

Equipment List Cont.									
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P	D		
(3) Pumps and Pressure Equipment									
Wilden Diaphragm Pump	Weymouth	M-15 3"	3	Y	Y	N	N		
Wilden Diaphragm Pump	Weymouth	M-8 2"	2	Y	Y	N	N		
Wilden Diaphragm Pump	Weymouth	1 1/4 "Poly	1	Y	Y	N	N		
Wilden Diaphragm Pump	Weymouth	1 1/2 " M-4	1	Y	Y	N	N		
Wilden Diaphragm Pump	Weymouth	1 1/4 " M-2	0	Y	Y	N	N		
Wilden Diaphragm Pump	Weymouth	2" Champ Poly (chemical)	2	Y	Y	N	N		
6" Double Stage Hyd Super Pump	Weymouth	6"	1	Y	Y	N	N		
Lutz Electric Barrel Pump	Weymouth	1"	3	Y	Y	N	N		
Drum Vacuums	Weymouth		4	Y	Y	N	N		
Van Hotsy	Weymouth	3000 psi Hot Water	2	Y	Y	N	N		
Hot water Hotsy	Weymouth	3000 psi, trailer mounted	1	Y	Y	N	N		
Hot water Hotsy	Weymouth	3000 psi, portable, skid mount	2	Y	Y	N	N		
Cold Water Pressure Washer	Weymouth	2000 psi, electric, portable	5	Y	Y	N	N		
Warren Rupp	Weymouth	1" SA1A/SB1A	2	Y	Y	N	N		
Teel Pump	Weymouth	5H 2" Trash Pump	3	Y	Y	N	N		
Vactor Hose	Weymouth		1,000'	Y	Y	N	N		
Discharge Hose	Weymouth	6"	150	Y	Y	N	N		
Discharge Hose	Weymouth	4"	500'	Y	Y	N	N		
Teel Pump	Weymouth	3"	3	Y	Y	N	N		
(4) Oil Spill Containment Booms									
Oil Containment Boom	Weymouth	American Marine 18"	2800	Y	Y	N	Y		
Oil Containment Boom	Weymouth	Slickbar 18'	3000	Y	Y	N	Y		
(5) Environmental Monitoring Equipment									
MSA Gas Indicator	Weymouth	Sirius 5 Gas	7	Y	Y	N	N		
MSA Gas Indicator	Weymouth	Passport Quad	3	Y	Y	N	N		
Draeger Pump	Weymouth	Accuru	5	Y	Y	N	N		
MSA PIDs	Weymouth	Passport PIDs	3	Y	Y	N	N		
(6) Recovery Equipment									
Skidmount Vacuum Unit	Weymouth	1000 gal	1	Y	Y	N	N		
Slurp Skimmer, SkimPac	Weymouth	Static, 4200 Model, 2", S229	1	Y	Y	N	Y		
Drum Skimmer, Elastec	Weymouth	Air, TDS118, 3", 35 GPM, S233	1	Y	Y	N	Y		
Recovery Tank	Weymouth	1000 gal	1	Y	Y	N	N		
Nilfisk Mercury Vacuum	Weymouth		2	Y	Y	N	Y		
HEPA Filter Vacuum	Weymouth		3	Y	Y	N	N		
HEPA Filter Vactor	Weymouth		1	Y	Y	N	N		
(7) Beach or Earth Cleaning and Excavating Equipment									
Bobcat	Weymouth	Backhoe/Sweeper /Pavement Breaker	2	Y	Y	N	N		
Backhoe	Weymouth	436 Cat	1	Y	Y	N	N		
Cat Excavator	Weymouth	Cat 315 Track	1	Y	Y	N	N		
Bobcat Mini Excavator	Weymouth	337 Mini	1	Y	Y	N	N		

Equipment List Cont.							
Item Description / Manufacturer	Location	Capacity / Size / Key Features	# of Units	A	T	P	D
(8) Generators / Compressors / Light Towers							
Sullair Portable Compressor	Weymouth	185 Diesel	5	Y	Y	N	N
Winco Generator	Weymouth	K4800/A	3	Y	Y	N	N
Coppus Blower	Weymouth	4" Pneumatic	3	Y	Y	N	N
Coppus Blower	Weymouth	8" Pneumatic	1	Y	Y	N	N
Coppus Blower	Weymouth	10" Pneumatic	1	Y	Y	N	N
Coppus Fan	Weymouth	RF-20	2	Y	Y	N	N
(9) Health and Safety Equipment							
MSA S.C.B.A.	Weymouth	1 Hour/4500	10	Y	Y	N	N
Spare Air Cylinders	Weymouth	4500 PSI (1 HR)	8	Y	Y	N	N
MSA SAR	Weymouth	Pressure Demand	4	Y	Y	N	N
MSA Escape Units	Weymouth	5 Minutes	7	Y	Y	N	N
Encapsulating Suits	Weymouth	First Responder	0	Y	Y	N	N
Encapsulating Suits	Weymouth	Butyl	0	Y	Y	N	N
Mustang Suits	Weymouth	Foul Weather PFD	6	Y	Y	N	N
Flame Retardant Suits	Weymouth		0	Y	Y	N	N
Breathing Air Hose	Weymouth		600'	Y	Y	N	N
Hydraulic Hose	Weymouth		650'	Y	Y	N	N
Personal Floatation Devices	Weymouth		40	Y	Y	N	N
PFD Survival Suits	Weymouth		6	Y	Y	N	N
(10) Communications							
Nextel 2-Way Portable Radio/Phones	Weymouth		80	Y	Y	N	N
Nextel Base Station	Weymouth		1	Y	Y	N	N
Marine Radios	Weymouth	Portable	3	Y	Y	N	N
(11) Miscellaneous							
Leroi Jackhammer	Weymouth	30 / 60 / 90 lbs.	3	Y	Y	N	N
Stihl Chain Saw	Weymouth		1	Y	Y	N	N
Amida Light Stand	Weymouth	50600	2	Y	Y	N	N
Amida Towable Light Tower	Weymouth	GS-82	2	Y	Y	N	N
Lincoln Welder	Weymouth		1	Y	Y	N	N
Forklift	Weymouth	5 Ton	2	Y	Y	N	N

Emergency Response Subcontractors

Boston Line & Service Co.
Black Falcon Cruise Terminal
1 Black Falcon Ave.
Boston, MA 02210
(617) 951-9957

Services Provided:
Tug, Boom & Barge services

Boston Towing and Transportation
36 New Street
East Boston, MA 02128
(617) 567-9100
(617) 567-5896 FAX

Services Provided:
Tug Boat Services

City Lights Electrical Co., Inc.
556 East Broadway
South Boston, MA 02127
Tel # (617) 269-5777
Fax # (617) 269-7616

Services Provided:

Tino's Tow Service
61 Copeland Street
Quincy, MA 02169
(617) 472-0655

Services Provided:
Transportation

Northeast Diving Services, Inc.
28 West Narragansett Avenue
Newport, RI 02840
(401) 841-0446

Services Provided:
Divers

(b) (6)

US – OTHER OIL SPILL RESPONSE SERVICES

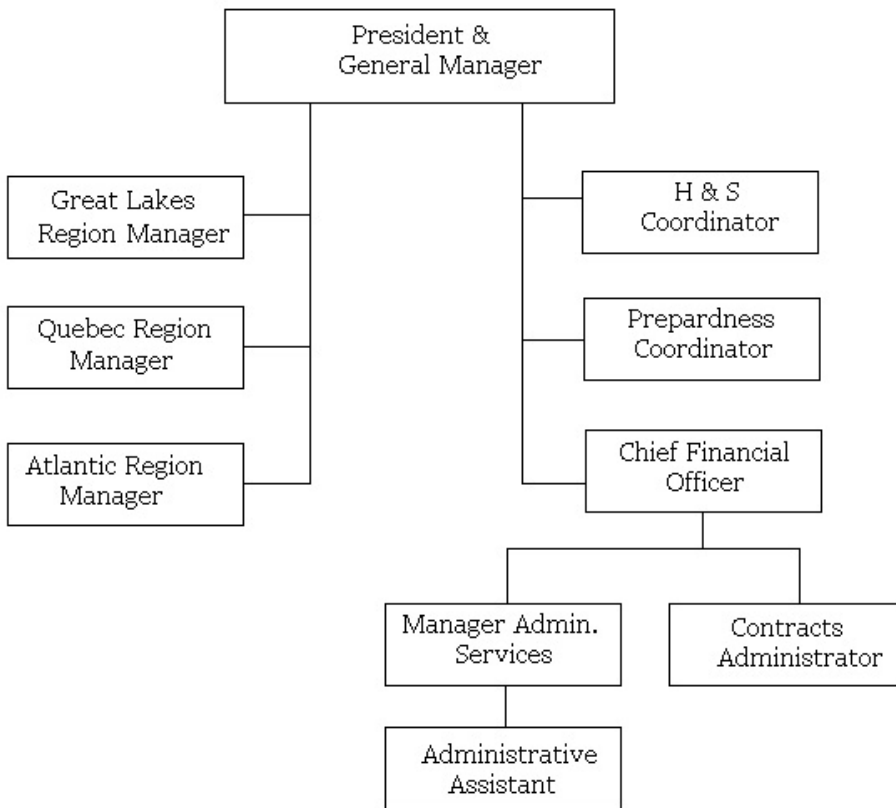
Non OSRO classified contractors are listed in Section 2.0. These include waste disposal and transport companies, wildlife experts, vac truck operators/renters, etc. Additional resources should be located through the yellow pages located in local phone books or the internet.

Eastern Canada Response Corporation (ECRC)

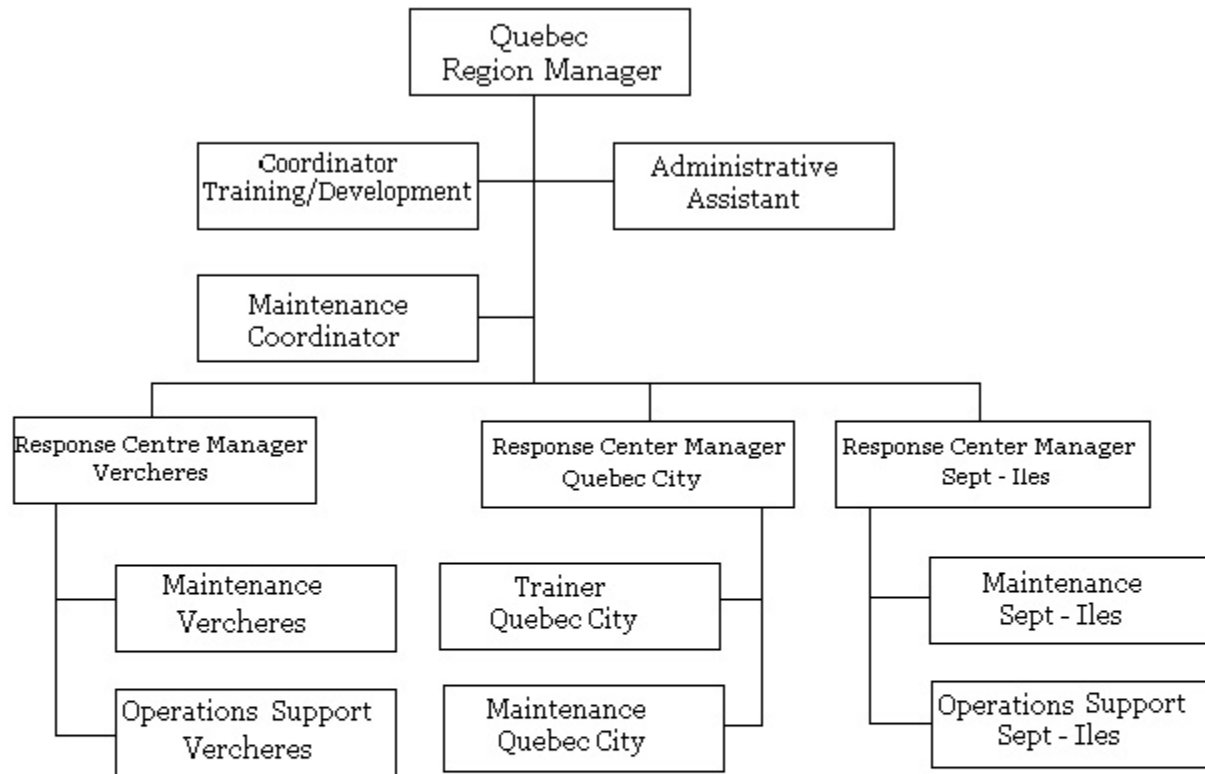
 Transport Canada	This attests that Eastern Canada Response Corporation Ltd Société d'intervention maritime, Est du Canada Ltée is a Certified Response Organization pursuant to section 169.(1) of the <i>Canada Shipping Act, 2001</i>	Ceci atteste que Eastern Canada Response Corporation Ltd Société d'intervention maritime, Est du Canada Ltée est un Organisme d'intervention agréé en vertu de la section 169.(1) de la <i>Loi de 2001 sur la marine marchande du Canada</i>
Maximum capacity of	10,000 Tonnes	Capacité maximale de
Geographical Area of Response Canadian waters south of 60°N latitude in the provinces of Newfoundland, Prince Edward Island, Nova Scotia, New Brunswick, Québec, Ontario, Manitoba, Saskatchewan and Alberta, excluding the waters in the primary areas of response associated with the designated ports of Saint John, N.B. and Point Tupper, N.S.	Secteur géographique d'intervention Les eaux canadiennes au sud du 60° parallèle de latitude nord dans les provinces de Terre-Neuve, de l'Île du Prince Édouard, de la Nouvelle Écosse, du Nouveau Brunswick, du Québec, de l'Ontario, du Manitoba, de la Saskatchewan et de l'Alberta, excluant les eaux du secteur primaire d'intervention pour les ports désignés de St. John, N.B. et Point Tupper, N.S.	
		
Donald Roussel Director General - Marine Safety and Security - Directeur général - Sécurité et sûreté maritimes		
Ottawa, Ontario Issued at - Délivré à	01-11-2016 Expiry date - Date d'expiration (dd-mm-yyyy/lj-jm-aaaa)	Canada

81-0024 (1309-04)

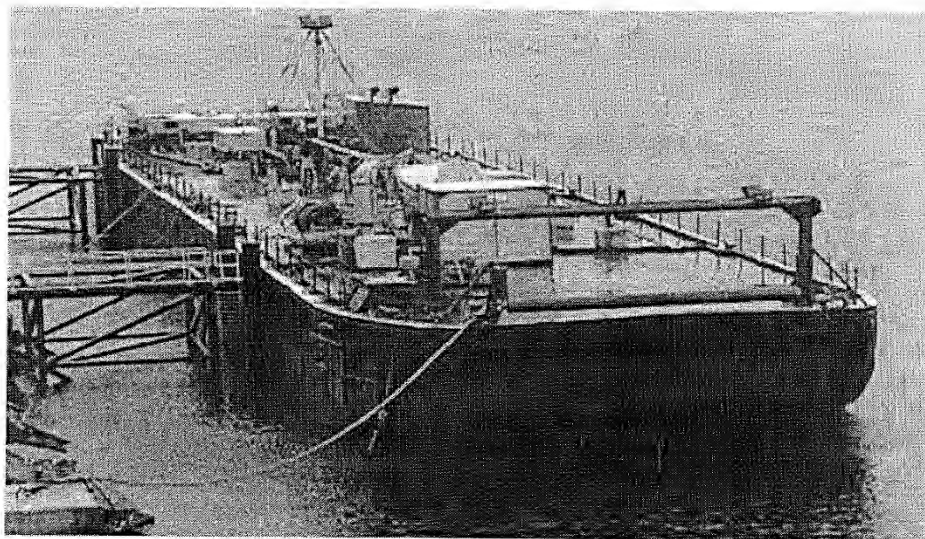
Eastern Canada Response Corporation Organization Chart



Eastern Canada Response Organization Chart Quebec Region



BARGE BASQUES



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil water recovery operation. It can also be used as a working platform for recovery operations using a NOFI Vee Sweep system in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Basques is a single-hull steel barge. It has ten storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 2,600. It is a dedicated response vessel fitted with two diesel generators, one crane and a deck winch (for NOFI 600 cross-bridle). The barge is configured for sweep and recovery operation using a NOFI Vee Sweep and GT-185 skimmer.

Operating data

Storage Capacity: 2,600 m³ (16,300 bbls)
Towing speed: up to 12 knots

Ancillaries

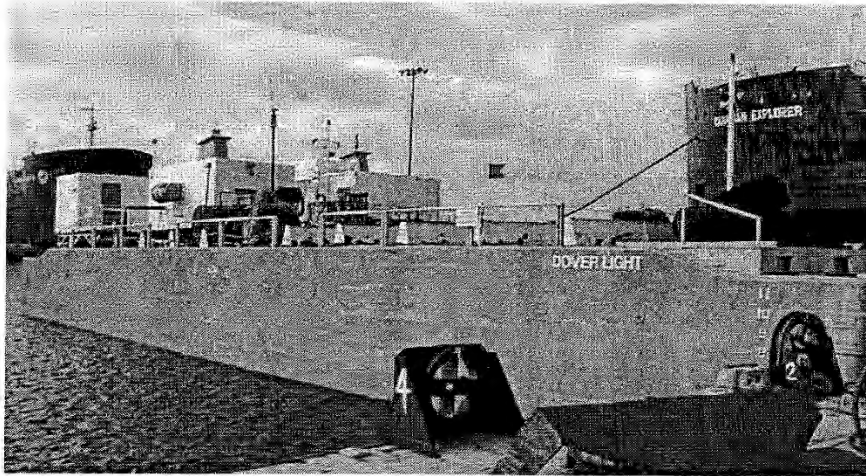
NOFI 600 Vee Sweep system
GT-185 skimmer

Technical data

Length: 66.5 m (218 ft)
Breadth: 13.0 m (43 ft)
Depth: 4.3 m (14 ft)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

BARGE DOVER LIGHT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil recovery operation. It can also be used as a working platform for recovery operations using NOFI Vee Sweep boom in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Dover Light is a single-hull steel barge. It has four storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 1,600m³. Two compartments are equipped with heating coils. It is a dedicated response vessel fitted with one diesel generator, one crane, one winch, one anchoring system, two cargo pumps and one cargo heating system.

Operating data

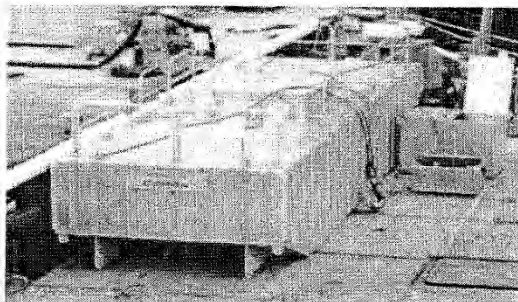
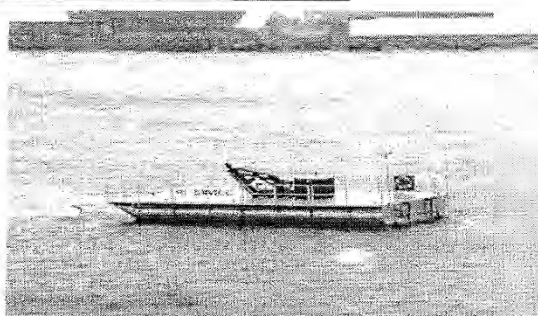
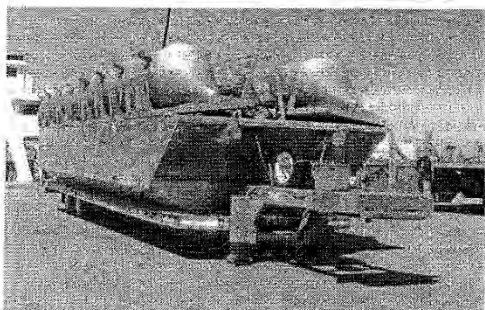
Storage capacity: 1,600 m³ (10,000 bbls)
Towing speed: up to 12 knots

Technical data

Length: 38.8 m (128 ft)
Beam: 15.1 m (50 ft)
Draught: 3.6 m (12 ft)

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50 TON STORAGE BARGE



Inventory

	Great Lakes	Quebec	Atlantic	Total
50 tons (pontoons)	-	12	-	12
50 tons	-	-	9	9
Total	-	12	9	21

Application

Used to store recovered liquid and solid materials during on water recovery or shoreline cleanup operations. They can be used as platform to support shoreline clean up operations. Some units, mounted with a power pack and hiab crane, are equipped with a skimmer unit (LORI or Libra). All units are road transportable.

Description

Built in aluminium, the barges have eight compartments, for a total storage capacity of 50 m³. Units in Quebec region are equipped with pontoons, giving a working area of 6 m x 12 m (20 ft x 40 ft).

Operating data

Towing speed: up to 8 knots
 Liquid storage capacity: 50 m³ (310 bbls)
 Road transportable

Ancillaries

For some units:
 Power pack
 Skimmer

Technical data

	<u>With pontoons</u>	<u>No pontoons</u>
Length:	12.2 m (40 ft)	10.9 m (35 ft 9 in)
Width:	6.1 m (20 ft)	3.5 m (11 ft 6 in)
Draught:	0.9 m (3 ft 10 in)	2 m (6 ft 7 in)

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 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344

BARGE ORLEANS



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	-	1	-	1

Application

Used as a primary and/or secondary storage unit during oil recovery operation. It can also be used as a working platform for recovery operations using a NOFI Vee Sweep system, in conjunction with a GT-185 skimmer. It can also serve as a simple deck working platform to carry material and equipment, supporting shoreline cleanup operations.

Description

The Orleans is a single-hull steel barge. It has eight storage compartments for the oily water, allowing for natural decanting of water, with a total storage capacity of 2,100m³. It also has fore and after ward trim compartments. It is a dedicated response vessel fitted with two diesel generators, one crane and a deck winch (for NOFI 600 cross-bridle). The barge is configured for sweep and recovery operation using a NOFI Vee Sweep and GT-185 skimmer.

Operating data

Storage Capacity: 2,100 m³ (13,200 bbls)
Towing speed: up to 12 knots

Ancillaries

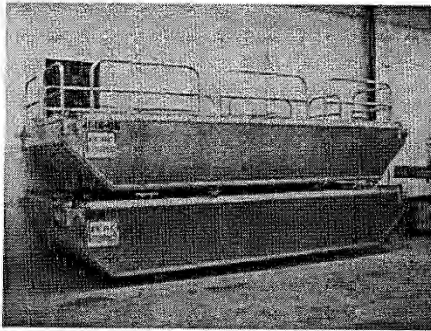
NOFI 600 Vee Sweep system
GT-185 skimmer

Technical data

Length: 65.5 m (215 ft)
Breadth: 12.8 m (42 ft)
Depth: 3.1 m (10 ft)

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SHORELINE DECK BARGE



Inventory

	Greats Lakes	Quebec	Atlantic	Total
20 x 60	-	1	-	1
10 x 25	-	2	-	2
10 x 20	-	-	4	4
Total	-	3	4	7

Application

Used as a working platform during shoreline and dock face clean-up operation. Can be used to store equipment and material on deck.

Description

Built in steel or heavy grade aluminium to allow usage at close proximity of shoreline and in tidal zone areas.

Operating data

Towing speed: up to 8 knots

Technical data

	10 x 20	10 x 25	20 x 60
Length:	6.1 m (20 ft)	7.6 m (25 ft)	18.2 m (60 ft)
Width:	3.1 m (10 ft)	3.1 m (10 ft)	3.1 m (10 ft)
Draught:	1m (3 ft)	1m (3 ft)	1m (3 ft)

Société d'Intervention Maritime, Est du Canada Ltée
Bureau 1201, 275 rue Slater, Ottawa K1P 5H9
Tél.:(613)-230-7369 Fax :(613)-230-7344

PATROL BOAT 49FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
49 ft patrol	-	2	-	2

Application

Used to assist in boom deployment and towing operations, for the transportation of equipment and responders and as a support vessel for surveillance and safety activities. Can be used in unsheltered water.

Description

This vessel is built of aluminium and is equipped with two 350 HP diesel engines. It can carry a crew of six. An open flat deck provides a working area of 28 sq metres (300 sq ft) at the rear of the vessel.

Operating data

Speed: up to 17.5 knots
Run Time: 12 hrs at 2,800 rpm

Technical data

Class: Home-Trade voyage, class III
Length: 15 m (49 ft)
Draft: 0.9 m (3 ft)
Beam: 5.5 m (17 ft)
Gross tonnage: 17 tons
Engines: 2 x 350 HP at 2800 rpm

Ancillaries

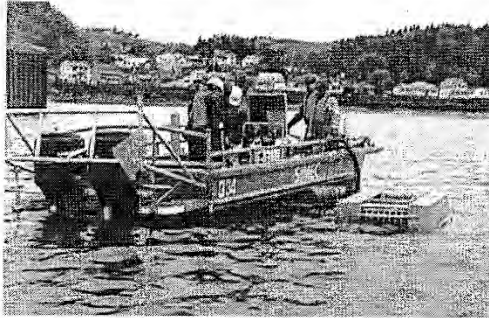
Radar
Electronic charts
GPS
Depth sounder
Radios

Safety equipment
Survival suits
Life rafts
Misc. Equipment

Fresh water tank
Grey water tank
Ballast tank

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PATROL BOATS 21 – 24FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
24 ft cabin	-	2	-	2
24 ft open	-	2	-	2
21 ft open	-	2	-	2
Total	-	6	-	6

Application

Used to assist in boom deployment and towing operations, for the transportation of equipment and responders and as a support vessel for surveillance and safety activities.

Description

All vessels are built of aluminium and equipped with outboard gasoline motors, 115 HP or 135 HP.

Operating data

Speed: up to 30 knots
Run Time: 6 hrs

Ancillaries

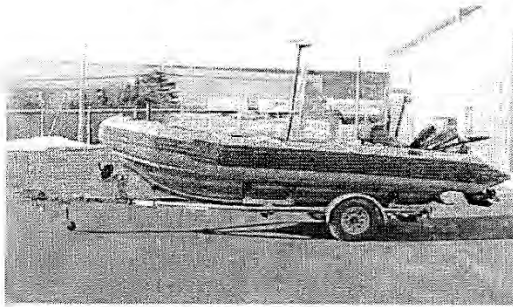
GPS
Depth sounder
Radios

Technical data

	21 ft open	24 ft open	24 ft cabin
Length:	6.4 m (21 ft)	7 m (24 ft)	7 m (24 ft)
Beam:	2.5 m (8 ft)	2.5 m (8 ft)	2.5 m (8 ft)
Draft:	0.2 m (8 in)	0.3 m (1 ft)	0.3 m (1 ft)
Engine:	1 x 135 HP	2 x 115 HP	2 x 135 HP

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RIGID HULL INFLATABLES



Inventory

	Great Lakes	Quebec	Atlantic	Total
Hurricane 590	-	-	2	2
Zodiac Mark IV	-	-	2	2
Sillinger 425UM	-	6	-	6
Sillinger 525UM	-	4	2	6
Sillinger 570UM	3	1	-	4
Total	3	11	6	20

Application

Inflatable boats provide versatility in response operations for both transportation and active duty in sheltered water operations.

Description

Rigid hull inflatable boats equipped with outboard motor (15 to 70 HP); molded fibreglass, plastic or metal hulls (including floor) with a fabric air filled flotation collar that makes up the bow and sides of the boat. The rigid hull provides stability for operation of the boat in most sea conditions. The flotation collar supplies buoyancy (with reserve), stability and absorbs wave energy to soften the ride in rough conditions.

Operating data

Speed: up to 30 knots

Ancillaries

VHF radio
Some equipped with radar

Technical data

	<u>Hurricane</u>	<u>Zodiac Mark IV</u>	<u>Sillinger 425UM</u>	<u>Sillinger 525UM</u>	<u>Sillinger 570UM</u>
Length:	5.9 m (21 ft)	5.3 m (17ft 5 in)	4.3 m (14 ft)	5.3 m (18 ft)	5.7 m (19 ft)
Width:	1.7 m (8 ft)	2.1 m (7 ft)	1.8 m (6 ft)	2.2 m (7 ft)	2.4 m (7ft 10 in)
Draft:	40 cm (16 in)	40 cm (16 in)	30 cm (12 in)	35 cm (14 in)	40 cm (16 in)

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SEATRUCKS 30 – 36FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
36 feet	-	-	11	11
34 feet	2	11	-	13
32 feet	-	1	-	1
30 feet	6	6	-	12
Total	8	18	11	37

Application

Used mainly for deployment of boom in sheltered water or close to shoreline and for skimming operation. Also used for the transportation of personnel and equipment during shoreline clean-up operations. Having a shallow draft, they permit access to almost any shoreline. Units are road transportable, each unit having a dedicated trailer.

Description

Built of aluminium, the vessels vary in size from 30' x 10' to 36' x 12'. They are equipped with two outboard motors (135 to 200HP)

Operating data

Speed: up to 30 knots
Run Time: 6 hrs
Road transportable

Ancillaries

Radar
GPS
Depth sounder
Some units carry booms or skimmer

Technical data

	30 feet	32 feet	34 feet	36 feet
Length:	9.1 m (30 ft)	9.8 m (32 ft)	9.1 m (30 ft)	9.1 m (30 ft)
Beam:	3.1 m (10 ft)	3.7 m (12 ft)	3.7 m (12 ft)	3.7 m (12 ft)
Draught:	30 cm (12 in)	30 cm (12 in)	30 cm (12 in)	40 cm (16 in)

SEATRUCKS 30 – 36FT

SMALL BOATS 12 –18FT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Small boat 12' alum	-	9	-	9
Small boat 14' alum	-	4	4	8
Small boat 16' punt	1	-	-	1
Small boat 16' alum	1	-	2	3
Small boat 18' alum	1	-	-	1
TOTAL	3	13	6	22

Application

These boats are primarily used for spill observation, transporting equipment, small material and personnel, for tending shoreline skinning and for shoreline treatment operations.

Description

For stability purposes these boats are typically flat bottom with slanted square bow, unsinkable filled with polyfoam at bow and under the seat.

Operating data

Speed: up to 10 knots
Outboard motor: 9.9 to 40 HP

Ancillaries

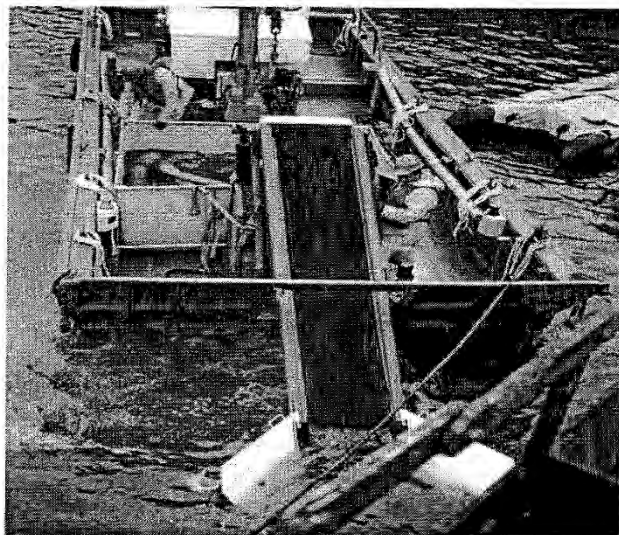
Rope, and anchor
Paddle

Technical data

Length: From 3.6 m to 5.5 m (12 to 18 ft)
Beam: From 1.5 m to 2.2 m (5 to 7 ft)
Draught: From 0.2 to 0.5 m (8 to 20 in)

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LIBRA BELT SKIMMER



Inventory

	Great Lakes	Quebec	Atlantic	Total
LIBRA	-	5	1	6

Application

Suitable for the recovery of medium to heavy oils from shoreline and in sheltered marine environments. Can be deployed from shoreline, dock, seatruck or recovery barge.

Description

An oleophilic skimmer, using a porous belt allowing water decanting. Three different types of belt can be used depending of the viscosity of the product to be recovered. Two small propellers, located underneath the front of the belt, pull oil toward the belt when the unit is not advancing on the water.

Operating data

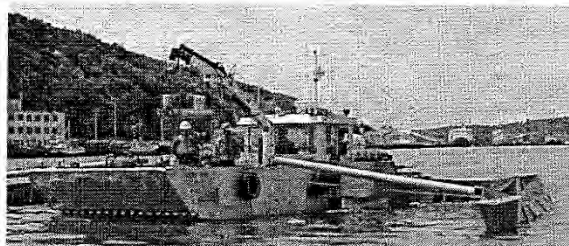
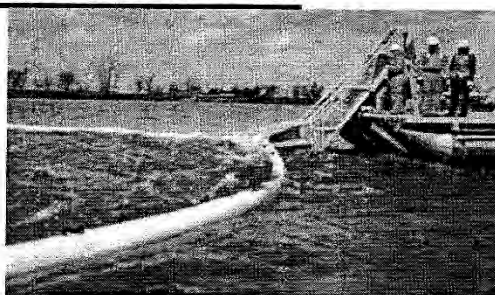
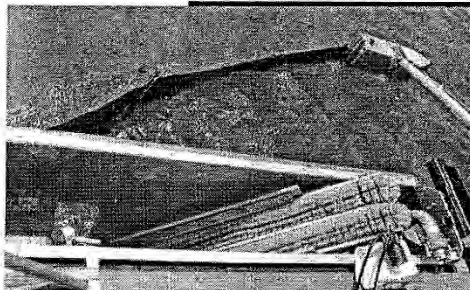
Nominal recovery rate: 28 tons/hr
De-rated recovery rate: 6 tons/hr

Technical data

Length: 4.6 m (15 ft)
Width: 1.3 m (4 ft)
Height: 1.8 m (6 ft)
Weight: 1,600 kg (3,500 lbs)

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LORI BRUSH SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
LFS (6 brush)	-	1	-	1
LBC (3 brush)	-	2	-	2
LSC (4 brush)	-	-	1	1
LSC (2 brush)	2	-	1	3
Total	2	3	2	7

Application

Suitable for the recovery of medium to high viscosity oil.
 Suitable for shoreline, sheltered and open water usage.
 Depending of model can be deployed from shoreline, dock, vessel and recovery barge.
 Suitable to be used in cold water.

Description

An oleophilic skimmer, equipped with brushes mounted on a rotating chain. Oil is scrapped off as the bristles pass through a comb-type cleaner located at the top.
 Units have two to six brushes.

Operating data

Nominal recovery rate: from 75 to 200 tons/hr
 De-rated recovery rate: from 15 to 40 tons/hr

Ancillaries

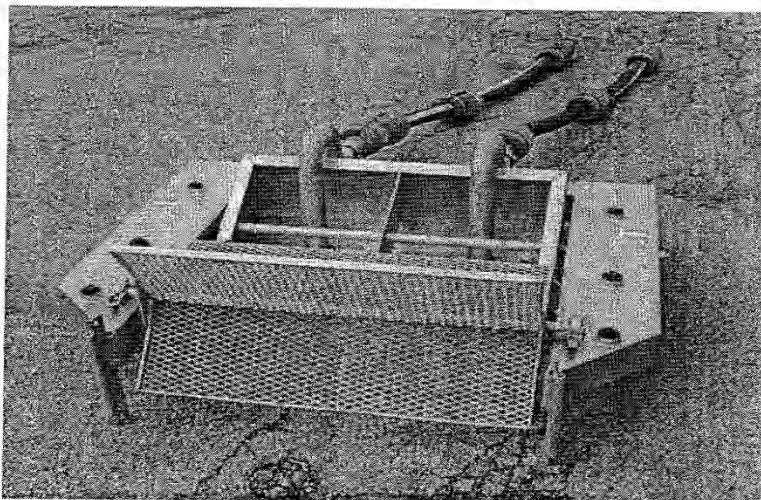
Power pack
 Pump
 Hoses

Technical data

	<u>LFS</u>	<u>LBC</u>	<u>LSC - 4</u>	<u>LSC - 2</u>
Length:	5.2 m (17 ft 1 in)	4.9 m (16 ft 1 in)	3.1 m (10 ft 2 in)	3.1m (10 ft 2 in)
Width:	3.6 m (11 ft 10 in)	2.6 m (8 ft 6 in)	1.3 m (4 ft 3 in)	0.75m (2 ft 4 in)
Height:	1.3 m (4 ft 3 in)	2.8 m (9 ft 2 in)	2.2 m (7 ft 3 in)	3.5m (11 ft 6 in)

Eastern Canada Response Corporation Ltd.
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344

PEDCO SKIMMER



Inventory

	Great Lakes	Quebec	Atlantic	Total
PEDCO	1	8	5	14

Application

Suitable for the recovery of light to heavy oil.
Suitable for shoreline and shallow water.

Description

The PEDCO is a weir skimmer. The depth of the weir is adjusted by controlling the pumping rate of the pump. The recovery rate is dependant of the pumping capacity of the pump connected to it.

Operating data

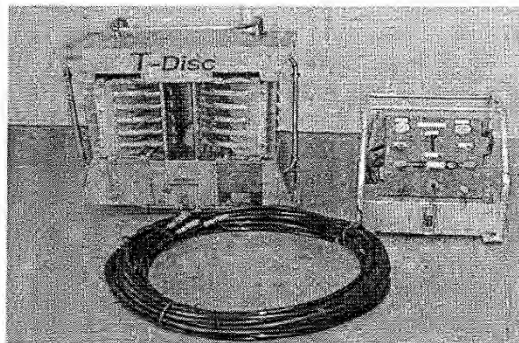
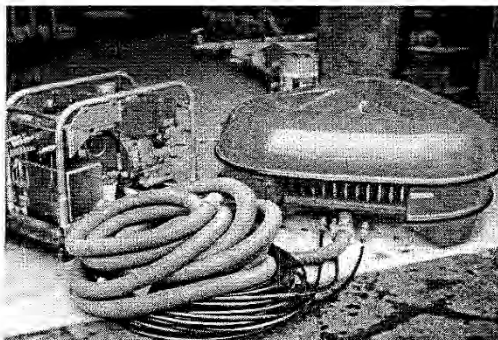
Nominal recovery rate: 75 tons/hr
De-rated recovery rate: 15 tons/hr

Technical data

Length: 1.7 m (5 ft 6 in)
Width: 2.0 m (6 ft 5 in)
Height: 0.8 m (2 ft 7 in)
Weight: 55 kg (122 lbs)

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Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

DISC SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
MI – 30	-	2	5	7
T – 12	2	5	-	7
T – 18	1	3	3	7
Total	3	10	8	21

Application

Suitable for the recovery of light to medium viscosity oil.
 Suitable for shoreline and sheltered use.
 Can be deployed from shoreline, dock or small boat.

Description

An oleophilic disk skimmer, either equipped with a diaphragm pump, installed in the middle section (MI-30, T-18) or using an external pumping mechanism (T-12). Hydraulically driven by an external power pack. The RPM of the disk is adjusted, according to the viscosity of oil, in order to minimise water pick up.

Operating data

	T-12	T-18	MI-30
Nominal recovery rate: (tons/hr)	12	18	23
De-rated recovery rate: (tons/hr)	2	4	5

Ancillaries

Hydraulic power pack – diesel
 Hydraulic hoses
 Discharge hoses

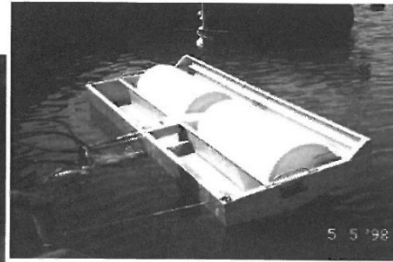
Technical data

	<u>T-12</u>	<u>T-18</u>	<u>MI-30</u>
Length:	1.2 m (3 ft 11 in)	1.3 m (4 ft 3 in)	1.2 m (3 ft x 11)
Width:	1.0 m (3 ft x 4 in)	1.2 m (3 ft x 11 in)	1.2 m (3 ft x 11)
Height:	0.5 m (1 ft x 7 in)	0.6 m (1 ft x 11 in)	0.6 m (1 ft x 11)
Weight:	68 kg (150 lbs)	150 kg (330 lbs)	71 kg (155 lbs)

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 Phone (613)-230-7369 Fax (613)-230-7344



ELASTEC SKIMMER



Inventory	Great Lakes	Quebec	Atlantic	Total
Elastec TDS-136	-	3	3	6
Elastec TDS-118G	1	2	-	3

Application

Suitable for the recovery of light to high viscosity oil, but most useful in heavy oil recovery.
 Suitable for shoreline and sheltered water usage.
 Can be deployed from shoreline, vessel or recovery barge.

