STANDARD SITE SAFETY PLAN FOR EMERGENCY/POST-EMERGENCY PHASE COASTAL OIL SPILLS (4/93)

A. SITE DESCRIPTION Site generally referred to as: Location: Surrounding population: ___industrial, ___residential, ___rural, ___unpopulated, ___other:____ Topography: ___rocky, ___sandy/gravel beach, ___cliffs, ___marshes, ___docks, ____ other: _____ Primary Hazards: ___Chemical Exposure ___Fire/Explosion ___Oxygen Deficiency ___Confined/Enclosed Space Entry ___Ionizing Radiation ___Biological Hazards ___Safety Hazards ___Heat Stress ___Cold Exposure ___Noise __Other:____ Pathways for hazardous substance dispersion: ____Pathways have been noted on the site safety map provided as Attachment____.

See procedures for handling drums, containers, and spill containment, provided as

Attachments _____.

B. WORK PLAN AND ENTRY OBJECTIVES

1. Work Plan: All work shall be conducted in accordance with procedures established during pre-entry briefings and attached work plans <i>A work plan is provided as Attachment</i>
2. Entry Objectives: Daily objectives may include site surveys, mechanical cleaning, oil recovery, booming, dispersant application, wildlife rehabilitation/hazing, and related activities. Detailed objectives shall be developed daily, and shall be described during the pre-entry safety briefing.
C. SITE ORGANIZATION
1 Definitions:

1. Definitions:

OSC: The On-Scene Coordinator (OSC) is the pre-designated Federal, State, Local, or Responsible Party official responsible for incident management in accordance with the Unified Plan. The OSC's designated rep serves as the on-site supervisor for response personnel.

SSHO: The Site Safety and Health Officer (SSHO), often referred to simply as the Site Safety Officer, is the single individual responsible for developing and implementing the OSC's site-specific site safety and health plan.

SSHP: Site Safety and Health Supervisor(s) (SSHP) is a mandatory position under 29 CFR 1910.120. The SSHP, often referred to simply as the Site Safety Supervisor, is the individual(s) in the field responsible for enforcing the SSHO's site-specific site safety and health plan. An SSHP must be on-site at all times while the SSHO may be with the OSC or at other locations.

2. Positions:

<u>function</u>	<u>name and phone (if appropriate)</u>	
FOSC:		
SOSC:		
Incident Commander:		
OSC's On-Site rep/supervisor:	<u> </u>	
FOSC Rep:		
LOSC Rep:		
RPOSC Rep:		
Site Safety and Health Officer	:	
Site Safety & Health Superviso	or(s): See the posted organization on-site/workplan/briefin	ng log.
Public Affairs Officer:		-
Scientific Support Coord:		_
National Pollution Fund Cente	er Case Officer:	_
BOA Contract Supervisor:		_

Other Federal/State/Local reps:	
RP's representative:	
RP's On-Site rep:	
RP's On-Site Contract Supervisor:	
RP's Safety & Health Officer:	
RP's Safety & Health Supervisor:	
Other R.P. reps:	
D. SITE CONTROL	
1. Anyone entering or departing a Worepresentative.	ork Area shall report to the site supervisor or designated
2. No person shall enter a site without Health plan.	subscribing to this or another appropriate Site Safety and
3. The buddy system is mandatory for ex	veryone on site.
	shall be trained adequately to perform their assigned tasks safely. ment is technician level and/or routine site worker (40 hrs and 3 a) except as noted below.
JOB DESCRIPTION:	TRAINING LEVEL:
Guidelines for assessment	of training/qualification requirements has been provided as
Attachment	-y
b. All personnel entering the site shall site. See section L. below for on-site	ll be fully informed about applicable hazards and procedures on informational briefings program.
5. Site Boundaries: Control boundaries ha following guidelines:	ve been established in the site safety map below according to the

- - a. The HOT ZONE, or EXCLUSION ZONE, is the area where contamination or product hazards are expected.
 - b. The WARM ZONE, or CONTAMINATION REDUCTION ZONE, is a transition area between the HOT ZONE and the COLD ZONE. It is the area where DECONTAMINATION is conducted for personnel and equipment leaving the HOT ZONE.

