relative to zone boundaries, and other response activities including ISB; 3) dispersant tactic summary and how it will augment the response; and 4) critical fish and wildlife observation (with time of observations) relative to the oil slick.</p>																																					
<p>CRITICAL WILDLIFE OBSERVATIONS</p> <p>Have fish swarms, birds, and/or marine mammals been observed near the oil slick? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please answer the following:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Type observed (e.g., birds, seals, whales, fish)</th> <th style="width:40%;">Estimated Number</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>		Type observed (e.g., birds, seals, whales, fish)	Estimated Number																																		
Type observed (e.g., birds, seals, whales, fish)	Estimated Number																																				
<p>DISPERSANT USE HEALTH AND SAFETY PLAN</p> <p>Does the site-specific health and safety plan consider the use of chemical dispersants? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>✓ Attachment 3: Relevant portion of health and safety plan, including SDS.</p>																																					
<p><i>(Include in the chart being submitted as Attachment 2 the proximity of the above observed fish and wildlife)</i></p>																																					



Part 4: Dispersant Use Request Application, Continued

DISPERSANT SYSTEM APPLICATION	SIGNATURES
<p>Application system design:</p> <ul style="list-style-type: none"> Designed specifically for this purpose? <input type="checkbox"/> Yes <input type="checkbox"/> No Used previously for this purpose? <input type="checkbox"/> Yes <input type="checkbox"/> No Tested to be effective and safe? <input type="checkbox"/> Yes <input type="checkbox"/> No Meet manufacturer's recommendations? <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Application personnel are trained and/or experienced in the use of dispersants and this application system? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Aerial application system:</p> <ul style="list-style-type: none"> A qualified Dispersant Controller & Spotter will be in a separate aircraft over the spray area and will be able to direct operations, including avoidance of fish and wildlife? <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Boat application system:</p> <ul style="list-style-type: none"> A qualified Dispersant Controller will oversee operations? <input type="checkbox"/> Yes <input type="checkbox"/> No System components meet relevant ASTM standards? <input type="checkbox"/> Yes <input type="checkbox"/> No <p>✓ Attachment 4: Description of dispersant application system and application team personnel: name(s), title(s), affiliation(s), and qualifications.</p>	<p>Applicant:</p> <p>_____</p> <p>Applicant's Representative (Printed Name and Signature)</p> <p>Applicant representative contact cell phone: _</p> <p>—</p> <p>Prepared by:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>COMMUNICATIONS PLAN</p>	
<p>Describe the communications plan to be used for communications between and among the Unified Command, Dispersant Controller, SMART Team, and dispersant applications platform(s):</p>	<p>Date and time submitted to Environmental Unit Leader</p>
<p>DISPERSANT MONITORING</p>	
<p>Indicate the SMART monitoring to be used:</p> <ul style="list-style-type: none"> Tier 1: <input type="checkbox"/> Yes <input type="checkbox"/> No Tier 2: <input type="checkbox"/> Yes <input type="checkbox"/> No Tier 3: <input type="checkbox"/> Yes <input type="checkbox"/> No <p>Describe other monitoring to be used: _____</p> <p>Describe monitoring platform(s) that will be used: _____</p> <p>Identify name, title, affiliation, and qualification of each monitoring team member: _____</p>	<p>Date _____ Time _____</p> <p>Environmental Unit Leader</p> <p>Printed Name and Signature _____ Date/Time _____</p>



Part 5: Incident-Specific Resource Screening

(Coordinated by the SSC & Environmental Unit)

Prepared by:	Other	Geographic Area Evaluated		<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Birds	Description of water body and location:					
Seabirds	Geographic coordinates:		<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Waterfowl			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Diving birds	Source of Information Code:		<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Rafting birds	1 ESIs	4 Other (1)	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Shorebirds	2 GRP/GRSSs	5 Other (2)	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Wading birds	3 ICS 234 or NOAA RAR Rpt	6 Other (3)	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Raptors	Present/Absent/ Abundance/ Unknown	Source of Info Code	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Category	Other		Vulnerability to Surface Oil:	Proportion of Regional Resource ¹ :	Vulnerability to Dispersed Oil	
Benthic/Intertidal Biological Species	* U = Unknown N = None L = Low H = High					
Demersal fish			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Crustaceans			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
State or Federal Endangered/Threatened/Candidate/Species of Concern (if present, attach species list)			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Shellfish			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Migratory birds			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Other			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Baleen whales			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Sea turtles			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Fish			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Critical Habitat			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H