Description

An oleophilic drum skimmer, built of aluminium frame and moulded polyethylene drums. The oil is picked off the water by the rotating drum and scraped off into a sump. The 188G features a grooved drum providing improved recovery rate. An integrated or external pump moves the recovered oil to an external storage unit.

Operating Data

	118	136
Nominal recovery rate:	8tons/hr	15 tons/hr
De-rated recovery rate:	38tons/day	72tons/day

Ancillaries

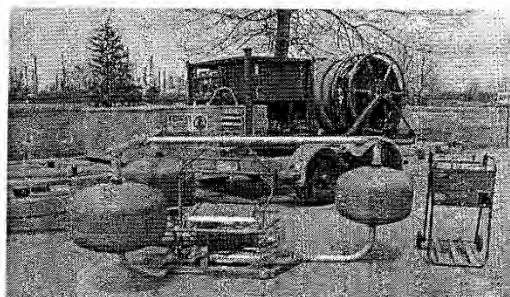
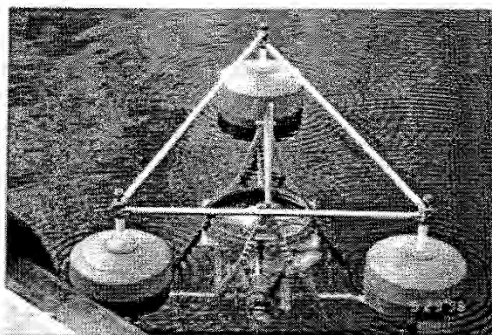
Power pack
 118- External pump
 136 – Onboard submersible pump (2 in)

Technical Data

	118	136
Length:	0.9 m	0.9 m (3 ft 0 in)
Width:	1.2 m	2.3 m (7 ft 8 in)
Height:	0.4 m	0.4 m (1 ft 3 in)
Weight:	27 kg	68 kg (150 lbs)

ECRC~SIMEC
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344
 Website: www.ecrc.ca

GT-260 / GT-185 SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
GT-185	2	4	6	12
GT-260	-	-	2	2
Total	2	4	8	14

Application

Suitable for the recovery of light to high viscosity oil.

Suitable for shoreline, sheltered and open water usage.

Can be deployed from shoreline, dock, and vessel of opportunity or recovery barge. Used in conjunction with the NOFI Sweep system from a large recovery barge.

Description

A weir skimmer, equipped with an Archimedean screw pump, installed in the middle section. Hydraulically driven by an external power pack. The height of the weir is adjustable as well the pumping rate. This maximises the recovery of product with a minimum quantity of water.

Operating data

	GT-185	GT-260
Nominal recovery rate (tons/hre):	45	90
De-rated recovery rate (tons/hre):	9	18

Ancillaries

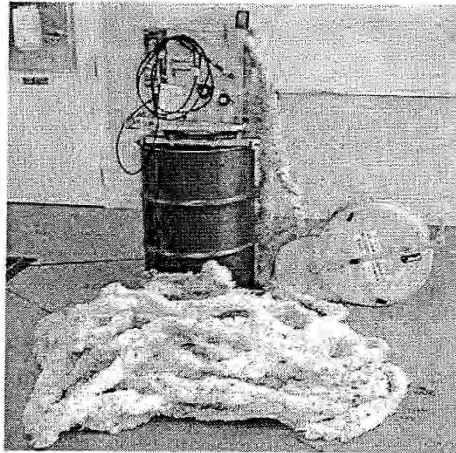
Hydraulic power pack – diesel
Remote control
Hydraulic hoses
Discharge hoses, with floaters

Technical data

	Skimmer head		Power pack	
	GT-185	GT-260	GT-185	GT-260
Length:	2.3 m (7 ft 7 in)	3.5 m (11 ft 6 in)	1.3 m (4 ft 3 in)	2.0 m (6 ft 7 in)
Width:	1.9 m (6 ft 3 in)	1.9 m (6 ft 3 in)	1.0 m (3 ft 3 in)	1.3 m (4 ft 3 in)
Height:	1.0 m (3 ft 3 in)	2.2 m (7 ft 3 in)	1.1 m (3 ft 7 in)	2.0 m (6 ft 7 in)
Weight:	182 kg (400 lbs)	220 kg (485 lbs)	640 kg (1,410 lbs)	865 kg (1,910 lbs)

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OIL MOP SKIMMERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
Small Rope Mop	4	11	8	23

Application

Suitable for the recovery of medium viscosity oils. Can also be used with light and heavy oils with acceptable results, depending of conditions.

Suitable for shoreline and shallow water.

Can also be used in the presence of ice and debris.

Description

This oleophilic skimmer is composed of an endless rope mop, a pulley and an electric roller wringer. The rope mop is pulled through the oil slick and returned through the roller where the oil is extracted and collected in a 45gal drum.

Operating data

Nominal recovery rate: 46 tons/hr

De-rated recovery rate: 1 ton/hr

Technical data

Skimmer:

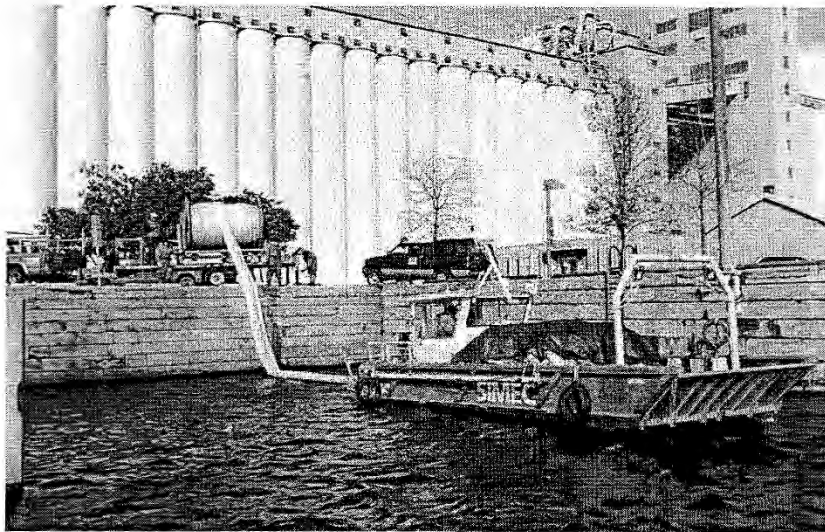
Length:	0.6 m (1 ft 10 in)
Width:	0.4 m (1 ft 3 in)
Height:	0.6 m (1 ft 11 in)
Weight:	68 kg (150 lbs)

Rope mop:

Diameter:	10 cm (4 in)
Length:	15 m (50 ft) per section

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KEPNER BOOM



Inventory

	Great Lakes	Quebec	Atlantic	Total
Open Harbour	1 (450 m)	2 (900 m)	1 (450 m)	4 (1,800 m)

Application

Oil containment boom suitable for shoreline, sheltered and open water usage.

Can be deployed from a dock, from shore or from a vessel.

Mounted on a deployment reel, the boom self-inflates as it comes off the reel, allowing quick deployment.

Description

The Kepner boom is a self-inflating, self-compacting reel able boom constructed of heavy-duty polyurethane-coated polyester fabric. Each reel contains three sections of 150 meters each (500 ft), for a total of 450 meters (1 500 ft) per reel.

Operating data

Maximum current: 1.5 knots

Ancillaries

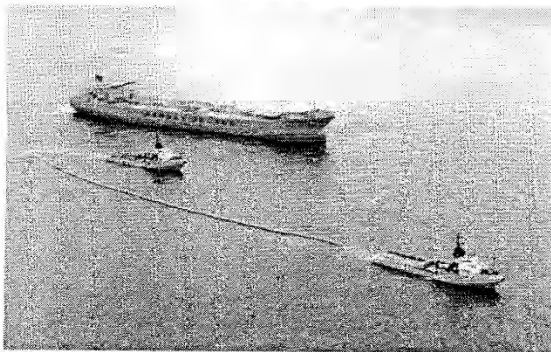
Boom reel
Power pack (diesel)
Trailer

Technical data

Boom Section: 150 m (500 ft)
Boom overall height: 0.66 m (26 in)
Boom freeboard: 0.25 m (10 in)
Boom draught: 0.41 m (16 in)
Total weight: 4,000 kg (8,800 lbs)

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NOFI SWEEP SYSTEMS



Inventory

	Great Lakes	Quebec	Atlantic	Total
NOFI-1000	-	-	1	1
NOFI-600	-	2	2	4
Total	-	2	3	5

Application

The NOFI Sweep System is a wide-swath oil containment system suitable for use in unsheltered waters. The sweep system is deployed from a vessel or large recovery barge, used as the platform for the operation of the skimmer and for storage of recovered liquid. A second vessel is required to pull the lead arm of the sweep.

Description

The system is comprised of two boom sections: 1) the v-shaped boom section that provides an oil collection point; and, 2) the guide boom section that deflects oil into the v-section. The NOFI system utilizes a cross bridle line and a trawl net in the v-section to control the shape of the sweep. The small area created by the v-section, results in a thicker layer of oil accumulating at the apex. The NOFI 600 is single container system that can be deployed from offshore support vessels, barges or tugs. The NOFI 1000 is designed as a two-container system that must be deployed from offshore support vessels that are large enough to accommodate 20' ISO containers.

Operating data

	<u>NOFI-600</u>	<u>NOFI-1000</u>
Advancing rate:	1.5 knots max.	1.5 knots max.
Swath width	100 m	200 m

Ancillaries

Diesel hydraulic power unit for NOFI-600
Gas powered boom inflators

Technical data

	<u>NOFI-600</u>	<u>NOFI-1000</u>
Boom overall height:	1.2 m (4 ft 0 in)	2.4 m (7 ft 9 in)
Boom draught:	0.6 m (2 ft 0 in)	1.0 m (3 ft 3 in)
Boom freeboard:	0.6 m (2 ft 0 in)	1.4 m (4 ft 6 in)
Length of guide boom:	100 m (330 ft)	270 m (900 ft)

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Phone (613)-230-7369 Fax (613)-230-7344

SOLID FLOTATION BOOM



Inventory (meters)

	Great Lakes	Quebec	Atlantic	Total
GP 20 in.	8,670	730	5,190	14,590
GP 24 in.	-	20,750	7,300	28,050
GP 36 in.	-	1,960	3,750	5,710
Total	8,670	23,440	16,240	48,350

Application

Oil containment boom suitable for shoreline and sheltered water. It is stored in trailers, containers and on deck of seatrucks and pontoons.

Description

It is a general purpose boom with a solid flotation core and made of polyurethane-coated polyester fabric.

Operating data

Maximum current: 1.5 knots

Ancillaries

Ropes
Anchors
Buoys

Technical data

	20 in	24 in	36 in
Boom section:	15 m (50 ft)	15 m (50 ft)	15 m (50 ft)
Boom overall height:	51 cm (20 in)	61 cm (24 in)	91 cm (36 in)
Boom freeboard:	15 cm (6 in)	20 cm (8 in)	30 cm (12 in)
Boom draught:	36 cm (14 in)	41 cm (16 in)	61 cm (24 in)

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SHORE SEAL BOOM



Inventory (meters)

Shore Seal	Great Lakes	Quebec	Atlantic	Total
	180	1,270	180	1,630

Application

Mainly used in area where there is tidal effect, it provides seal to the bottom when the tides goes out. It joins to conventional booms in deeper water. Useful when doing shoreline cleaning, using water flooding method.

Description

The boom uses two water-filled lower chambers for ballast and stability. The top chamber is air inflated for buoyancy. It is made of a rugged urethane coated fabric for maximum abrasion and puncture resistance.

Technical data

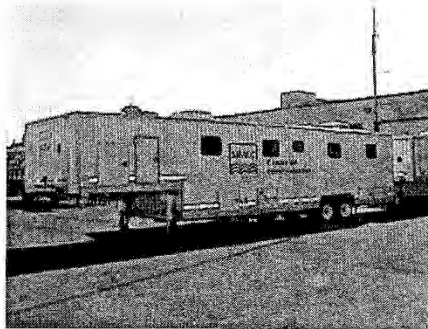
Boom section: 15 m (50 ft)
Air chamber: 35 cm (14 in)
Water chambers: 25 cm (9 in)

Ancillaries

Ropes
Anchors
Buoys

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

FIELD OPERATIONS CENTRE



Inventory

	Great Lakes	Quebec	Atlantic	Total
Trailer	1	2	2	5
Motorised unit	-	1	-	1
Total	1	3	2	6

Application

Used as a temporary Field Operations Centre/Communications Centre, equipped with communication equipment, including an 800 MHz repeater and mast antenna. Also utilised as a field division office deployed at/near the spill site.

Description

Fifth wheel trailer or motor home modified to support Spill Management Team. Units are equipped with heating / air conditioning units.

Operating data

Fifth wheel or motorised
Can be used in cold or warm climate

Technical data

Length: varying from 9 m to 12 m (30 to 40 ft)
Width: 2.4 m (8 ft)

Ancillaries

800 MHz radio system (dedicated frequencies)
VHF / UHF
Phone (Land, cell, satellite)
FAX, Photocopier

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

MOBILE UNIT / BASE STATION



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	2	5	4	11

Application

This type of unit is used to enhance the coverage area given its transmitting power is stronger than a typical handheld unit. It is utilised as a mobile unit (in truck, boats or field operation centre) or as a base station in the management centre.

Description

The Spectra mobile unit is a programmable radio operating in the UHF 800 MHz frequency range providing access to 48 pre-programmed channels, providing maximum flexibility for spill response communications requirements. This unit has a stronger output than handheld radios that increase the coverage area enhancing communications capability. Dedicated transportation cases, meeting air transportation specifications, are available for the transportation of the base stations.

Operating data

Range: +/- 20km radius in conventional mode
Output: 25 watts
Can operate in simplex, duplex (conventional) and trunking.

Ancillaries

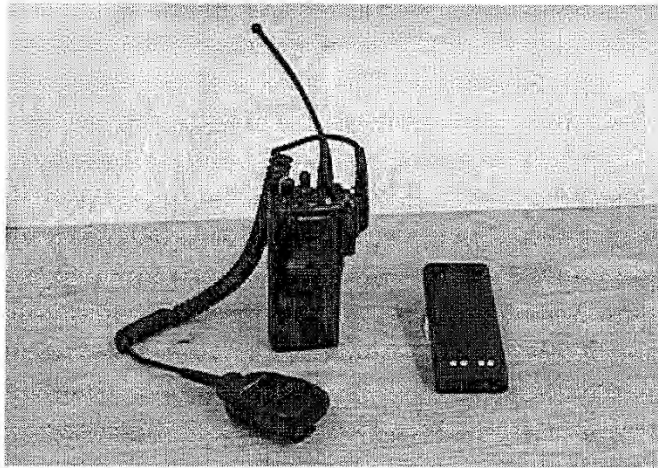
Remote speaker
Microphone
Antenna (3dB or 9 dB gain)

Technical data

Frequency Range: 806-825 MHz
851-870 MHz
Four sets of frequency dedicated to ECRC for spill response operation

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Phone (613)-230-7369 Fax (613)-230-7344

PORTABLE RADIO



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	21	72	50	143

Application

The portable radio is the main communication tool for ECRC both in the field and within operational management. The radio is intrinsically safe and can be used in all environments. Response Centres maintain an inventory of radios that could be cascaded to any region and operated without having to be reprogrammed.

Description

The Motorola MTS 2000 portable radio operates in the UHF-800MHz frequency ranges, providing access to 48 pre-programmed channels, which allows greater flexibility for establishing a communication network when there is a lot of teams working in the field. It can be used in a simplex mode (radio to radio), through ECRC repeaters or through public carrier trunking systems. Dedicated transportation cases, meeting air transportation specifications, are available for the transportation of radios.

Operating data

Range: +/- 10 km radius in conventional mode
Output: 2 (intrinsic limit) watts
Can operate in simplex, duplex (conventional) and trunking

Ancillaries

Microphone
Optional headphone
Carrying case
Battery / Spare battery
Belt / Belt clip

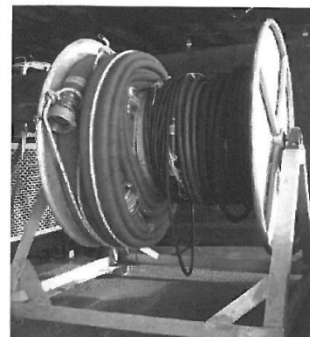
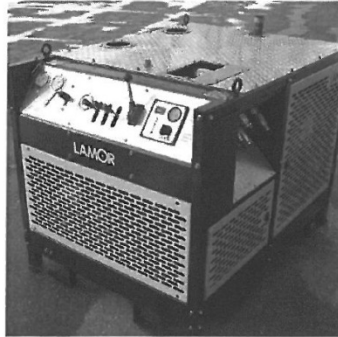
Technical data

Frequency Range: 806-825 MHz
851-870 MHz
Frequency dedicated to ECRC for spill response operation
Intrinsically safe

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
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DESMI DOP - 160



Inventory

	Great Lakes	Quebec	Atlantic	Total
Total	2	3	2	7

Application

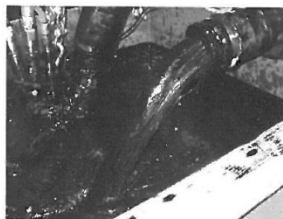
A submersible cargo offloading pump system, designed to pump high viscosity products (0 to > 1,000,000 cSt). The system is used for transferring product from temporary storage devices or can be deployed directly into areas where large volumes of oil may be collected for recovery.

Description

The Desmi DOP-160 system is a modified design of the traditional archimedes screw pump. Unlike traditional archimedes screw pumps, the DOP-160 is self-feeding. Fluid is forced into the pump housing by the rotation of the screw. This self-feeding feature combined with the benefits of screw pump design enables the DOP-160 to operate as an effective offloading and transfer pump for products with higher viscosity ratings. The unit can be run with hot water injection on the inlet and/or outlet side of the pump. This lubricates the pump and/or product hose in order to handle the most viscous products.

Operating Data

Max. Pressure: 10 bar / 150 PSI
Max. Capacity: 30 m³ /hr (132 gpm)



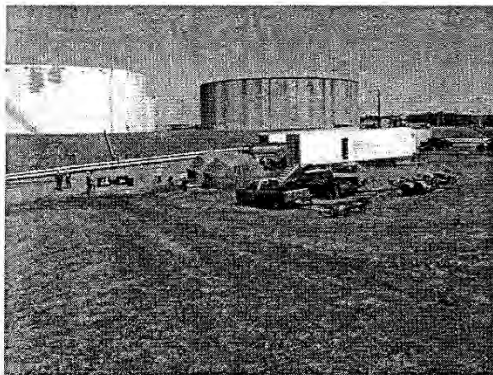
Ancillaries

Hydraulic power unit, powered by a 35 kW diesel motor.
Hose reel is complete with hoses for hydraulic fluid and water injection.

Technical Data

	<u>Power pack</u>	<u>Reel</u>	<u>Pump</u>
Length:	1.3 m (4' 6")	1.4 m (4' 6")	.39 m (15")
Width:	1 m (3' 4")	1.4 m (4' 6")	.24 m (9")
Height:	1.1 m (3' 8")	1.5 m (5')	.52 m (20")
Weight:	Full 830 Kg (1826 lbs)		31 Kg (68lbs)

DECONTAMINATION UNIT



Inventory

	Great Lakes	Quebec	Atlantic	Total
45 ft trailer	-	-	1	1
Tents and mat'l	1	3	1	5

Application

The decontamination unit is utilized for the cleaning of personnel and equipment during spill responses. It provides for the removal, storage and potential cleaning/reuse of personal protective equipment and tools. It is the point of entry/departure to and from the spill site by shoreline workers.

Description

The decontamination unit consists of one 45 ft. van trailer, four tents (see Information Sheet Tent-Shelter), wash trays, sorbents, deck matting, storage drums and portatanks. It is set up near or adjacent to the spill site as a component of the field camp. Trailer is to be moved to other region, when needed

Technical data

45 ft van trailer (fifth wheel), equipped with a propane fired water heater
Tents of 27 m² (300 ft²)

Ancillaries

Cleaning agents
Personal protective equipment
Water tanks
Washroom
Toilet facilities
Water heater
Waste stream separation system
(piping and tanks)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

HIGH PRESSURE WASHING UNIT



Inventory

	Great Lakes	Quebec	Atlantic	Total
Landa	-	3	2	5

Application

Portable high pressure washing unit, providing cold or warm water or steam. Can be used during shoreline cleanup operations to clean manmade structures.

Can be transported by road or on a seatruck to access remote shoreline areas

Description

Mounted on a trailer, the unit is equipped with a diesel heater, a diesel pump, a 500 gal reservoir for the water and two high-pressure pistols.

Operating data

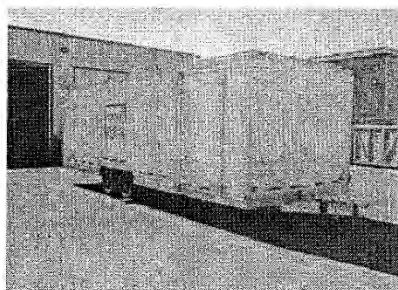
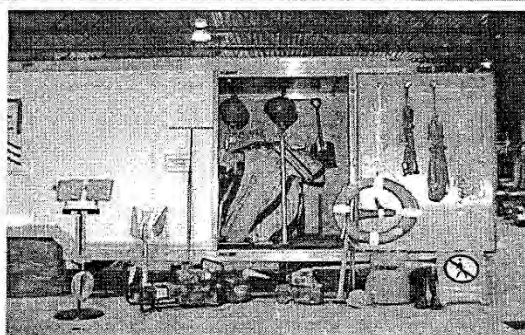
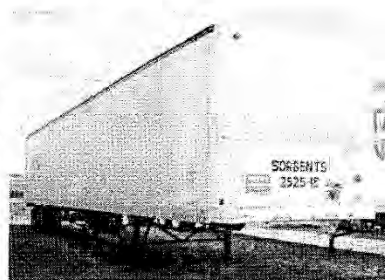
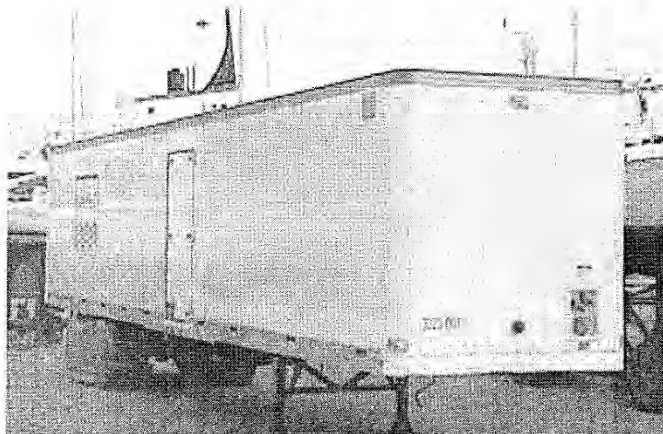
Maximum pressure: 165 bar (2,300 psi)

Technical data

Length: 5 m (16 ft 8 in)
Width: 2.4 m (7 ft 9 in)
Height: 1.7 m (5 ft 7 in)

Eastern Canada Response Corporation Ltd.
Suite 1201, 275 Slater Street, Ottawa K1P 5H9
Phone (613)-230-7369 Fax (613)-230-7344

RESPONSE TRAILERS



Inventory

	Great Lakes	Quebec	Atlantic	Total
48 ft trailer	-	7	3	10
45 ft trailer	-	-	7	7
35 ft trailer	1	1	-	2
24 ft trailer	1	6	-	7
10 ft trailer	5	1	2	8
Total	7	15	12	34

Application

Quick deployment trailer, containing response equipment to start shoreline cleanup operations or to bring different response equipment on site. Can be used as a field store when on site.

Description

The box trailers vary in size from 10 ft to 48 ft. One unit per response centre is configured as a shoreline cleanup unit, containing booms, skimmer, pumps, hoses, portable storage, sorbents, generators, lights, etc. Other units carry boom, sorbents or configured as a field store.

Technical data

Varying in length from 10 ft (3m) to 48 ft (14.6m)

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Phone (613)-230-7369 Fax (613)-230-7344

Integrated Contingency Plan

C-115



BIRD HAZING DEVICES



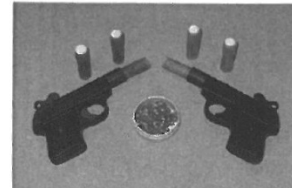
Breco Buoy



Propane Cannon



Phoenix Wailer



Starter Pistols

Inventory

	Great Lakes	Quebec	Atlantic	Total
Breco Buoy	1	5	2	8
Propane Cannons	-	-	5	5
Phoenix Wailer	-	-	1	1
Starter Pistol	2	-	14	16
Total	3	5	22	30

Application

Bird scaring devices are used to help move birds away from oiled areas to reduce the risk of contamination to the birds.

Description

The bird scaring devices listed above all use sound as the deterrent mechanism. The sounds are generated by electronic speakers (Breco Buoy, Phoenix Wailer), controlled gas explosion (propane cannon), and 6mm pistol blanks and "whizzers" (Starter Pistols). The range and effectiveness varies with each device. The electronic devices use a random sequence of sounds to reduce the habituation of the birds to the sounds. Each of the devices is designed to be operated on land or on a boat. The Breco Buoy is also a free floating unit designed to drift with an oil slick.

Operating data

	<u>Deterrent Radius</u>	<u>Run Time</u>
Breco buoy:	800 m	3 days
Propane cannon:	750 m	3-7 days
Phoenix wailer:	800 m	7 days
Starter pistol:	200 m	-

Technical data

Breco: 130 dB (max), 2-3.5 min blast cycles, 10-12 sounds/cycle
 Cannon: 24 hour on/off programmable, 4 blast cycle settings
 Wailer: 119dB (max), 0.5-32 min sound cycles, 16-64 sounds/cycle

Eastern Canada Response Corporation Ltd.
 Suite 1201, 275 Slater Street, Ottawa K1P 5H9
 Phone (613)-230-7369 Fax (613)-230-7344

CLEAN HARBORS ENVIRONMENTAL SERVICES

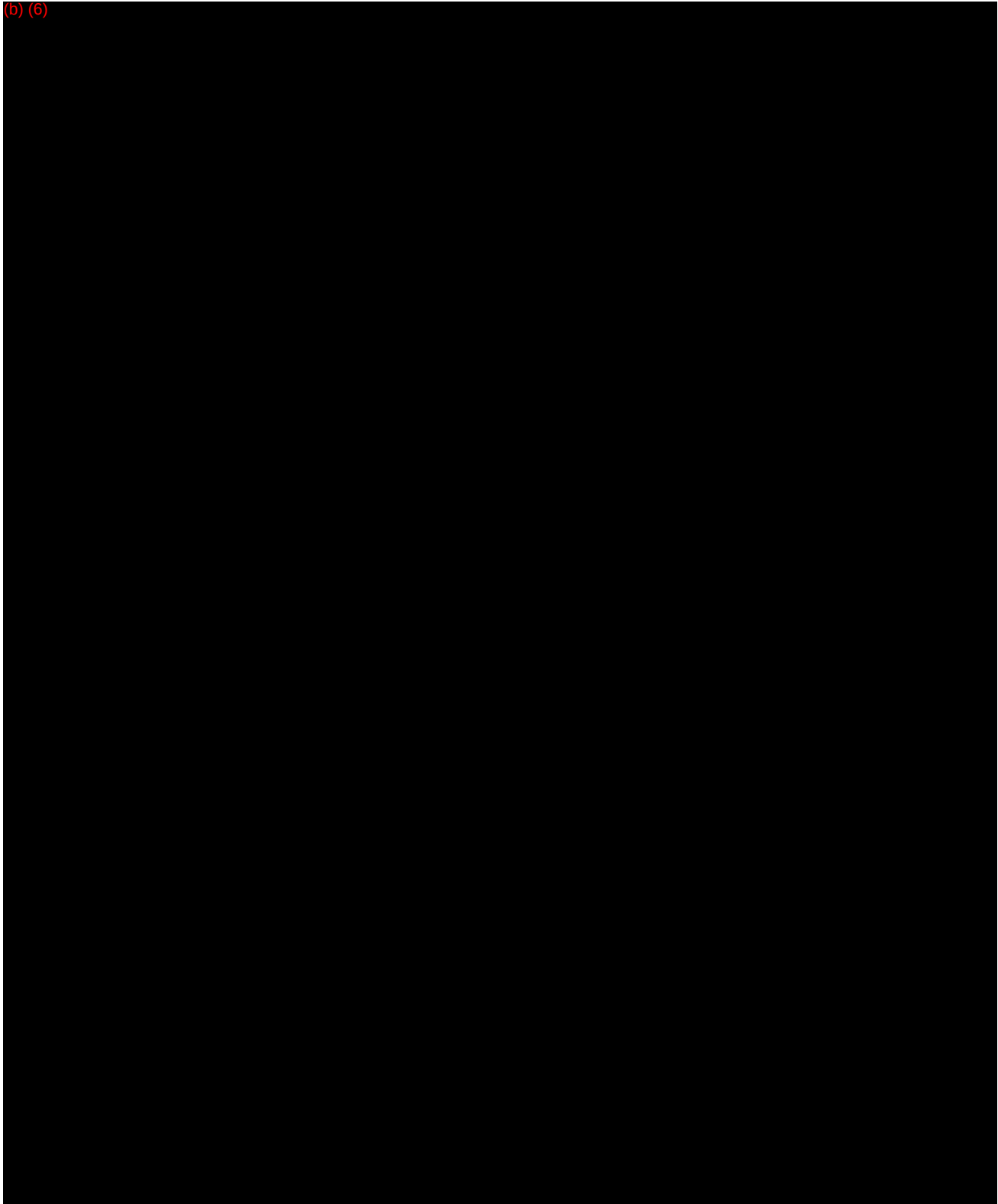
Sainte-Catherine PQ Equipment List

Clean Harbors Sainte-Catherine PQ Equipment List

# Unité	Année	Modèle	Identification véhicule	# plaque	Description	Capacité
31062	1991	Kenworth T800	2XKDD029X0MM926591	LB59898	TRACTEUR POMPE VAC 1200CFM / HYD	
31067	1997	Kenworth T800	1XKDD99XVJ948499	LC82401	TRACTEUR POMPE VAC 500 CFM	
31068	1997	Kenworth T800	1XKDD99X2VJ94500	LC82402	TRACTEUR POMPE VAC 500 CFM / HYD	
31069	2001	Petebill 378	1XPF069X81N565956	L214041	TRACTEUR ROLL-OFF HYD.	
31070	2002	Mack CX 613	1M1AE06Y22W012072	L241890	TRACTEUR POMPE VAC, 500 CFM / HYD.	
415371	2005	FREIGHT LINER	1FUJA6CKX5LU35611	L232139	TRACTEUR	
415372	2005	FREIGHT LINER	1FUJA6CK15LU35612	L270349	TRACTEUR	
415373	2005	FREIGHT LINER	1FUJA6CK35LU35613	L270350	TRACTEUR	
415374	2005	FREIGHT LINER	1FUJA6CK55LU35614	L270351	TRACTEUR	
415375	2005	FREIGHT LINER	1FUJA6CK75LU35615	L270377	TRACTEUR	
415376	2005	FREIGHT LINER	1FUJA6CK95LU35616	L270378	TRACTEUR	
415377	2005	FREIGHT LINER	1FUJA6CK05LU35617	L270379	TRACTEUR	
1316	2006	Kenworth	1XKDDBOX46J138257	L371761	TRACTEUR	
1317	2006	Kenworth	1XKDDBOX66J138258	L371762	TRACTEUR	
1336	2006	FREIGHT LINER	1FUJA6AV86LX00329	L346752	TRACTEUR	
1337	2006	FREIGHT LINER	1FUJA6AV46LX00330	L345753	TRACTEUR	
1292	2005	KENWORTH	1XKDDU0X95J104678	L201667	TRACTEUR	
32015	1991	Kenworth C550	2NJKX2TX8MM926611	LB33358	CAMION CITERNE 1200 CFM	12500L
4146	2004	Kenworth T800	1NKDLBOX94J063338	L308055	10 ROUE ROLL-OFF	25250KG
47001	1995	Deloupe pup 3 essies	2D9TP29C2S1005433	RM14852	REMORQUE ROLL-OFF	26000KG
47002	1995	Deloupe 4 essieux	2D9TP46D6S1005430	RZ21362	REMORQUE ROLL-OFF	55500KG
7191	2005	Chagnon	2C9S81ACX5V057496	RZ39635	B TRAIN ROLL-OFF	47500KG
7191-2	2005	Chagnon	2C9S418B05V057497	RZ39636	B TRAIN ROLL-OFF	41500KG
7192	2005	Chagnon	2C9S418B45V057498	RZ74828	B TRAIN ROLL-OFF	47500KG
7192-2	2005	Chagnon	2C9S418B45V057499	RZ74829	B TRAIN ROLL-OFF	41500KG
40090	1978	Westank Willock	PV7802	RB25228	CITERNE PORTEUR	36000L
40091	1979	Westank Willock	PV7902T	RW19843	CITERNE PORTEUR	31000L
40092	1980	Westank Willock	PV8002T	RB99201	CITERNE VACUUM	22000L
40093	1980	Westank Willock	PV8004T	RB99202	CITERNE VACUUM 800 CFM	22000L
40097	1985	CUSCO	2C9T0462XFC005537	R858287	CITERNE	22000L
40098	1986	PRESVAC	2P9S25283G1005023	RA86448	CITERNE VACUUM 800 CFM	22000L
40099	1986	PRESVAC	2P9S25283G1005024	RB252277	CITERNE VACUUM	22000L
40101	1989	PRESVAC	2P9S25385K1005015	RB98827	CITERNE VACUUM 1200 CFM	29000L
40103	1988	PRESVAC	2D9KB28B5T1004183	RK97686	CITERNE VACUUM 800 CFM	13500L
40108	1995	DELOUPE CUSCO	2D9LP39B8S1005465	RJ79238	CITERNE VACUUM 1200 CFM	15000L
16042	1986	PETRO STEEL	1P9TBB204G1021055	RM147351	CITERNE VACUUM	27400L
2133	2006	Tremcar	2TSL49406B001772	RZ39995	CITERNE POMPE A GEAR	34000L
2134	2006	Tremcar	2TSL49406B001773	RZ29996	CITERNE POMPE A GEAR	34000L
6250	1999	MANAC	1M5921460470C4735		REMORQUE	
6251	2000	MANAC	2M5921469Y7064734	RE95697	REMORQUE	
6252	2000	MANAC	2M5921460Y7064735	RE95696	REMORQUE	
6253	2000	MANAC	2M5921464Y7064737	RE95720	REMORQUE	
6254	1999	MANAC	2M5921466Y7064740	RE95719	REMORQUE	
42205	1996	MANAC	2M5921377V1043339	RW61545	REMORQUE	
42206	1997	MANAC	2M5921375V1043338	RR83698	REMORQUE	
36100	1994	KENWORTH	2NKNLA9XXRM932580	LC32644	BOX VAN	
33201	1994	KENWORTH	1FVX3MDB1YLB64920	L411625	BOX VAN	
38007	2000	FORD F150	2FTRX17W6YCA90083	FX86559	CAMION DE SERVICE	

CLEAN HARBORS ENVIRONMENTAL SERVICES
Sainte-Catherine PQ Contact List

(b) (6)



CANADA – OIL SPILL RESPONSE CONTRACTORS

Contractor Response Resources Highwater Station

CONTRACTORS AND EQUIPMENT

	Soudure Lessard		Excavation Saint- Pierre et Tremblay, Cowansville	Fred Korman inc., Mansonville		Location d'outily Knowlton	Allard et Allard inc., Lac Brome, Quebec	Oxygène de Granby Welding Suppliers inc.	Location Gauthier enr.
Telephone	514 640- 9446 (24 h)		266-2100 359-7894 263-4555	292-5777 292-3335 878-1453		450-242- 1644	800- 816-2646 539-2646	378-9001- 2-3	450-292- 5585
Air Compr.	D								X
Back Hoe	D			D			D		
Dozer			D	D			D		
Crane	D			D					
Front End Loader			D				D		
Overhead Loader	D						D		
Shovel	X		D						
Tank Trailer									
Tractor Crawler									
Trucks			X				D		
Spark Arrestors			NON				NON		
Grader									
Vacuum Truck									
Float	D						D		
Welders & Pipe Fitters	X								

D – Denotes Diesel Power

X – Denotes Other type of Power

Pipeline Valves in Vicinity

(b) (6)

Contractor Response Resources Saint-Césaire Station

CONTRACTORS AND EQUIPMENT

	Excavation C.M.R., Farnham	Excavation St- Pierre et Tremblay	Soudure Lessard	Ostiguy et Robert	Excavation Choinière, Granby	Simplex Location d'outils
Telephone	450-293-5510 450-293-2293	450-293-6598	514 640-9446 (24 h)	450-469-3156 450-469-4472 (24 h) 800-363-8973	450-361-1769	450-293- 3116
Air Compr.	D		D			X
Back Hoe	D	D	D		D	
Dozer	D	D		D	D	
Crane			D			
Front End Loader	D	D				
Overhead Loader	D					
Shovel	D	D	D		D	
Tank Trailer	D	D				
Tractor Crawler						
Trucks		D				
Spark Arrestors	N/A	N/A		N/A		
Grader		D		D		
Vacuum Truck						
Float	D	D	D	D		
Welders & Pipe Fitters			X			

D – Denotes Diesel Power

X – Denotes Other type of Power

N/A – Not Available

Pipeline Valves in Vicinity

(b) (7)(F)

Contractor Response Resources Montreal-East Terminal

CONTRACTORS AND EQUIPMENT

	Germain Simard Ltee	Grue Fortier	Dickie Moore	Veolia	RSR Environnement	McAllister Towing Ltd.	Soudure Lessard
Telephone	514-253-5211 (24 h)	514-259-1535 (24 h)	514-739-4791 514-333-4212 (24 h)	514-332-2000 (24 h)	450 922-2200 (24 h)	514-849-5511 514-849-2221 (24 h)	514 640-9446 (24 h)
Air Compr.	D		D X			D	D
Back Hoe	D						D
Dozer	D						
Crane		D X			D		D
Front End Loader	D						
Overhead Loader							
Shovel	D						
Tank Trailer				D			
Tractor Crawler	D						
Trucks	D			D			
Spark Arrestors	N/A	N/A	N/A	yes			
pollution				X	X	X	
Welders & Pipe Fitters							X

D – Denotes Diesel Power

X – Denotes Other Power

N/A – Not available

Pipeline Valves in Vicinity

(b) (7)(F)

Contractor Response Resources Montreal-East Terminal								
CONTRACTORS AND EQUIPMENT								
	Simplex	Dusseault Helio Services	J.L. Sorel et Frères	McAllister Towing Ltd.	Montreal Boatman	Veolia	RSR Environnement	ECRC (SIMEC)
Telephone	514-331-7777	450-464-5290	514-524-9418	514-849-2221 514-849-5511 (24 h)	514-640-4970 (24 h)	514-645-1045	450-922-2200	613-930-9690 (24 h)
Vacuum Truck						D	D	D
Pump	D X			D X		D X		
Helicopter Service		X						
Driving Service			X	X				
Tugs				D				D
Service Boats				X	X	X	X	X
Outboards				X		X		X
Spark Arrestors	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Pollution				X		X		X
D – Denotes Diesel Power X – Denotes Other Power N/A – Not Available								

Contractor Response Resources Montreal-East Terminal

CONTRACTORS AND EQUIPMENT

	Dickie Moore Rentals	Simplex location outils	McAllister Towing Ltd	Cartier Chemical Ltd.	Environement Rive Nord	RSR Environement
Telephone	514-333-1212 (24 h)	514-331-7777	514-849-2221 514-849-5511 (24 h)	514-637-4631	450-430-8666 514-975-4478	450-922-9200
Steam Generator	X	X	X			X
Elect. Generator	D X	X	D			D X
Portable Lights	X	X	X			X
Blower Fan	X	X	X			X
Chain Saw		X	X			X
Absorbent Material				X		X
Oil Dispersants	N/A	N/A	N/A	N/A		N/A
Spark Arrestors						

D – Denotes Diesel Power

X – Denotes Other Power

N/A – Not available

MPL LIST OF AGREEMENTS

- o Simdev Construction
- o Sécurité et Protection Sec-Pro Inc.
- o Santinel Inc.
- o National
- o Fasken Martineau
- o S.I.M.E.C.
- o UDA Inc
- o R.S.R. Environment
- o Cargair Limitée
- o Tetrattech Inc.
- o Amnor Inc
- o St-Pierre Excavation Inc

APPENDIX D

EVACUATION PROCEDURES

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GENERAL EVACUATION PROCEDURES

All Locations

Decision to Evacuate

Decisions about whether or not to evacuate as well as evacuation distances are incident-specific and must be made at the time of an actual incident. The first evacuation consideration involves a comprehensive effort to identify and consider the nature of any circumstances surrounding the incident. For an oil spill incident, the factors that affect evacuation include the volume of the spill, the properties of the product spilled, rate of release, potential duration of release, dispersion pattern and the threat of injury or death posed by the spills.

