# Elements of an Emergency Response

#### **Responder's Perspecti**

# **Fim Archer PNW Operations Manager NRC Environmental Services**

#### **Elements of the Response**

Rre-Emergency Response Plan
The Response Plan
The Spill Occurs
Now What?
Notifications
Real Life Example: Detroit Lake
Back to Basics

#### Planning

Response Plan Executed In Time of Crisis
Know Your Internal Resources
Know Your Contractor
Know Your Regulators
Contact Information for All Parties

#### Prevention

Contractor Can Assist You:
Review Your Operation
Recommendations for Pre-Placed Resources
Participate in Spal Drills and Training



# Pre- Emergency Response Planning

e di lites

A Hour Researd Operators Regulations May Require a Plan Spill Prevention Control & Countermeasure -OPA 90 Plan

o<mark>u Need a Response Plan</mark>?

#### **Pre-Emergency Response Planning**

 It is Good Business to Have a Plan Save Money with a Timely Response
 Protect the Reputation of your

**Check the Public, your Employees Our Environment** The Yellow Pages are NOT a Response (OK as a Resource)

anizatio

### The Response Plan

 Describes Who You Contact Lists 24 Hour Contact Information Internal Personnel External Resources (Contractors, Equipment) **Regulatory Notification** Pre-Placed Contract and Pricing Don't Let Reperwork Slow The Response Know Your Contractor Let Contractor Know You



CUSTOMER SERVICE CENTERS	(DISPATCH / 24 HOURS)
<ul> <li>Seattle, Washington</li> </ul>	(206) 281-3810
<ul> <li>Portland, Oregon</li> </ul>	(503) 286-0631
<ul> <li>San Francisco (Richmond), CA</li> </ul>	(510) 307-7820
<ul> <li>LA / Long Beach, California</li> </ul>	(562) 435-0171
<ul> <li>San Diego, California</li> </ul>	(619) 234-8228

1-800-FE-SPILL
(206) 546-7150
(503) 283-1150
(510) 749-1390
(562) 432-1304
(619) 235-3320

#### OIL SPILL RESPONSE --- EMERGENCY PROCEDURES

1.	STOP THE PRODUCT FLOW	<ul> <li>Act quickly. Secure pumps, close valves, etc.</li> </ul>
2.	WARN PERSONNEL	<ul> <li>Enforce safety and security measures.</li> </ul>
3.	SHUT OFF IGNITION SOURCES	<ul> <li>Motors, electrical circuits, open flames, etc.</li> </ul>
4.	CONTAIN / CONTROL SPILL	Use berms, boom, water hose, etc. If gasoline in water divert away.
5.	NOTIFY COMPANY (Q.I.)	<ul> <li>Extent of damage (injuries ?), assistance required, etc.</li> </ul>
6.	NOTIFY N.R.C. (USCG / EPA)	<u>1-800-424-8802</u> -or- (202) 267-2675

7. NOTIFY, AS APPROPRIATE:

ALASKA	DEC	1-800-478-9300	-or-	(907) 428-7200
CALIFORNIA	OES / OSPR	1-800-852-7550	-or-	(916) 262-1621
CANADA	CCG-WR			(604) 666-6011
HAWAII	HEER	(808) 586-4249	-or-	(808) 247-2191
IDAHO	ECC / BOHM	1-800-632-8000	-or-	(208) 334-4570
OREGON	OEM / DEQ	1-800-452-0311	-or-	(503) 378-6377
WASHINGTON	EMD / DOE	1-800-258-5990	-or-	(253) 912-4904

#### 8. SUPPLEMENTAL:

- Foss Maritime (Qualified Individual) will mobilize an appropriate response, including salvage and recovery-cleanup operations. This includes utilizing a third party contractor or oil spill clean-up cooperative, if necessary.
- b. Consult Foss Maritime Company's VESSEL RESPONSE (CONTINGENCY) PLAN for (USCG / state) for detailed information concerning the company's spill response management team, spill action plan (assessment, response options, containment, recovery, cleanup, decontamination, etc.), additional resources, response capabilities, communications, documentation, environmental sensitivity, disposal, training and safety.