Part 5: Incident-Specific Resource Screening, Continued

Category	Present/Absent/ Abundance/ Unknown	Source of Info Code	Vulnerability to Surface Oil	Proportion of Regional Resource	Vulnerability to Dispersed Oil
Pelagic/Water Column					
Pelagic & larval fish			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Plankton			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Larval lobster			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Pinnipeds			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Baleen whales			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Toothed whales/Cetaceans			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Comments:					

¹ This is an estimate of the proportion of the regional population of a key species that is likely located in the geographic area evaluated during the spill response and potentially impacted. It provides an indication of the scale of the potential impacts to the species.



Maine Oil Spill Contingency Plan Appendix VII, Attachment 1
DRAFT DOCUMENT AS OF APRIL 15, 2020

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Habitat * U = Unknown N = None L = Low H = High

Marshes			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Eel grass			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Tidal flat			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Sheltered rocky shore			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Beach			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
High energy rocky shore			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Ice			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H

Comments:

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Part 5: Incident-Specific Resource Screening, Continued

Category	Present/Absent/ Abundance/ Unknown	Source of Info Code	Vulnerability to Surface Oil	Proportion of Regional Resource	Vulnerability to Dispersed Oil
Special Designations					
Critical Habitat (ESA)			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Essential Fish Habitat			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Sanctuary/protected lands			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Tribal			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Cultural/historic			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H

Comments:

Commercial

Aquaculture facilities			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Shellfish harvesting			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Fishery			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Industrial			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H
Other			<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H	<input type="checkbox"/> U <input type="checkbox"/> N <input type="checkbox"/> L <input type="checkbox"/> H

Comments:

Overall Recommendations:



Part 6A: Dispersant Authorization Checklist

If “no” is checked for any of the above questions, the FOSC will document in Part 4, reasons for making that determination and what, if anything, may be done to change the response to “yes.”