Evacuation of the Facility

The need for evacuation of the facility would be determined by the Incident Commander and communicated to all employees, contractors, and other personnel in the facility, specifying the appropriate evacuation route and gathering location. Once the decision to evacuate is made, all personnel are required to exit the facility via the specified evacuation route, and check-in at the designated gathering location. Roll call will then be taken to ensure full facility evacuation. Areas immediately outside the gates would serve as regrouping areas from these routes. Ultimately, the selection of evacuation routes and shelters to be used is made by the individual in charge of the evacuation.

Emergency Response Personnel

Emergency Response Personnel will arrive and enter at the main gate, unless conditions preclude, in which case they will enter via any of the accessible gates located around the facility perimeter. Injured personnel will be taken to the nearest Hospital or Medical Facility as listed in the Local Emergency Services section of the plan.

Re-entry Procedures

When safe to do so, the Incident Commander, in cooperation with the representatives of the municipal fire department and local law enforcement, will give employees clearance to return to the site of the incident.

Neighborhood Evacuation

If the Incident Commander believes that part of the surrounding population should be evacuated, they will immediately call the local law enforcement for assistance (ex.: major leaks, fire, risk of explosion, etc.). Management shall cooperate with the local law enforcement in order to assess the extent of the evacuation required. They will also communicate the information relative to the emergency to Municipal Authorities.

Conducting an Evacuation

Should it be decided that an area is to be evacuated, the evacuation should be conducted in a well-coordinated, thorough, and safe manner. Evacuation involves a number of steps, which include assigning tasks to evacuation assistance personnel, informing potential evacuees, providing transportation as necessary, providing emergency medical care as necessary, providing security for evacuated areas and sheltering evacuees as necessary.

GENERAL EVACUATION PROCEDURES (Cont'd)

All Locations

Neighborhood Evacuation (cont'd)

Populations in a Hazardous Area

When considering people who are actually located within a hazardous area, the responsible authority should address whether to order people to remain indoors, rescue individuals from the area, or order a general evacuation. The “remain indoors” option should be considered when the hazards are too great to risk exposure of evacuees. It may be necessary to rescue people from the hazardous area supplying protective equipment for evacuees to ensure their safety. The third option is to order a general evacuation. In this case, people should evacuate by means of private transportation or transportation provided by local or state government, private company, or volunteer group.

Population in a Threatened Area

For an area that is only threatened by a release, the responsible authority should determine whether potential evacuees can be evacuated before hazards reach the area. To safely evacuate the area, a significant amount of lead time may be required. The potential hazards and their movement should be thoroughly considered to determine if a population is at high risk of exposure and requires evacuation.

Required Resources

To accomplish a safe and effective evacuation, appropriate and sufficient resources, including personnel, vehicles, and equipment, should be provided, which is typically done by the local law enforcement, municipal fire department or local emergency management agency.

The type of equipment that will be necessary during an evacuation may include:

- Protective gear for evacuation assistance personnel.
- Protective gear for evacuees, who may have to be taken through areas where exposure to a hazard is possible.
- Communication equipment (eg. portable and mobile radios, mobile public address systems, bull horns).
- Evacuate tags (a tag or marker attached to a door to indicate that the occupants have been notified) for buildings that have been evacuated.

Re-entry Procedures

When safe to do so, the municipal fire department and local law enforcement, in conjunction with the Incident Commander, will give residents clearance to return to the site of the incident/accident.

Hazards Imposed by Spilled Material

Refer to Section 3 Figure 3.4 and 3.5 and PMPL Hazardous Material MSDS Inventory for specific hazards imposed by spilled material.

COMMAND POSTS

Response team activities will be conducted at designated operational centers. These centers include the Emergency Operations Center (EOC), the Field Command Posts, and in some cases, an offsite Command Center for Public Relations activities.

Emergency Operations Center

The EOC will act as the default primary command post during an incident (See also Section 3.1). The purpose of the EOC is to:

- Facilitate the creation of a tightly structured chain of command.
- Provide the flow of information needed for informed decision-making and planning.
- Provide accurate and timely information to government agencies and the news media, as well as, centralized accounting and documentation procedures.

The EOC will be located at the Portland Pipe Line Corporation's main office in the upstairs conference room. The equipment to be accessible at the EOC includes:

- Telephone with multiple lines
- Fax machines
- Portable radios
- A situation map
- Personal computer capability
- Visual aid equipment
- Administrative services

Field Command Posts

The Field Command Post (FCP) will be established near the incident location, preferably at a pump station or terminal. The purpose of the FCP is to:

- Coordinate all activities which are directed toward the reduction of the immediate hazard
- Containment
- Recovery
- Clean-up operations

Equipment that will be accessible at the FCP includes:

- Telephone with multiple lines
- Fax machines
- Portable radios
- Desks equipped with office supplies
- Personal computers
- Secretarial support services

Each pump station and Pier 2 is designated as a Field Command Post. Each station is equipped with office supplies, communications, and support for a field command staff.

LOCATION SPECIFIC EVACUATION PROCEDURES

SOUTH PORTLAND MARINE TERMINAL AND TANK FARM

Evacuation Routes

The following areas were identified as potential areas of evacuation in the event of a worst case discharge:

- Tank Farm facility and surrounding area
- Pier 1 and 2 facilities and surrounding areas

Potential evacuation routes and regrouping areas for the tank farm are shown in the drainage diagram at the end of this appendix. The preferable routes of evacuation from the pier facilities are direct routes that exit the main security gates.

- Spill Flow Direction: Spills will typically follow the drainage courses in the tank farm to the oil water separator and retention pond. Evacuation routes should be chosen to minimize exposure to oil and potential hazards such as H₂S or hazardous atmospheres.
- Prevailing Winds: Are out of the SW in summer and variable at all times of the year. Wind socks have been installed on selected tanks to indicate direction and should be referenced in evaluating evacuation routes.

The local South Portland fire and police authorities and authorized officials would be in charge of selecting populations to be evacuated and evacuation routes. The City Manager has the authority to order an evacuation. Local authorities would be in charge of conducting the evacuation. The South Portland Hazardous Materials Response Plan should serve as the primary plan for the evacuation process.

Other agencies that would likely provide support during an evacuation operation are the Red Cross and emergency medical service agencies.

Alarm/Notification System

Fire alarm pull boxes are located on PMPL's South Portland facilities which when activated will summon the South Portland Fire Department. One is located to the southwest of the maintenance building next to the roadway, another is located on Pier 2 at the dock house; another is located outside the Guard House. Activation of the Pier 2 fire pump will also automatically activate the fire alarm system to the South Portland Fire Department through the Guard House fire alarm panel. The South Portland General Office has smoke and heat detectors which will sound an alarm in the building for evacuation. All fires should be reported to the controller who will contact the South Portland Fire Department and open the front gate for access for fire response equipment.

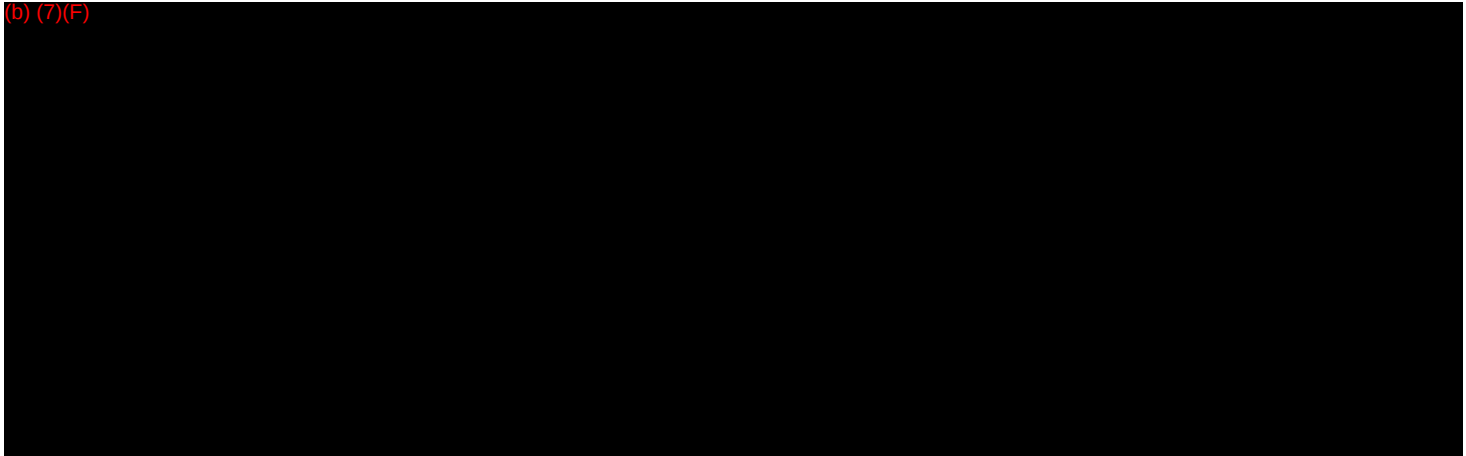
LOCATION SPECIFIC EVACUATION PROCEDURES

ALL MAINLINE PUMP STATIONS

In the event of an emergency situation at any mainline pump station, the following course of action would be taken to ensure the safety of all personnel at the Pump Station.

- ♦ Evacuation of People to Predetermined Assembly Points
An alarm would be given through a telephone call, verbally or by radio. All workers would be evacuated to the primary evacuation muster point as listed below or to the alternate site if the primary muster point is endangered. The Manager, Technician, or Chief in charge of the work will take a head count to ensure that everybody has left the hazardous area.
- ♦ Re-entry Procedure
When safe to do so, the Director of Operations or the Manager, Technician, or Chief in charge of the work, in consultation with the local Fire Department and/or Law Enforcement, will give employees clearance to return to the station.

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MONTREAL TERMINAL

When there is an emergency situation at the Montreal Terminal, the following course of action will be taken to ensure the safety of all personnel. More information on the location of evacuation points, assembly points and Emergency Operations Center, are provided on the Fire Control Plan drawings in the Montreal Pipe Line Emergency Response Maps.

Evacuation of People to Predetermined Assembly Points

- ♦ An alarm would be given through a telephone call, verbally or by radio;
- ♦ (b) (7)(F) 
- 
- ♦ The Operation Section Chief or their designate will take a head count to ensure that everybody has left the hazardous area and will inform the Incident Commander of any problems during the evacuation.

LOCATION SPECIFIC EVACUATION PROCEDURES

Access Points

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(b) (7)(F)

NORTH TANK FIELD

When there is an emergency situation at the North Tank Field, the following course of action will be taken to ensure the safety of all personnel. More information on the location of evacuation points, assembly points and Emergency Operations Center, are provided on the Fire Control Plan drawings in the Montreal Pipe Line Emergency Response Maps.

Evacuation of People to Predetermined Assembly Points

- ◆ An alarm would be given through a telephone call, verbally or by radio;

◆ (b) (7)(F)

- ◆ The Operation Unit Leader will take a head count to ensure that everybody has left the hazardous area and will inform the Deputy Incident Commander of any problems during the evacuation.

Access Points

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(b) (7)(F)

In this case, it would be necessary to cross commercial properties and, a wooded area, with the help of appropriate heavy equipment, to access the tank field.

EVACUATION DIAGRAMS

U.S. - The following drawings are attached for reference:

South Portland Tank Farm	Drawing D-4921
South Portland Marine Terminal	Drawing D-4922

Canada - The following fire control drawings can be found in Section 7.3 for reference:

Highwater Pump Station:	Drawing D-3835
St-Cesaire Pump Station	Drawing D-3834
Montreal East Terminal	Drawing D-3833
North Tank Field	Drawing D-4248

[REDACTED]

APPENDIX E

FOLLOW-UP INVESTIGATION

FOLLOW-UP INVESTIGATION

All emergencies covered under this plan shall be investigated to identify root causes and the appropriate corrective actions. During the investigation, precautions must be taken in order to prevent the loss of critical evidence, which may be of importance during the investigation. The site must be secured and nothing shall be moved from the site of the incident (e.g. pieces of broken equipment, etc.) until the incident is fully investigated, which may include review by PMPL insurance carriers as well.

Upon approval by the Incident Commander (or post incident, the respective Operations Manager), the site may be rehabilitated and the normal course of business may be re-established.

Subsequent to or as part of the investigation, the Company will review the Plan to evaluate and validate its effectiveness. Input on the effectiveness of the Plan will be sought from management, terminal personnel, the Spill Management Team, regulatory agencies, and others as deemed necessary. Based on the review, amendments to the Plan may be necessary.

It is the responsibility of the Operations Manager to oversee the review of the Plan and to make sure that all copies of the Plan are amended.

APPENDIX F

DISPOSAL PLAN

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WASTE MANAGEMENT

OVERVIEW

A major emergency, especially an oil spill response, may generate significant quantities of waste materials ranging from oily debris and sorbent materials to sanitary water and used batteries. All these wastes need to be classified and separated (i.e., oily, liquid, solid, hazardous material, etc.), transported from the site, and treated and/or disposed of at approved disposal sites. Transportation and disposal of waste may require permits and transportation manifests. Each of these activities demands that certain health and safety precautions be taken, which are strictly controlled by federal, state and provincial laws and regulations. This section provides an overview of the applicable regulations governing waste disposal, and a discussion of various waste classification, handling, transfer, storage, and disposal techniques. It is the responsibility of the Environmental Specialist to support field personnel in managing waste disposal needs during an oil spill cleanup.

WASTE CLASSIFICATION

Oily - Liquid Wastes

Oily liquid wastes (i.e., oily water and emulsions) that would be handled, stored, and disposed of during response operations are very similar to those handled during routine storage and transfer operations. During a spill incident, the largest volume of oily liquid wastes would be produced by recovery operations (e.g., through the use of vacuum devices or skimmers). In addition, oily water and emulsions would be generated by vehicle operations (e.g., spent motor oils, lubricants, etc.), and equipment cleaning operations. Recover the liquids and store in identified impermeable drums, containers or tanks (depending on the quantity). An analysis will be required to identify the most appropriate course of action.

Non-Oily - Liquid Wastes

Emergency Response operations could also produce considerable quantities of non-oily liquid wastes. Water and other non-oily liquid wastes would be generated by the storage area and stormwater collection systems, vessel and equipment cleaning (i.e., water contaminated with cleaning agents), and office and field operations (i.e., sewage, construction activities). These liquid wastes will also be stored in identified impermeable drums or tanks. An analysis will be required to identify the most appropriate course of action.

Oily - Solid/Semi-Solid Wastes

Oily solid/semi-solid wastes that would be generated by containment and recovery operations include damaged or worn-out booms, disposable/soiled equipment, used sorbent materials, saturated soils, contaminated beach sediments, driftwood, and other debris. These solid wastes will be stored in identified impermeable containment. An analysis will be required to identify the most appropriate course of action.

WASTE CLASSIFICATION (Cont'd)

Non-Oily - Solid/Semi-Solid Wastes

Non-oily solid/semi-solid wastes would be generated by emergency construction operations (e.g., scrap, wood, pipe, and wiring) and office and field operations (i.e., refuse). Vessel, vehicle, and aircraft operations also produce solid wastes. These would be handled using routine waste disposal methods and systems.

WASTE HANDLING

A primary concern in the handling of recovered oil and oily debris is contaminating unaffected areas or recontaminating already cleaned areas. Oily wastes generated during the response operations would need to be separated by type and transferred to temporary storage areas and/or transported to incineration or disposal sites. Proper handling of oil and oily wastes is imperative to ensure personnel health and safety.

Safety Considerations

Care should be taken to avoid or minimize direct contact with oily wastes. All personnel handling or coming into contact with oily wastes must wear protective clothing. A barrier cream can be applied prior to putting on gloves to further reduce the possibility of oily waste absorption. Safety goggles must be worn by personnel involved in waste handling activities where splashing might occur. Any portion of the skin exposed to oily waste will be washed with soap and water as soon as possible. Decontamination zones would be set up during response operations to ensure personnel are treated for oil exposure.

Decontamination of Personnel and Equipment

Removing contaminants from the response team personnel, their clothing, and from equipment is of major importance after an emergency response. Personnel responding to emergencies may become contaminated in a number of ways, including:

- ◆ Contacting vapors, gases, mists, or particulates in the air;
- ◆ Being splashed by materials while responding to the emergency;
- ◆ Walking through puddles of liquids or on contaminated soil;
- ◆ Using contaminated instruments or equipment.

Under the supervision of the Environmental Specialist, contaminated material such as disposable PPE will be sent to an authorized site for disposal. Reusable PPE and equipment will be decontaminated by contractors properly trained for such decontamination activities. For example, contaminated fire intervention equipment will be cleaned before storage. Cleaning fluids used for decontamination will be recovered by a vacuum truck and sent to an authorized site.

If fumes from the spilled product or from a fire containing toxic substances (e.g.: dioxins, furans, etc.), a specific decontamination protocol will be established by the Environmental Specialist. This protocol may include a medical monitoring program for the personnel. Analyses may also be required to demonstrate the efficiency of the decontamination techniques. Such proof could be required by governmental authorities (Quebec MDDELCC, Environment Canada, EPA, etc.).

WASTE HANDLING (cont'd)

Waste Transfer

During response operations, it may be necessary to transfer recovered oil and oily debris from one point to another several times before the oil and oily debris are ultimately recycled, incinerated or disposed of at an appropriate disposal site. Depending on the location of response operations, any or all of the following transfer operations may occur:

- From portable or vessel-mounted skimmers into flexible bladder tanks, storage tanks of the skimming vessel itself, or a barge.
- Directly into the storage tank of a vacuum device.
- From a skimming vessel or flexible bladder to a barge.
- From a vacuum device storage tank to a barge.
- From a barge to a tank truck.
- From a tank truck to a processing system (e.g., oil/water separator).
- From a processing system to a recovery system and/or incinerator.
- Directly into impermeable bags that, in turn, are placed in impermeable containers.
- From containers to trucks.

There are four general classes of transfer systems that may be employed to affect oily waste transfer operations:

- **Pumps:** Rotary pumps, such as centrifugal pumps, may be used when transferring large volumes of oil, but they may not be appropriate for pumping mixtures of oil and water. The extreme shearing action of centrifugal pumps tends to emulsify oil and water, thereby increasing the viscosity of the mixture and causing low, inefficient transfer rates. The resultant emulsion would also be more difficult to separate into oil and water fractions. Lobe or "positive displacement" pumps work well on heavy, viscous oils, and do not emulsify the oil/water mixture. Double-acting piston and double acting diaphragm pumps are reciprocating pumps that may also be used to pump oily wastes.
- **Vacuum Systems:** A vacuum truck may be used to transfer viscous oils but they usually pick up a very high water/oil ratio.
- **Belt/Screw Conveyors:** Conveyors may be used to transfer oily wastes containing a large amount of debris. These systems can transfer weathered debris laden oil either horizontally or vertically for short distances (i.e., 10 feet) but are bulky and difficult to set up and operate.
- **Wheeled Vehicles:** Wheeled vehicles may be used to transfer liquid wastes or oily debris to storage or disposal sites. These vehicles have a limited transfer volume (i.e., 100 barrels) and require good site access.

Figure F-1 provides a comparative evaluation of 16 types of transfer systems that could be available for transfer operations.

TEMPORARY WASTE STORAGE

Interim storage of recovered oil, oily and non-oily waste would be considered to be an available means of holding the wastes until a final management method is selected. In addition, the segregation of wastes according to type would facilitate the appropriate method of disposal.

The storage method used would depend upon:

- The type and volume of material to be stored.
- The duration of storage.
- Access.

During an oil spill incident, the volume of oil that can be recovered and dealt with effectively depends upon the available storage capacity. Typical short-term storage options are summarized in Figure F-2. The majority of these options can be used either onshore or offshore. If storage containers such as bags or drums are used, the container must be clearly marked to indicate the type of material/waste contained and/or the ultimate disposal option. Bladder or pillow tanks would be acceptable, if the available space can support the weight of both the container and the product. PMPL Crude Oil Storage Tanks may be used for storage of recovered crude oil.

Fuel barges may be the best option for temporary storage of oil recovered in open waters. Depending on size, these vessels may be able to hold up to 6,000 barrels of oil and water. The barge deck can be used as a platform for operating oil spill clean-up equipment and storing containment boom. See Appendix C for recovery and containment barges.

Empty barges have four to six feet draft which would increase when these barges are filled with oil or loaded with cargo. Consequently, they may not be able to enter shallow, nearshore waters. Barges operating in Portland Harbor could discharge recovered crude oil into shore side fractionation tanks at the Clean Harbors terminal in South Portland. Recovered oil could then be trucked back to PMPL for transportation to Montreal, transferred to the Williams terminal tanks operated by Clean Harbors with DEP authorization or trucked to incineration facilities as appropriate. It may be difficult to offload recovered oil stored inside barges. In Montreal, barges or bladders could be discharged at "Operations Sites" predetermined by ECRC. These include locations such as SIMEC's facility at Verchères, the Quai de Verchères at Verchères, the Port de plaisance at Contrecoeur, the Salle communautaire in Lavaltrie, and HydroQuebec in Tracy. Recovered liquids could be disposed of in one of PMPL's tanks if one is available and the solids would be disposed of by the ECRC in an approved disposal site as determined at the time with the MDDEP, ECRC and PMPL's contract environmental specialist. Due to natural forces which affect spilled oil, recovered oil may be very viscous or emulsified, rather than free-flowing. It may be necessary to use steam to heat viscous oil before pumping it from the barge.

Steel or rubber tanks can be used to store oil recovered near the shoreline. To facilitate offloading, demulsifiers may be used to break emulsions prior to placing the recovered substance into the barges or storage tanks.

Use of any site for storage is dependent on the approval of the local authorities. The following elements affect the choice of a potential storage site:

- Geology.
- Ground water.
- Soil.
- Flooding.
- Surface water.
- Slope.

TEMPORARY WASTE STORAGE (Cont'd)

- Covered material.
- Capacity.
- Climatic factors.
- Land use.
- Toxic air emissions.
- Security.
- Regulations.
- Access.
- Public contact.

Temporary storage sites should use the best achievable technology to protect the environment (soil, surface and groundwater, etc.) and human health. They should be set up to prevent leakage, contact, and subsequent absorption of oil by the soil. The sites should be bermed (1 to 1.5 meters high) and double lined with plastic or visqueen sheets 6-10 millimeters or greater in thickness, without joints, prior to receiving loose and bagged debris. The edges of the sheet should be weighted with stones or earth to prevent damage by wind, and the sheet should be placed on a sand layer or an underfelt thick enough to prevent piercing. A reinforced access area for vehicles at the edge of the site should be provided. In addition, if oily debris is stored, it should be covered by secured visqueen or tarps and an adequate stormwater runoff collection system for the size and location of the site would be utilized. Additionally, the sites should be at least 3 meters above mean sea level.

Oily debris can be hauled to approved temporary storage sites in visqueen lined trucks or other vehicles. Burnable, non-burnable, treatable and re-usable materials can be placed in well defined separate areas at temporary storage sites.

Contaminated equipment and materials, PPE, decontamination solutions, adsorbents and spent chemicals will be removed and disposed of by the response contractor using the above criteria as guidance. Contaminated equipment will typically be cleaned on site and the cleaning materials bagged and taken to an incinerator. Adsorbents and contaminated PPE will be incinerated. Spent chemicals from decontamination stations and cleaning will be recovered and recycled when possible or incinerated if necessary. All steps necessary will be taken to avoid or minimize the amount of materials taken to a landfill. Facilities and response resources for these activities are listed in Figure 2.14 & 2.15 as Additional Response Resources.

When the last of the oily debris leaves a temporary storage site, the ground protection would be removed and disposed of with the rest of the oily debris. Any surrounding soil which has become contaminated with oil would also be removed for disposal or treatment. If the soils were removed for treatment, they may be replaced if testing proves acceptable levels have been achieved. Treatment and remediation is encouraged when feasible. **The temporary storage area should be returned to its original condition.**

It is the responsibility of the Environment Specialist to identify the acceptable disposal methods and sites approved to receive the different types of wastes produced during the emergency and to consult with federal, state or provincial authorities as needed.

WASTE DISPOSAL

Techniques for Disposal of Recovered Oil

Recovery, reuse, and recycling are the best choices for remediation of a spill, thereby reducing the amount of oily debris to be bermed onsite or disposed of at a solid waste landfill.

Incineration and burning for energy recovery are preferred when available within a reasonable geographical distance, with treatment the next best alternative. There are some limitations and considerations in incinerating for disposal. Environmental quality of incineration varies with the type and age of the facility. Therefore, when incineration becomes an option during an event, local air quality authorities would be contacted for advice about efficiency and emissions of facilities within their authority. Approval of the local air authorities is a requirement for any incineration option. Landfilling is the last option.

During an oil spill incident, PMPL would consult with the federal, state and provincial representatives to identify the acceptable disposal methods and sites appropriately authorized to receive such wastes. PMPL maintains a list of approved disposal sites that satisfy local, state, provincial and federal regulations and PMPL requirements. This identification of suitable waste treatment and disposal sites would be prepared by PMPL in the form of an Incident Disposal Plan. In the US, this plan must be authorized by the U.S. Coast Guard and/or the EPA. In Canada, approval is by the Quebec MDDEP. An Incident Disposal Plan would include predesignated interim storage sites, segregation strategies, methods of treatment and disposal for various types of debris, and the locations/contacts of all treatment and disposal site selections. Onsite treatment/disposal will be preferred.

In order to obtain the best overall Incident Disposal Plan, a combination of methods should be used. There is no template or combination of methods that can be used in every spill situation. Each incident should be reviewed carefully to ensure an appropriate combination of disposal methods is employed.

The different types of wastes generated during response operations would require different disposal methods. To facilitate the disposal of wastes, they should be separated by type for temporary storage, transport and disposal. Figure F-3 lists some of the options that would be available to segregate oily wastes. The table also depicts methods that may be employed to separate free and/or emulsified water from the oily liquid waste.

Recovered oil will be returned to the facility and moved to refineries for processing as suitable. Alternatively, debris laden recovered oil may be incinerated. Contaminated soils will be recycled through commercial paving companies or otherwise properly disposed.

The following is a brief discussion of some disposal techniques available for recovered oil and oily debris.

Recycling

This technique entails removing water from the oil and blending the oil with uncontaminated oil. Recovered oil can be shipped to refineries provided that it is accepted by the refinery and exempt from hazardous waste regulations. There it can be treated to remove water and debris, and then blended and sold as a commercial product.

WASTE DISPOSAL (Cont'd)

Oiled soils are potential candidates for recycling with commercial paving companies that are able to properly recycle and process the material (see Figures 2.14 & 2.15). Please note that this is not permitted in Quebec.

PMPL's **Environmental Specialist** is responsible for ensuring that all waste materials be properly disposed of or recycled at a PMPL approved disposal site or recycling facility.

Incineration

This technique entails the complete destruction of the recovered oil by high temperature thermal oxidation reactions. There are licensed incineration facilities as well as portable incinerators that may be brought to a spill site. Incineration may require the approval of the local Air Pollution Control Authority. Factors to consider when selecting an appropriate site for onsite incineration would include:

- Proximity to recovery locations.
- Access to recovery locations.
- Adequate fire control.
- Approval of the local air pollution control authorities.

In Situ Burning/Open Burning

Burning techniques entail igniting oil or oiled debris and allowing it to burn under ambient conditions. These disposal techniques are subject to restrictions and permit requirements established by federal, state, provincial and local laws. They would not be used to burn PCBs, waste oil containing more than 1,000 parts per million of halogenated solvents, or other substances regulated by the EPA. Permission for *in situ* burning may be difficult to obtain when the burn takes place near populated areas.

As a general rule, *in situ* burning would be appropriate only when atmospheric conditions will allow the smoke to rise several hundred feet and rapidly dissipate. Smoke from burning oil will normally rise until its temperature drops to equal the ambient temperature. Afterwards, it will travel in a horizontal direction under the influence of prevailing winds.

Landfill Disposal

This technique entails burying the recovered oil in an approved landfill in accordance with regulatory procedures. Landfill disposal of free liquids is prohibited by federal law in the United States.

With local health department approval, non-burnable debris which consists of oiled plastics, gravel and oiled seaweed, kelp, and other organic material may be transported to a licensed, lined, approved municipal or private landfill and disposed of in accordance with the landfill guidelines and regulations. Landfill designation would be planned only for those wastes that have been found to be unacceptable by each of the other disposal options (e.g., waste reduction, recycling, energy recovery). Wastes would be disposed of only at PMPL and state/provincially approved disposal facilities. PMPL is responsible for ensuring that all waste materials are disposed of at a previously approved PMPL and MEDEP disposal site. Disposal at a facility not previously approved would require approval by PMPL senior management prior to sending any waste to such a facility.

Figure F-1
COMPARATIVE EVALUATION OF OIL SPILL TRANSFER SYSTEMS

CHARACTERISTICS OF TRANSFER SYSTEMS	CENTRIFUGAL PUMP	LOBE PUMP	GEAR PUMP	INTERMESHING SCREW	VALVE PUMP	FLEXIBLE IMPELLER	SCREW/AUGER PUMP	PROGRESSING CAVITY	PISTON PUMP	DIAPHRAGM PUMP	AIR CONVEYOR	VACUUM TRUCK	PORTABLE VACUUM PUMP	CONVEYOR BELT	SCREW CONVEYOR	WHEELED VEHICLES
High Viscosity Fluids	1	5	5	5	3	2	5	5	5	3	5	4	4	5	4	5
Low Viscosity Fluids	5	2	2	2	3	4	1	3	3	4	5	5	5	1	1	5
Transfer Rate	5	2	1	1	3	4	1	2	2	3	4	5	3	2	2	2
Debris Tolerance																
° Silt/Sand	5	3	1	1	1	4	5	5	3	4	5	5	5	5	5	5
° Gravel/Particulate	5	2	1	1	1	2	5	3	2	3	5	5	4	5	4	5
° Seaweed/Stringy Matter	2	3	4	3	2	2	4	4	3	3	4	4	3	5	4	5
Tendency to Emulsify Fluids	1	4	3	3	3	3	5	5	2	5	5	5	5	5	5	5
Ability to Run Dry	5	3	2	1	2	3	4	3	3	2	5	5	5	4	3	
Ability to Operate Continuously	5	3	2	2	2	3	3	3	4	4	3	3	3	3	2	4
Self Priming	1	3	2	2	2	5	1	5	4	4	5	5	5	5	5	
Suction/Head	2	3	2	2	3	4	1	5	5	2	5	4	3			
Back Pressure/Head	1	5	5	5	4	3	4	5	2	4	1	1	1	3	3	
Portability	5	3	3	2	4	4	3	2					2	1	1	
Ease of Repair	5	3	2	2	3	4	3	2	3	5	1	1	2	3	2	3
Cost	5	3	2	2	3	3	1	2	3	5	1	1	2	2	2	3
Comments	E,J	B	B	B,J		F	A	B	B,D	A,C,D	F,G,I	F,G,I	F,G			G,H,I

KEY TO RATINGS:

KEY TO COMMENTS:

5 = Best; 1 = Worst

- A. Normally require remote power sources, thus are safe around flammable fluids.
- B. Should have a relief valve in the outlet line to prevent bursting hoses.
- C. Air powered units tend to freeze up in sub-freezing temperatures.
- D. Units with work ball valves are difficult to prime.
- E. Some remotely powered types are designed to fit in a tanker's butterworth hatch.
- F. Can also pump air at low pressure.
- G. Transfer is batch-wise rather than continuous.
- H. Waste must be in separate container for efficient transfer.
- I. Transportable with its own prime mover.
- J. High shear action tends to emulsify oil and water mixtures.

Figure F-2

TEMPORARY STORAGE METHODS

CONTAINER	ONSHORE	OFFSHORE	SOLIDS	LIQUIDS	NOTES
Barrels	x	x	x	x	May require handling devices. Covered and clearly marked.
Tank Trucks	x	x		x	Consider road access. Barge-mounted offshore.
Dump/Flat Bed Trucks	x		x		May require impermeable liner and cover. Consider flammability of vapors at mufflers.
Barges		x	x	x	Liquids only in tanks. Consider venting of tanks.
Oil Storage Tanks	x	x		x	Consider problems of large volumes of water in oil.
Bladders	x	x		x	May require special hoses or pumps for oil transfer.

Figure F-3

OILY WASTE SEPARATION AND DISPOSAL METHODS

TYPE OF MATERIAL	SEPARATION METHODS	DISPOSAL METHODS
LIQUIDS		
Non-emulsified oils	Gravity separation of free water	Incineration Use of recovered oil as refinery/production facility feedstock*
Emulsified oils	Emulsion broken to release water by: ● heat treatment ● emulsion breaking chemicals ● mixing with sand ● centrifuge ● filter/belt press	Use of recovered oil as refinery/production facility feedstock*
SOLIDS		
Oil mixed with soil	Collection of liquid oil leaching from soil during temporary storage Extraction of oil from soil by washing with water or solvent Removal of solid oils by sieving Recycling	Incineration Use of recovered oil as refinery/production facility feedstock* Direct disposal Stabilization with inorganic material Degradation through land farming or composting Incorporation of treated oiled sand in road base material
TYPE OF MATERIAL	SEPARATION METHODS	DISPOSAL METHODS
Oil mixed with cobbles or pebbles	Screening Collection of liquid oil leaching from materials during temporary storage Extraction of oil from materials by washing with water or solvent Recycling	Incineration Direct Disposal Use of recovered oil as refinery/production facility feedstock* Incorporation of treated oiled sand in road base material
Oil mixed with wood, seaweed and sorbents	Screening Collection of liquid oil leaching from debris during temporary storage Flushing of oil from debris with water	Incineration Direct disposal Degradation through land farming or composting for oil mixed with seaweed or natural sorbents
Tar balls	Separation from sand by sieving	Incineration Direct disposal

* Requires acceptance by refinery.

US –STATE REGULATORY REQUIREMENTS

State environmental personnel will respond when notified of an oil spill and will be available to provide guidance on proper treatment, storage, and disposal of oil and oil-contaminated debris.

A waste material that is discarded, recycled or reclaimed and that exhibits one or more of the four characteristics shown below is classified as “Hazardous Waste” or “Universal Waste” under federal law or by each of the three states in which PMPL operates.

- Ignitable: The material has a flash point of less than 140°F and/or is an oxidizer.
- Corrosive: An aqueous material that has a pH of less than 2.0 (acid) or greater than 12.5 (base).
- Reactive: A material that is reactive to water, shock, heat, pressure or undergoes rapid or violent chemical reaction.
- Toxic: This category includes materials that meet or exceed specified levels of heavy metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver), certain volatile organic chemicals (including benzene), and certain pesticides.

In addition, waste materials that are “listed” in the each state’s hazardous waste management regulations, are also classified as “Hazardous Waste”.

Some products and materials that can become hazardous or universal wastes during an oil spill are:

- Discarded products (i.e., batteries).
- Products used as solvents or cleaning compounds.
- Spent lubricating oils.
- Spent hydraulic oils.
- Products that are damaged in shipment.

Although crude oil is typically not a hazardous or universal waste, sampling and testing of waste products during an oil spill is recommended to best determine the disposal method appropriate at different times throughout the incident. If the waste is designated as a hazardous waste, it must be disposed of in accordance with the state’s hazardous waste management regulations as discussed more specifically below. Disposal of all non-hazardous or universal wastes generated by response to an oil spill is also regulated in each of the states as discussed more specifically below.

Maine

According to the Maine Department of Environmental Protection (DEP), recovered oil and oily debris is not considered a hazardous waste. Oily debris includes sorbents, seaweed, carcasses, and other materials contaminated with oil as a result of a marine oil spill.

Under Chapter 405.6 of the DEP’s regulations, oily debris can be landfilled, or incinerated and the resultant ash landfilled. The disposal of animal carcasses is the responsibility of the Maine Department of Inland Fisheries and Wildlife in conjunction with the U.S. Fish and Wildlife Service. All carcasses not required by

US –STATE REGULATORY REQUIREMENTS (cont'd)

the Maine Warden Service, U.S. Fish and Wildlife Service Special Agent, or National Marine Fisheries Service Agent will be landfilled, or incinerated and the resultant ash landfilled. The DEP has a contract with the Mid-Maine Waste Action Committee in Auburn for disposal of combustible oily debris.

Waste oil is typically disposed of by burning in a waste oil burner. The requirements of Chapter 860 of the DEP's regulations must be met for storage and transportation of waste oil by a waste oil dealer. PMPL will work closely with the DEP regarding storage and disposal options and procedures. Currently, the DEP does not require hazardous waste testing of recovered waste oil. The testing of other waste streams may be necessary. Figure 2.5 in the Notification Section provides a list of approved testing laboratories.

New Hampshire

The New Hampshire Department of Environmental Services (DES), specifies procedures for clean-up, management and investigation of soil contaminated by petroleum releases in Chapter Env-Or 600 of the New Hampshire Code of Administrative Rules. Under these rules, contaminated soils may fall into several categories including "non-hazardous oil-contaminated soil" or "non-hazardous contaminated soil." Different certification, management, and disposal requirements apply to each category of soils. PMPL will work closely with the DES regarding soil disposal procedures. Testing may be required. Figure 2.5 provides a list of approved testing laboratories.

DES regulates the collection, storage, testing, transfer, and disposal of other oily waste (including absorbents, certain oils and petroleum products but not including the soils discussed immediately above) in Chapter Env-Sw 900 of the New Hampshire Code of Administrative Rules. Disposal of oily animal carcasses is also regulated by DES. PMPL will work closely with DES regarding these wastes. Testing may be required. Figure 2.5 in the Notification Section provides a list of approved testing laboratories.