	ONE, or SUPPORT ZONE, is an area adjacent to the WARM ZONE that is intended and as free of contamination as possible.
decontamination station posts, equipment staging hazards.	The site safety map includes the location of items such as: zone boundaries, washing, toilet/hygiene facilities, first aid equipment, fire extinguishers, command g/storage, eating/rest areas, animal rehab/hazing stations, and locations of identified ety Map is provided as Attachment
facility. Hospital decon	Field decontamination of injured workers is essential prior to transport to a medical tamination stations have not been established within the State of Alaska to support uring oil or hazardous substance response operations.
	ATION: Check appropriate category of oil, attach generic information sheet, and when available. Check all applicable below:
Oil contai	ning benzene and/or other high vapor pressure chemicals.
	azard information is provided as Attachment
	bes not contain benzene and/or other high vapor pressure chemicals.
	azard information is provided as Attachment
	sulfide (from sour crude oil or anaerobic decay of organic materials).
, ,	
	azard information is provided as Attachment
Dispersan	t applications.
H	azard information is provided as Attachment
Bioremed	iation application.
<i>H</i>	azard information is provided as Attachment
monitoring shall be con-	ssment Monitoring For Chemical and Physical Hazards: The following ducted with monitoring equipment calibrated and maintained in accordance instructions (electronic equipment shall be calibrated before each day's use).
MONITOR	FREQUENCY
Combustible gas	continuous,hourly, daily,Other:
Oxygen	continuous,hourly, daily,Other:
H2S dosimeter	continuous,hourly, daily,Other:
H2S meter	continuous,hourly, daily,Other:
HNU	continuous,hourly, daily,Other:
OVA	continuous,hourly, daily,Other:
WBGT	continuous,hourly, daily,Other:
Noise	continuous,hourly,daily,Other:
Organic Vapor	continuous,hourly, daily,Other:
Other:	continuous,hourly, daily,Other:

3. Additional Hazards: Additional hazards may be encountered on site, and these along with any other applicable hazards found during the site survey must be marked on the attached maps.
F. GENERAL SAFE WORK PRACTICES. The following safe work practices shall be adhered to while on site. Please check those that are appropriate and add any additional ones:
BUDDY SYSTEM. The buddy system shall be observed inside the Work Area (EXCLUSION and CONTAMINATION REDUCTION ZONES). Personnel must work within sight of their assigned partner at all times. A partner shall be assigned by the site safety supervisor as personnel check in. Personnel shall use whistles to indicate that they need assistance in areas where they may be obscured from supervisors (e.g. high grass, boulders, or warehouse areas) as noted on the Project Map.
OCCUPATIONAL MEDICAL MONITORING. Personnel shall be enrolled in an occupational medical monitoring program in accordance with 29 CFR 1910.120.
FIRES. Each restriction zone and associated contamination reduction zone shall have at least one each of the following:
- a fully charged Class A fire extinguisher for ordinary fires,
- a fully charged Class B fire extinguisher for liquid fires, and
- a hand held fog horn to alert personnel.
The above items shall be maintained in a readily accessible location, clearly labeled in red, and with the location noted on the project map. An ABC or AB fire extinguisher can be substituted for an A or B fire extinguisher.
LIGHTING. Fixed or portable lighting shall be maintained for dark areas or work after sunset to ensure that sufficient illumination is provided. (See TABLE H-120.1 of 29 CFR 1910.120(m) for Minimum Illumination Intensities.)
SLIPPERY ROCKS AND SURFACES. All personnel in the work area shall wear chemical resistant safety boots with steel toe/shank and textured bottoms (neoprene is a common material that is fairly resistant to many oils). Boat operators may substitute clean deck shoes with textured soles kept free of oil on cloth/leather uppers.
SLIP-TRIP-FALL HAZARDS. In addition to proper footwear, personnel will be briefed to be wary of tripping hazards. Safety belts and lifelines will also be worn when working at heights. Proper safety precautions will be taken when working with ladders.
WORK NEAR WATER. All personnel working in boats, on docks, or generally within 10 feet of water deeper than 3 feet, shall wear Coast Guard approved personal flotation devices (PFDs) or work vests.
HEAT STRESS. The site safety and health supervisor shall generally be guided by the ACGIH guidelines in determining work/rest periods. Fluids shall be available at all times and encouraged during rest periods.
Further guidelines are provided as Attachment:
COLD STRESS. The site safety and health supervisor shall generally be guided by the ACGIH guidelines in determining work/rest periods. Workers shall be provided with adequate warm clothing, rest opportunities, exposure protection, warm and/or sweet fluids shall also be available during rest periods. For prolonged water temperatures below 59 degrees F, or a combined water and air temperature less than 120 degrees F, exposure suits shall be worn by personnel working/traveling in small boats, and immersion suits shall be available for vessel operations other than small boats.
Further guidelines are provided as Attachment:

HIGH NOISE LEVELS. Hearing protection shall be used in high noise areas (exceeding 84 dBA-generally where noise levels require personnel to raise their voices to be heard) designated by the site safety supervisor.
ELECTRICAL HAZARDS. Electrical hazards are designated on the site map, and shall be marked with suitable placards, barricades, or warning tape as necessary.
TRAP HAZARDS. Open manholes, pits, trenches, or similar hazards are noted on the site map. The site safety supervisor shall ensure that these locations are periodically checked during the day.
MUD. Dangerous mud flats posing a trap hazard shall be designated on the site safety map as areas off limits to personnel. Mark these locations with banner tape, barricades, or other marking equipment.
CARBON MONOXIDE. Equipment operators shall ensure that personnel do not linger or work near exhaust pipes.
UV LIGHT EXPOSURE. Sunscreens of protection factor 15 (or greater), and UV tinted safety glasses shall be made available for response personnel as needed.
HELICOPTER OPERATIONS. Pilots shall provide safety briefing for all passengers. Helicopter procedures are provided as attachment:
MOTOR VEHICLES. Drivers shall maintain a safe speed at all times, and shall not be allowed to operate vehicles in a reckless mannerA vehicle safety briefing is provided as attachment
ALL TERRAIN VEHICLES (ATVs). Drivers shall maintain a safe speed at all times, and shall not be allowed to operate vehicles in a reckless manner. ATV drivers shall not operate ATVs outside of areas and lanes specified by the site safety supervisor.
DRUM HANDLING AND SPILL CONTAINMENT.
 Drums and containers must be handled in accordance with 29 CFR 1910.120. Containers must be labeled and constructed in accordance with EPA (40 CFR 264-265, and 300), and DOT (49 CFR 171-178) regulations.
 Temporary holding/staging areas for drums and containers containing waste materials shall be constructed to contain spillage, run-off, or accidental releases of materials.
 Manual lifting and handling of drums and containers shall be kept to a minimum. To the extent possible, mechanical devices, drum slings or other mechanical assisting devices designed for that purpose shall be used.
Safe-lifting procedures are provided as Attachment
Drum-handling procedures are provided as Attachment
CONFINED SPACES. Confined spaces will not normally be entered by response personnel during oil spill response operations. If a confined space must be entered or hotwork conducted on a confined space, a specific confined space entry work plan and confined space work authorization checklist will be developed for that operation.
A confined space work plan is provided as Attachment
A confined space work authorization checklist is provided as Attachment
POISONOUS/INFECTIOUS INSECTS, BITES, STINGS, PLANTS.
Ree Stings (also hornet or wash bites)

