### Appendix 1: Application and Burn Plan

### In Situ Burning Guidelines for Alaska

Incident Name:	<u>Date Pro</u>	<u>Date Prepared</u>		Operational Period		
Incident Location:			Date	Ti	me	
Incident Date:	Time <u>Prepared</u>	Start:				
Incident Time:		End:				
Title of Applicant:	Address:					
Affiliation:	Phone:		Fax:			
PART 1	Release Status (che	•				
Potential Burn Location  Site Description  Latitude  Longitude  Type of Incident (check one):  Grounding Transfer Operations Explosion Collision Blowout Other  Product Released (check one):  North Slope Crude Cook Inlet Crude Residual/Bunker Oil Diesel #2 JP4 Other	Intermittent One time of time	Any structures/buildings near the burn  Why is mechanical recovery alone inadequate for spill response?  Consider the spill size, forecasted weather and trajectories, amount of available equipment, time to deploy, and time to				
Estimated Volume of Released Product: gallons, orBBL  Estimated Volume of Product That May Potentially be Released:gallons, orBBL	Will you use mechalin situ burning?  Have you evaluated Will you use dispersin situ burning?  Why is in situ burning	I dispersants? sants in conju		yes r	no no no	

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PART 2					Tidal state ato'clock (check one):	
Did source burn?			yes	no	Slack tide	
Is source still burn	ning?		yes	no	Incoming (flood)Outgoing (ebb)	
Is product easily e	emulsified?		yes	no	✓ Attach a graph with tidal information for three tidal cycles.	
Is product already  No Light emu Moderate Heavy en Unknown  Estimated Percent Within First 24 Ho Check boxes and	ulsion (0-20%) emulsion (21- nulsion (>50% t Oil Naturally urs:	-50%) ) Dispersed ar		ible:	Dominant current (not drift):  Speed (knots)  Direction (to)  Current Speed (knots) Relative to the Containment  Boom  Note: Current speed relative to the fire boom should be .75  knots or less to minimize entrainment.  Sea State (check one): Calm Choppy	
	Conditions	Forecast	Foreca		Swell	
Clear					Manage (and and a bailed in face)	
Partly cloudy					Waves (estimate height in feet)	
Overcast					Does your site safety plan cover this in situ burn plan?	
Rain					yes no	
Snow					Will response workers be briefed on the site safety plan before burning? yes no	
Fog						
Wind Speed (kt)					Are the responders trained and equipped with safety gear?  yes no	
Wind Direction (from)					✓ Attach an ICS 204 form, or similar document. On it, list the following equipment you will use:  Vessels	
Percentage Ice CoNo ice pr<10%11-30%31-50%51-100%	• •	sk one):			Aircraft for ignition and aerial observation  Lengths of fire boom  Residue containment and removal equipment  Fire fighting equipment  Ignition systems  Burn promoters  Communications systems  Air/plume monitoring equipment.	

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	PART 3
Proposed Burn Date and Time	
Describe how you intend to carry out the burn.	✓ Attach a chart with a distance scale. Show estimated spill trajectory and landfalls, with time. Show the location and distance of your proposed burns relative to the following features:
Check one:	1. Source:
Ignition is away from source after containment and	Location
movement of the oil to safe location (i.e., controlled burn).	Distance from Burn (miles)
Ignition of uncontained slick(s) is at a safe distance from the source.	2. Ignitable slicks:
	Location
Ignition is at or near source without controls.	Distance from Burn (miles)
How will you ignite the oil?	Nearest Land (burns on water) or
-	Non-Flat Terrain (burns on land):
Enter the volume of oil you expect to burn:	Location
	Distance from burn (miles)
Fire Oil Volume Fire Duration No. (BBL or Gal) (Hrs or Min)	
1	Nearby Populated Areas (i.e., one or more non-spill-related
2	people present):
3	Location
4	Distance from Burn (miles)
5	Location
Attach a list for more fires.	Distance from Burn (miles)
Total   Vol.:	Location
	Distance from Burn (miles)
How many simultaneous burns are planned?	For Inland Burns consider
What distance will separate simultaneous burns?	<ul> <li>Areas with Fire Danger Rating of extreme, very high, or high</li> <li>Nearest airport</li> <li>Alaska Class I Area (see Appendix 4)</li> </ul>
Are you planning sequential or repeat	Attach a drawing showing your mechanical recovery and in situ burning equipment configurations.
(not simultaneous) burns? yes no  Estimated area of oil in uncontrolled burn	For burns potentially impacting populated areas, provide an air monitoring plan in accordance with the SMART protocols.
(square feet)	protocols.  6. Identify whether any Class 1 Areas (Appendix 1) will be
Describe your ability and procedures to extinguish the burn if necessary or directed to do so.	Identify whether any Class 1 Areas (Appendix 4) will be impacted.