	YES	NO	CONSIDERATIONS
1.	<input type="checkbox"/>	<input type="checkbox"/>	Dispersant Use Request Received: The Applicant has submitted a completed Dispersant Use Request (Part 4).
2.	<input type="checkbox"/>	<input type="checkbox"/>	Mobilization: The Applicant (RP) has been directed to mobilize resources for dispersant use. The Environmental Unit has been directed to begin to complete dispersant request checklists.
3a.	<input type="checkbox"/>	<input type="checkbox"/>	Notifications: The following entities have been notified of the potential dispersant use for this incident: a) Applicable State(s) RRT Representatives (RRT-1 and possibly RRT-2 state(s)) b) U. S. Environmental Protection Agency (EPA) RRT-1 (if applicable, EPA RRT-2) c) U.S. Department of the Interior (DOI) RRT-1 representative (or alternate) d) U.S. Department of Commerce (DOC) RRT-1 representative (or alternate) e) Appropriate federally-recognized tribes (identify representative(s)):
3b.	<input type="checkbox"/>	<input type="checkbox"/>	
3c.	<input type="checkbox"/>	<input type="checkbox"/>	
3d.	<input type="checkbox"/>	<input type="checkbox"/>	
3e.	<input type="checkbox"/>	<input type="checkbox"/>	
4.	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring: Agreed-upon monitoring team(s) and/or USCG Strike Team/Special Monitoring of Applied Response Technologies (SMART) Team requested.
5.	<input type="checkbox"/>	<input type="checkbox"/>	Endangered Species Act (ESA) Consultations: The U.S. Fish and Wildlife Service (FWS) and/or NOAA Fisheries ESA contact(s) have been notified and, if appropriate, ESA Section 7 consultation(s) have begun in accordance with the ESA Memorandum of Agreement.
6.	<input type="checkbox"/>	<input type="checkbox"/>	Essential Fish Habitat (EFH) Consultations: NOAA Fisheries EFH contact has been notified and, if appropriate, EFH consultations have begun.
7.	<input type="checkbox"/>	<input type="checkbox"/>	Assessment: Available technical and scientific information, including results from the ADIOS model, suggests that the discharged oil is dispersible. The analysis delineates the conditions and timeframe in which the oil is no longer dispersible. Identify source(s) relied upon: _____
8.	<input type="checkbox"/>	<input type="checkbox"/>	NCP Listed Dispersant: The dispersant to be used is listed on the current NCP Product Schedule, is considered appropriate for the existing environmental and physical conditions, and its use is consistent with the recommended application information provided in the NCP Product Schedule Technical Notebook. Identify source(s) relied upon: _____
9a.	<input type="checkbox"/>	<input type="checkbox"/>	Response Considerations: a) Has mechanical response been deemed to be ineffective and/or inadequate? If yes, specify reason(s) (e.g., availability, effectiveness, timeliness, sea state, spatial coverage, weather conditions): b) Is dispersant application being used to supplement mechanical recovery? c) Is <i>in-situ</i> burning being considered in conjunction with mechanical recovery and dispersant use? d) Is a map illustrating timing, tactics, and proximity of each response option to each other attached?
9b.	<input type="checkbox"/>	<input type="checkbox"/>	
9c.	<input type="checkbox"/>	<input type="checkbox"/>	
9d.	<input type="checkbox"/>	<input type="checkbox"/>	
10a.	<input type="checkbox"/>	<input type="checkbox"/>	Dispersant Availability and Timeliness: Sufficient dispersant application and monitoring equipment has been confirmed to be available: a) to meet the conditions of use in the Dispersant Use Guide (see Part 2), and b) to deploy within the conditions and time frame when the oil will be dispersible.
10b.	<input type="checkbox"/>	<input type="checkbox"/>	
11.	<input type="checkbox"/>	<input type="checkbox"/>	Weather and Sea Conditions: Predicted weather and sea conditions are conducive to dispersant application by the chosen system or platform. (Generally, for aerial application, wind \leq 25 kts (28.77 mph), visibility \geq 3 nm (3.45 miles), and ceiling \geq 1,000 ft. Generally, for boat application, a sea state that will allow the vessel to be used to conduct an effective and safe spray operation.) Identify any updated conditions: _____
12.	<input type="checkbox"/>	<input type="checkbox"/>	Personal Protective Equipment (PPE): PPE for all personnel involved in, or affected by, dispersant application conforms to the site-specific health and safety plan and has been confirmed to be available.
13.	<input type="checkbox"/>	<input type="checkbox"/>	General Adequacy of Dispersant Spray System and Personnel Competency: Has the suitability of designated dispersant spray system to be used and competence of key operators been confirmed?
14.	<input type="checkbox"/>	<input type="checkbox"/>	Aerial Application Operational and Technical Issues: In the case of aerial application of dispersants, will a trained Dispersant Spotter be flying over the spray area in a separate aircraft when dispersants are applied?