Vermont

According to the Vermont Department of Environmental Conservation (DEC), oily debris includes sorbents, sludge or grit, and contaminated soil. Carcasses are not included within the definition of oily debris and must be handled in accord with Vermont's Solid Waste Management Rule. Recovered oil and oily debris is not considered a hazardous waste *unless the wastes contain more than 5% by weight petroleum distillates*. Oily debris that is hazardous waste must be identified and shipped using waste code VT02. Certain clean-up materials containing oil may be wrung out, cleaned, and/or stored in accord with Section 7-203 of Vermont's Hazardous Waste Management Rules. Testing of these waste streams may be necessary. Figure 2.5 in the Notification Section provides a list of approved testing laboratories.

Oil that is a free liquid and that is generated as part of a clean-up may be managed as used oil. Used oil is typically disposed of by burning for energy recovery. PMPL will store and transport used oil in accord with the requirements of Subchapter 8 of the Vermont Hazardous Waste Management Rules. PMPL will work closely with the DEC regarding disposal procedures. Currently, the DEC does not require hazardous waste testing of recovered used oil.

CANADA – PROVINCIAL REGULATORY REQUIREMENTS

Federal (Environment Canada) and Quebec (MELCC) environmental personnel will respond when notified of an oil spill. MELCC will provide guidance on proper treatment, storage, and disposal of oil and oil-contaminated debris under the Quebec Environment Quality Act unless there is PCB's. In this last case, Environment Canada environmental personnel would get involved to indicate how the disposal should be handled for this specific situation under the Canada PCB Regulations.

Quebec

The MELCC (Ministère de l'Environnement et de la Lutte contre les changements climatiques), specifies with the Residual Materials Policy the procedures for the management, the investigation and the disposal of soil contaminated by petroleum releases. The Residual Materials Policy includes the laws, regulations, guides, guidelines and directives regarding these materials. "Residual material" is a generic term covering several major families of waste, including hazardous and non-hazardous material, biomedical waste, pesticides, fertilizing residual material and used snow.

By definition, a hazardous material is any substance which, by reason of its properties, poses a threat to health or the environment and which, within the meaning of this law and attendant regulations, is explosive, gaseous, flammable, toxic, radioactive, corrosive, combustive or leachable, or any material or object that is deemed to be a hazardous material. They are so called because they must be managed in a special way in order to prevent accidents or environmental contamination that could lead to the degradation of soil, water or air and affect flora, fauna and humans to varying degrees.

Non-hazardous material are residues such as tires, computers, paint, oil, paper, card board, glass, leaves, building debris, metals, plastic, industrial residues, etc. Different requirements must be taken into consideration for the management and the recycling of these materials.

PMPL will work closely with the MELCC regarding the management, the investigation and the disposal of these residual materials.

APPENDIX G

WORST CASE DISCHARGE ANALYSIS AND SCENARIOS

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INTRODUCTION

This appendix identifies potential causes for oil discharges and discusses the response efforts that are necessary for successful mitigation. Included in this appendix are hypothetical scenarios for various types of spills that have the potential to occur along the system. It is anticipated that PMPL will respond to spills in a consistent manner regardless of the location. Therefore, the guidelines discussed in this appendix will apply to all spills whenever possible.

US DISCHARGE VOLUME CALCULATIONS

The Portland Marine Terminal is classified as a "Complex Facility" which operates in a non-higher volume port area.

"Complex" means a facility possessing a combination of transportation-related and non-transportation-related components that is subject to the jurisdiction of more than one Federal agency under section 311(j) of the Clean Water Act (CWA).

Complexes must perform discharge calculations for each jurisdictional agency and plan for the largest Worst Case Discharge Volume pursuant to the respective regulations. The USCG, EPA, and the DOT-PHMSA discharge volume calculations are described below. The calculations and descriptions are as follows:

USCG Discharge Volume Calculation

- **Worst Case Discharge (WCD)**
Discharge from all piping carrying oil between the marine transfer manifold and the non-transportation-related portion of the Facility. The discharge from each pipe is calculated as follows:

$$\{[Maximum\ Discovery\ Time\ (hrs) + Maximum\ Shutdown\ Time\ (hrs.)] * Maximum\ Flow\ Rate\ (Bbls/Hr)\} + Total\ Line\ Fill\ (Bbls) = WCD\ (Bbls)$$
- **Maximum Most Probable Discharge (MMPD)**
1,200 Bbls or 10% of the WCD, whichever is less
- **Average Most Probable Discharge (AMPD)**
50 Bbls or 1% of the WCD, whichever is less

EPA Discharge Volume Calculation

- **Worst Case Discharge**
100% of the largest single tank plus the volume of all tanks without adequate secondary containment.
- **Medium Discharge**
Discharge greater than 2,100 gallons (50 Bbls) and less than or equal to 36,000 gallons (857 Bbls) or 10% of the capacity of the largest tank, whichever is less and not to exceed the WCD.
- **Small Discharge**
Discharge of less than or equal to 2,100 gallons (50 Bbls), not to exceed the WCD.

US DISCHARGE VOLUME CALCULATIONS (Cont'd)

DOT-PHMSA Discharge Volume Calculation

- **Worst Case Discharge**
The largest volume (Bbls) of the following:
 - *Pipeline's maximum release time (hrs), plus the maximum shutdown response time (hrs), multiplied by the maximum flow rate (Bbls/hr.), plus the largest line drainage volume after shutdown of the line section.*

-- OR --
 - *Largest foreseeable discharge for the line section is based on the maximum historic discharge, if one exists, adjusted for any subsequent corrective action or preventive action taken.*

-- OR --
 - *Capacity of the single largest breakout tank or battery of tanks within a single secondary containment system, adjusted for the capacity or size of the secondary containment system. (Note: PMPL pipeline system does not contain breakout tanks)*

The following planning volume calculations must be performed to determine the required response resources for a Worst Case Discharge:

Planning Volume for On-Shore Recovery (OSR)

$$\text{OSR} = \text{WCD} * \% \text{ Oil On Shore} * \text{Emulsification Factor}$$

Planning Volume for On-Water Recovery (OWR)

$$\text{OWR} = \text{WCD} * \% \text{ Recovered Floating Oil} * \text{Emulsification Factor}$$

Recovery Capacity (RC)

$$\text{RC} = \text{OWR} * \text{On-Water Recovery Resource Mobilization Factors}$$

The recovery capacity determined by these equations is compared to the appropriate response capability caps from the EPA tables; the actual contracted response amount is the lesser of the two values. If the calculated capacity exceeds the capability caps, sufficient response resources should be available for twice the amount of the caps or up to the total planning volume, whichever is less.

US DISCHARGE VOLUME CALCULATIONS (Cont'd)

Scenario Types

The occurrence of a Small, Medium, or Worst Case Discharge could be the result of any number of scenarios at the Facility including (Maintenance activities are pre-planned and attended during work, therefore are not considered to be the cause of the discharge scenarios.):

- Tank overfill and/or failure.
- Piping rupture.
- Piping leak, under pressure and not under pressure.
- Explosion or fire.
- Equipment failure (e.g. pumping system failure, relief valve failure, or other general equipment relevant to operational activities associated with internal or external facility transfers).

The response actions to each of these scenarios are outlined in Section 3.1 and Figures 3.1-3.16. The response resources are identified in Section 5.1 with additional detail on equipment and manpower provided in Appendix C. Facility response personnel list/telephone numbers and other internal/external resources telephone numbers are detailed in Figures 2.2 – 2.15.

EPA TABLES FOR WORST CASE DISCHARGE RESPONSE RESOURCES DETERMINATION AND REMOVAL CAPACITY PLANNING

Spill Location	(1) Rivers & Canals			(2) Nearshore/Inland/Great Lakes		
	3 Days			4 Days		
Sustainability of on-water oil recovery		D	E		D	E
Oil Group	% Natural Dissipation	% Recovered Floating Oil	% Oil On Shore	% Natural Dissipation	% Recovered Floating Oil	% Oil On Shore
I. Non-persistent oils	80	10	10	80	20	10
II. Light crudes	40	15	45	50	50	30
III. Medium crudes and fuels	20	15	65	30	50	50
IV. Heavy crudes and fuels	5	20	75	10	50	70

EMULSION FACTORS

F	
<u>NON-PERSISTENT OIL</u>	
Group I	1.0
<u>PERSISTENT OIL</u>	
Group II	1.8
Group III	2.0
Group IV	1.4
Group V	1.0

RESPONSE CAPABILITY CAPS (bbls/day) (Maximum Required Recovery levels)

AREA	TIER 1	TIER 2	TIER 3
Rivers and Canals	1,875	3,750	7,500
Great Lakes	6,250	12,300	25,000
Inland/Nearshore	12,500	25,000	50,000

ON-WATER OIL RECOVERY RESOURCE MOBILIZATION FACTORS

AREA	TIER 1	TIER 2	TIER 3
River	.30	.40	.60
Inland/Nearshore Great Lakes	.15	.25	.40

NOTE: These mobilization factors are for total resources mobilized, not incremental response resources.

RESPONSE TIME (hours)

AREA	TIER 1	TIER 2	TIER 3
Higher volume port area	6	30	54
All Other	12	36	60

US RESPONSE CAPABILITY SCENARIOS

Small/Average Most Probable Discharge = 50 Bbls

Response Requirement

The Facility must identify sufficient resources, by contract or other approved means, to respond to a small discharge. The response resources must include at a minimum:

- 1,000' of containment boom or twice the length of the largest vessel that regularly conducts oil transfers to or from the Facility, whichever is greater, and the means of deploying and anchoring the boom at the Facility within one (1) hour of the detection of a spill.
- Oil recovery devices with an effective daily recovery capacity equal to the amount of oil discharged in a *Small /Average Most Probable Discharge* or greater which is available at the Facility within two (2) hours of the detection of an oil discharge.
- Oil storage capacity for recovered oily material equivalent to twice the effective daily recovery rate.

Facility Response Resources/Capability

The Facility will respond to a **Small Discharge/Average Most Probable Discharge** with the manpower detailed in Figures 2.2-2.7 as well as local contract resources as detailed in Figure 2.14, Section 5.1, Figures 4.2 & 4.3 and Appendix C.

- Small discharges could occur from little used or idle piping.
- A 50 Bbl discharge from Facility piping typically will not escape the Facility.
- Direction of flow would be consistent with the drainage diagrams in the SPCC plan.
- Scenario weather conditions – heavy rainfall.
- The spill would typically be retained inside a tank dike or on land, immediately adjacent to the piping location.
- If a 50 Bbl discharge escaped the Facility or occurred as the result of a marine transfer operation, response operations would be implemented immediately upon discovery.
- Spills of this nature would not create a chain reaction of other failures.
- Oil containment and recovery devices can be secured from contract resources (with a minimum effective daily recovery capacity of 50 Bbls) and can be implemented at the Facility, as the situation demands.
- A minimum of 100 Bbls of oil storage capacity for recovered oily material can be secured from contractor resources or made available within the Facility's storage facilities, as the situation demands.
- Additional recovery and storage equipment may be secured from other Company and contract resources, as the situation demands.

US RESPONSE CAPABILITY SCENARIOS (Cont'd)

Small/Average Most Probable Discharge = 50 Bbls

- Disposal of recoverable oil would be done per the disposal plan.

Notes:

- Equipment and manpower resources are detailed in Sections 4.0, 5.0, Figures 4.2 & 4.3, and Appendix C.
- Telephone references are provided in Figures 2.2-2.14.

Medium/Maximum Most Probable Discharge (b) (7)(F)

Response Requirement

The Facility shall identify sufficient response resources, by contract or other approved means, to respond to a Medium/Maximum Most Probable Discharge. The response resources shall, as appropriate, include:

- Oil recovery devices with an effective daily recovery capacity equal to 50% of the *Medium/Maximum Most Probable Discharge* volume must be capable of arriving on scene within 12 hours.
- Sufficient quantity of containment boom must arrive within 12 hours for oil collection and containment and for protection of fish and wildlife and sensitive environments, as appropriate.
- Temporary storage capacity equal to twice the daily recovery capacity must be available.

Facility Response Resources/Capability

The Facility will initially respond to a **Medium/Maximum Most Probable Discharge** with a similar response to the Small Discharge. Additional response resources will be activated from an Oil Spill Removal Organization(s) (OSRO) as detailed in Figures 2.14, Section 5.1, Figure 4.3 and Appendix C and will arrive within 12 hours.

- Medium discharges could occur from Third Party damage.
- (b) (7)(F)
- Scenario weather conditions – heavy rainfall.
- Direction of flow would be consistent with the drainage diagrams in the SPCC plan.
- At the South Portland Tank Farm, oil will be retained on premises and not reach water, fish, wildlife or sensitive environments. At the terminal area and shore tanks, there is a low probability the oil could reach the Fore River.
- These types of spills are typically singular in nature and not subject to chain reactions or failure due to the nature of the cause of the leak.

US RESPONSE CAPABILITY SCENARIOS, Cont'd

Medium/Maximum Most Probable Discharge = (b) (7)(F)

- Oil recovery devices with an effective daily recovery capacity of (b) (7)(F) (50% of the Medium/Maximum Most Probable Discharge volume) secured from the OSRO(s) will be on scene within 12 hours.
- (b) (7)(F) of oil storage capacity for recovered oily material will be secured from the OSRO(s) and/or made available within the Facility's storage facilities.
- Containment boom for oil collection and containment and for protection of fish and wildlife and sensitive areas will be secured from the OSRO(s) in the event that the spill escapes the boundaries of the Facility and impacts the storm water drainage channels, Anthoine Creek, Fore River or Casco Bay.
- Disposal of recoverable oil would be done per the disposal plan.

Notes:

- Equipment and manpower resources are detailed in Sections 4.0, 5.0, Figures 4.2 & 4.3, and Appendix C.
- Telephone references are provided in Figures 2.2-2.14.

US RESPONSE CAPABILITY SCENARIOS (Cont'd)

Worst Case Discharge (b) (7)(F)

A worst case discharge at this Facility is considered to be discharge that does not exceed (b) (7)(F).

Description

This size discharge would most likely occur due to a natural disaster or catastrophic event. Examples may include, but not be limited to:

- Tank and associated pipeline fire
- Catastrophic tank shell failure
- Tornado-induced spills
- Pipeline manifold rupture

The types of material that could be discharged is crude oil.

This spill type is one that would result in a chain reaction and shut down of systems. There is low probability it would result in failures of other equipment.

Potential Causes

- (b) (7)(F)

Prevention

For a worst case discharge caused by a natural disaster, preparedness is more appropriate than prevention. Company employees receive training periodically on the proper procedures to deal with a natural disaster. Employees are also trained in steps to follow if any of the facilities must be evacuated (due to a tank fire or other emergency).

In addition, preventative maintenance of tanks and the associated pipeline are performed at regularly scheduled intervals (to ensure that any weaknesses are discovered). Note that tanks can be expected, due to their shape and due to product weight, to fare very well during severe weather. The pipeline mainline is primarily underground, excepting short piping runs within the pump stations. Line inspections include surface conditions on or adjacent to the pipeline and the adequacy of the cathodic protection.

US RESPONSE CAPABILITY SCENARIOS, (cont'd)

Worst Case Discharge = (b) (7)(F)

Worst Case Discharge and Adverse Weather

Calculation of response equipment needs for a worst case discharge are given later in this Appendix. These calculations take into account adverse weather. Severe rain events and associated flooding would also increase the chances of an oil spill from leaving the property.

Nevertheless, boom could be deployed as an initial measure to reduce the potential for any off-site drainage from a spill that may unfortunately occur concurrently with a severe rain event, associated flooding, or a hurricane.

Direction of Flow:

Oil from the Tank Farm that reaches the Fore River would be subject to outgoing river current offset periodically by incoming tides per the tidal cycle. Oil reaching the Fore River via Anthoine Creek would likely pool in the mud flats immediately adjacent to Broadway and migrate to the river with the current pull. When it reaches the river itself, it may move upriver if there is an incoming tide. Oil reaching the Fore River from the shore tanks will be more immediately affected by river current and tides, migrating down current toward Pier 2. In both cases, protective booming strategies as outlined in the PPLC Spill Response Field Document and the Geographic Response Plans developed by the Area Committee should be referenced and evaluated for applicability based on conditions.

US RESPONSE CAPABILITY SCENARIOS (Cont'd)

Worst Case Discharge ^{(b) (7)(F)}

Response Requirement

The Facility shall identify sufficient response resources, by contract or other approved means, to respond to a worst case discharge to the maximum extent practicable. The response resources shall, as appropriate, include:

- All resources shall be capable of arriving at the Facility within the applicable response tier requirements [Tier 1 = 6 hours; Tier 2 = 30 hours; Tier 3 = 56 hours (EPA/USCG); Tier 1 = 12 hours; Tier 2 = 36 hours; Tier 3 = 60 hours (DOT)].
- Oil recovery devices with an effective daily recovery capacity equal to the lesser of 50% of the WCD or the response caps. If the daily recovery rate exceeds the applicable contracting caps (see EPA Tables) then the Facility must identify additional resources equal to twice the cap or the amount necessary to reach the calculated planning volume.
- Temporary storage capacity equal to twice the daily recovery capacity.
- At least 20% of the on-water response equipment should be capable of operating in water of 6 feet or less depth.
- Containment boom for oil collection and containment and for protection of areas of environmental sensitivity or economic importance.
- Identify resources capable of responding to a shoreline clean-up operation involving the calculated volume of oil and emulsified oil that might impact the affected shoreline.

Facility Response Resources/Capability

The Facility will respond to a **Worst Case Discharge (WCD)** initially with a similar response as identified for a Small/Average Most Probable or Medium/Maximum Most Probable Discharge. Additional OSRO(s) will be activated as the situation demands. The response resources will be capable of arriving within the required response tiers and will include:

- Oil recovery devices with an effective daily recovery capacity equal to the lesser of 50% of the WCD or the response caps will be secured from the OSRO(s) and other Company resources. Any amount in excess of the required caps will be contracted for and responded to as part of the same response effort.
- Temporary storage capacity equal to twice the daily recovery capacity will be secured from OSRO(s), other Company resources, or made available within the Facility's storage facilities.
- At least 20% of the on-water response equipment secured from the OSRO(s) and other Company resources will be capable of operating in water of 6 feet or less depth.
- Containment boom for oil collection and containment and for protection of fish and wildlife and sensitive environments and socio-economic sensitivities will be secured from the OSRO(s) and other Company resources.

US RESPONSE CAPABILITY SCENARIOS (Cont'd)

Worst Case Discharge (b) (7)(F)

Facility Response Resources/Capability (Cont'd)

- Resources capable of responding to a shoreline clean-up operation involving the calculated volume of oil and emulsified oil that might impact the shoreline will be secured from the OSRO(s) and other Company resources.
- Disposal of recoverable oil would be done per the disposal plan.
- Overall response operations will be conducted under the Incident Command System with adequate Facility and Contract Response personnel to continue operations for a minimum of seven (7) days.

Notes:

- Equipment and manpower resources are detailed in Sections 4.0, 5.0, Section 5.1, Figure 4.3, and Appendix C.
- Telephone references are provided in Figures 2.3 – 2.14.

U.S. Coast Guard Discharge Volume Calculations

Worst Case Discharge Volume Calculations from Marine Operations (WCD)

- Potential simultaneous pumping operations (SO)
- Maximum pumping flow rate (MFR):
- Maximum discharge discovery time (MDT):
- Maximum discharge shut down time (MSDT):
- Maximum line fill volume (LFV):
(see *Hazard Evaluation, Appendix H for Pipeline detail*)
- $WCD = [(MDT + MSDT) * MFR * SO] + LFV$
- (b) (7)(F) [REDACTED]

Maximum Most Probable Discharge Calculations (MMPD)

- 1,200 Bbls <or> 10 (b) (7)(F) [REDACTED]
- MMPD = 1,200 Bbls

Average Most Probable Discharge Calculations (AMPD)

- 50 Bbls <or> 1 % of the WCD (whichever is less)
- AMPD = 50 Bbls

U.S. EPA Discharge Volume Calculations

Worst Case Discharge Calculations (WCD)

- The volume of the largest single tank.
- (b) (7)(F) [REDACTED]
(largest single tank, see *Hazard Identification Tanks Table in Appendix H*)

Medium Discharge (MD) Calculations

- 857 Bbls <or> 10 % of the capacity of the largest tank (whichever is less)
- (b) (7)(F) [REDACTED]

Small Discharge (SD) Calculations

- Less than or equal to 50 Bbls
- SD = 50 Bbls

U.S. DOT PHMSA Discharge Volume Calculations

The worst case discharge of (b) (7)(F) is calculated by using the method identified under 49 CFR 194.105(b)(1) - The pipeline's maximum release time in hours, plus the maximum shutdown response time in hours, multiplied by the maximum flow rate expressed in barrels per hour, plus the largest line drainage volume after shutdown of the line section. Operators monitor the flow of oil at the terminal and mainline pump stations during all transfer operations. The following calculations are used to determine the worst case discharge:

Pipeline maximum release time ¹
Maximum shutdown time ²
Maximum flow rate ³
Largest line drainage volume ⁴
Worst case discharge

(b) (7)(F)

1. Maximum release time is based on a best estimate of how long it would take the operator to recognize a catastrophic pipeline failure. Given the capabilities of the pipeline monitoring system to detect shortages and the installation of pressure rate of change detection alarms at the pump stations, this is a reasonable estimate.
2. The maximum shutdown time is an estimate based on historical shutdown experience.
3. The maximum flow rate is the maximum daily capacity (expressed in barrels per hour) of the 24" line using the Colt Engineering study.
4. The largest line drainage volume for the U.S. system is based on a 24" mainline break at milepost (b) (7)(F)

The calculation assumes a full drain down of the pipeline from the point of highest elevation on either side of the break. The calculation considers the location of block valves and assumes that the sections of pipe that are located in topographical depressions (except for the break location) will remain full of oil.

EPA Planning Distance Calculation "Oil Transport on Tidal Influence Areas"

For persistent oils discharged into tidal waters, the planning distance is 15 miles from the facility down current ebb tide and to the point of maximum tidal influence or 15 miles, whichever is less, during flood tide.

Portland Pipe Line Corporation - South Portland Terminal Facility

Response Planning Volume Calculations

Location Data			
Location Type			
Port Type			
WCD Product Type			
Product Group			
Maximum Vessel Discharge Pumping Rate (bbls/hr/line)			
Maximum Number of Simultaneous Vessel Discharge Pumping Operations (per line)			
Worst Case Discharge Scenario Pumping Time (detect + shut down, hrs)			
Total Line Fill Volume From Dock to First Valve w/in Containment (bbls)			
Capacity of the Largest Single Tank (bbls)			
Discharge Volumes/Calculations			
Average Most Probable or Small Discharge (bbls)			
Maximum Most Probable or Medium Discharge (bbls)			
Worst Case Discharge - Based on USCG criteria (bbls)			
Worst Case Discharge - Based on DOT/PHMSA criteria (bbls)			
Worst Case Discharge - Based on EPA criteria (bbls)			
USCG WCD Calculation: (Pump Rate * Pump Time * Number of Pump Operations) + Line Fill			
DOT/PHMSA WCD Calculation: (Detection + Shutdown Times) * Max Flow Rate + Line Fill			
EPA WCD Calculation: 100% * Capacity of Largest Single Tank			
Selected Calculation Factors			
Removal Capacity Planning Volume - Percent Natural Dissipation			50%
Removal Capacity Planning Volume - Percent Recovered Floating Oil			50%
Removal Capacity Planning Volume - Percent Oil Onshore			30%
Emulsification Factor			1.8
Tier 1 - On Water Oil Recovery Resource Mobilization Factor			15%
Tier 2 - On Water Oil Recovery Resource Mobilization Factor			25%
Tier 3 - On Water Oil Recovery Resource Mobilization Factor			40%
Response Planning Volume Calculation			
On-Water Recovery Volume (bbls)			(b) (7)(F)
On-Shore Recovery Volume (bbls)			(b) (7)(F)
Total Recovery Volume (bbls)			(b) (7)(F)
	Tier 1	Tier 2	Tier 3
On-Water Recovery Cpcty (bbls/day)	36,180	60,300	96,480
Shallow Water Resp Cpblty (bbls/day)	7,236	12,060	19,296
Storage Capacity (bbls/day)	72,360	120,600	192,960
On-Water Response Caps (bbls/day)	12,500	25,000	50,000
Additional Response Req'd (bbls/day)	(b) (7)(F)		
Response Time (hrs)	12	36	60

CANADA DISCHARGE VOLUME CALCULATIONS / SCENARIOS

This Appendix addresses worst case crude oil spills most likely to occur at the Montreal Pipe Line Ltd. Installations, namely the trunk lines and the North Tank Field in Montreal-East.

MONTREAL PIPE LINE LIMITED DISCHARGE VOLUME CALCULATION MAIN LINE	
Worst Case Discharge Volume Calculations	
The worst case discharge is calculated by using the method identified under 49 CFR 194.105(b)(1) U.S. DOT PHMSA. The pipeline's maximum release time in hours, plus the maximum shutdown response time in hours, multiplied by the maximum flow rate expressed in barrels per hour, plus the largest line drainage volume after shutdown of the line section. Operators monitor the flow of oil at the terminal and mainline pump stations during all transfer operations. The following calculations are used to determine the worst case discharge:	
Pipeline maximum release time ¹ Maximum shutdown time ² Maximum flow rate ³ Largest line drainage volume ⁴ Worst case discharge	(b) (7)(F)
1. Maximum release time is based on a best estimate of how long it would take the operator to recognize a catastrophic pipeline failure. Given the capabilities of the pipeline monitoring system to detect shortages and the installation of pressure rate of change detection alarms at the pump stations, this is a reasonable estimate. 2. The maximum shutdown time is an estimate based on historical shutdown experience. 3. (b) (7)(F) The calculation considers the location of block valves and assumes that the sections of pipe that are located in topographical depressions (except for the break location) will remain full of oil.	

CANADA DISCHARGE VOLUME CALCULATIONS / SCENARIOS (cont'd)

MONTREAL PIPE LINE LIMITED RESPONSE PLANNING SCENARIOS NORTH TANK FIELD	
The two worst-case scenarios analysed for the North Tank Field are presented in the following sections. The detailed minute-by-minute version of these scenarios is available at the end of this section.	
A) Tank fire with risk of a boil-over	
A subcontractor welding a guard ramp causes a fire in tank TK-663. The fire breaks out around 9 a.m. and the alarm process is sounded by the Chief, Delivery Operations on site to supervise the work.	
Within minutes, steps are taken to evacuate the contents of that tank into MPL's neighboring tanks and into the Enbridge pipeline. Consideration is given to a possible boil-over occurring within some 20 hours and, should it prove impossible to empty the water lying in the bottom of the tank, the evacuation plan of the general public would then be implemented. In very broad terms, the following actions would then be initiated:	
"	Empty the tank that is on fire (precautions must be taken to avoid a boil-over to occur);
"	Cool down the neighboring tanks while using a minimum quantity of water;
"	Monitor the environment under the smoke plume (SO ₂ and particles);
"	Project foam into the tank to extinguish the fire.
Evacuations and rerouting of traffic on neighboring roads will be necessary. Around 4 p.m. of that same day, the risks of a boil-over are deemed nil and the fire itself is extinguished around 9 p.m.	
B) Sequential rupture of two tanks and fire	
A breakdown in tank's TK-663 structure provokes its complete rupture and crude oil spills into the retaining dikes. The crude oil then inflames probably due to contact with a near-by ignition source.	
This incident occurs at night around 1 a.m. and it is the South Portland controller who is first alerted thanks to the alarm raised by the sudden variation in level detector. The emergency plan is immediately initiated.	
In very broad terms, the following actions would be implemented:	
"	Evacuate the contents of tank TK-665 in the center of the inferno into the neighboring MPL tanks and the Enbridge pipeline;
"	Cool down the neighboring tanks while using a minimum quantity of water;
"	Monitor the environment under the smoke plume (SO ₂ and particles);
"	Keep the foam trucks close-by to contain any eventual spillage outside of the bunds;
"	As a precautionary measure, build a temporary retaining dike in the ditch that runs parallel to the railway.
Two hours later, a second tank (TK-665) ruptures due to the fire. The scope of the fire is estimated to be 56,700 m ² (the surface area enclosed by the railway and the two tanks' retaining dike). The crude oil is contained within the MPL property but all security measures are taken to avoid a spillage into the sewers.	
The fire is under control within 17.5 hours.	

**MONTREAL PIPE LINE LIMITED
DETAILED INTERVENTION SCENARIOS
NORTH TANK FIELD**

See DDH ENVIRONMENT LTEE Report Following

Please note that the following Detailed Intervention Scenarios report was prepared by DDH Environment LTÉE on October 20, 2000, and was revised and clarified in September, 2009.

*MONTREAL PIPE LINE LTD.
MONTREAL EAST, QUEBEC*

**DETAILED INTERVENTION SCENARIOS
CONSTRUCTION OF ADDITIONAL CRUDE OIL STORAGE TANKS
IN THE MONTREAL EAST
NORTH TANK FARM**

October 20, 2000

Reviewed and Clarified September, 2009

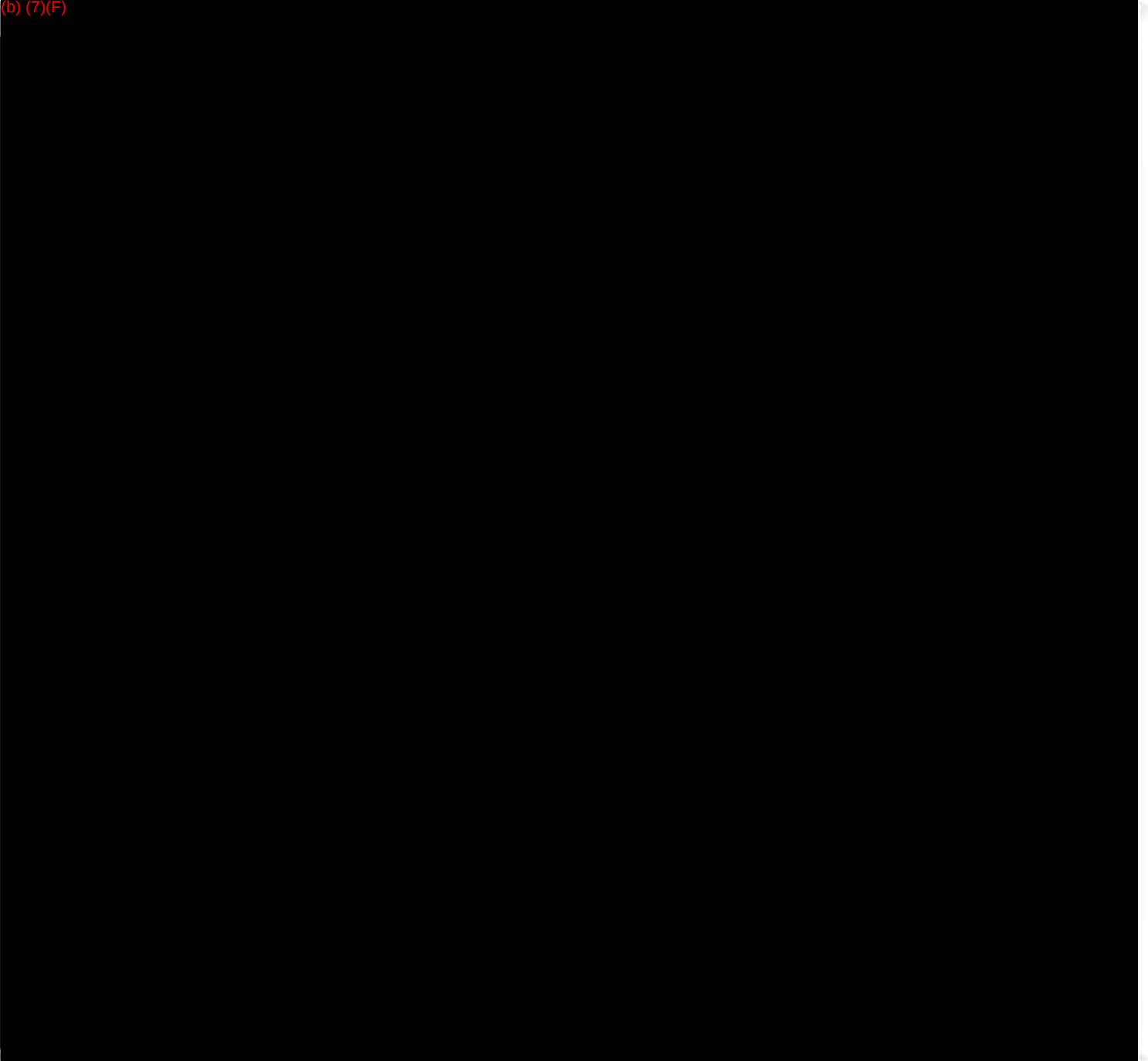
Prepared by:

DDH ENVIRONNEMENT LTEE

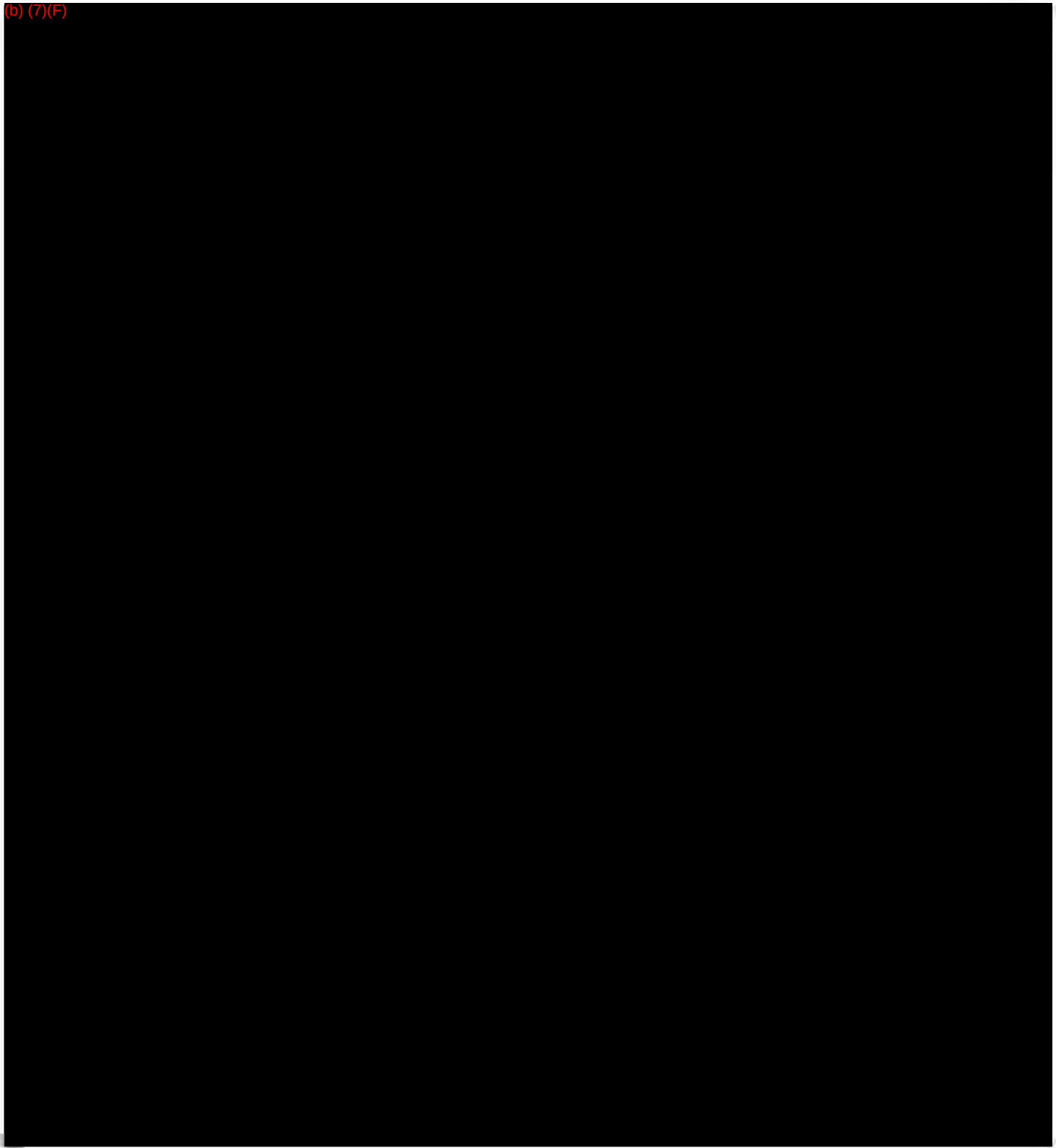
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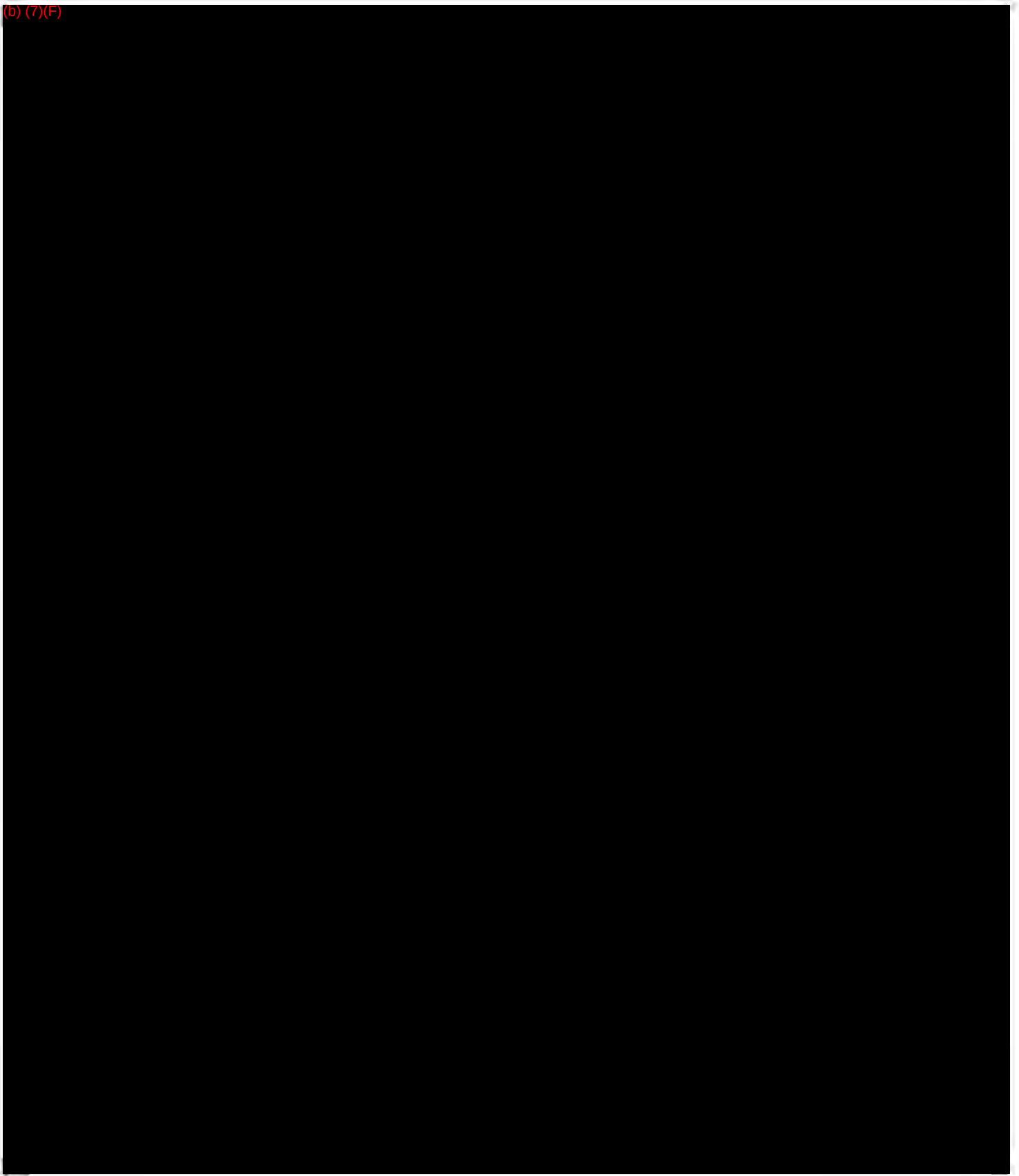
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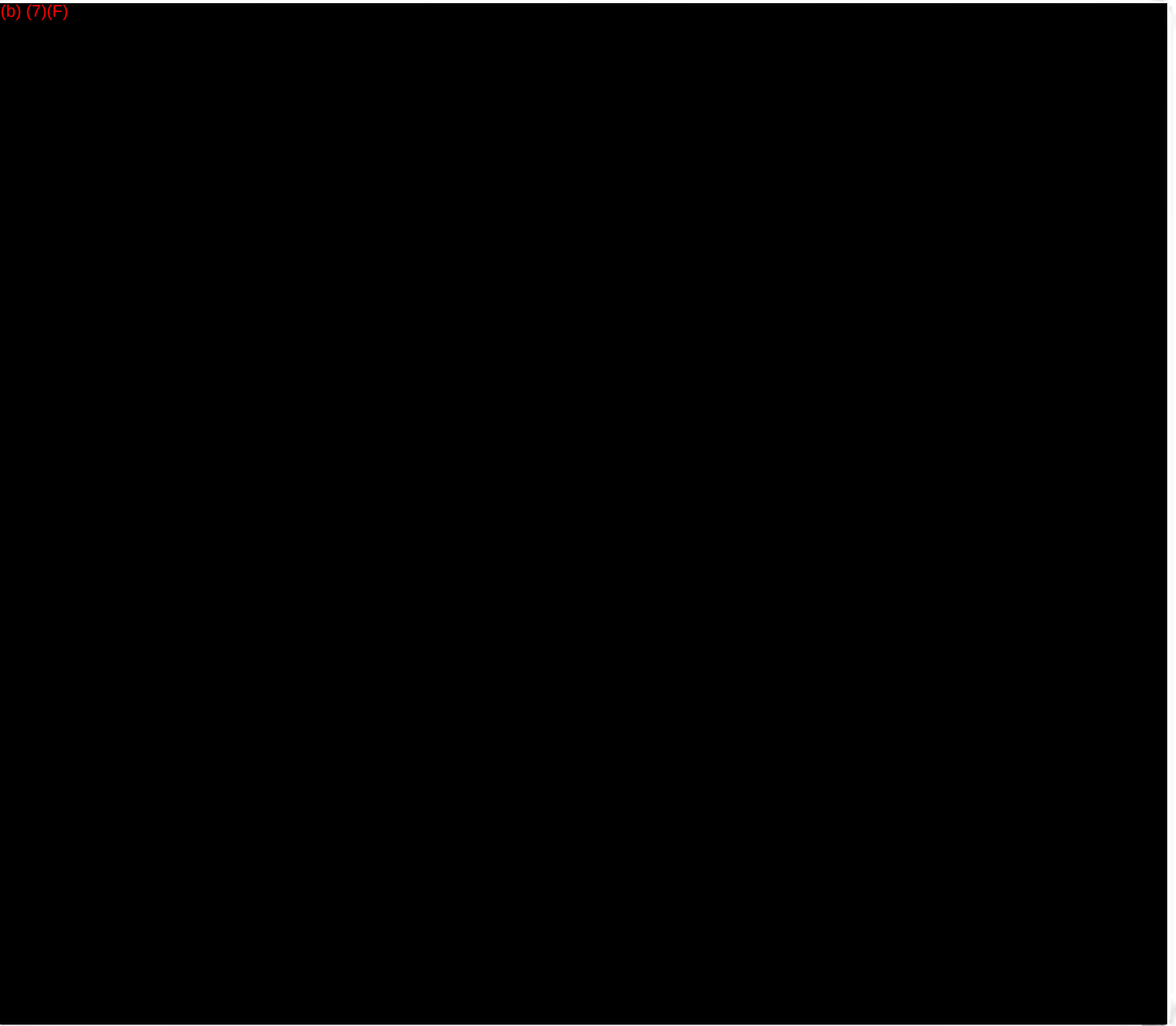
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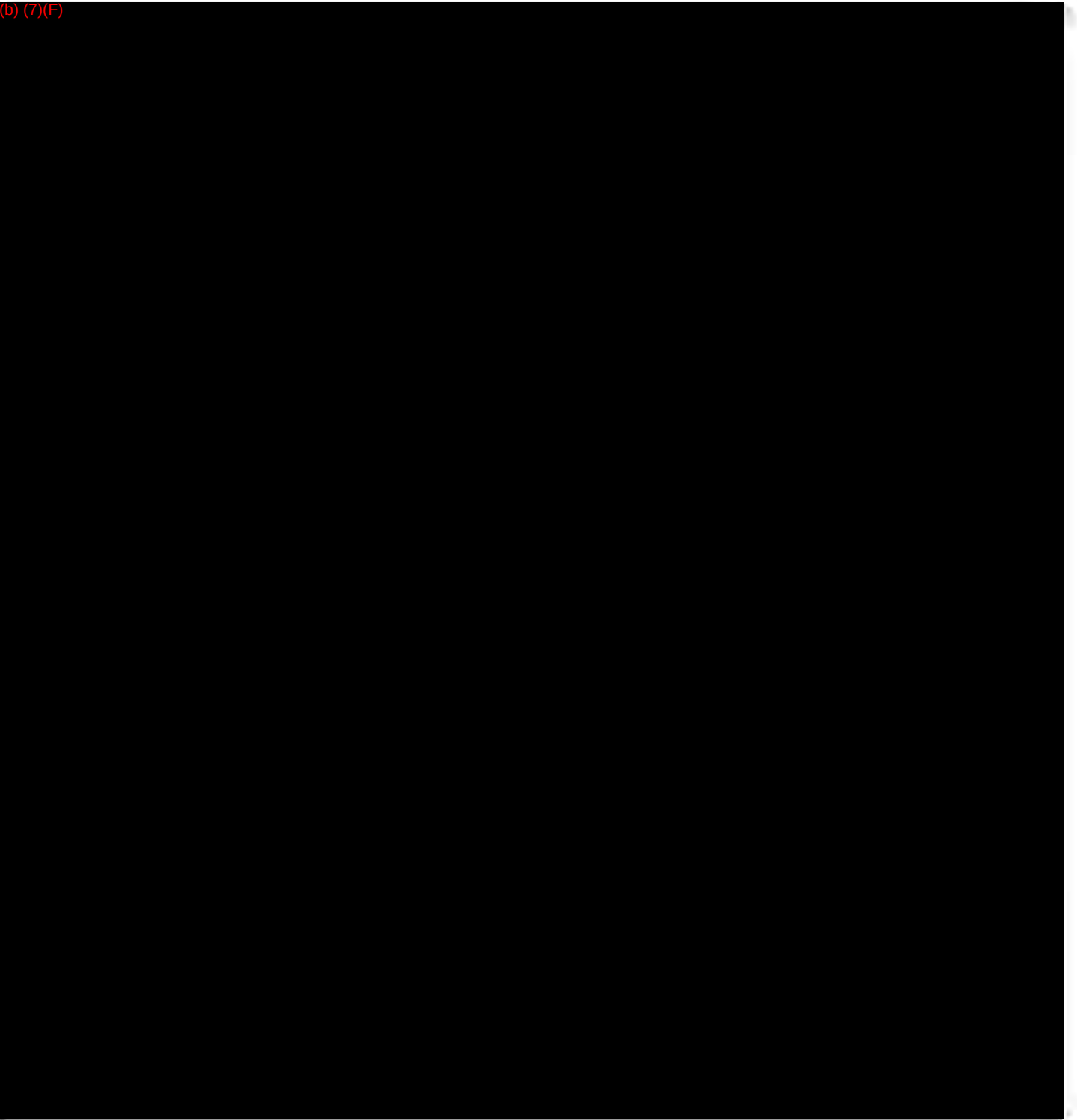
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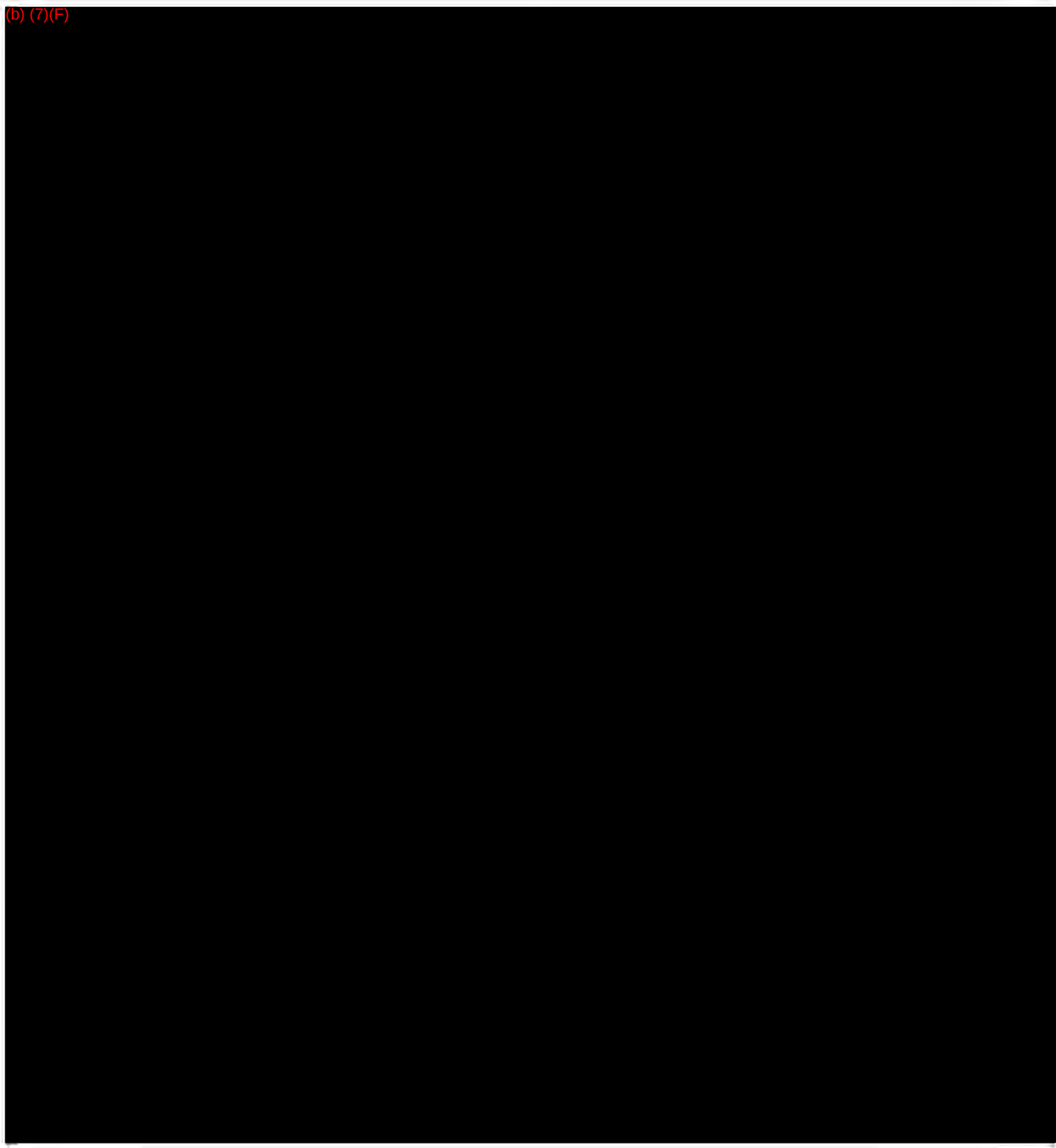
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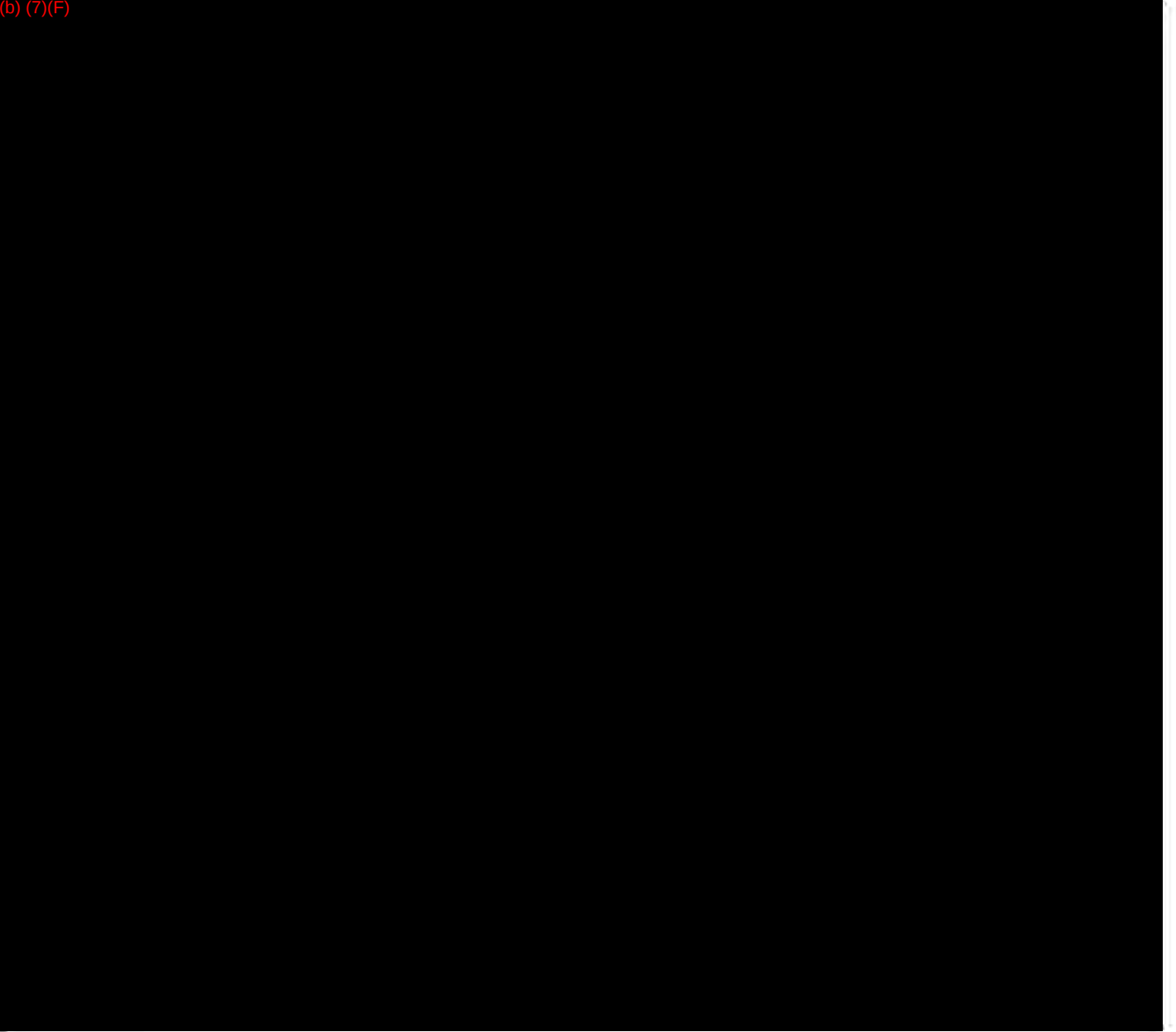


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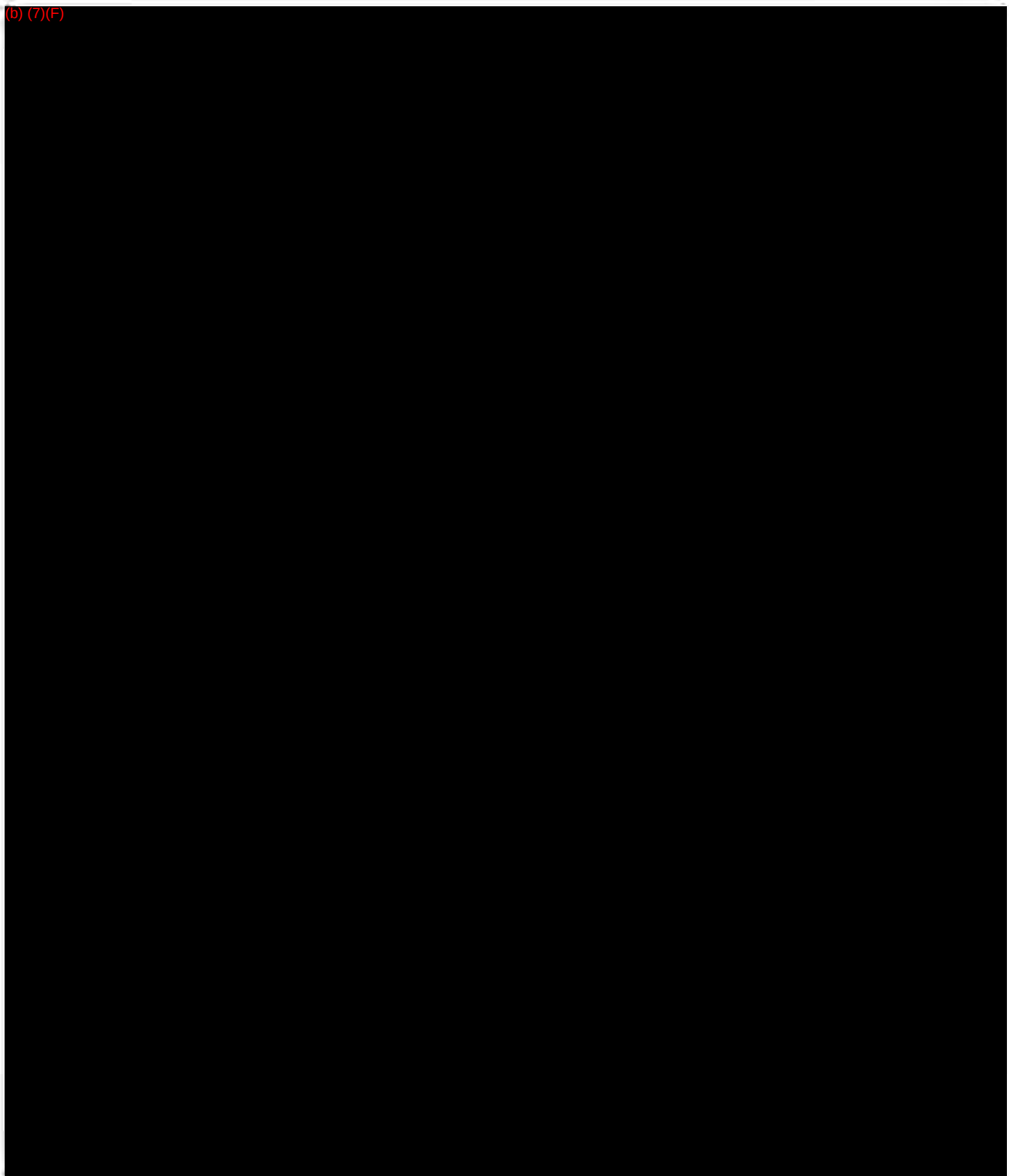


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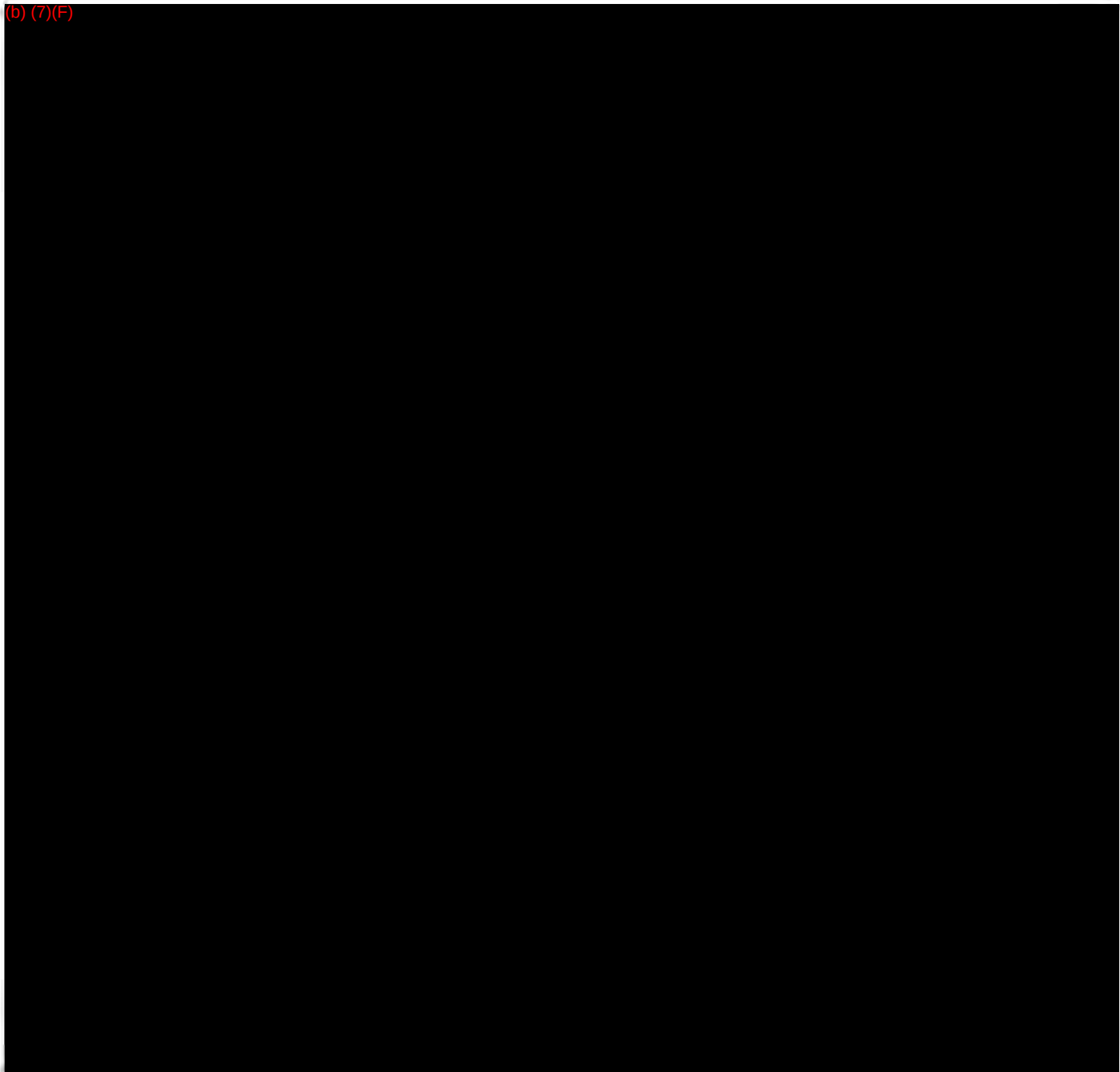
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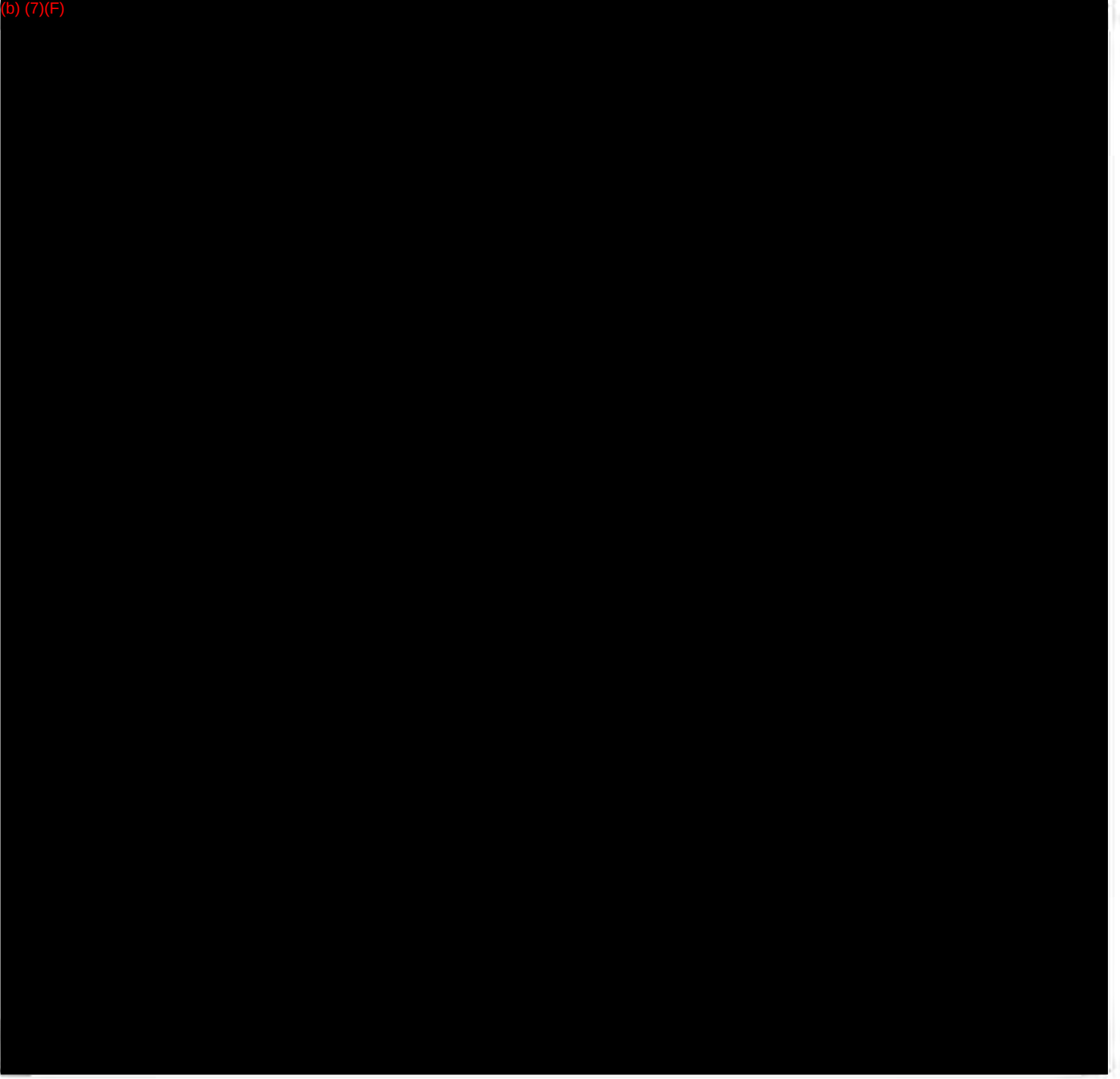
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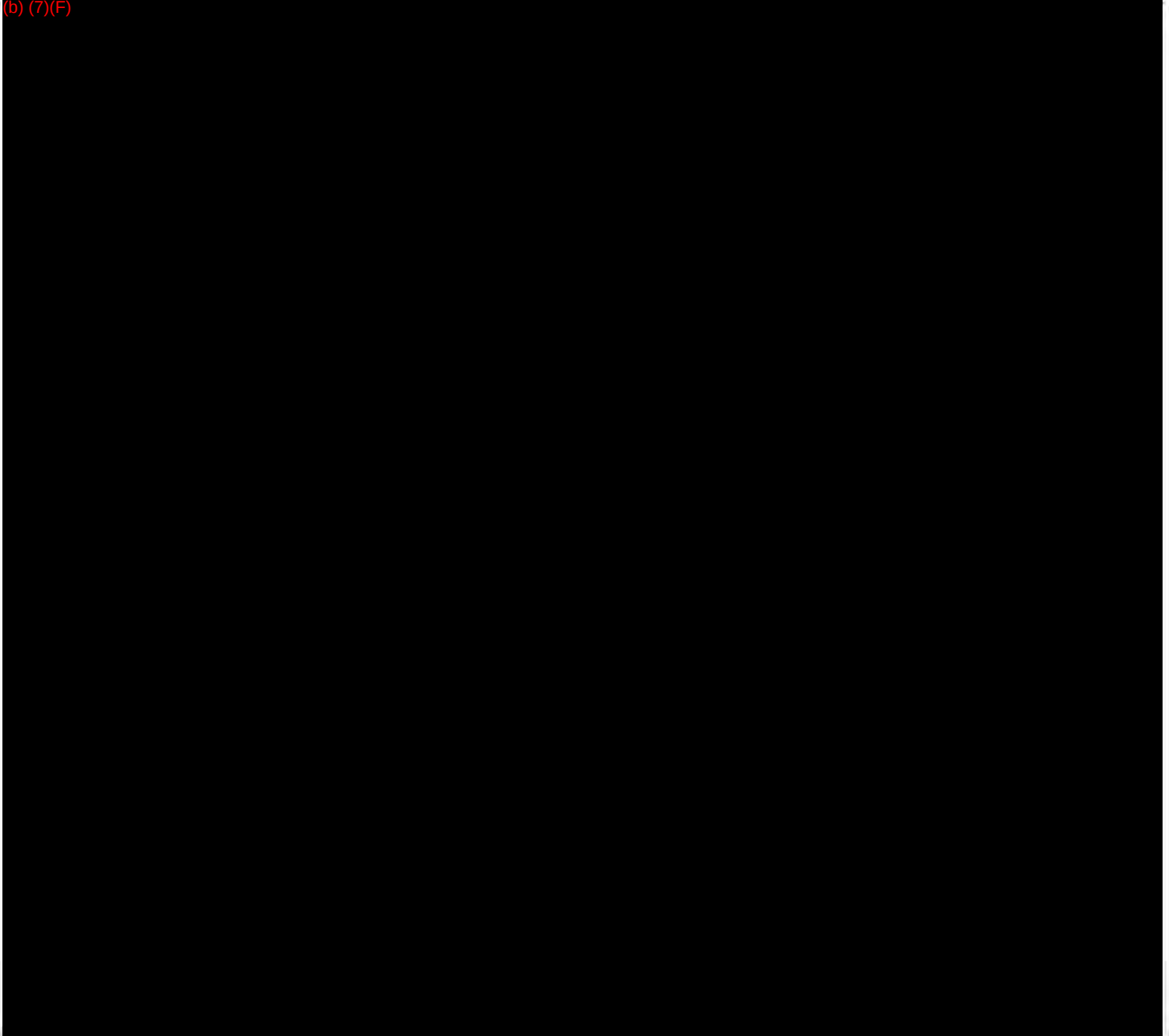
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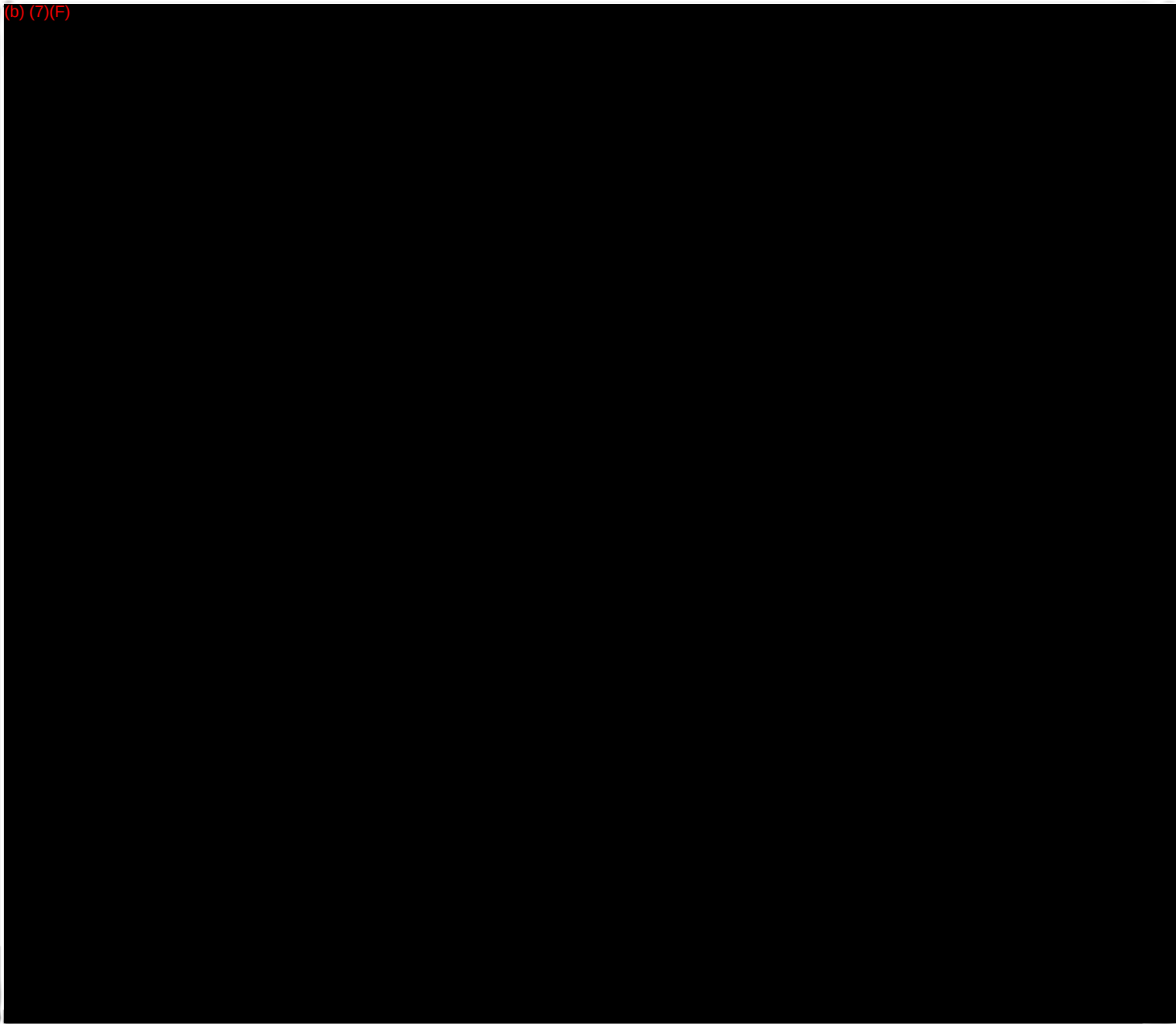
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APPENDIX H

HAZARD EVALUATION

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US - Hazard Identification

Unloading of Transportation Vehicles (South Portland Marine Terminal)

The Facility only conducts unloading of marine vessels. These operations are typically conducted as follows:

MARINE OPERATIONS	
Transfer Points:	Two (2)
(b) (7)(F)	
	Two (2) operations
Transfers per day:	Four (4) (<i>maximum</i>)
Products:	Crude Oil

Day-to-Day Operations

The day-to-day operations at the Facility that may present a risk of discharging oil or releasing a hazardous substance are:

- Pipeline transfer operations
- Vessel unloading operations
- Tank to tank transfers
- Vacuum truck to tank transfers (maintenance activities)

Work such as piping replacement/repair is rare, and would only be done on portions of the system that are isolated from the active system.

Secondary Containment Volumes

Secondary containment is provided for the bulk storage tanks and/or transfer points at the South Portland Facility. Detailed secondary containment information is located in the SPCC Plan (under separate tab).

Normal Daily Throughput

The Company currently maintains 23 above-ground storage tanks at its South Portland facilities. Four (4) tanks (Tanks 1, 2, 27, and 28) are located adjacent to the two Company piers in Portland Harbor. Pier No. 2 is the only active pier; however, Tanks 1 and 2 are still used for active storage. The remaining 19 tanks are located at the Tank Farm located on Hill Street in South Portland approximately three miles from the marine terminal. The Hazard Identification Table in this appendix identifies each of these tanks by tank number. All tanks are used to store crude oil only, and are filled and drained in accordance with scheduled receipt of crude oil by vessels at Pier No. 2, and by delivery of crude oil to refineries and storage tanks in Montreal, Canada by the Company's interstate pipeline. Because delivery and shipment of crude oil vary throughout the year, the Company has chosen to present the rated shell capacity as the maximum capacity of liquid in each tank. The average quantity stored in each tank on any given day can range from empty to an effective liquid capacity for each tank, depending on receipt and shipment of crude oil to and from the facility.

US - Hazard Identification (Cont'd)

The Normal Daily Throughput for the South Portland Facility:

Normal Daily Throughput	Average Storage	Total Storage
(b) (7)(F)		

Hazard Identification Tank Table

The Hazard ID Tank table, which is located in the appendix, lists all storage tanks at the South Portland facilities. A detailed Spill Potentials List for the South Portland facilities is located in the SPCC Plan, under separate tab.

Discharge Detection

Detailed information pertaining to discharge detection is located in the SPCC Plan, under separate tab.

Security

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US - Vulnerability Analysis

Introduction

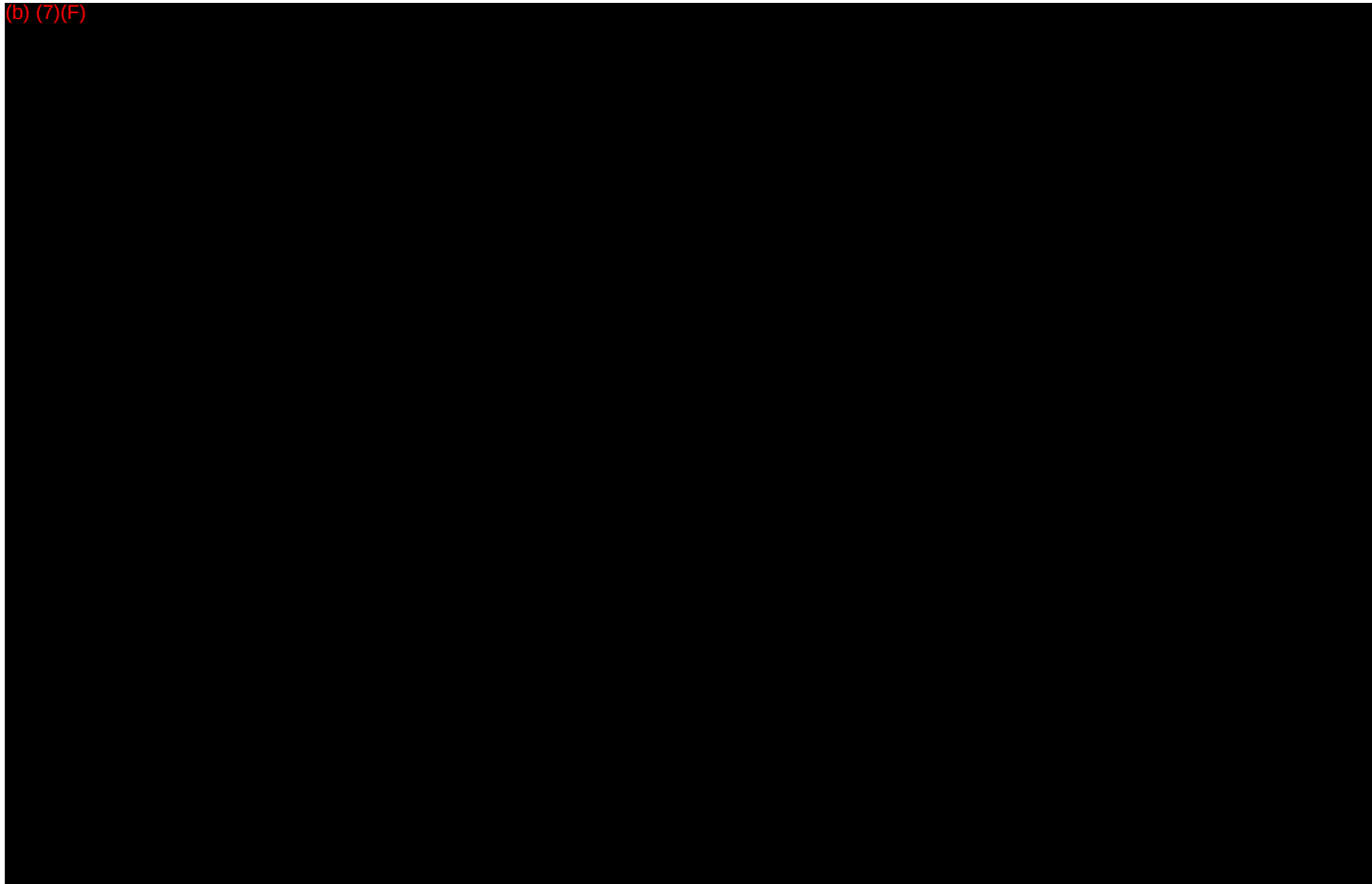
The vulnerability analysis addresses the potential effects (i.e., to human health, property, or the environment) of an oil spill originating from the South Portland Facilities. Section 6.0 of this Plan provides general guidance to the responder for "Spill Impact Considerations", addressing response options for many of the specific sensitivities detailed below.