Revised: 31 August 1999 <VESSELS>

660 West Ewing Street • Seattle, WA 98119 • Phone (206) 281-3800 • FAX (206) 281-4702 • www.foss.com

	S> * per 33 CFR 155.1040(b) [OPA-90 / VRP			
INITIAL	OIL SPILL REPORT (NO	aking initial notification.		
teported by (name, title, tele	phone number, or monitored radio frequency):			
lessel name size type cou	ntry of registry, official number, and call sign (if ap	plicable): *		
63361 Hame, 3126, 1996, 666				
owing vessel (if applicable):				
	Data (New and dat	Date / time of next report:*		
Date / time of incident: *	Date / time reported:"	Date / time of next report.		
ocation of incident: *				
Course, speed, and intended	d track of vessel: *			
	aandi *			
ype and quantity of oil onbo	baro; ~			
Estimate of oil discharged, o	r threat of discharge; details of pollution or potentia	al: *		
Nature of incident (e.g. grou	nding, collision, etc.), and extent of defects / dama	ge: *		
Weather and sea conditions	on scene:			
Actions taken or planned by	persons on scene: *			
Actions taken or planned by	persons on scene: *			
Actions taken or planned by	persons on scene: * sel: *			
Actions taken or planned by Current condition of the vess	persons on scene: * sel: *			
Actions taken or planned by Current condition of the vess Injuries or fatalities: *	persons on scene: * sel: *			
Actions taken or planned by Current condition of the vest Injuries or fatalities: * ASSISTANCE REQUIRED:	persons on scene: * sel: *			
Actions taken or planned by Current condition of the vest Injuries or fatalities: * ASSISTANCE REQUIRED:	persons on scene: * sel: *			
Actions taken or planned by Current condition of the vess Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information	persons on scene: * sel: * (continue on reverse side, if necessary):			
Actions taken or planned by Current condition of the vess Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information i	persons on scene: * sel: * (continue on reverse side, if necessary):			
Actions taken or planned by Current condition of the vest Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information (	persons on scene: * sel: * (continue on reverse side, if necessary):NOTIFICATION COMPLETE	<u>D</u>		
Actions taken or planned by Current condition of the vess Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information of Date / Time	persons on scene: * sel: * (continue on reverse side, if necessary):NOTIFICATION COMPLETE	D To: (name):		
Actions taken or planned by Current condition of the vesi Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information ( Date / Time	persons on scene: * sel: * (continue on reverse side, if necessary):NOTIFICATION COMPLETE	D To: (name):		
Actions taken or planned by Current condition of the vesi Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information i Date / Time	persons on scene: * sel: * (continue on reverse side, if necessary):NOTIFICATION COMPLETE D Foss Q.I. USCG COTP	D To: (name):		
Actions taken or planned by Current condition of the vesi Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information of Date / Time	persons on scene: * sel: * (continue on reverse side, if necessary):NOTIFICATION COMPLETE  • • • • • • • • • • • • • • • • • •	D To: (name):		
Actions taken or planned by Current condition of the vesi Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information in Date / Time	persons on scene: *         sel: *         (continue on reverse side, if necessary):        NOTIFICATION COMPLETE         • Foss Q.I         • USCG COTP         • USCG NRC 1-800-424-8802	D To: (name):		
Actions taken or planned by Current condition of the vesi Injuries or fatalities: * ASSISTANCE REQUIRED: Other pertinent information in Date / Time	persons on scene: *           sel: *           (continue on reverse side, if necessary):          NOTIFICATION COMPLETE           • Foss Q.I           • USCG COTP           • USCG NRC 1-800-424-8802           • State	D To: (name):		

# Where is Your Response Plan?

# Living Document Accessible Mo Can Authorize The Response?

#### **The Spill Occurs**

After Hours
Middle of the Night
Weekends

Holidays
NBA Playoffs
Graveyard Shift
Just Before Dawn

#### The Spill Occurs

Distracted, Tired Employees People Not Following Procedures

Human Error - The Most Common Cause

Mechanical Failure Rarely Happens Force Majeure (Hurricanes, Earthquakes, Tsunami, Fire, Riot)