Part 6A: Dispersant Authorization Checklist, Continued

	YES	NO	CONSIDERATIONS	
15.	<input type="checkbox"/>	<input type="checkbox"/>	Vessel Application Operational Technical Issues: If the system involves spray arms or booms that extend over the edge of a boat and has fan type nozzles that spray a fixed pattern of dispersant, has the Applicant confirmed that the dispersant application will comply with pertinent industry standards?	
16a.	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring Protocols/Deployment: a) Have the agreed-upon monitoring team(s) and/ or USCG Strike Team SMART Team been activated? b) Are they prepared to fly over the response area to conduct Tier 1 visual monitoring during every dispersant application? c) Are they prepared to implement the Tier 2 and Tier 3 water column monitoring component of the SMART monitoring protocols for every dispersant application? d) Are wildlife observers prepared to accompany Tier 1 monitors to watch for swarming fish, rafting flocks of birds, marine mammals in the water, and marine mammal haul-outs? e) Are there additional monitoring requirements? If so, identify: _____ and indicate if appropriate entities are prepared to implement any additional requirement?	
16b.	<input type="checkbox"/>	<input type="checkbox"/>		
16c.	<input type="checkbox"/>	<input type="checkbox"/>		
16d.	<input type="checkbox"/>	<input type="checkbox"/>		
16e.	<input type="checkbox"/>	<input type="checkbox"/>		
17.	<input type="checkbox"/>	<input type="checkbox"/>	Communications: Has a communications plan been developed that will allow communications between and among the Unified Command, Dispersant Spotter, all monitoring team(s), and dispersant applications platform(s)?	
18.	<input type="checkbox"/>	<input type="checkbox"/>	Natural Resource Trustee Input: Has the FOSC received input from federal natural resource trustees on incident-specific resources at risk (see Part 5)?	
19a.	<input type="checkbox"/>	<input type="checkbox"/>	Conditions/Stipulations: Will the following application conditions and stipulations be included in any dispersant application? a) Dispersant application will be in accordance with the approved dispersant application plan. b) Dispersants will only be applied in areas where the water depth is ≥ 10 meters. c) Dispersant applications will maintain a minimum 500 meters (1,640 feet) horizontal separation from swarming fish, rafting flocks of birds, marine mammals in the water, and marine mammal haul-outs. d) Federal Aviation Administration Temporary Flight Restrictions and Notice to Airmen and/or FWS flight and vessel restrictions to avoid disturbing marine mammal on haul-outs will be followed. e) Dispersant applications will only be carried out in daylight conditions. f) DOI and/or DOC (or a third party observer acceptable to DOI and/or DOC) will provide a specialist in aerial surveying of marine mammals and/or pelagic birds to accompany the SMART observer. g) Monitoring protocols required by EPA, State, and/or DOI and DOC natural resource trustees (e.g., ESA compliance) will occur. h) Prolonged dispersant application (over 96 hours from initial application) will be guided by the NRT "Environmental Monitoring for Atypical Dispersant Operations.". This will require an additional application and approval by FOSC and stakeholders. i) SMART Tier 1, 2, and 3 monitoring will occur during any dispersant application.	
19b.	<input type="checkbox"/>	<input type="checkbox"/>		
19c.	<input type="checkbox"/>	<input type="checkbox"/>		
19d.	<input type="checkbox"/>	<input type="checkbox"/>		
19e.	<input type="checkbox"/>	<input type="checkbox"/>		
19f.	<input type="checkbox"/>	<input type="checkbox"/>		
19g.	<input type="checkbox"/>	<input type="checkbox"/>		
19h.	<input type="checkbox"/>	<input type="checkbox"/>		
19i.	<input type="checkbox"/>	<input type="checkbox"/>		
20.	<input type="checkbox"/>	<input type="checkbox"/>		EPA, State(s), DOI, and DOC Input: Has the FOSC received input from the EPA, DOI, DOC, and State RRT-1 representatives, as well as any federally recognized tribes, on the dispersant request?



Part 6B: Detailed Instructions for Completing Part 6A

The following information outlines the procedures that shall be followed when the application of dispersants into marine waters off of New England is proposed as a response option for discharges of oil off the coasts of Maine, New Hampshire, Massachusetts, or Rhode Island. Detailed instructions for pursuing the dispersant use decision process outlined in Part 3 and for completing each of the 20 items listed on the Dispersant Authorization Checklist (Part 6A) follow:

1. **Request:** The Applicant, typically the Responsible Party (RP), notifies the Federal On-Scene Coordinator (FOSC) and Unified Command of their intention to prepare and submit a Dispersant Use Request Application (see Part 4). This completed request application will be used to inform the decision to authorize dispersant use and establish the parameters for the incident-specific use. If there is no RP identified, the FOSC, serving as the “Applicant”, will complete the Part 6A checklist.
2. **Mobilization:** The FOSC (working within a Unified Command structure) directs the Responsible Party (RP) to mobilize resources for dispersant use, while the RP completes the Dispersant Use Request Application (Part 4) and the Environmental Unit (EU) of the Incident Command immediately begins to complete the Incident-Specific Resource Screening in Part 5. The FOSC begins to complete the Dispersant Authorization Checklist, Part 6. Checklist information will be used to inform the decision to authorize dispersant use and establish the parameters of the incident-specific use. If there is no RP identified, the FOSC, serving as the “Applicant”, may direct mobilization of resources for dispersant use as noted above.
3. **Initial Notifications:** The FOSC immediately notifies the below entities of the decision to consider use of dispersants. Copies of the Dispersant Use Request Application (Part 4) are distributed once it is completed.
 - ✓ Applicable State(s) RRT Representatives (RRT-1 and possibly RRT-2 state(s))
 - ✓ U. S. Environmental Protection Agency (EPA) RRT-1 (if applicable, EPA RRT-2)
 - ✓ U.S. Department of the Interior (DOI) RRT-1 representative
 - ✓ U.S. Department of Commerce (DOC) RRT-1 representative
 - ✓ Appropriate federally-recognized tribes (identify representative(s))
4. **Monitoring:** The FOSC directs appropriate entities (i.e., previously-agreed upon third party (or parties) and/or government-led (typically the USCG Strike Team) Special Monitoring of Applied Response Technologies [SMART] Team) to mobilize Tier 1, 2, 3 monitoring protocols. The Unified Command may require additional monitoring or sampling as might be required by pre-agreement or by incident-specific request from the approving and/or consulting authorities.
5. **ESA Consultation:** The FOSC initiates, as appropriate, Endangered Species Act (ESA) Section 7 consultation(s) with U.S. Fish and Wildlife Service and/or National Oceanic and Atmospheric Administration (NOAA) Fisheries representatives in accordance with the ESA Memorandum of Agreement.
6. **EFH Consultation:** The FOSC initiates, as appropriate, Essential Fish Habitat (EFH) consultation with a NOAA Fisheries representative.
7. **Application/Screening/Checklist Documentation, Parts 4, 5 and 6A:** The National Oceanic and Atmospheric Administration (NOAA) Scientific Support Coordinator (SSC) and EU, in communication with the Operations Section, coordinates the collection of necessary supporting information (e.g., forecast modeling, currents, water temperature, salinity, and fish and wildlife observations) required in Parts 4 and 5. The RP Applicant submits the completed Part 4 and the EU Leader coordinates completion of Part 5.



- Once completed, Parts 4 and 5 are provided to other members of the Unified Command (UC) and representatives identified in Step 3 above. The FOSC continues to complete Questions 7-20 in Part 6A.
8. **NCP Listed Dispersant:** The FOSC confirms that the dispersant to be used is listed on the current NCP Product Schedule.
 9. **Response Considerations:** EU completes an assessment/justification for why mechanical response efforts are not deemed sufficient, why dispersant use is recommended, and how dispersants will be used in conjunction with other response measures.
 10. **Dispersant and Monitoring Availability:** The Dispersant Operations Group (DOG)² advises the FOSC that dispersant application and monitoring personnel, equipment, and supplies are staged and ready to deploy for an initial dispersant application.
 11. **Weather and Sea Conditions:** The DOG confirms that the predicted weather and sea conditions are conducive to dispersant application by the chosen system or platform.
 12. **PPE:** The DOG confirms all personnel involved in, or impacted by, dispersant applications will be wearing appropriate PPE and that adequate safety measures are in place.
 13. **Equipment and Personnel Adequacy:** DOG demonstrates and confirms the suitability of designated dispersant spray system to be used and competence of key operators. This may include ensuring that the spray system has been:
 - a. Specifically designed for this intended purpose or
 - b. If not specifically designed for dispersant use, used previously and deemed to be effective and appropriate, and will be used again in a similar manner or
 - c. If not specifically designed and not previously used for dispersant application, deemed to be effective and appropriate by some other specific means: if so, identify specific means _____
 - d. Is the design and operation of the application system such that it can reasonably be expected to apply the chemical dispersant in a manner consistent with the dispersant manufacturer's recommendations, especially with regards to dosage rates and concentrations?
 - e. Will the dispersant application be supervised by personnel that have experience, knowledge, specific training, and /or recognized competence with chemical dispersants and the type of system to be used?
 - f. Have the pilots identified to fly the dispersant planes been trained and qualified in dispersant application procedures?
 - g. Has residue from previous use of the sprayer tanks been removed and the tanks cleaned.
 14. **Aerial Application Issues:** The DOG demonstrates and confirms the adequacy and suitability of aerial application equipment, procedures and personnel, as applicable. This includes verifying the qualifications of the Dispersant Controller and ensuring they are empowered to direct the dispersant aircraft to maintain a 500 meter (1,640 foot) horizontal separation between the dispersant application and any swarming fish, rafting flocks of birds, marine mammals in the water or marine mammal haul outs. Also ensure that the aircraft spray system is capable of producing dispersant droplet sizes that provide for optimal dispersant effectiveness.
 15. **Boat Application Issues:** The DOG demonstrates and confirms the adequacy and suitability of vessel application equipment, procedures and personnel, as applicable.