The rest of the pipeline system is rather extensive as it stretches across 236 miles in three states and two countries. Therefore, the sensitive areas are detailed in "Emergency Response Mapping" booklets which are contained in separate, stand alone documents.

The area potentially affected by a spill originating from the Facility has a number of characteristics which require consideration in the event of a discharge.

- The immediate area of the Facility is located in an industrialized area of South Portland, Maine.
- The most sensitive area near the facility are commercial and sport fisheries and wildlife in the Portland Harbor and the Casco Bay areas.
- Residential areas are located on all sides of the Tank Farm, and on both banks of Anthoine Creek and the Fore River.

(b) (7)(F)



US - Vulnerability Analysis (Cont'd)

(b) (7)(F)

Residential Areas

Residential areas are on all sides of the Tank Farm, and on both banks of Anthoine Creek and the Fore River. Any evacuation efforts for these areas will be coordinated with the local emergency assistance agencies (police department, fire department, etc.) Additional details on the residential areas within the area of the Facility are included in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents. Telephone reference is provided in Figure 2.5.

Businesses

There are various commercial areas in the vicinity of the Facility. Any evacuation efforts for these areas will be coordinated with the local emergency assistance agencies (police department, fire department, etc.). Additional detail on the general layout of businesses within the area of the Facility are included in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents.

Fish and Wildlife, Wetlands, and other Sensitive Environments

The area surrounding the Facility is detailed in the applicable ACP. The "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents, detail sensitive areas.

Flora and fauna are always present and are sensitive to the effects of a pollution incident. All environmental areas deserve protection from pollution, but they must be prioritized during a response so as to protect the most sensitive and susceptible areas to pollution.

Commercial and sport fisheries and wildlife are located in the Portland Harbor and Casco Bay area. Additional information is included in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents.

Possible environmental effects of a spill could include potential mortality to fish, wildlife, flora and fauna.

During a response situation the USFWS and applicable state agencies should be contacted for information regarding wetlands and other sensitive environments. Upon contact the agencies will be able to:

- Identify and establish priorities for fish and wildlife, wetlands, and other sensitive environments requiring protection from any direct or indirect effects from a discharge.
- Identify potential environmental effects on fish and wildlife, wetlands, and other sensitive environments resulting from removal actions or countermeasures.
- Mobilize equipment to haze birds and wildlife and activate wildlife rescue and rehabilitation resources

US - Vulnerability Analysis (Cont'd)

Lakes and Streams

The Facility is located in close proximity to Anthoine Creek, the Fore River, and Portland Harbor. Additional information is included in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents. Possible environmental effects of a spill could include impacts to water quality and potential mortality to fish, wildlife, flora and fauna in these areas.

Endangered Flora and Fauna

No endangered species are known to be located within the immediate area of the Facility. A complete list of state and federal threatened and endangered wildlife is located in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents.

Recreational Areas

There are various recreational areas in the area of the Facility. These areas include Ferry Beach State Park, Crescent Beach State Park, Two Lights State Park, Bug Light Park, Willard Beach, East End Beach, and Wolfe's Neck Woods State Park. These are identified in the "Emergency Response Mapping" booklets which are maintained as separate, stand alone documents.

The recreational area that could be potentially affected by a spill from the South Portland Tank Farm is the Greenbelt Walkway that transits Anthoine Creek immediately adjacent to Broadway.

The recreation areas that could potentially be impacted by a Spill from the terminal tanks would be East End Beach, Willard Beach and Bug Light Park.

Possible environmental effects of a spill could include oil impacted shorelines and potential mortality to fish, wildlife, flora and fauna. Public access and recreational use could also be impacted.

Transportation Routes (air, land, and water)

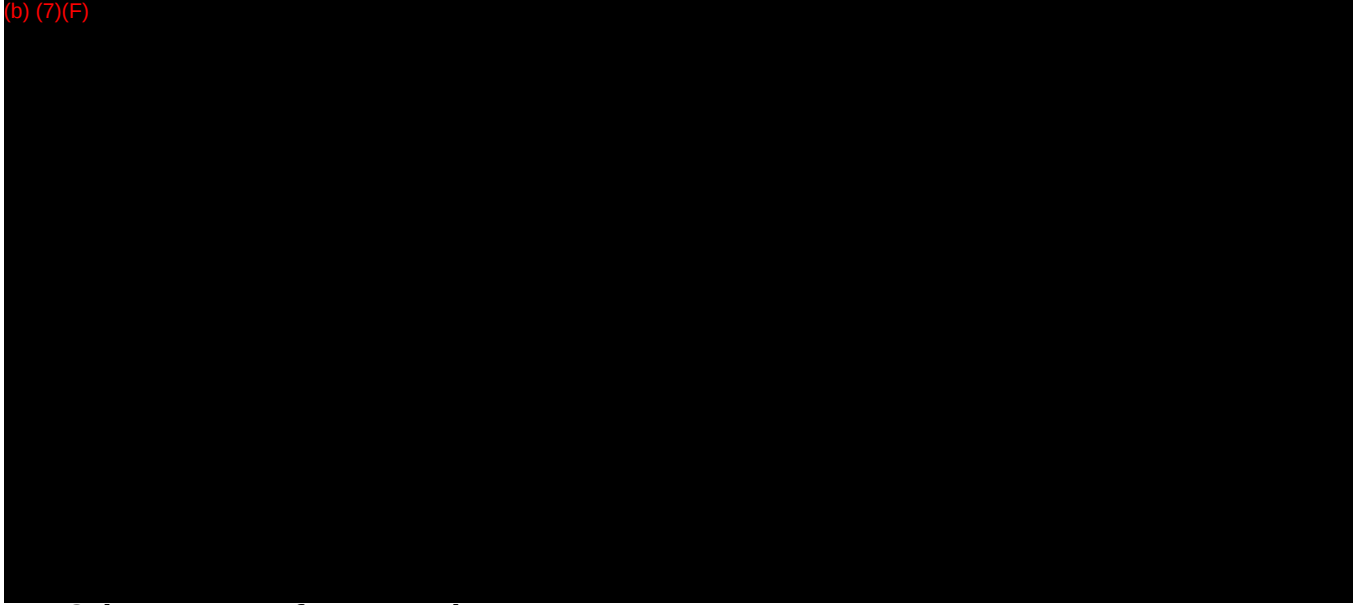
South Portland Tank Farm

A worst case spill from a tank at the South Portland tank farm at 30 Hill Street could potentially impact traffic on Broadway in South Portland near Anthoine Street where Anthoine Creek crosses Broadway. Depending on the tank location within the farm, it could also potentially affect Evans Street and Highland Avenue traffic. South Portland Police would be contacted to direct traffic.

Although unlikely, a high degree of vapors from a spill could impact air traffic at the Portland Jetport. The alternate western and northern runway approaches would be used. It is possible the Fore River could see enough oil to impact vessel activity in the upper Fore River. The decision to curtail vessel activity would be made by the USCG who are the leading FOSC for spills east of Route One.

US - Vulnerability Analysis (Cont'd)

(b) (7)(F)



Other Areas of Economic Importance

Any evacuation efforts necessary for these areas will be coordinated with the local emergency assistance agencies (police department, fire department, etc.), State Police, and other agencies as the situation demands. Telephone references are provided in Figure 2.5. Other than neighboring businesses, there are not many other areas of economic importance within close proximity to the Facility.

US - Analysis of the Potential for a Spill

The potential for a significant spill at the Portland Marine Terminal and Tank Farm is minimal due to the spill prevention measures that are in place and the operating procedures followed by facility personnel. The potential for a spill of sufficient magnitude to escape the Facility is very remote due to the spill mitigation measures inherent in the facility design.

Spill prevention measures include a number of discharge detection methods and various inspection procedures which are described further in the SPCC Plan (under separate tab).

Operating procedures are defined in the Company procedural manuals. All personnel responsible for terminal operations are trained. New personnel receive on-the-job training working with experienced operating personnel as well as training in the areas of safety, spill prevention, emergency response, and applicable pollution prevention laws, rules and regulations. They become fully trained prior to assuming unsupervised operating responsibilities.

Spill mitigation measures include facility designs intended to direct releases to containment areas where they can be promptly controlled and cleaned up.

The Portland area is not subject to excessive exposure of inclement weather such as tornadoes, hurricanes, floods, or tropical storms. The area is subject to snowstorms during the winter months but none have resulted in reportable spills.

The South Portland Tank Farm is constructed on bedrock and consolidated soils, with good stability. The existing rock underlying the topography is the reason the tanks are built at different elevations and also provides good support for the tanks. A tank settlement monitoring program is in place.

Small Discharges

Small discharges could occur from little used or idle piping. Unused piping is removed or flushed, cleaned and capped. Little used piping is flushed and unloading lines undergo internal inspection and pigging. Response effort for these types of spills would be initiated by site personnel and aided by contract response resources. Spills of this nature are generally singular in nature and not subject to chain reactions or failures. The spill would typically be retained inside a tank dike or on land immediately adjacent to the piping location. Disposal would be per the disposal plan with recovered soil typically taken to a local plant for use as road base material.

Medium Discharges

Medium Discharges could occur from Third Party Damage to underground piping. PPLC, Dig Safe and City permit processes control digging around underground piping. At the South Portland Tank Farm, oil will be retained on premises and not reach water, fish, wildlife or sensitive environments. At the terminal area and shore tanks, there is a low probability the oil could reach the Fore River. These types of spills are typically singular in nature and not subject to chain reactions or failure due to the nature of the cause of the leak.

US - Reportable Oil Spill History

The Facility maintains a separate Oil Spill History file in the Facility office. The Facility's file contains the below listed information to the extent that such information is reasonably identifiable.

- Date of discharge.
- Location of discharge.
- Discharge cause(s).
- Material(s) discharged.
- Amount discharged.
- Amount of discharge that reached navigable waters.
- Amount recovered.
- Effectiveness and capacity of secondary containment.
- Clean-up actions taken.
- Steps taken to reduce possibility of recurrence.
- Total storage capacity of the tank(s) or impoundment(s) from which the material discharged.
- Enforcement actions.
- Effectiveness of monitoring equipment.
- Description of how spill was detected.

Based on the information available, an analysis of previous spills yields two tank overflow spills in the early years of operation. Both were contained. Since that time, remote monitoring of tank levels has been implemented with redundant high level alarms which are monitored by personnel having full authority to stop all operations to prevent an overflow. There have been small spills attributable to seals and gaskets. A computerized maintenance managing system is used today to manage maintenance of these components. There have been spills attributed to internal corrosion of little used piping. These spills were retained on premises. To prevent recurrence unused piping is removed or flushed, cleaned and capped, little used piping is flushed, and unloading lines undergo internal inspection and pigging. There is one known enforcement action by the Maine Department of Environmental Protection.

Recorded history indicates that the only known damage to the facility by nature was damage to Pier No. 1 by a hurricane in 1946. The pier was rebuilt stronger, and has weathered subsequent storms. One hurricane of low magnitude is known to have occurred in the mid-1990s with no impact to the oil containing facilities.

There have been no spills from the South Portland Tank Farm that were reportable under 40 CFR Part 110. There has been only one identified South Portland Tank Farm Facility spill that threatened to reach surface waters. Subsequent to construction of the 42" dock line in 1969, oil was released into a ditch connecting with Anthoine Creek. A summary of this incident follows.

Figure H-1 US - Reportable Oil Spill History

<i>Date of discharge.</i>	September 15, 1969
<i>Location of discharge.</i>	42" Unloading Line
<i>Discharge cause(s).</i>	After construction and hydrostatic testing of the 42" unloading line, a skimmer pit was built to allow drainage of the test water from the line and capturing any residual oil in the pipe from leaking manifold valves and piping. The contractor representative responsible for observing the fluid being drained to the pit left the job site without permission. In his absence, some oil entered and overflowed the pit and into a ditch connecting with Anthoine Creek (did not reach Anthoine Creek).
<i>Material(s) discharged.</i>	Crude oil
<i>Amount discharged.</i>	50 barrels
<i>Amount of discharge that reached navigable waters.</i>	None – did not reach Anthoine Creek.
<i>Amount recovered.</i>	---
<i>Effectiveness and capacity of secondary containment.</i>	Temporary secondary containment not effective due to human failure.
<i>Clean-up actions taken.</i>	Dam constructed upstream of Anthoine Creek.
<i>Steps taken to reduce possibility of recurrence.</i>	Employee counseled; Today, work plans and contractor programs manage.
<i>Total storage capacity of the tank(s) or impoundment(s) from which the material discharged.</i>	Capacity of skimmer pit unknown.
<i>Enforcement actions.</i>	None documented.
<i>Effectiveness of monitoring equipment.</i>	Poor; human error (contractor).
<i>Description of how spill was detected.</i>	Visual discovery by company personnel.

Figure H-2											
US - HAZARD IDENTIFICATION TANKS											
ABOVE GROUND STORAGE TANKS											
(Tank = any container that stores oil)											
Tank Number	Substance Stored (Oil & Haz. Substance)	Average Quantity Stored (Gallons)	Maximum Capacity (Gallons)	Tank Type (ie. floating roof, fixed roof, etc.)	Year Built	Potential Failure Mode	Probability	Rate of Flow (Gallons)	Failure / Cause (Record cause and date of any Tank failure which has resulted in a loss of tank contents)	Direction of Flow	Secondary Containment Capacity (Gallons)
1	Crude	(b) (7)(F)		Floating	1941	Rupture	Low	-----	Overflow due to incorrect remote tank guage readings. 74,340 gal. loss to containment (5/29/75)	Note "A"	(b) (7)(F)
2	Crude			Floating	1941	Rupture	Low	-----	N/A	Note "B"	
27	Crude			Floating	1966	Rupture	Low	-----	N/A		
28	Crude			Floating	1969	Rupture	Low	-----	N/A		
3	Crude			Floating	1950	Rupture	Low	-----	N/A	Note "C"	
4	Crude			Floating	1950	Rupture	Low	-----	N/A		
5	Crude			Floating	1950	Rupture	Low	-----	N/A		
6	Crude			Floating	1950	Rupture	Low	-----	N/A		
8	Crude			Floating	1944	Rupture	Low	-----	N/A		
9	Crude			Floating	1944	Rupture	Low	-----	N/A		
10	Crude			Floating	1941	Rupture	Low	-----	Overflow when wrong tank opened to receive oil from vessel. 10,080 gal. loss to containment. (10/5/60)		
11	Crude			Floating	1941	Rupture	Low	-----	N/A		

Figure H-2 (Cont'd)

US - HAZARD IDENTIFICATION TANKS ABOVE GROUND STORAGE TANKS (cont'd)

(b) (7)(F)

(b) (7)(F)

(Tank = any container that stores oil)

Tank Number	Substance Stored (Oil & Haz. Substance)	Tank Type (ie. floating roof, fixed roof, etc.)	Year Built	Potential Failure	Probability	Rate of Flow (Gallons)	Failure / Cause (Record cause and date of any Tank failure which has resulted in a loss of tank contents)	Direction of Flow
12	Crude	Floating	1941	Rupture	Low	-----	N/A	Note "C"
13	Crude	Floating	1941	Rupture	Low	-----	N/A	
18	Crude	Floating	1971	Rupture	Low	-----	N/A	
19	Crude	Floating	1953	Rupture	Low	-----	N/A	
20	Crude	Floating	1953	Rupture	Low	-----	N/A	
21	Crude	Floating	1955	Rupture	Low	-----	N/A	
22	Crude	Floating	1955	Rupture	Low	-----	N/A	
23	Crude	Floating	1960	Rupture	Low	-----	N/A	
24	Crude	Floating	1965	Rupture	Low	-----	N/A	
25	Crude	Floating	1965	Rupture	Low	-----	N/A	
26	Crude	Floating	1957	Rupture	Low	-----	N/A	
#2 Fuel Oil Storage Tank	Fuel Oil	Horizontal	1983	Leak	-----	-----	N/A	
Waste Oil/Rags Drums Storage	Waste Oil & Rags	55 Gal Drums	-----	Leak	-----	-----	N/A	
Pier 2 Diesel Generator Tank	Diesel Fuel	-----	2002	Leak	-----	-----	N/A	
Construction Mobile Fuel Tank	Diesel Fuel	Rectangular	-----	Leak	-----	N/A		In tank dike 23/24
TOTALS:								

Note^A: Primary drainage is to the containment area. Drainage outside of, or escaping containment would flow northwest to Portland Harbor.

Note^B: Primary drainage is to the containment area. Drainage outside of, or escaping containment would flow north across Pickett Street towards Portland Harbor.

Note^C: Primary drainage is to the containment area. Drainage outside of, or escaping containment would more than likely flow through either storm drains or ditches to the oil/water separator and reservoir. The chance does exist that a spill could reach Portland Harbor to the northwest.

Note^F: 55 gallon drum is stored on factory produced drum containment pallet sufficient to hold the entire contents.

Figure H-3

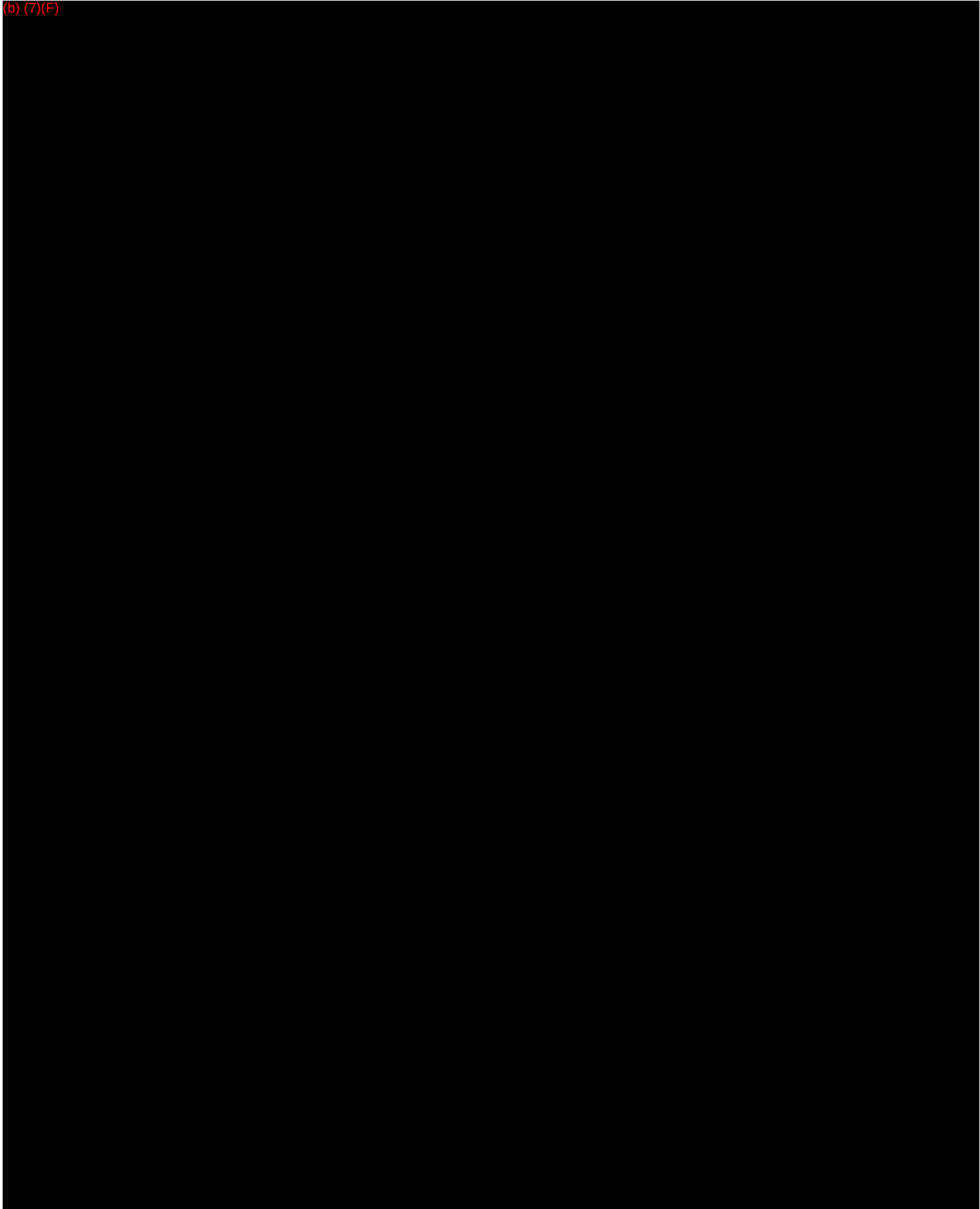
US - HAZARD IDENTIFICATION SURFACE IMPOUNDMENTS (SI) <i>(Surface Impoundment = natural topographic depression, man-made excavation, or diked area)</i>						
SI Number	Substance Stored	Quantity Stored (Gallons)	Maximum Capacity (Gallons)	Surface Area	Year Built	Failure / Cause <i>(Record cause and date of any SI failure which has resulted in the loss of SI contents)</i>
		There are no Surface Impoundments at this Facility				

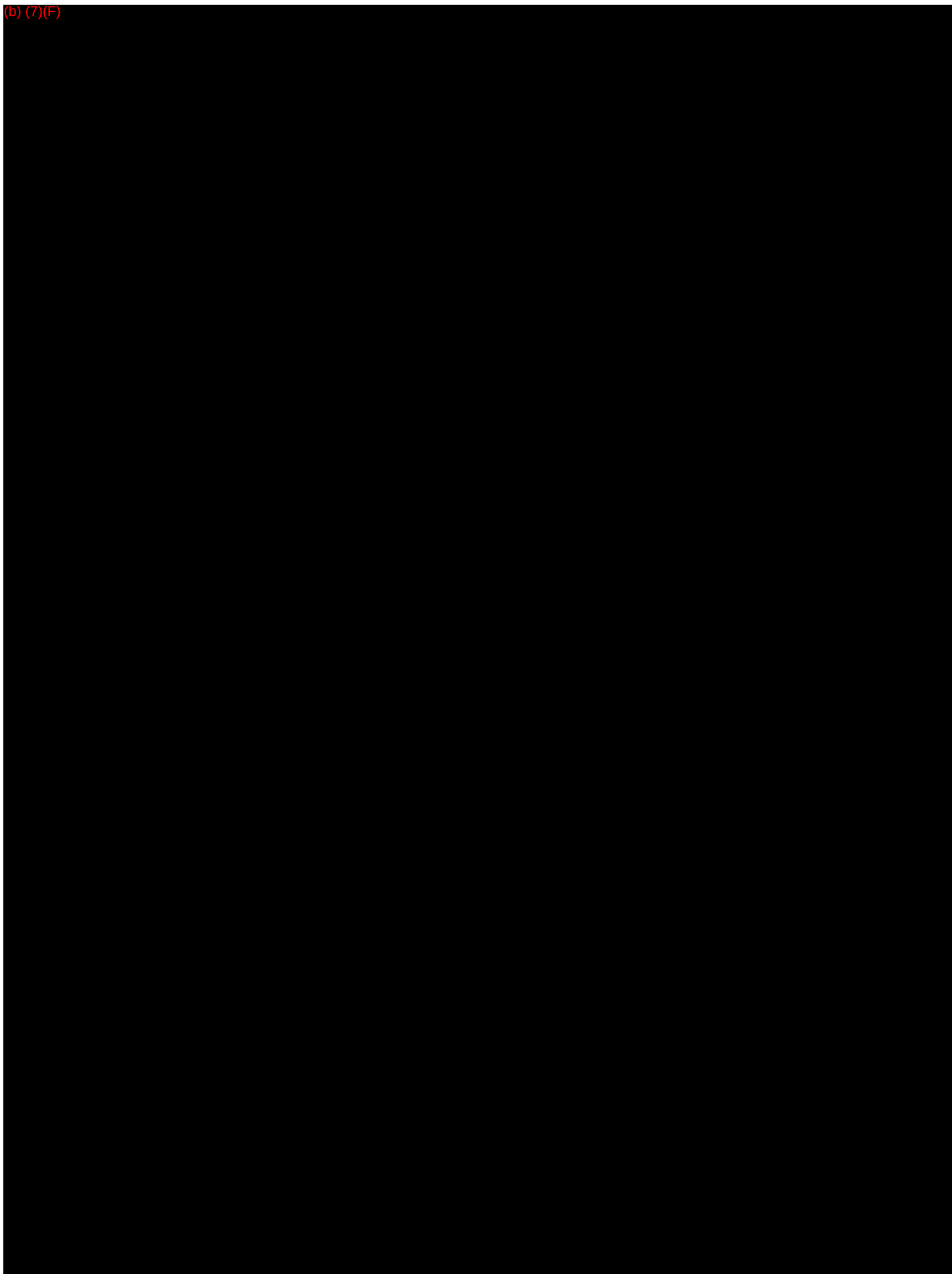
US - HAZARD IDENTIFICATION TANKS UNDERGROUND STORAGE TANKS <i>(Tank = any container that stores oil)</i>										
Tank Number	Substance Stored <i>(Oil & Haz. Substance)</i>	Average Quantity Stored (Gallons)	Maximum Capacity (Gallons)	Tank Type <i>(ie. floating roof, fixed roof, etc.)</i>	Year Built	Potential Failure	Rate of Flow (Gallons)	Failure / Cause <i>(Record cause and date of any Tank failure which has resulted in a loss of tank contents)</i>	Direction of Flow	Secondary Containment Capacity (Gallons)
			There are no Underground Storage Tanks at this Facility							

Figure H-4 United States

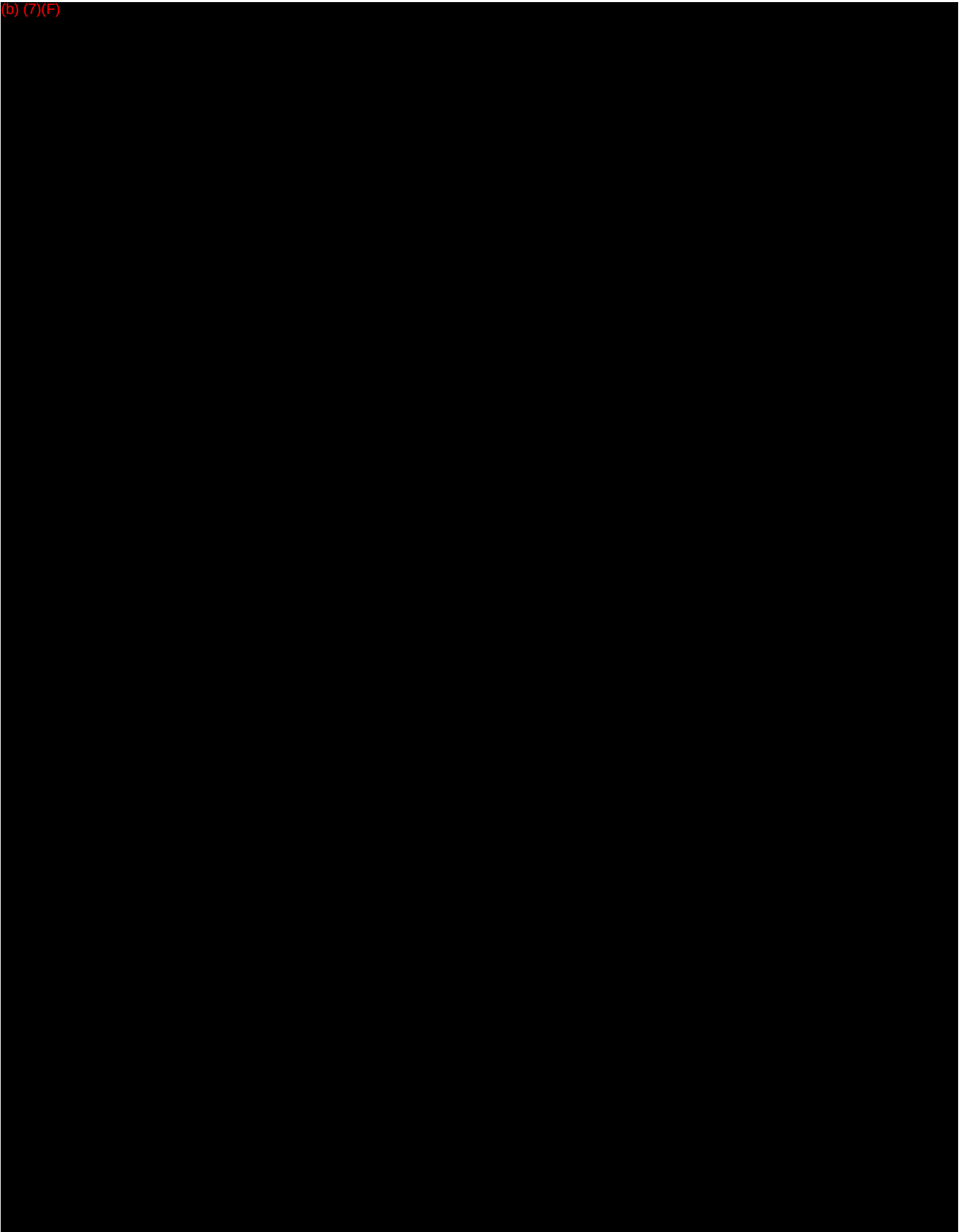
This page reserved for Hydrant and Drainage Diagrams

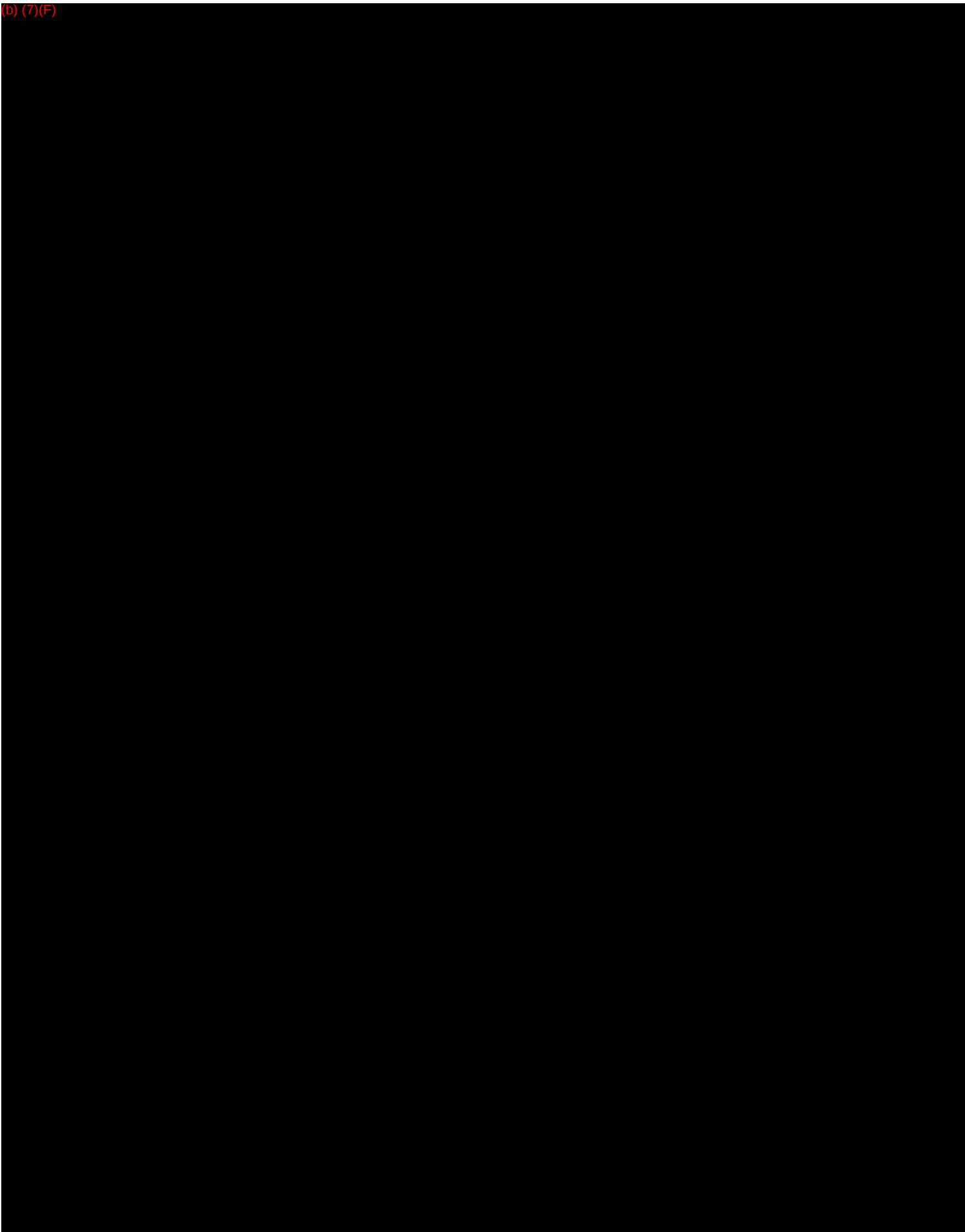
D4923 – Hydrants -	South Portland Tank Farm
D4924 – Hydrants -	South Portland Terminal
B1154 – Drainage Diagram –	South Portland Tank Farm
B1153 – Drainage Diagram –	South Portland Terminal





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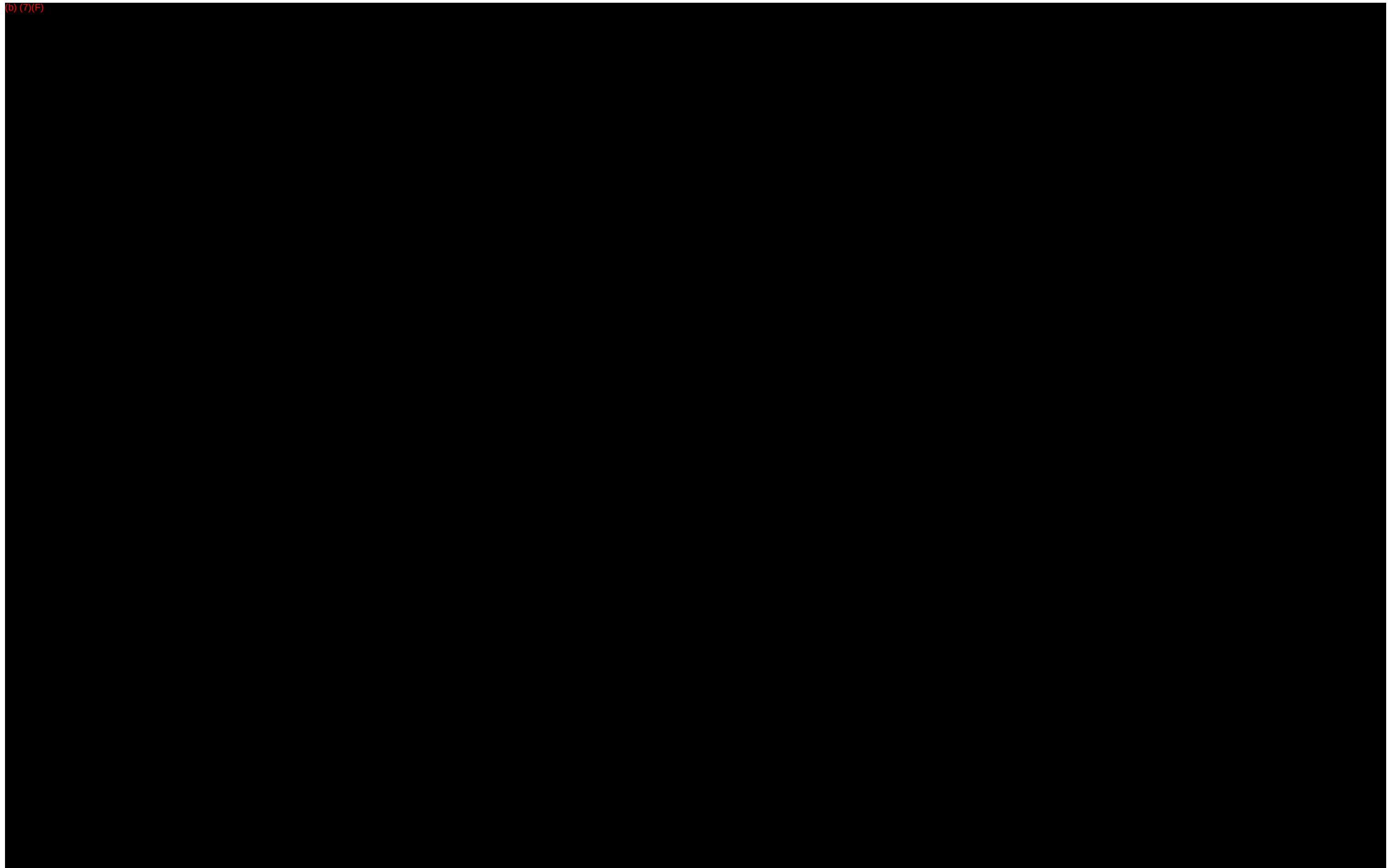




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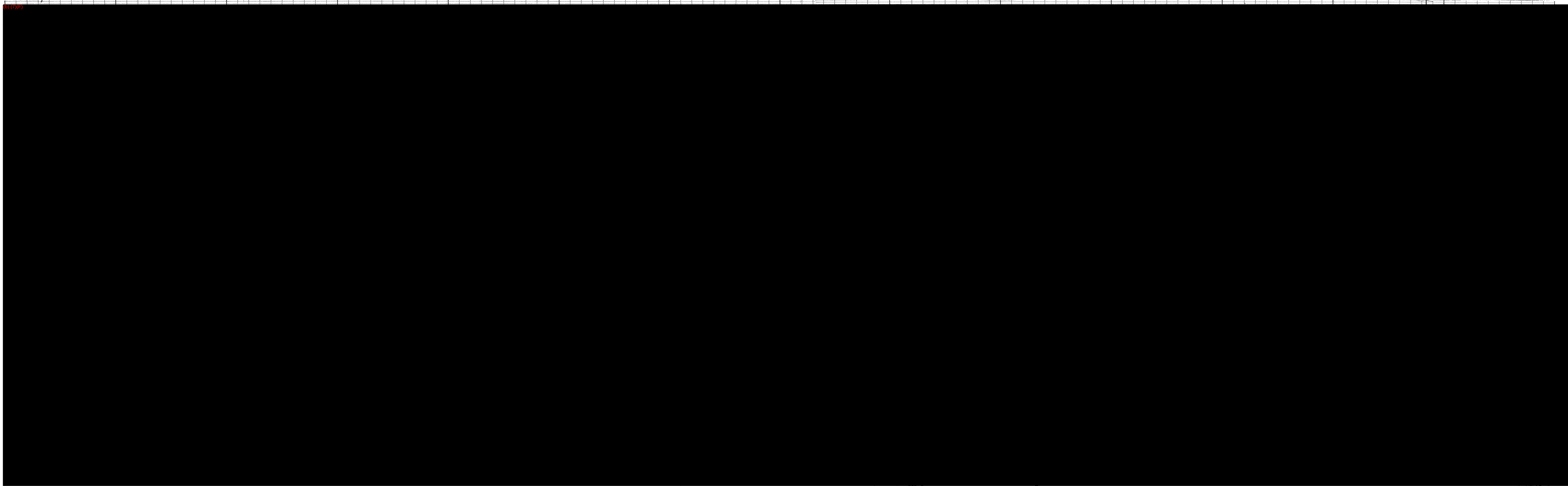
APPENDIX I