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## Appendix 1: APPLICATION AND BURN PLAN In Situ Burning Guidelines for Alaska

PART 4
How do you plan to collect burned oil residue?
How do you plan to store and dispose of burned oil residue?
For inland burns, how do you plan to address post- burn erosion if applicable?
Describe plan for eliminating risk (if any) of accidental (secondary) fires (e.g., structures/buildings and/or vegetation).
Will the burn affect visibility at downwind airports within 20 miles?
Signatures
Signature of Applicant
Printed name of Applicant
Date and Time Submitted to Federal and State On-Scene Coordinators
Prepared by: ICS Position:
Phone:

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## Appendix 2: FOSC/SOSC Review Checklist In Situ Burning Guidelines for Alaska

**Note:** If an *in situ* burn is being considered, immediately notify the EPA ARRT representative (unless EPA is the FOSC), the DOI and DOC ARRT representatives, and the USCG Strike Team to provide advance notice of this possibility.

STEP 1: Review of the completed Application t	to Burn Plan		
Is burning an appropriate response option, whe containment and recovery and/or dispersant us		yes	no
STEP 2: Determine feasibility of burning			
Will the oil become 2 to 3 mm thick?		yes	no
Is the oil relatively fresh (less than 2 or 3 days o	of exposure)?	yes	no
Does the oil contain less than 25 percent water	?	yes	no
Is visibility sufficient to see oil and vessels towing boom, and suitable for aerial overflight for burn observation?			no
If burning may involve darkness or poor visibility, can the burn be completed safely and well away from any populated areas or other sensitive resources?			no
Is wind less than 20 knots?		yes	no
Are currents less than 0.75 knots relative to the boom?			no
Are waves less than 3 feet in choppy, wind-drive in large swells?	en seas or less than 5 to 6 feet	yes	no
Does the responsible party have a site safety pl addresses the proposed burning operations?	an for this incident that specifically	yes	no
Will response workers be briefed on this plan before burning starts?			no
Are personnel trained and equipped with safety gear?			no
Is a communications system available and working to communicate with			
and between aircraft, vessels, and control base?			no
Are operational and environmental conditions feasible for burning?			no
Can the fire be extinguished and are the proced contingency adequate?	dures for addressing this	yes	no
Will the burn meet the operational criteria for:	the next 24 hours?	yes	no
	the next 48 hours?	yes	no

#### STEP 3: Determine whether burn may be conducted at a safe distance from populated areas.

#### **Burning Near Unpopulated Areas:**

To help determine whether an area that could be affected by an in situ burn smoke plume is unpopulated, the Unified Command will consult with land managers and (to the extent practical) land owners of the area to help determine whether there may be individuals using the area for activities including, but not limited to, fishing, hunting, berry picking, boating, backpacking, or conducting research. The Unified Command may require further verification by aerial reconnaissance or some similar means.

Will the smoke plume pass into populated areas? yes no If no, proceed to Step 4. If yes, consider the following conditions of authorization.

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#### **Burning in Flat Terrain Near Populated Areas:**

Is the burn in an area near or adjacent to populated areas?

yes no

Are local government, land managers, land owners, and/or state emergency service personnel involved in planning for, and if necessary assisting with, public notifications?

On water more than 3 miles from shore, the Green Zone safe distance is 1 mile from populated areas. On land or on water less than 3 miles from shore, the green zone safe distance is 3 miles from populated areas. Burning at a green zone safe distance from populated areas is acceptable. Proceed to Step 4.

The Yellow Zone distance is from 1 to 3 miles downwind of a burn, and within 45 degrees of the smoke plume, when the burn is on land or on water within 3 miles of shore. If the potentially-impacted population can be sheltered in place or evacuated during the burn, proceed to Step 4. If potentially-impacted populated areas cannot be protected, do not authorize burning at this time.