² The DOG includes all dispersant application and dispersant monitoring teams.



16. **Monitoring:** The DOG demonstrates and confirms that agreed-upon monitoring teams have been activated and will be in place for each deployment. Due to the challenges involved in calibrating and deploying on-water monitoring equipment, Tier 2 and Tier 3 monitoring may not be in place for the initial application. However, efforts to get these more comprehensive monitoring capabilities in place as soon as possible should be demonstrated.
17. **Communications:** The DOG demonstrates and confirms that a communications plan has been developed that will enable clear communications among key players.
18. **Natural Resource Trustee Input, Part 5:** The EU Leader provides the FOSC with a completed listing of the Incident-Specific Resource Screening (Part 5) which identifies key biological species, habitats, special designation areas, and commercial interests potentially impacted by the operation.
19. **Conditions/Stipulations:** The DOG demonstrates and confirms the proposed dispersant application's compliances with key conditions and stipulations.
20. **Dispersant Consultation, Concurrence and Approval Process Based on Zones:**
 - a. **ZONE 1: Key Stakeholder Consultation and Concurrence Inside No-Preauthorization Zone³ (< 3 miles of land)** The FOSC holds a meeting and/or teleconference with individuals identified in Step 3 above, appropriate members of the EU and the DOG and other members of the UC for the purpose of making a joint decision on whether and how to use dispersants.
 - b. **ZONE 2: Key Stakeholder Consultation and Concurrence Inside Partial-Preauthorization Zone⁴ (3-12 miles of land, water depth >33-feet).** The FOSC holds a meeting and/or teleconference with individuals identified in Step 3 above, appropriate members of the EU and the DOG and other members of the UC for the purpose of making a joint decision on whether and how to use dispersants.
 - c. **ZONE 3: Key Stakeholder Consultation Within the Preauthorization Zone⁵ (> 12 miles from land, water depth >33-feet):** The FOSC holds a meeting and/or teleconference with individuals identified in Step 3 above, appropriate members of the EU and the DOG and other members of the UC for the purpose of informing the FOSC's decision of whether and how to use dispersants.

³ Considerations relating to pre-authorization of dispersant use are outlined in the RRT-1 Regional Contingency Plan. There is no preauthorization for the use of dispersants in waters that lie landward of the 3 nautical mile line or in a water depth less than or equal to 10 meters along the coast (Zone 1). Approval will be in accordance with Subpart J of the National Contingency Plan (NCP), 40 CFR 300.

Dispersants are not authorized for use in Long Island Sound, defined as west of a north-south line between Watch Hill Light, Rhode Island (Lat. 41-18-14N / Long. 71-51-30W) and Montauk Point Light, New York (Lat. 41-04-16N / Long. 71-51-26W) on NOAA Chart #13205. Incident-specific request for dispersant use in Long Island Sound will be based on non-preapproval method of Subpart J of the NCP.

Additionally, any atypical use of dispersants including (1) full scale dispersant application ongoing for, or expected to exceed or exceeding 96 hours, and/or (2) the use of dispersants subsea, will also be considered case-by-case in accordance with Subpart J of the NCP.