_	Animal Bites (infection hazard, and/or rabies from some common sources such as: foxes, bats, dogs, cats, and cows).
_	Marine Stings and Punctures (jellyfish, man-o-war, anemones, corals, hydras, urchins, cone shells, stingrays, and spiny fish)
	Poisonous Plants (poison ivy, oak, or sumac)
	General Prevention:During morning safety briefings, provide information on the location of hazards and how to deal with problems.
	Personnel should be provided with long sleeved clothing insect repellantPersonnel should inspect each other for signs of infected bites during breaks when working in designated areas.
	Personnel with allergies to bee stings or insect bites may suffer a medical emergency if bitten. Supervisors on site should be prepared to deal with these medical emergencies.
	Personnel with severe allergies must work in areas away from known/suspected hazards.
	Personnel with allergies to bee stings or other insect bites should notify their supervisors AND the site safety supervisor when reporting on this site.
Perso Attachment	onnel shall be briefed on procedures in accordance with the guidelines provided as :
be life-threatening for e bears in defense of life encounters, but all reaso include retreat, noise man	Y/USE OF FIREARMS. Confrontation with bears exhibiting aggressive behavior can employees engaged in field work at remote sites. State regulations allow taking of a after other measures fail. Personal safety is the foremost consideration in bear enable alternative methods of deterring an aggressive bear shall be employed. These aking, chemical repellents, and detonation of flares, if feasible.
	iding bear encounters.
	repreting bear behaviors.
	dling, maintaining and using non-lethal repellents.
	dling, maintaining and using firearms.
	uirements of the State Defense of Life and Property Regulations.
_	ty/firearms handling procedures are provided as Attachment
The Alaska Departmen	at of Environmental Conservation has also developed a document entitled "Bear m Guidance" for ADEC personnel.

G. PERSONAL PROTECTIVE EQUIPMENT (PPE).

1. Levels of Protection:

- Level A: Should be worn when the highest level of respiratory, skin, and eye protection is needed.
- Level B: Should be worn when the highest level of respiratory protection is needed, but a lesser level of skin protection.
- Level C: Should be worn when the criteria for using air-purifying respirators are met.
- Level D: Should be worn only as a work uniform and not on any site with respiratory or skin hazards. It provides no protection against chemical hazards.

____ See the PPE ensemble descriptions provided as Attachment____.

2. The following PPE ensembles shall be used while on site:

Location:	Task:	Level (circle):
GENERAL	Monitors/supervisors	ABCD
	Shoreline cleanup crew	ABCD
	Vacuum truck crews	ABCD
	High pressure wash crew	ABCD
	Abrasive cleaning crew	ABCD
	Hot water wash crew	ABCD
	Boat drivers	A B C D
	Boat crews	ABCD
	Skimmer crews	ABCD
	Boom crews	ABCD
	Sampling teams	A B C D
	Survey teams	ABCD
	Product pumping	ABCD
	Dispersants crews	ABCD
	Bioremediation crews	ABCD
	Bird/mammal capture	ABCD
	Bird/mammal hazing	ABCD
	Bird/mammal transport	A B C D
		A B C D
		A B C D
		A B C D
		A B C D
COLD ZONE	Response personnel	ABCD
	Visitors:	A B C D
		A B C D
		A B C D
		A B C D
		A B C D

H. DECONTAMINATION PROCEDURES
Contaminated personnel and personnel entering contaminated areas shall be decontaminated in accordance with the instructions of the site safety and health supervisor.
See the Decontamination Guidelines and Layout provided as Attachments
I. SANITATION & PERSONAL HYGIENE
Potable water, non-potable water, toilets and personal hygiene facilities shall be readily available.
For further information see Attachment
J. EMERGENCY PROCEDURES
1. General: In all cases when an onsite emergency occurs, immediate notification will be made via the quickest means available. Personnel shall not reenter the work area or restart work until:
the condition resulting in the emergency has been investigated by supervisory personnel, and has been corrected;
hazards have been reassessed; and
site personnel have been briefed on any changes in the operation and site safety plan.
——Hospitals listed under communications section have been contacted (chemical emergency hospital agrees to take patients from site).
Fire departments listed under communications section have been contacted.
Ambulance services listed under communications section have been contacted (note those which will take chemical emergencies).
ATSDR has been notified of site operations.
Police forces listed under communications section have been notified.
2. Emergency Medical Procedures:
Contact designated EMT (see the posted organization/work plan).
Do not attempt to move seriously injured personnel, call for an ambulance to come to the injured person.
For bites, stings, or poisonous animals/plants follow the procedures provided in Attachment

❖ The closest hospital for chemical exposure emergencies is:

(see K. Communications, below, for phone number)

(see K. Communications, below, for phone number)

Contact ATSDR (404) 639-0615 (24 hr) for chemical incidents.