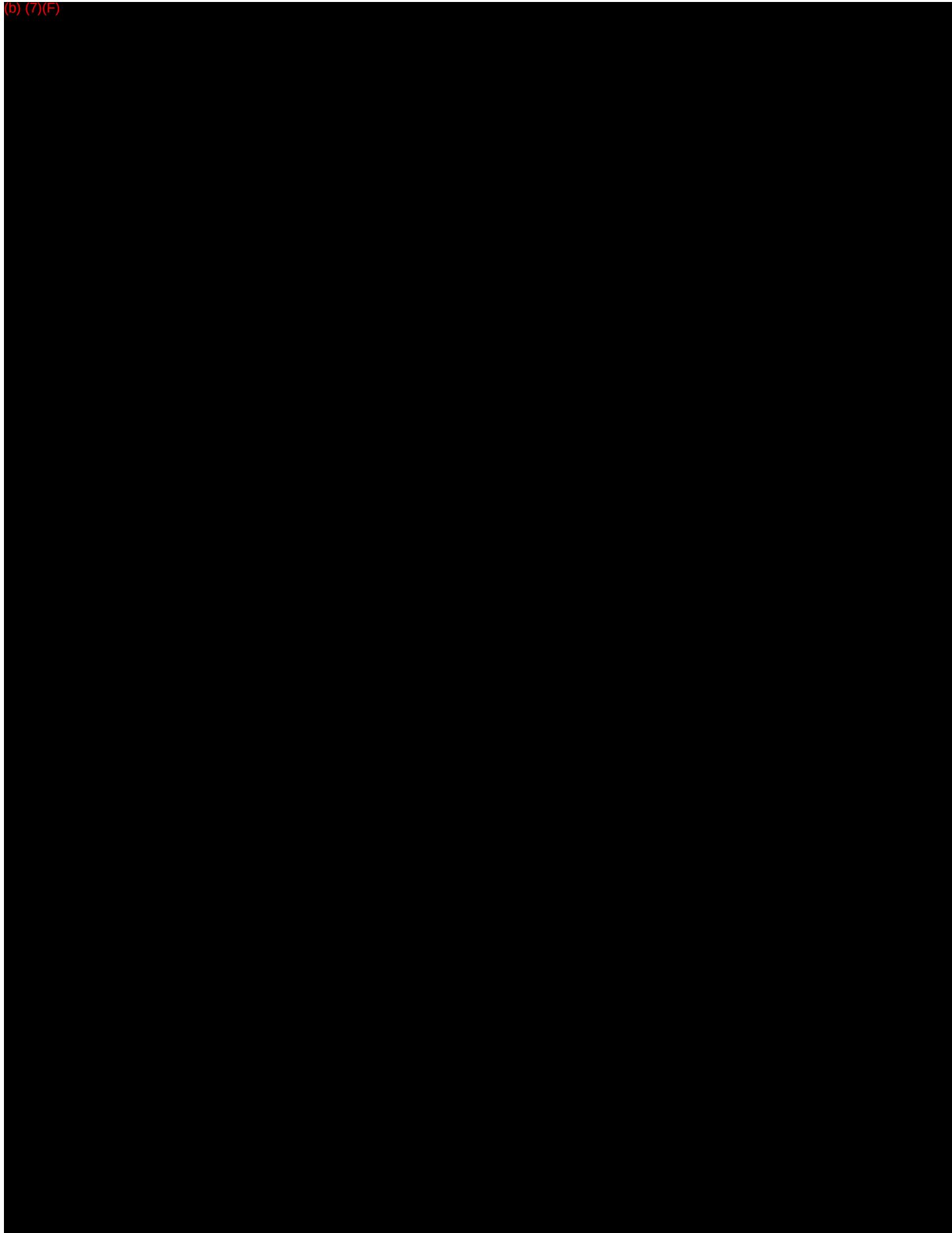
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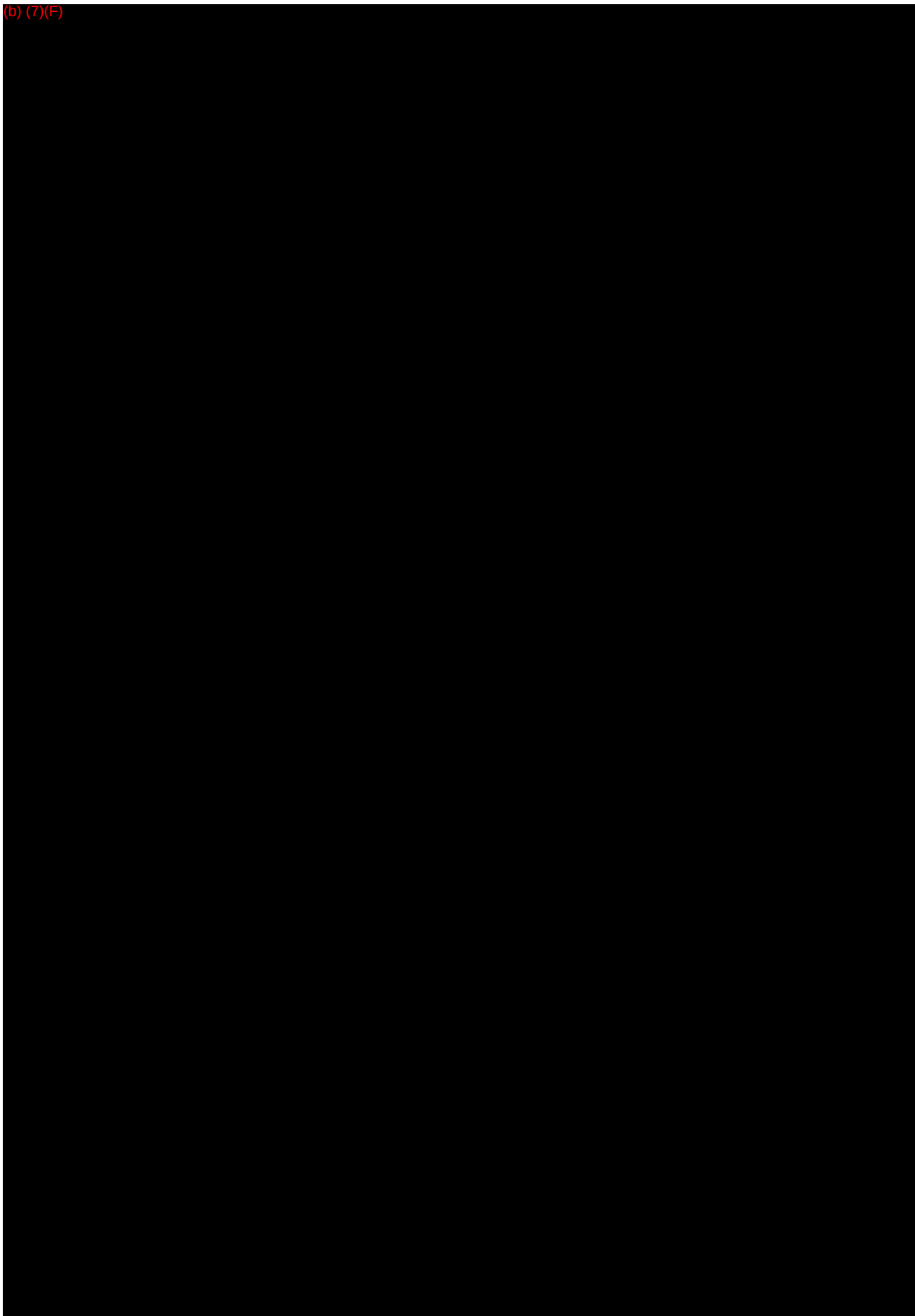
Figure I-1

PMPL Main Line Profile Drawing - J 162



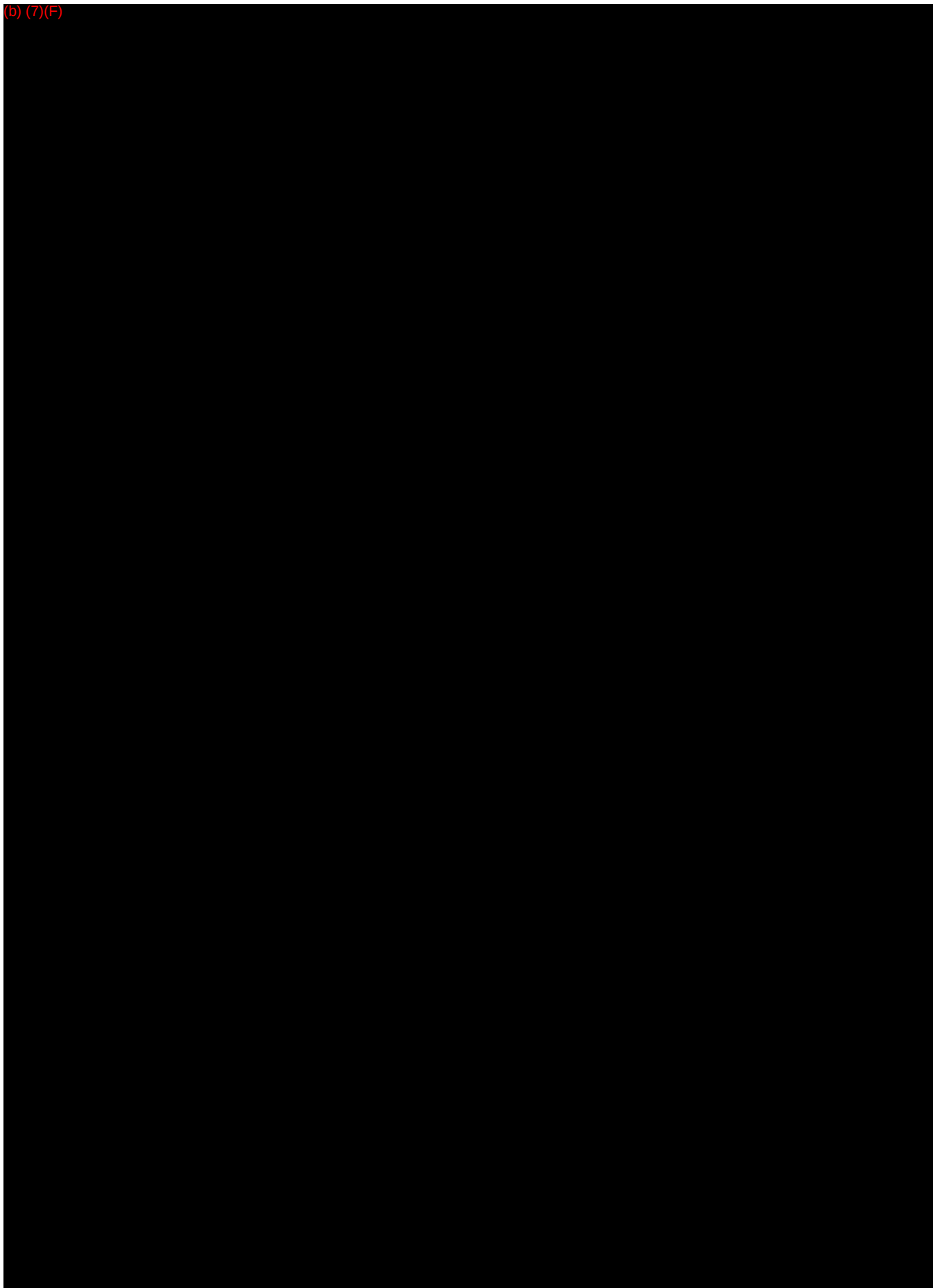


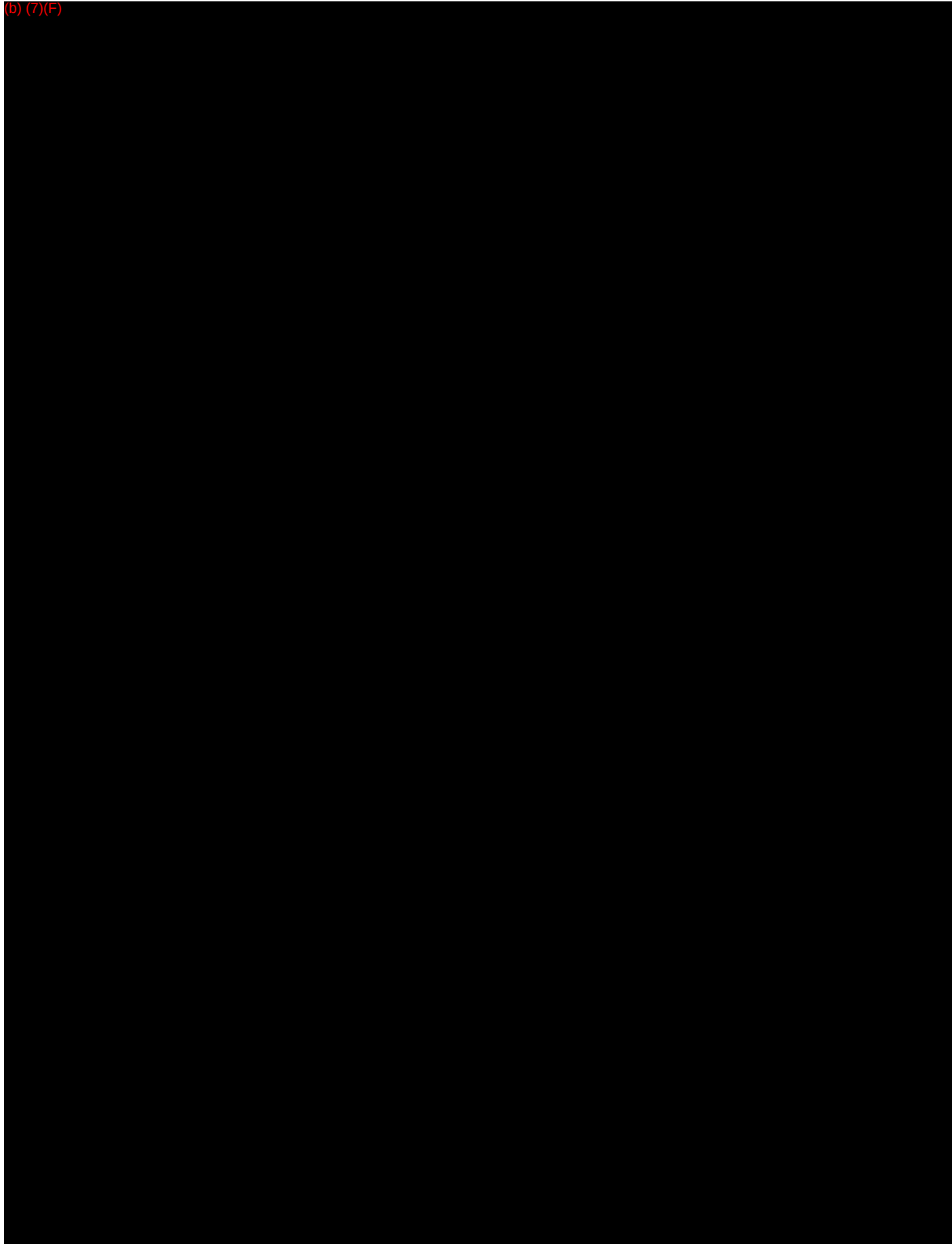
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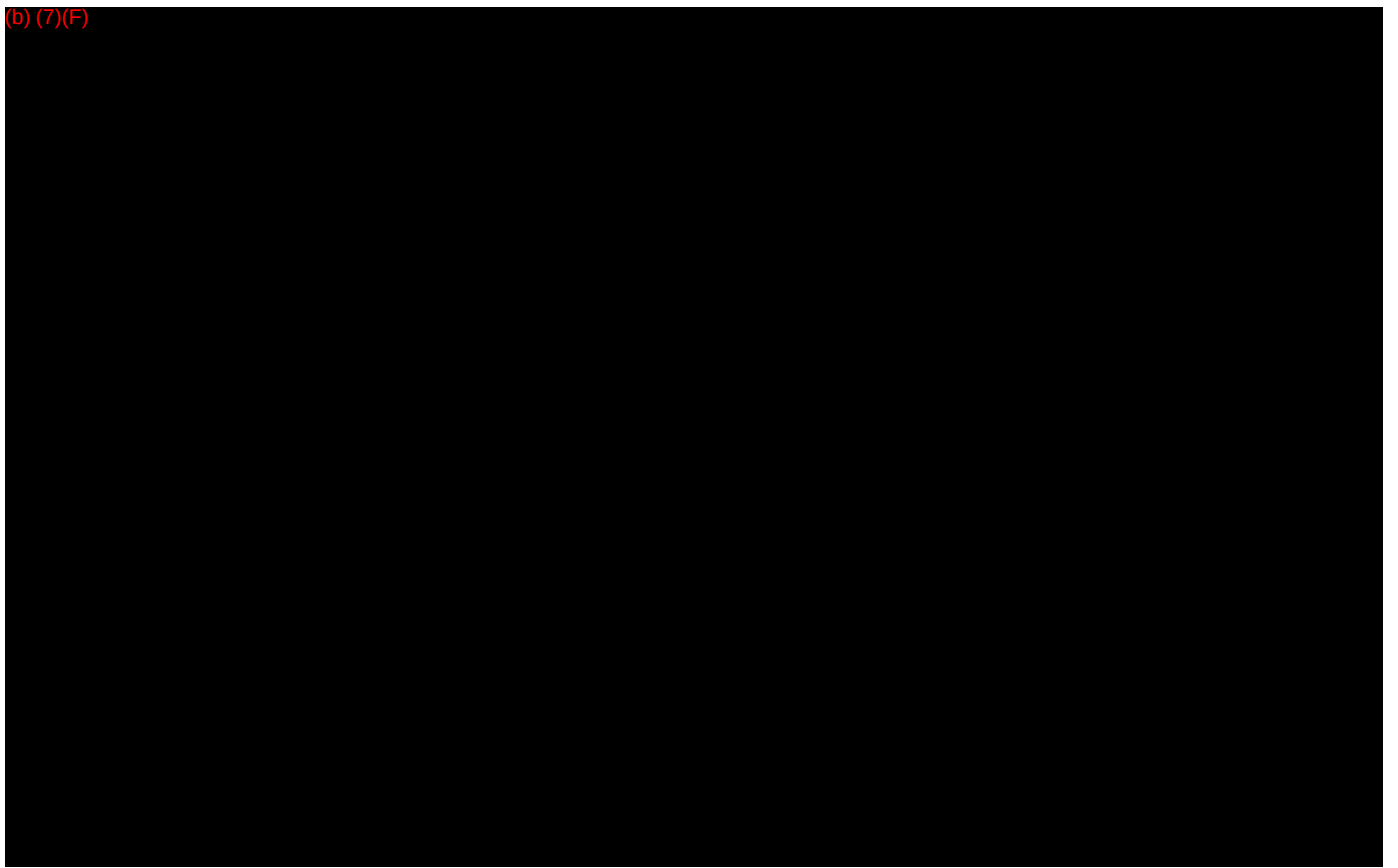
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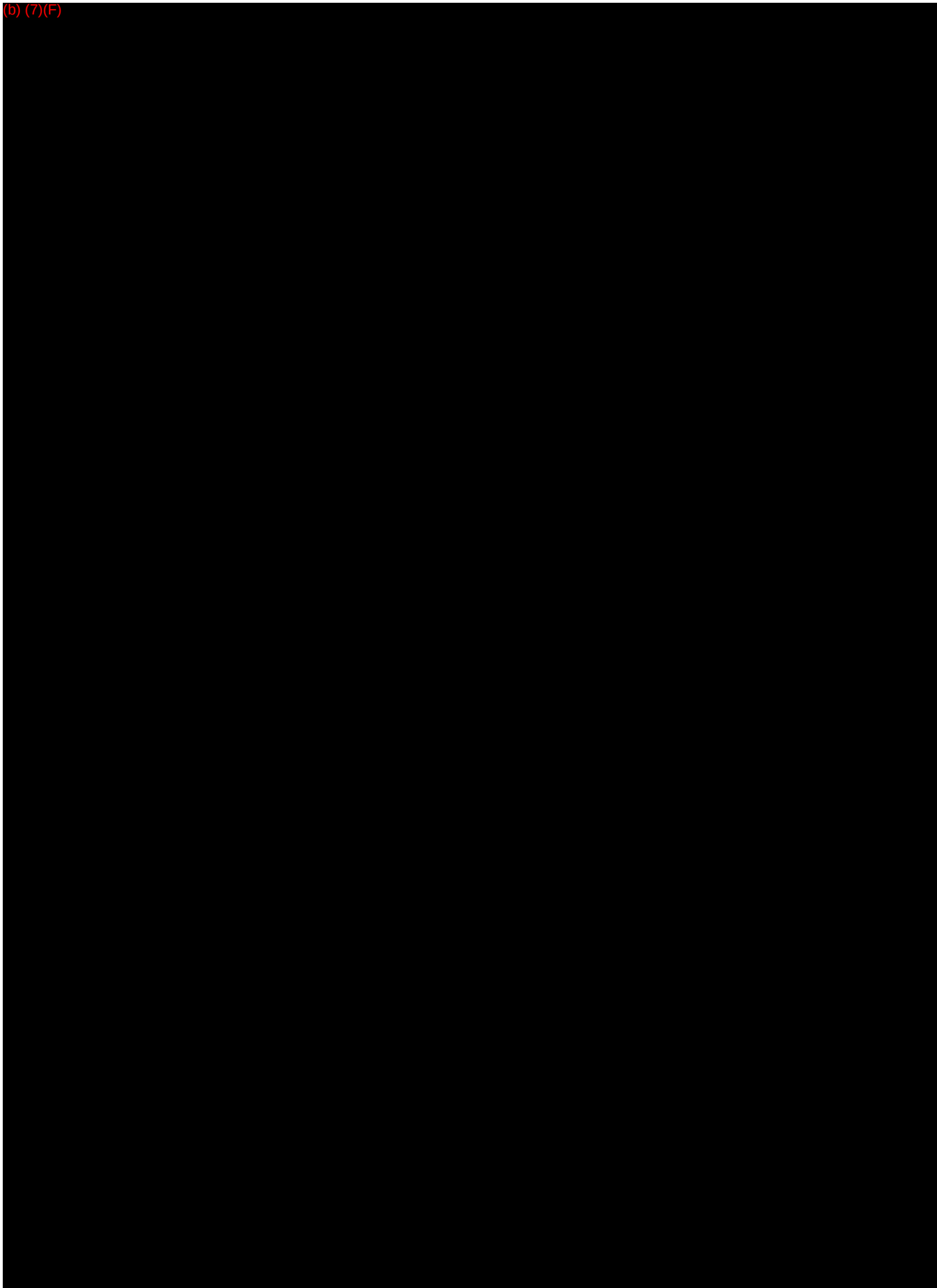


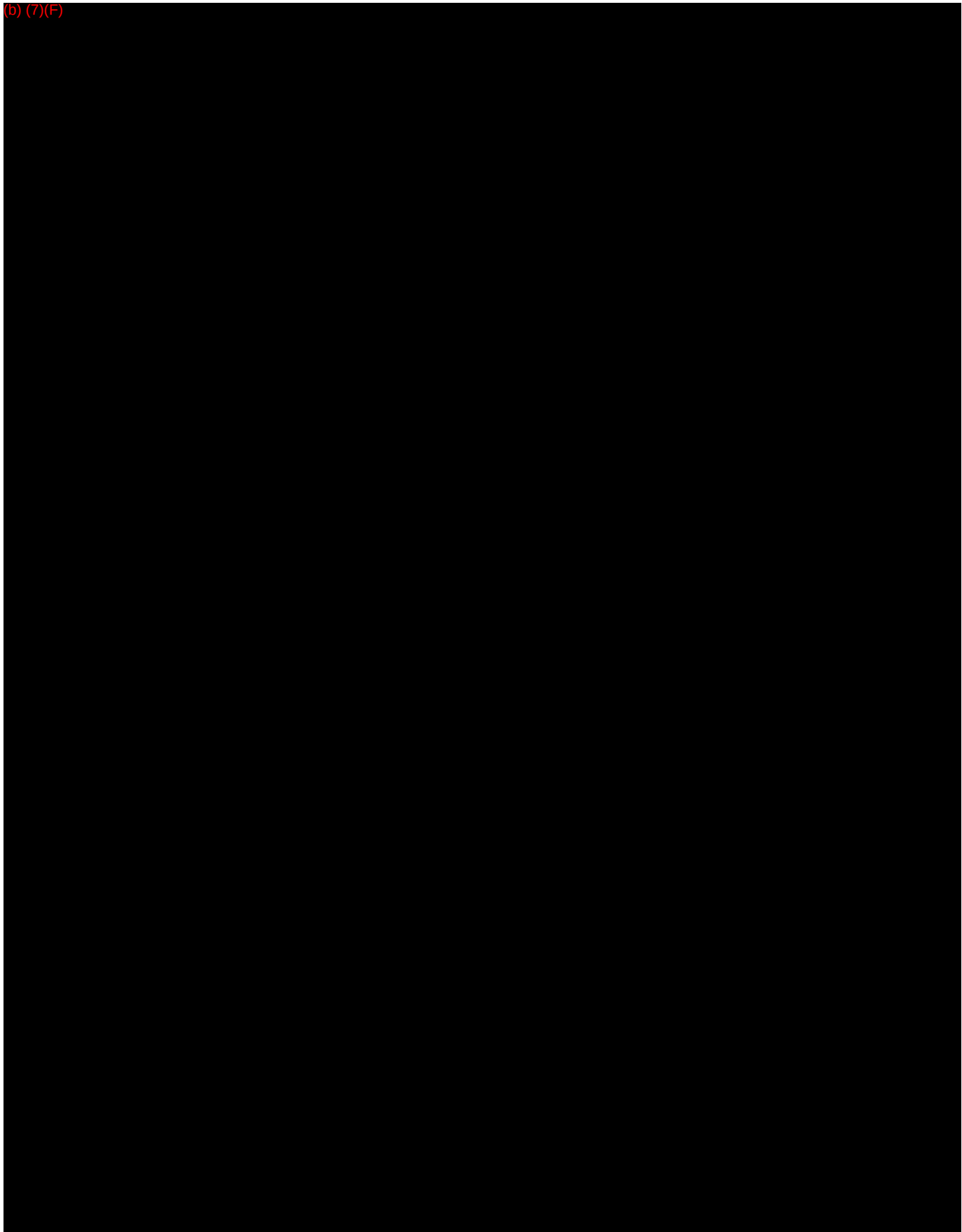


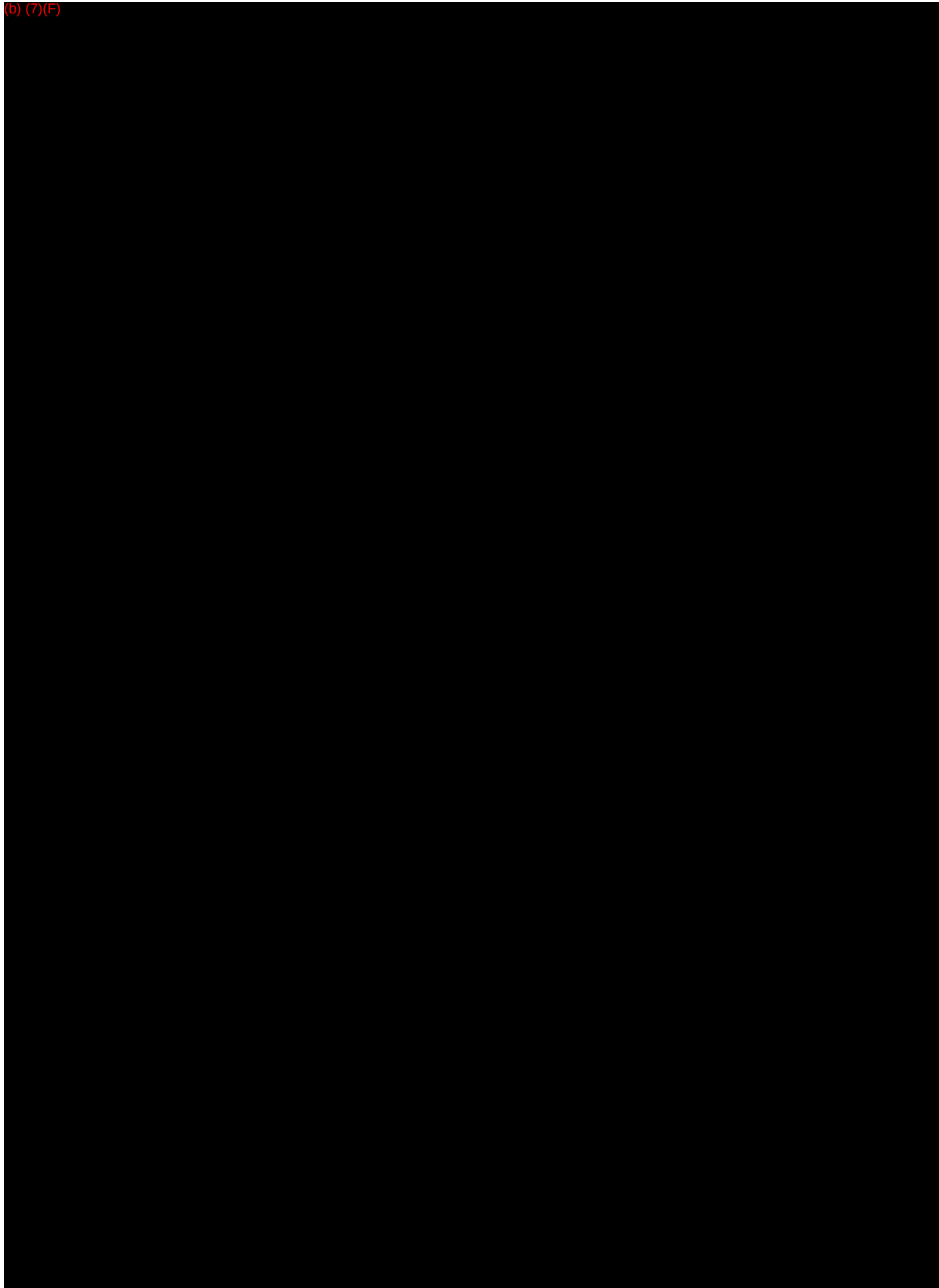


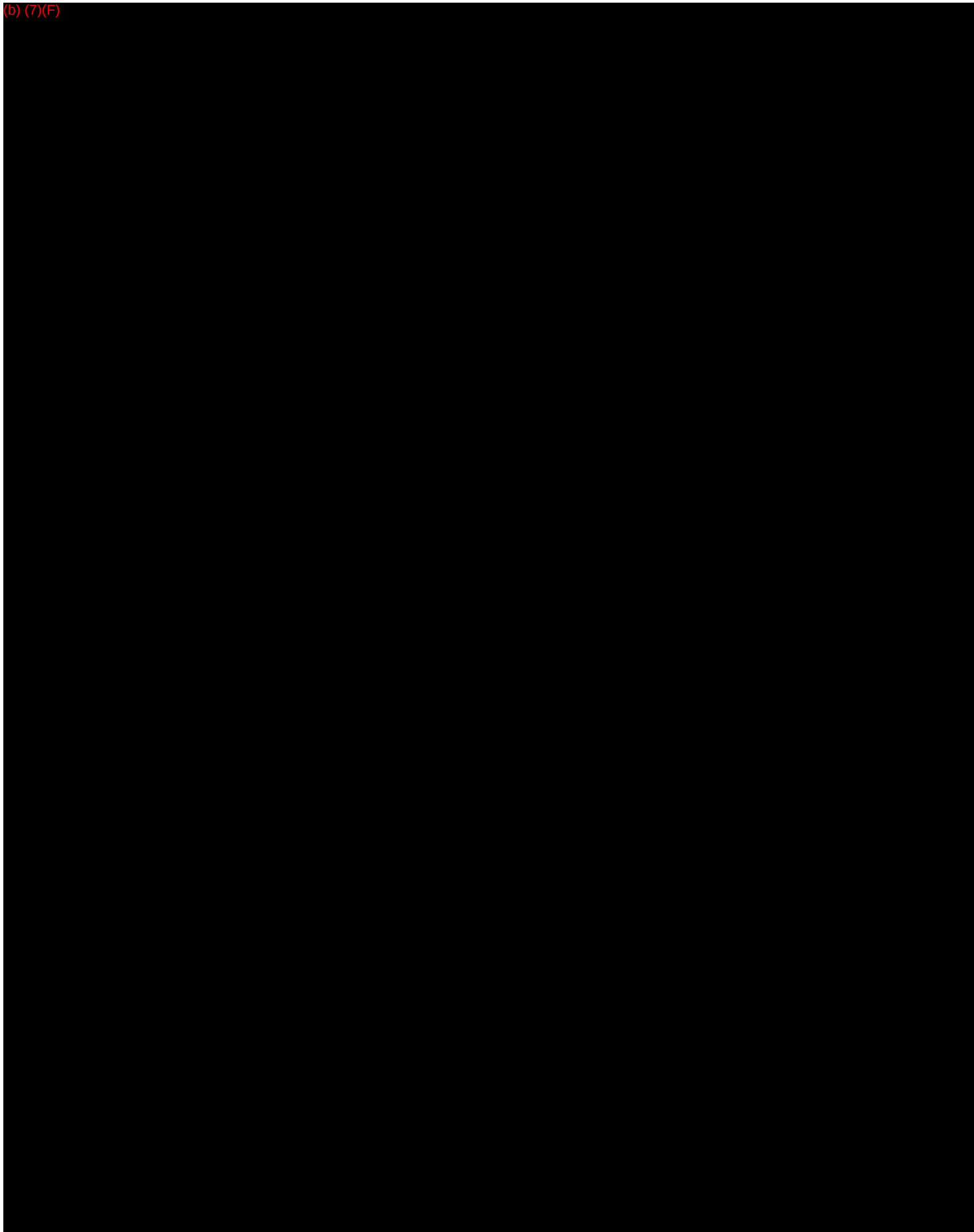
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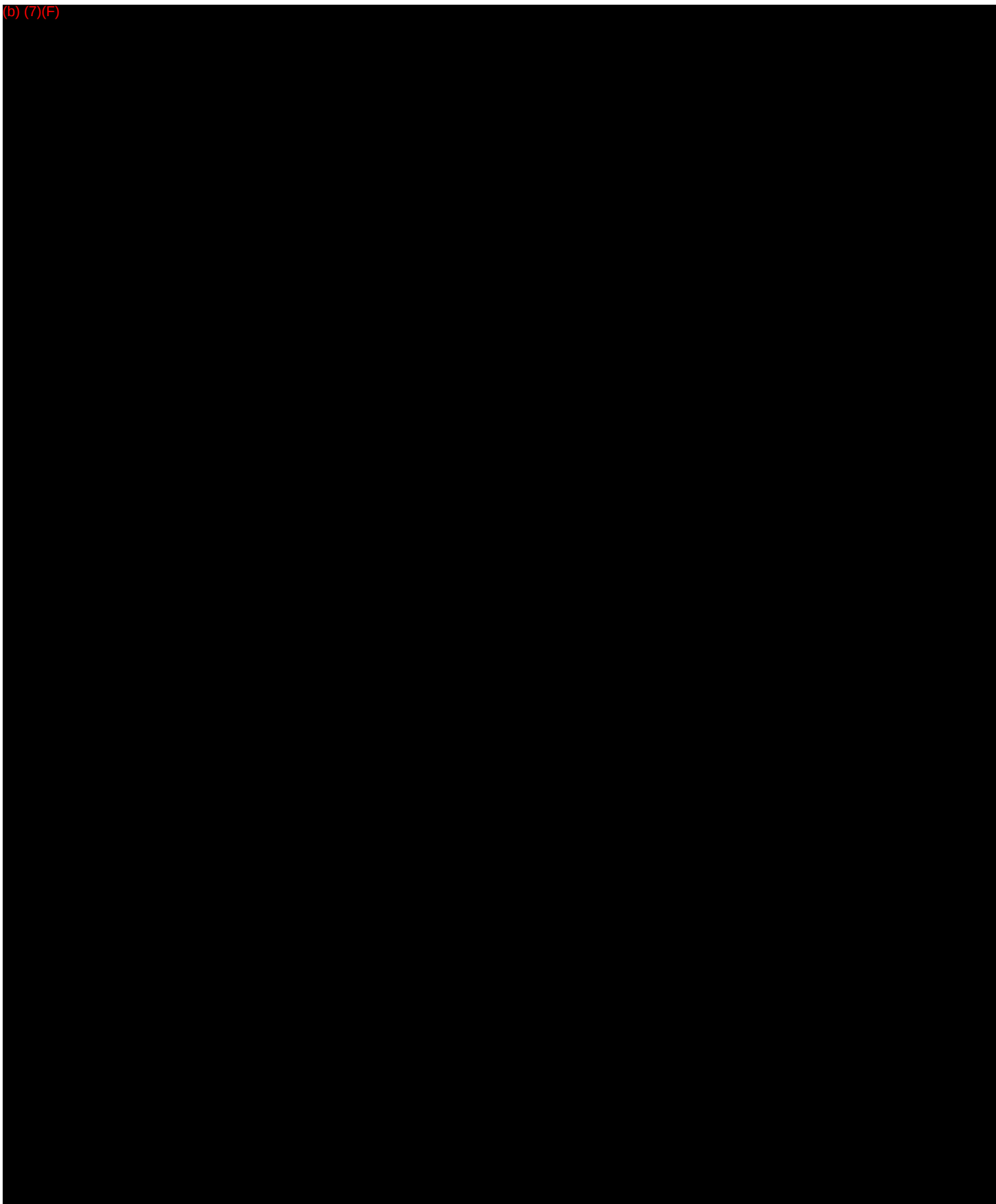