⁴ There is expedited approval or preauthorization for the use of dispersants in waters that lie seaward of the 3 nautical mile line and landward of the 12 nautical mile line in a water depth of greater than 10 meters (Zone 2). The use of dispersants within this zone will be authorized by the FOSC in consultation with the RRT-1 EPA representative, and with the concurrence of RRT-1 representatives of states with jurisdiction over the waters, and in consultation with the RRT-1 DOC and DOI Natural Resource Trustees.

⁵ There is preauthorization for the use of dispersants by the FOSC (in consultation with the RRT-1 EPA Representative, RRT-1 representatives of states with jurisdiction, and RRT-1 DOC and DOI Natural Resource Trustees) in waters that lie seaward of the 12-nautical mile line and in a water depth of greater than 10 meters (Zone 3).



21. **Dispersant Use Request Application:** The RP with support from the DOG under the supervision of the FOSC, completes an initial Dispersant Use Request Application and all required monitoring.
22. **Approval:** Based on the location of the targeted dispersant application, the FOSC either makes the dispersant use decision after taking key stakeholders and staff member's input into consideration (Zone 3) or makes a joint dispersant use decision in consultation and/or with the concurrence of key stakeholders (Zone 1 or 2).
23. **Application Changes:** After the initial dispersant decision is made, any updates or changes to Part 4, 5 and/or 6A should be verified by the EU Leader and NOAA SSC and, as appropriate, coordinated through the concurrence and consultation authorities.
24. **Assessment of Effectiveness:** Beginning with the first dispersant application, the NOAA SSC, using the results of the SMART Tier 1, 2, or 3 monitoring, determines whether the dispersant is effectively dispersing the oil, documents the basis for that determination, and provides the information to the EU. If, in the opinion of the NOAA SSC and the EU, the dispersants are not performing according to expectations, a recommendation to terminate or modify the operation will be made to the FOSC and the rest of the UC.
25. **Ongoing approval:** Based on input provided from field observations and assessments (above), the FOSC/UC determines whether to authorize dispersant application(s) during subsequent operational periods. Any modification(s) and/or any additional monitoring requirements will be documented in updates or revisions to Parts 1-6A.
26. **After Action Report:** After the response for this incident has been completed, the FOSC will complete a Dispersant Use After Action Report for submittal to all signatories in Part 2, all members of the UC, RRT-1 representatives, the National Response Team and other individuals identified in Step 3 above. The report will also be posted on the RRT-1 public website.

NOTE: Atypical dispersant applications ongoing for or expected to exceed or exceeding 96 hours will need to be considered via the Process for case-by-case dispersant authorization (using the same process are required for Zone 1).



Part 7: Dispersant Use After Action Report

A draft dispersant use after-action report shall be prepared within 30 days of completion of the dispersant operation(s) or a timeframe agreed upon by RRT-1. The draft shall be to all signatories in Part 2, for a two-week review and comment period or a timeframe agreed upon by RRT-1. The final report, which shall address all comments received by the signatories, shall be submitted to all signatories in addition to UC, RRT-1, and National Response Team members and all individuals identified in Step 3 of Part 6A.

The Dispersant Application After-Action Report shall focus on the following elements of the dispersant application and shall include the elements identified in the Report Outline below:

- An overview of the incident (prepared by the FOSC)
- A description of how the dispersant application(s) were conducted (prepared by the Applicant)
- A description of how Tier 1 monitoring was conducted and the results (prepared by the Tier 1 Monitoring Team)
- A description of how Tier 2 and Tier 3 monitoring was conducted and the results (prepared by the Tier 2 and 3 Monitoring Team)
- Description of how other dispersant monitoring was conducted and the results, if applicable (prepared by the individuals/team conducting the monitoring)
- Description of any adverse environmental effects associated with the dispersant application, such as impacts to fish and/or wildlife (e.g. disturbance, unintentional over-spray)
- Other elements requested by the FOSC or RRT-1

Report Outline

I. Incident Overview

A. Background information

1. Cause or potential cause of spill, if known
2. Type and amount of oil spilled
3. Location of spill
4. Movement of oil slick, including any trajectories
5. Weathering and behavior of oil
6. Other pertinent information

B. Response actions taken/effectiveness (e.g., mechanical recovery, protective booming, *in-situ* burning, dispersant use)

C. Summary of decision-making process resulting in the authorization of a request for the use of dispersants, including the evaluation of whether the selected dispersant would work effectively on the oil discharged, if the dispersant could be effectively applied to the oil, and trade-offs associated with the potential impacts of dispersants, dispersed oil, and non-dispersed oil on the environmental and human-use areas, including when compared to other response options.