#### To Notify or Not to Notify

Over vs Under Estimating Quantity
Nature of the Emergency
What spilled? Where?
Affecting people, waters, soils, air?
Thresholds for External Notifications
42 Gallons Reportable Quantity
Know Your Reportable Quantities
Any Oil to Water is Reportable

## When in Doubt-Make Notifications Failure to Notify Can Result In: Fines, Penalties, Criminal Investigat

he State or the Feds Can Take Over Treble Damages? (\$\$\$)

A Well Prepared Response Plan: Avoids any Confusion Regarding Reporting

Notifications ternal Personne **Employee Responders** Next Level of Management Environmental, H&S, Legal, Public elations demal Resources **Response Contractors, Neighbors** Regulator State (DEQ, OERS or WDOE) **Federal (National Response Center) County ER Manager, Fire, Police** 

**After the Notifications** Internal Response Capability? HAZWOPER Trained and Equipped Response Contractors? Not a Firehouse (Response Time) **Personnel On-Call** 

ODEQ, WDOE, F Federal: EPA, USCG, BL SES NOAA, OSHA Police: Local, State, Federal including EPA Crimin Investigators Fire: State HAZMAT Team, Local & Volun

rticipating Ager

1111

### **More Participants**

# Road Department, Municipal Hate

#### Law Enforcement, F&W, Na Archaeologists Josurance Adjusters

#### Law Enforcement, F&W, Natural Resources

**Concerned** Gitizens

Media

#### Response Contractor's Approach nd System ( 1290 M na **CALE** Parties CEECCORTO Fiph enganizational Structure Common Terminology State/Federal **Required by** Age **es** 6 Examples: Jeep Katrina **Detroit Lake**

#### **Real Life Example: Detroit Lake**

 Gasoline Tank Truck & Trailer Wreck and Fire Hazard 11,300 Gallons of Gasoline **Highway 22 is Closed**  Extreme Circumstances **Bad Weather Cold and Dark**  Contract Executed On The Side of the Road

#### **Real Life Example: Detroit Lake** Establish ICS Unified Command afety First! **Benzene** Vapors and Re Flammable Materials **Traffic and Site Control Heavy Equipment Geologic Fault Line Extreme Terrain** LO LIN



Electronic version: NOAA 1.0 June 1, 2000

**Real Life Example: Detroit Lake** Response Actions **Implement Safety Plan Establish Air Monitoring Investigate Tank Contents, Preferential Pathways and Lake Impacts Deploy Boom Obtain Emergency Utility Locates Implement Traffic Control Establish Command Post** 

#### **More Response Actions** •Staff the ICS Make Waste Determination and Profile Excavate, Stockpile, Transport & Dispose Implement Sampling Plan Drill MW's and Vapor Extraction Wells Operate Extraction System Investigate Down Slope

#### Even More Response Actions

Install Air Sparging System
In

TESSE S

**UtoToTo** 



#### PPE and Air Monitoring.





#### Heavy Equipment Operations.





#### Weather Conditions...





#### Well Drilling Operations.





#### Barge Operation.





#### Barge Movement on the Lake.





### Drill Rig and Excavator.





### Drill Rig Loading.





#### Excavator Off Load.





#### Excavator Off Load.





#### Excavator in the Woods.





#### Detroit Lake Scene.





#### Containment and Sorbent Boom.





### Daily Sampling and SCAT.





#### Drilling Plan & Slope Stability.





## Drilling.





#### Down-Gradient Wells & Pits.





#### Decide Response Technologies.







#### Recovery from SVEU 1,000 Gallons.





#### Aeration System at Work.





#### Dispersion or Trajectory Modeling.





#### Highway Excavation.



#### **Response Logistics**

Lodging
Medical Care
Laundry
Transportation
Communication & IT: Phone, Fax, Copier
Spills Are A Boon to Local Economy

#### **Back to Basics**

Note that have been been a feature of the

ĬŦĬ

US Army Corps of Engineers ®

#### **•ICS Works Well** •RP •ODOT Oregon Department of Transportation •ODEQ DEQ •USEPA UNITED STA •USACOE

#### **Back to Basics**

ICS De-Brief
30-40 People on Lessons Learned
Have a Response Plan
Know Your Available Resources
Thanks and Questions