* The closest hospital for regular emergencies is:

3. Emergency Fire Procedures:

- ❖ DO NOT attempt to fight fires unless it is a small fire. A small fire is generally considered to be a fire in the early stages of development that can readily be extinguished in a few minutes time with personnel and equipment in the immediate area.
- ❖ DO NOT take extraordinary measures to fight fires.
- ❖ YOU MUST sound the appropriate fire signal if fire cannot be put out quickly.
- ❖ Alert nearby personnel to call fire department.
- ❖ Notify supervisor.
- ❖ When the fire alarm is sounded, personnel shall immediately leave the work area WITH THEIR ASSIGNED BUDDY and proceed to the pre-designated assembly point using the designated evacuation route (see evacuation routes and assembly point below).
- ❖ The Site Supervisor OR the Fire Department shall ensure that the fire is extinguished and a temporary fire watch has been posted BEFORE restarting work.

4. Evac	uation:
]	EVACUATION & FIRE SIGNAL(S):
-	
]	PRIMARY EVACUATION ROUTE:
- -	
;	SECONDARY EVACUATION ROUTE:
-	
	ASSEMBLY POINT:
-	
W GO	
	MMUNICATIONS.
1. G	eneral signals:
	THUMBS UP: I'm OK / I agree.
	THUMBS DOWN: Don't agree.
	HANDS ACROSS THROAT: Out of air/trouble breathing
	GRAB HAND/ARM: Come with me
	HANDS ON HEAD: I need assistance
	BOTH HANDS ON WAIST: Leave area immediately

Working:				
freq:	, chnl:	(VHFUHFCB	OTHER)	
Emergency	y:			
freq:	, chnl:	(VHFUHFCB	OTHER)	
freq:	, chnl:	(VHFUHFCB	OTHER)	
hone commu	nications:			
On-Scene	Coordinator:			
()		(_voice _fax _cell _pag	ger _home)	
()		(_voice _fax _cell _pag	ger _home)	
Incident C	ommander:			
()		(_voice _fax _cell _pag	ger _home)	
()		(_voice _fax _cell _pag	ger _home)	
Site Safety	and Health Office	cer:		
()		(_voice _fax _cell _pag	ger _home)	
()		(_voice _fax _cell _pag	ger home)	
Agency fo (404) 639-	r Toxic Substance	e and Disease Registry (ATS ce) ext 0655 (fax)	SDR)	
Agency fo (404) 639- Case office ATSDR c procedures	r Toxic Substance 0615 (24 hr) (voi er:an provide emer	ce) ext 0655 (fax)	ogical information, assist	•
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2. Radio communications:

L. SITE SAFETY BRIEFINGS/MEETINGS.

- 1. **Initial Briefing:** All personnel, employees, contractors, and subcontractors shall be provided with an initial site safety briefing to communicate the nature, level and degree of hazards expected on site and to present the emergency response plan.
- 2. Shift & Other Briefings: Personnel will also receive regular briefings before and after each shift, before making a LEVEL A/B hot zone entry, and when significant changes are made in the work procedures or safety plans. These site safety meetings/briefings shall be held by the Site Supervisor. At a minimum these meetings will describe the work to be accomplished, discuss safety procedure changes, and note any items that need to be passed to other crews. General safety training topics should also be covered based on points raised in previous meetings and the site safety plan attachments.

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M.	THE	SITE	SA	FETY	OFFICER.	
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The Site Safety Officer for this incident is:	
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The responsibilities of the SITE SAFETY OFFICER include (but are not limited to):

- > coordination of all safety and health concerns for the entire work site;
- keeping this plan current; and
- liaison with site safety officers from other organizations.

N. AUTHORIZATIONS:

SITE SAFETY OFFICER:	
DATE.	
DATE:	
ON SCENE COORDINATOR	c:
DATE:	