Part 7: Dispersant Use After Action Report, Continued

Report Outline, Cont.

- II. Description and the Dispersant Application
 - A. Description of dispersant application (including all dispersant application field test(s))
 - 1. Type and amount of dispersant applied
 - 2. Type(s) of aircraft and/or vessel(s) used and dispersant system(s) used
 - 3. Personnel directly involved in dispersant application (e.g., Dispersant Controller) and summary of their qualifications and experience
 - 4. Location (shown on a map of appropriate scale), date, time, ratio of dispersant to oil, and total amount of dispersant applied for each dispersant application
 - 5. Weather conditions at time(s) of each application, including sea state, water temperature, water salinity
 - 6. Staging area, distance to region of application, and specifics regarding logistics (including time) involved in supporting the dispersant application
 - 7. Communications used
 - 8. Interaction between UC and field units carrying out guidance received
 - 9. Spotter aerial observations
 - 10. Description of any adverse environmental effects associated with the dispersant application, such as impacts to fish and wildlife (e.g., disturbance, unintentional over-spray)
 - 11. Health and Safety Plan requirements (including Personal Protective Equipment)
 - B. Lessons learned
 - 1. What worked well
 - 2. What needed improvement
 - 3. Recommendations
- III. Description and Results of Tier 1 (Visual) Monitoring
 - A. How the monitoring was carried out (e.g., method, vehicle, monitors, etc.)
 - 1. Specifics regarding equipment and suitability of aircraft/vessel(s) used
 - 2. Description of observations regarding the dispersal of oil
 - 3. Communications used and any associated problems
 - 4. Operational support from the staging area, etc.
 - 5. Interaction between the Incident Management Team (IMT) and the field units carrying out guidance received from the IMT
 - B. Results of Tier 1 monitoring, including a copy of the National Oceanic and Atmospheric Administration (NOAA) Scientific Support Coordinator's (SSC) documentation on monitoring results and the Environmental Unit's (EU) recommendation to the FOSC
 - C. Lessons learned
 - 1. What worked well
 - 2. What needed improvement
 - 3. Recommendations
- IV. Description and Evaluation of Tier 2 and Tier 3 (Water Column) Monitoring
 - A. How the monitoring was carried out (e.g. method, vehicle, monitors, etc.)
 - 1. Specifics regarding equipment and suitability of the vessel(s) used



Part 7: Dispersant Use After Action Report, Continued

Report Outline, Cont.

2. Description of observations regarding the dispersal of oil
 3. Communications used and any associated problems
 4. Operational support from the staging area, etc.
 5. Interaction between the IMT and the field units carrying out guidance received from the IMT
- B. Results of Tier 2 and Tier 3 monitoring, including a copy of the NOAA SSC's documentation on monitoring results and the EU's recommendation to the FOSC
- C. Lessons learned
1. What worked well
 2. What needed improvement
 3. Recommendations
- V. Description and Evaluation of Additional Monitoring, if conducted
- A. How the monitoring was carried out (e.g. method, vehicle, monitors, etc.)
1. Specifics regarding equipment and suitability of the aircraft/vessel(s) used
 2. Description of observations
 3. Communications used and any associated problems
 4. Operational support from the staging area, etc.
 5. Interaction between the IMT and the field units carrying out guidance received from the IMT
- B. Results of monitoring
- C. Lessons learned
1. What worked well
 2. What needed improvement
 3. Recommendations
- VI. Additional Elements (as requested by the FOSC or RRT-1)

Appendix [*This will include completed copies of Parts 2, 3, 4, and 5*]