The Red Zone distance is within 1 mile of any burn. Burns within 1 mile of populated areas may be authorized if the potentially-impacted population can be sheltered in place or evacuated during the burn, and if best professional judgment supports the expectation of PM<sub>2.5</sub> less than 65 micrograms per cubic meter 1-hour average in populated areas. If these conditions can be met, proceed to Step 4. If these conditions cannot be met, do not authorize burning at this time.

#### **Burning when the Safe Distance Is Not Predicted:**

The Unified Command determines whether flat terrain exists through the use of topographic maps and on-scene weather information, and input, as appropriate, from the National Weather Service and the Alaska Interagency Coordination Center.

According to best professional judgment, will PM<sub>2.5</sub> concentrations remain below 65 micrograms per cubic meter 1-hour average in populated areas?

If yes, proceed to Step 4. If no, do not authorize burning at this time.

Notifications and Warnings:		
Is it possible to implement Level 1 general notification in the Green Zone?	yes	no
Is it possible to implement a Level 2 alert notification in the Yellow Zone?	yes	no
Is it possible to implement a Level 3 warning notification, which includes in-place sheltering?	yes	no
Is it possible to implement a Level 4 emergency notification, which includes temporary evacuation?	yes	no

no

## APPENDIX 2: FOSC/SOSC REVIEW CHECKLIST In Situ Burning Guidelines for Alaska

STEP 4: Determine whether environmental and other considerations	will be a	deau	ıatelv
addressed.			,
Have potentially-affected natural resources and historic properties been identified and adequately addressed?	yes	no	
If no, document rationale in decision memo.			
Have potentially-affected other considerations (e.g., structures/buildings) been identified and adequately addressed?	yes	no	
If no, document rationale in decision memo.			
STEP 5: Review of consultations and requests for authorization.			
NCP Authorization of Use			
Concurrence Required:			
EPA (FOSC or EPA ARRT representative)	yes	no	conditional
State (SOSC in Unified Command)	yes	no	conditional
$\textbf{Consultation as per the NCP} \ (\textbf{If other than yes}, \ \textbf{document how addresse}$	d)		
DOI ARRT Representative	yes	no	conditional
DOC ARRT Representative	yes	no	conditional
Other Consultations with Representatives of Potentially Affected Stak	eholders	<b>S</b> :	
Other State and/or Federal natural resource trustees	yes	no	conditional
Federally-recognized tribes	yes	no	conditional
Federal, State, and/or local safety and public health agencies	yes	no	conditional
<ul> <li>Land Owners:</li> <li>Local (e.g. borough, municipal governments</li> </ul>	VAS	no	conditional
<ul> <li>Private Land owners (e.g. Native corporations)</li> </ul>	yes yes	no	conditional
<ul> <li>Others (e.g., Regional Citizens Advisory Councils, Port Authorities,</li> </ul>	yes	no	conditional
Area safety/security committees, law enforcement, etc.)	ycs	110	conditional
<ul> <li>For a burn that may affect threatened and/or endangered species and/or their critical habitat, DOI-Fish and Wildlife Service* and/or National Marine Fisheries Service ESA Specialists*</li> </ul>	yes	no	conditional
For a burn that may affect historic properties, the FOSC's Historic Properties Specialist.	yes	no	conditional
<ul> <li>For a burn proposed in conjunction with an Outer Continental Shelf Facility, the DOI-MMS Regional Supervisor for Field Operations*</li> </ul>	yes	no	conditional

## APPENDIX 2: FOSC/SOSC REVIEW CHECKLIST In Situ Burning Guidelines for Alaska

STEP 6. Make decision on whether to authorize burn.					
Authorization and Conditions:  The on-scene coordinators' decision based on review (check one):  Do not conduct in situ burning.  In situ burning may be conducted in limited or selected areas (see attached chart).  In situ burning may be conducted over the limited period of day(s).  In situ burning may be conducted as requested in the application.					
Conditions:  1. The burn operations team will visually monitor the smoke plume in accordance with the monitoring plan.  2. The burn operations team will collect the burn residue in accordance with the burn plan.  3. Public notification/warning to people in populated areas who may be in proximity to any of the three safe distance zones in accordance with the notification.  4. Other incident-specific conditions of authorization (e.g., air monitoring in accordance with the SMART protocols) for a burn with the potential to impact populated areas:					
Signature of Federal On-Scene Coordinator  Signature of State On-Scene Coordinator	Printed Name of Federal On-Scene Coordinator  Printed Name of State On-Scene Coordinator	Date and Time  Date and Time			
Prepared By:	ICS Position:	Phone:			