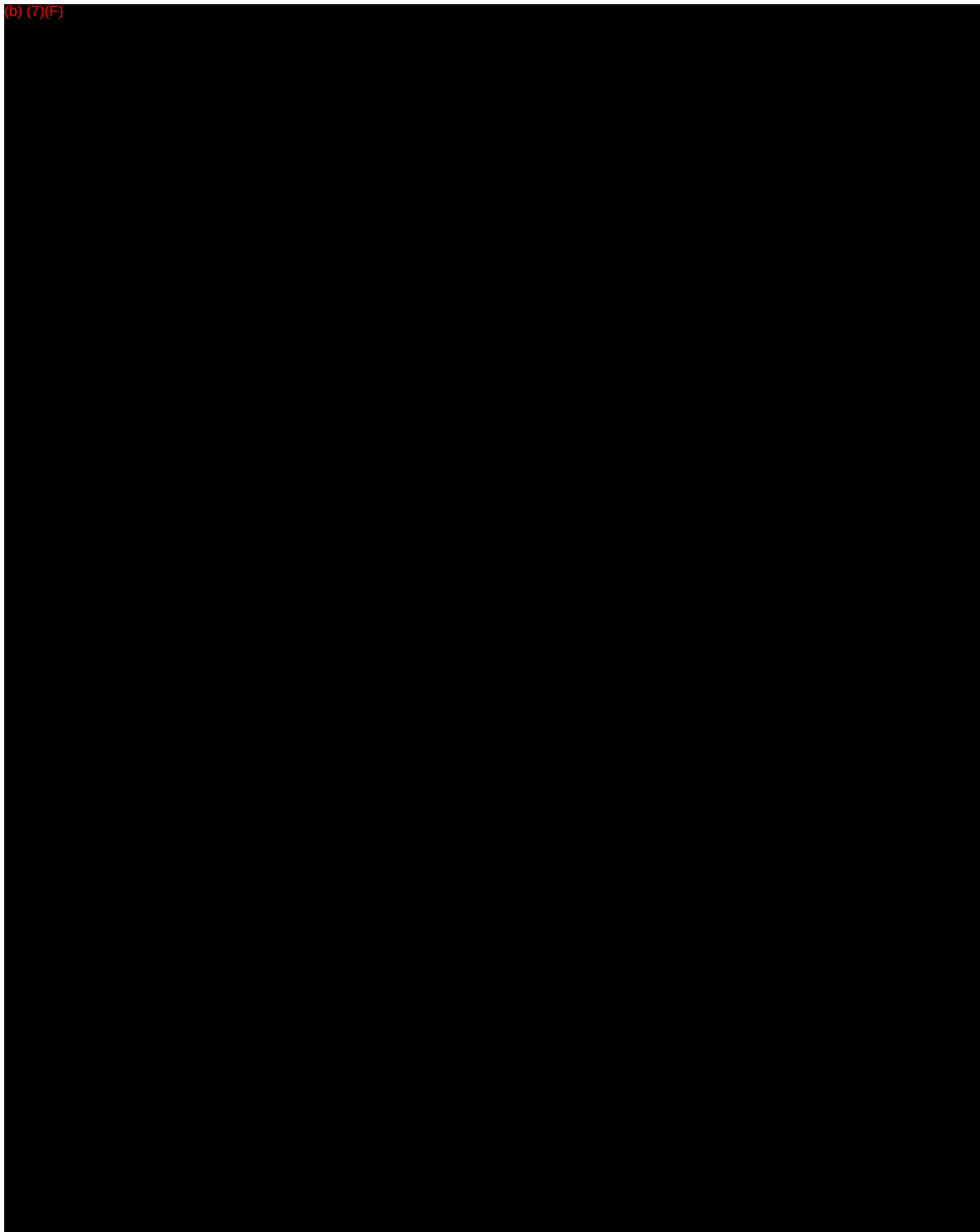


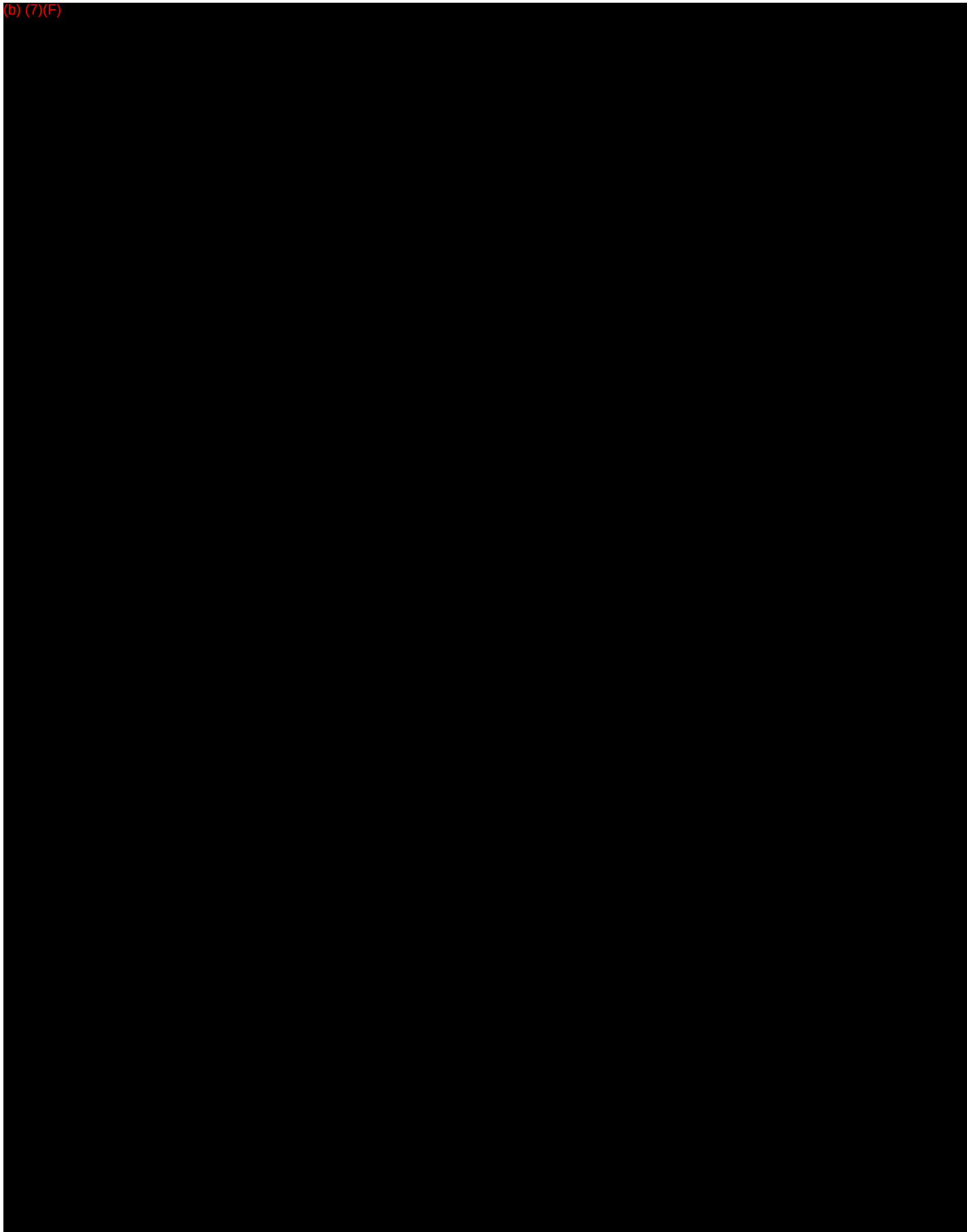






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APPENDIX J

US NATIONAL RESPONSE SYSTEM

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NATIONAL RESPONSE SYSTEM

National Contingency Plan

The National Oil and Hazardous Substances Pollution Contingency Plan, more commonly called the National Contingency Plan or NCP, is the federal government's blueprint for responding to both oil spills and hazardous substance releases. The National Contingency Plan is the result of our country's efforts to develop a national response capability and promote overall coordination among the hierarchy of responders and contingency plans.

The first National Contingency Plan was developed and published in 1968. Congress has broadened the scope of the National Contingency Plan over the years. In June 1970, this plan was incorporated as part of the Code of Federal Regulations and applied to all navigable waters and adjoining shorelines of the United States. As required by the Clean Water Act of 1972, the NCP was revised the following year to include a framework for responding to hazardous substance spills as well as oil discharges. Following the passage of Superfund legislation in 1980, the NCP was broadened to cover releases at hazardous waste sites requiring emergency removal actions. Over the years, additional revisions have been made to the NCP to keep pace with the enactment of legislation.

To ensure adequate preplanning and provisions for responding to oil spills, the National Contingency Plan established the National Response Center, the National Response Team, the Regional Response Center, Regional Response Teams and the On-Scene Coordinator (Figure J1.1).

National Response Team (NRT)

National planning and coordination for oil spill response is the responsibility of the National Response Team (NRT). The NRT is responsible for evaluating methods for responding to oil spills and hazardous substances spills, and recommending changes to the National Contingency Plan. The NRT also develops procedures to coordinate activities for federal, state and local governments, and private response organizations.

The NRT consists of representatives from each of the agencies shown in Figure J1.2. Normally, the NRT is chaired by the EPA representative while the USCG representative serves as the vice-chairman. If it is activated for spills within the coastal zone of the United States, the USCG representative will hold the chair.

The NRT can be activated when an oil spill exceeds the capability of the Regional Response Team in which it occurs, crosses national boundaries, or presents a significant threat to a population, national policy, property, or national resources; or when requested by any NRT member.

Once activated, the NRT may:

1. Monitor the spill, evaluate reports from the On-Scene Coordinator (OSC), and recommend appropriate actions for abating the spill.
2. Request oil spill response resources from federal, state, and local governments or private agencies.
3. Coordinate the supply of equipment, personnel, or technical advice to the affected region from other regions or districts.

FIGURE J-1.1

NATIONAL RESPONSE SYSTEM ORGANIZATION

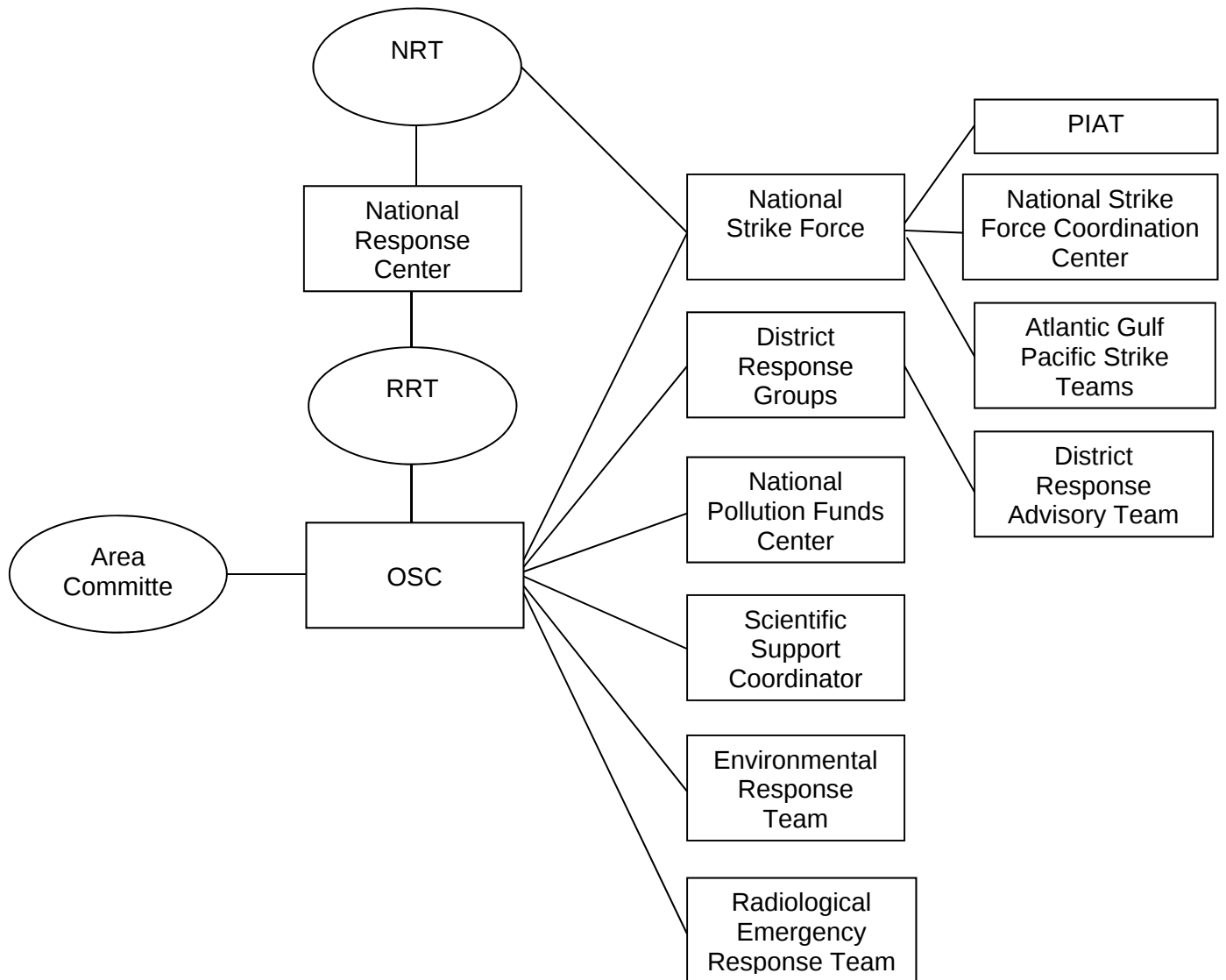
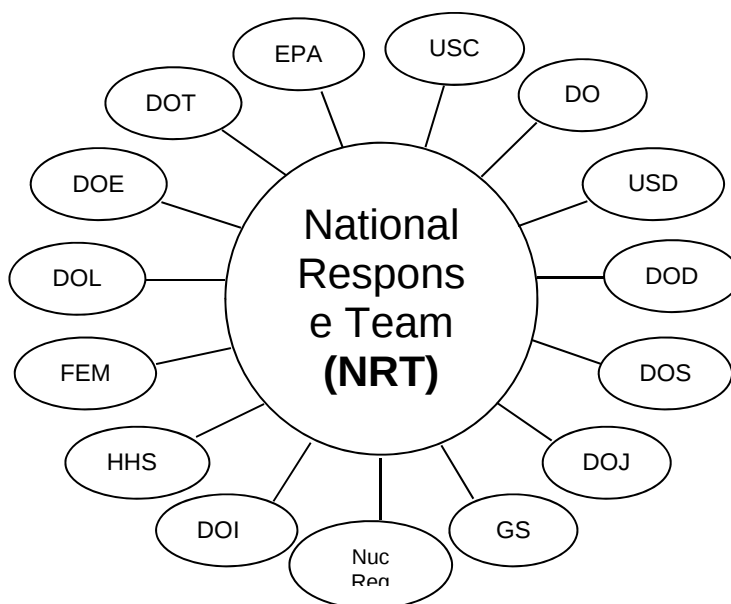


FIGURE J-1.2

FEDERAL REPRESENTATION ON NATIONAL RESPONSE TEAM



DOC	Department of Commerce Scientific expertise from NOAA for marine mammals & oil spill response	DOT	Department of Transportation Expertise on all modes of transporting oil & hazardous substances
DOD	Department of Defense Oil spill response equipment, ship salvage, and boarding & diving	EPA	Environmental Protection Agency Information on environmental impact of spills & provide scientific support coordination
DOE	Department of Energy Removal & disposal of radioactive contamination	FEMA	Federal Emergency Management Agency Coordinate civil emergency planning & mitigation efforts
DOH	Department of Health Assess health hazards associated with response operation & recommend steps for worker & public safety	GSA	General Services Administration Provides logistical and telecommunications support to federal agencies
DOI	Department of Interior Expertise on fish & wildlife	HHS	Department of Health and Human Services Assists with the assessment, preservation, and protection of human health and helps ensure the availability of essential human services
DOJ	Department of Justice Answer legal questions on spills & response actions	USCG	United States Coast Guard Establishes spill contingency planning requirements for vessels and facilities, and OSC responsibilities for wasteful zone
DOL	Department of Labor Expertise needed to minimize exposure to hazardous material during response operation	USDA	United States Department of Agriculture Input on the effect of soil contamination by hazardous and oil spills

National Response Center (NRC)

The National Response Center (NRC) receives and distributes reports regarding oil and hazardous substances spills. It is located at the USCG Headquarters in Washington, D.C., and can be contacted by dialing the phone number listed in Figure 2.5.

Oil spills must be reported to the National Response Center (See External Notifications for reporting criteria). If a direct report to the National Response Center is not practical, reports may be made to the USCG or EPA predesignated OSC for the geographic area where the spill occurs. If it is not possible to immediately notify the National Response Center or the predesignated OSC, reports may be made immediately to the nearest USCG unit provided that the spiller notifies the NRC as soon as possible. Once the NRC receives notification of a spill, it will promptly notify the appropriate OSC and authorize him to proceed with the appropriate response actions as outlined in the National Contingency Plan.

Regional Response Team (RRT)

The Regional Response Team (RRT) develops oil spill response contingency plans for specific regions of the United States. This team is staffed by representatives from the agencies shown in Figure J1.2 and may include representatives of local governments as agreed upon by the specific State in which the RRT is operative.

The RRT is jointly chaired by the EPA and USCG representatives. See Figures J1.3 and J1.4 for the EPA Regions and the USCG Districts respectively. When activated for inland spills, the EPA representative will be the chairperson. If activated for offshore spills, the USCG representative shall be the chairperson.

The RRT includes two (2) components: a standing team and an incident-specific team. The standing team:

1. reviews regional and local responses to various spills, recommends revisions to the National Contingency Plan, encourages state and local communities to improve their preparedness for oil spill response activities, and reviews actions performed by the On-Scene Coordinator.
2. performs advanced planning for dispersants, surface collection agents, burning agents, biological additives, or other chemical agents that are authorized by the National Contingency Plan.

The incident-specific response team can be activated if an oil spill exceeds the response capability available to the On-Scene Coordinator, if the spill crosses regional boundaries, or if a spill presents a substantial threat to human health and welfare, the environment, or significant amounts of property. It can be activated during a pollution emergency when requested by the Federal On-Scene Coordinator.

The incident-specific response team may:

1. monitor and evaluate reports from the On-Scene Coordinator and recommend specific actions for improving the response operation.

Regional Response Team (Cont'd)

2. request federal, state or local governments, or private organizations to provide resources for responding to the spill.
3. help the On-Scene Coordinator prepare information releases for the public.
4. recommend that a different OSC be designated for the response operation.
5. provide information that will assist the OSC to make timely and appropriate decisions for the response operations.

Federal On-Scene Coordinators

Federal On-Scene Coordinators (FOSC) are predesignated by the U.S. Coast Guard or Environmental Protection Agency. The FOSC collects pertinent facts about the spill, its source and cause, and the parties responsible for the spill. The FOSC also determines the potential impact the spill could have on human health and welfare, and whether it presents a significant threat to the environment. In addition, the FOSC establishes priorities for minimizing the impact of oil spills.

If the spiller assumes responsibility for the spill, the FOSC will monitor the clean-up activity. Otherwise, the FOSC will initiate the response operation and hire commercial contractors as required to clean up the spill as quickly as possible. If commercial resources are not available, the FOSC will deploy federal resources. Reimbursement of any federal funds will be sought from the spiller expenditures after the response. Federal personnel and equipment can be obtained from the National Strike Force and the U.S. Navy.

When a spill report is received, the FOSC will:

1. notify the Regional Response Team (RRT) and National Response Center (NRC).
2. investigate the report to determine pertinent information such as the threat posed to public health and welfare, or the environment.
3. officially classify the size of the discharge and determine the course of action to be followed.
4. determine whether the spiller is properly carrying out the clean-up operation.
5. determine whether the State or local government has the capability to carry out response actions and if a contract or cooperative agreement has been established with the appropriate Fund Administrator for this purpose.
6. notify the Regional Response Team and the trustees of the affected natural resources in accordance with the applicable regional plan.

Within 60 days after a major oil spill, the FOSC shall submit to the RRT a complete report on the response operation and the actions taken. A copy of this report will be submitted to the National Response Team. The format for this report is provided in the National Contingency Plan.

On-Scene Coordinators (Cont'd)

Each FOSC is responsible for developing and updating Area Contingency Plans. Each plan should be a multi-agency effort involving all agencies that would have a role in the local response effort.

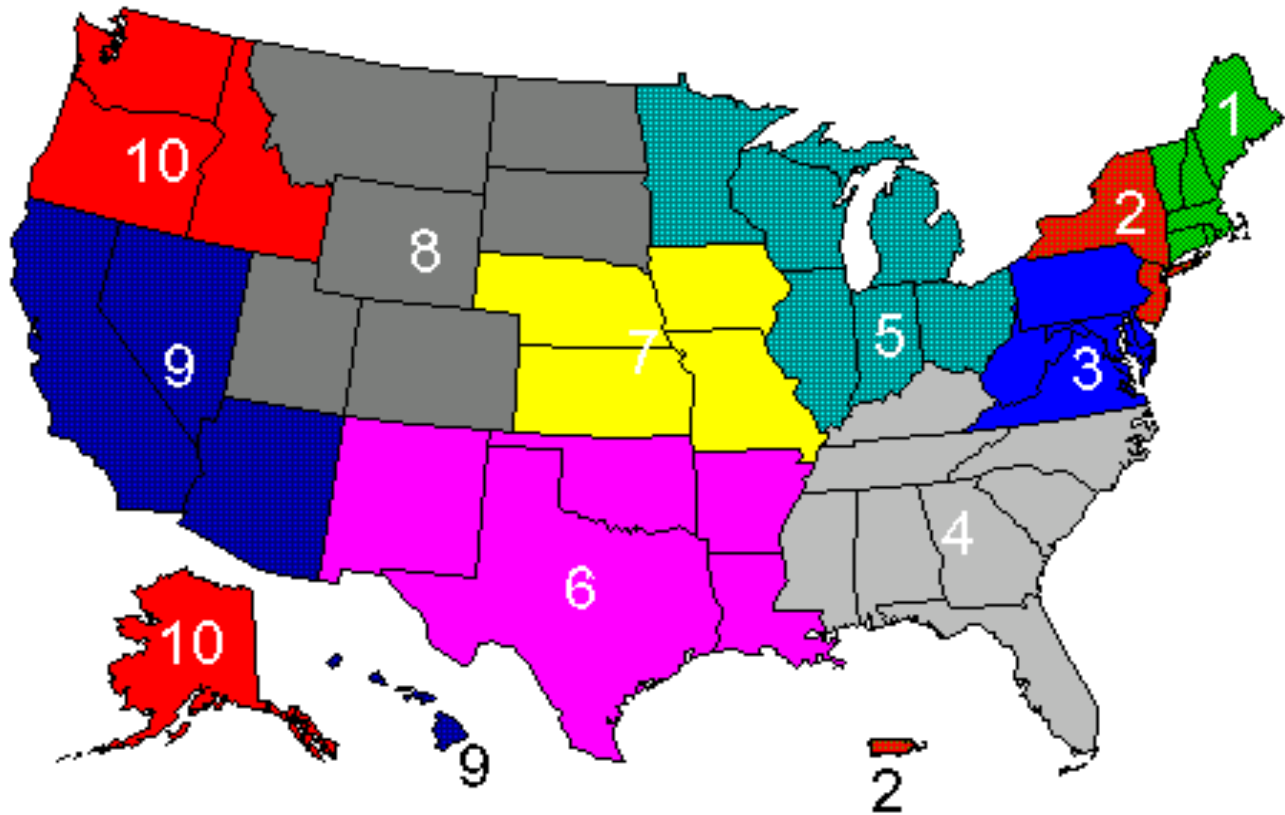
National Strike Force (NSF)

The National Strike Force (NSF) was formed in 1973 after the U.S. Coast Guard was charged with oversight and responsibilities for offshore oil spills under the Federal Water Pollution Control Act. The NSF consists of the Pacific, Gulf and the Atlantic Area Strike Teams. These teams provide experienced personnel and equipment necessary for assisting the FOSC in responding to spills in U.S. waters.

The NSF is always on call and maintains a stock of specialized equipment for deployment anywhere in the nation and, in some cases, overseas. This equipment includes open water oil containment and recovery systems, high capacity pumps for transferring oil and chemicals, and protective clothing for working with hazardous materials. Most of this equipment is designed to fit into Coast Guard C-130 cargo planes or load onto flatbed trucks for fast response.

FIGURE J-1.3

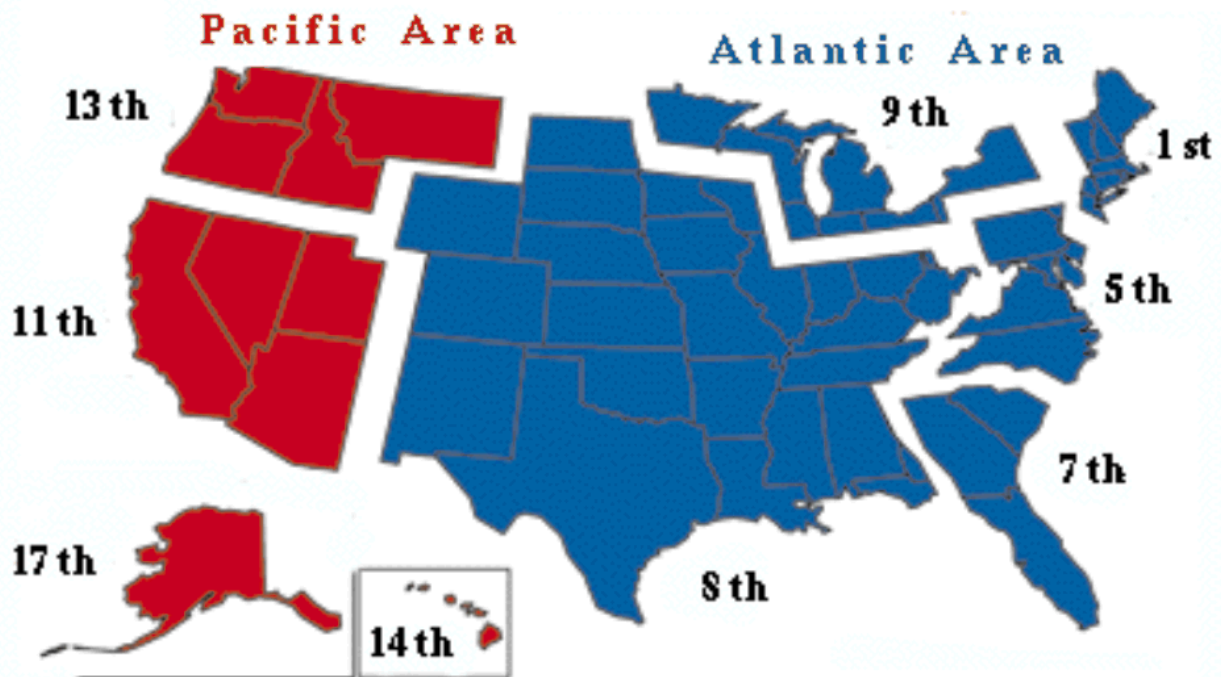
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL OFFICES



EPA Region 1, Office John F. Kennedy Federal Bldg. Boston, MA 02203	EPA Region 2 Office 26 Federal Plaza New York, NY 10278	EPA Region 3 Office 1650 Arch Street Philadelphia, PA 19103-2029
EPA Region 4 Office 61 Forsythe, 11 th Floor Atlanta, GA 30303	EPA Region 5 Office 77 West Jackson Blvd. Chicago, IL 60604	EPA Region 6 Office 1445 Ross Avenue Dallas, TX 75202
EPA Region 7 Office 726 Minnesota Avenue Kansas City, KS 66101	EPA Region 8 Office 999 18 th Street Denver, CO 80202	EPA Region 9 Office Public Information Center 215 Fremont Street San Francisco, CA 94105
EPA Region 10 Office 1200 6 th Avenue Seattle, WA 98101	U.S. EPA Office of Solid Waste 401 M Street SW Washington, DC 20460-5101	RCRA / Superfund Hotline (800) 424-9346 (in Washington, DC, (202) 879-2693)

FIGURE J-1.4

U.S. COAST GUARD (USCG) DISTRICTS



1 st Coast Guard District Battery Park Bldg., Rm. 212 1 S. Street New York, NY 10004-5099 (212) 668-7114	11 th Coast Guard District Coast Guard Island Building 51-1 Alameda, CA 94501-5100 (510) 437-3700
5 th Coast Guard District Federal Building 431 Crawford Street Portsmouth, VA 23704-5004 (757) 398-6272	13 th Coast Guard District 915 2 nd Avenue, Suite #3352 Seattle, WA 98174-1067 (206) 220-7237
7 th Coast Guard District Federal Building 909 S.E. 1 st Ave., Room #954 Miami, FL 33131-3050 (305) 415-6683	14 th Coast Guard District PJKK Federal Building 300 Ala Moana Blvd. Honolulu, HI 96850-4982 (808) 541-2121
8 th Coast Guard District Hale Boggs Federal Building 501 Magazine Street New Orleans, LA 70130-3396 (504) 589-6198	17 th Coast Guard District P.O. Box 25517 Juneau, AK 99802 (907) 463-2025
9 th Coast Guard District 1240 E. 9 th Street Cleveland, OH 44199-2060 (216) 902-6020	

* Note: These addresses may differ from those listed on the Distribution List.

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APPENDIX K

MISCELLANEOUS FORMS

Page

PMPL System Wide Forms

Emergency Response Forms

Emergency / Spill Reporting Form and Checklist (Figure 2.1)	K-3
Telephone Bomb Threat Checklist (Figure 3.11)	K-5
NIMS ICS Forms	K-7
PMPL Media Inquiry Log	K-9

Documentation

Qualified Individual (QI) Notification Exercise - Internal Exercise Documentation	K- 11
Response Team Tabletop Exercise - Internal Exercise Documentation	K- 12
Equipment Deployment Exercise - Internal Exercise Documentation	K- 14
Revision Record	K-16

United States Specific Forms

Reporting Forms

DOT Form No. 7000-1	K-20
Maine DEP Initial Spill Information Report Form.....	K-21
Oil Discharge Report to the State of Maine	K-22
SPCC Spill Report.....	K-23

Documentation Forms

Discharge Prevention Meeting Log	K-24
Brittle Fracture Evaluation	K-25
IMI Inspection Summary	K-26
PREP Exercise Program Records Chart	K-31

Canada Specific Forms

Reporting Forms

Instructions	K-32
TSB Notification of an Accident / incident	K-33
NEB Detailed Incident Report Form	K-34

Documentation Forms

Ministry of Natural Resources Spill Report Log	K-38
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Forms and Exercise Documentation

File Maintenance Procedures

- Forms and exercise documentation records should be maintained in a separate file in the Facility's office filing system.
- These files must be available for presentation upon request by regulatory agency personnel.

EMERGENCY / SPILL REPORTING FORM & CHECK LIST

Date: _____

Time: _____

INCIDENT DESCRIPTION

Reporter's Full Name: _____ Position: _____
Day Phone Number: _____ Evening Phone Number: _____
Company: _____ Organization Type: _____
Facility Address: _____ Owner's Address: _____

Facility Latitude: _____ Facility Longitude: _____
Spill Location: _____
(if not at Facility) _____
Reporter's Full Name (If other than employee): _____
Day Phone Number: _____
Company: _____
Facility Address: _____

Responsible Party (If Known): _____ Organization Type: _____
Company: _____
Facility Address: _____

Telephone Number: _____
Calling for Responsible Party (Y/N): _____
Were materials discharged (Y/N)? _____ Type of Crude Spilled: _____
Source and/or cause of discharge: _____
Date: _____ Time: _____ Does it Threaten a Body of Water (Y/N)? _____
Nearest City: _____
County: _____ State: _____ Zip code: _____
Section: _____ Township: _____
Distance from City: _____ Direction from City: _____
Container Type: (Above ground /Below ground/ Unknown) Container Storage Capacity: _____
Facility Oil Storage Capacity: _____
Mile post or River Mile: _____ Closest Pump Station: _____
Material: _____

Total Quantity Released	Discharged Material	Water Impact (Yes or No)	Quantity into Water

Does Fire threaten Surrounding installations? _____ Source of Fire: _____

RESPONSE ACTION(S)

Action(s) taken to Correct, Control, or Mitigate Incident: _____

Number of Injuries: _____ Number of Fatalities: _____
Evacuation(s): _____ Number Evacuated: _____
Damage Estimate: _____
More information about impacted medium: _____

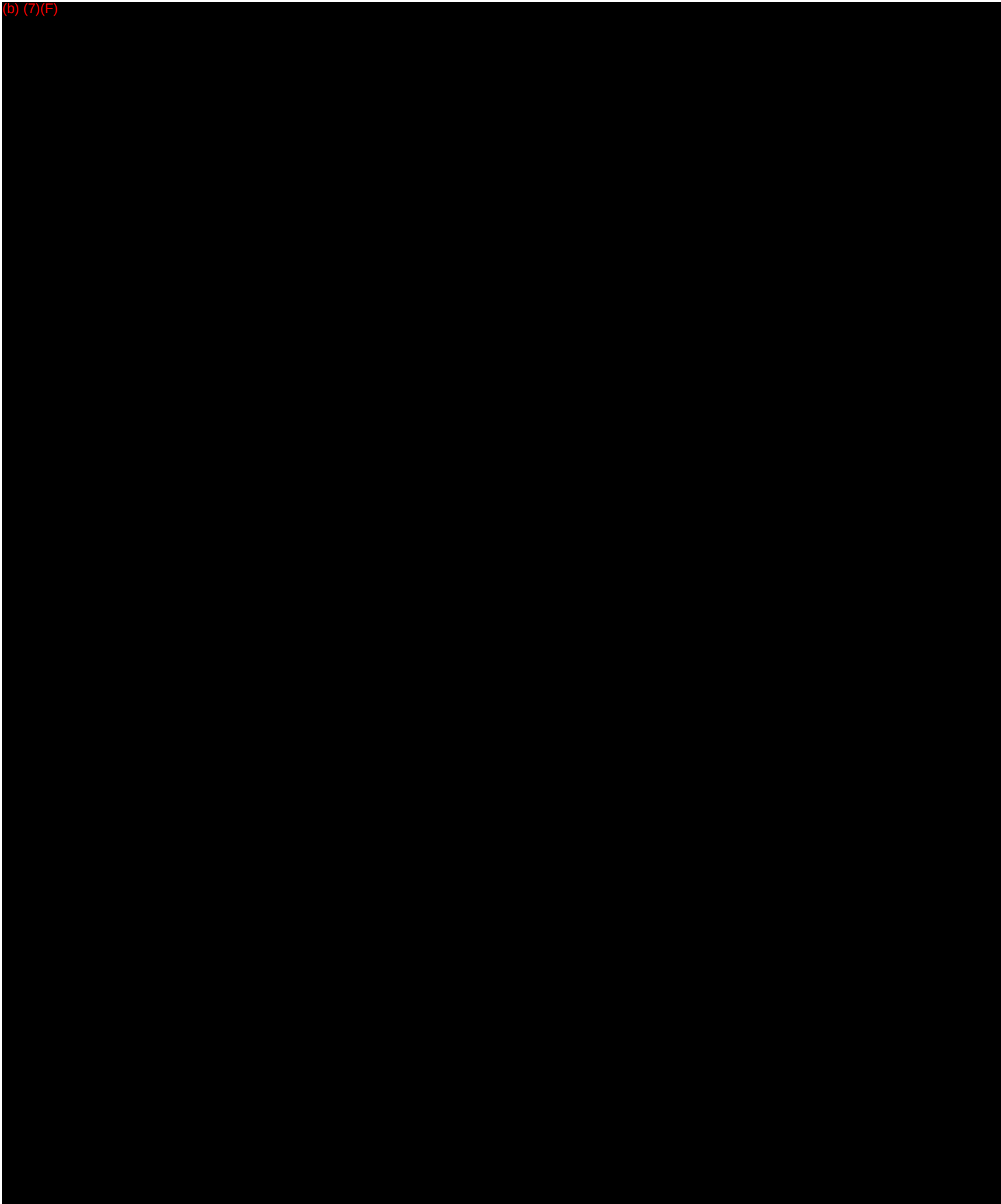
CALLER NOTIFICATIONS

National Response Center (NRC): 1-800-424-8802
Additional Notifications (Circle all applicable): USCG EPA State Province TSB Environment Canada Other

ADDITIONAL INFORMATION

Any information about the incident not recorded elsewhere in this report: _____

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NATIONAL INCIDENT MANAGEMENT SYSTEM INCIDENT COMMAND SYSTEM FORMS (NIMS ICS FORMS)

IAP Cover Sheet Incident Action Plan Cover Sheet

ICS 201-CG*	Incident Briefing
ICS 202-CG*	Incident Objectives
ICS 203-CG	Organization Assignment List
ICS 204-CG	Assignment List
ICS 204a-CG	Assignment List Attachment
ICS 205-CG	Incident Radio Communications Plan
ICS 205a-CG	Communications List
ICS 206-CG	Medical Plan
ICS 207-CG*	Incident Organization Chart
ICS 208-CG* (use PMPL Site Safety Plan)	Site Safety Plan
ICS 209-CG*	Status Summary (SITREP/Opsum)
ICS 209H-CG*	Hurricane and Severe Weather
Response	
ICS 211-CG	Check-In List
ICS 213-RR-CG	Resource Request
ICS 213-CG	General Message
ICS 214-CG	Unit Log
ICS 215-CG*	Operational Planning Worksheet
ICS 215a-CG	IAP Safety Analysis
ICS 216-CG	Radio Requirements Worksheet
ICS 220-CG	Air Operations Summary
ICS 221-CG	Demob Check Out
ICS-225-CG*	Incident Personnel Performance
Rating	
ICS 230-CG*	Daily Meeting Schedule
ICS 232-CG*	Resources at Risk
ICS 232a-CG	ACP Site Index
ICS 233-CG	Open Action Tracker
ICS 234-CG	Work Analysis Matrix
ICS-235-CG	Facility Needs Assessment

* Key PMPL forms for initial response

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1. Incident Name	2. Operational Period to be covered by IAP (Date/Time) From: _____ To: _____	CG IAP COVER SHEET												
3. Approved by Incident Commander(s): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 15%;"><u>ORG</u></th> <th style="text-align: left;"><u>NAME</u></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> <tr><td>_____</td><td>_____</td></tr> </tbody> </table>			<u>ORG</u>	<u>NAME</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
<u>ORG</u>	<u>NAME</u>													
_____	_____													
_____	_____													
_____	_____													
_____	_____													
_____	_____													
INCIDENT ACTION PLAN The items checked below are included in this Incident Action Plan: ☐ ICS 202-CG (Incident Objectives) _____ ☐ ICS 202A-CG (Command Direction) _____ ☐ ICS 203-CG (Organization List) – OR – ICS 207-CG (Organization Chart) _____ ☐ ICS 204-CGs (Assignment Lists) One Copy each of any ICS 204-CG attachments: _____ ☐ ICS 205-CG (Communications Plan) _____ ☐ ICS 206-CG (Medical Plan) _____ ☐ ICS 208-CG (Site Safety Plan) or Note SSP Location _____ ☐ Map / Chart _____ ☐ Weather Forecast / Tides/Currents _____ <u>Other Attachments</u> ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ _____														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">4. Prepared by:</td> <td style="width: 50%;">Date/Time</td> </tr> </table>			4. Prepared by:	Date/Time										
4. Prepared by:	Date/Time													

1. Incident Name	2. Prepared by: (name) Date: _____ Time: _____	INCIDENT BRIEFING ICS 201-CG
3. Map/Sketch (include sketch, showing the total area of operations, the incident site/area, overflight results, trajectories, impacted shorelines, or other graphics depicting situational and response status)		
4. Current Situation: 		

1. Incident Name	2. Prepared by: (name) Date: _____ Time: _____	INCIDENT BRIEFING ICS 201-CG
-------------------------	--	---

6. Current Organization (fill in additional appropriate organization)

Safety Officer _____
 Liaison Officer _____
 Public Information Officer _____

Operations Section

Planning Section

Logistics Section

Finance Section

[illegible]

INCIDENT BRIEFING (ICS 201-CG)

Purpose. The Incident Briefing form provides the Unified Command (and the Command and General Staffs assuming command of the incident) with basic information regarding the response situation and the resources allocated to the incident. It is also a permanent record of the initial incident response.

Preparation. This briefing form is prepared under the direction of the initial Incident Commander for presentation to the Unified Command. This form can be used for managing the response during the initial period until the beginning of the first operational period for which an Incident Action Plan (IAP) is prepared. The information from the ICS form 201-CG can be used as the starting point for other ICS forms or documents.

- Page 1 (Map/Sketch) may transition immediately to the Situation Map.
- Page 2 (Summary of Current Actions) may be used to continue tracking the response actions and as the initial input to the ICS form 215-CG and the ICS form 232-CG.
- Page 3 (Current Organization) may transition immediately to the Organization List (ICS form 203-CG) and/or Organization Chart (ICS form 207-CG).
- Page 4 (Resources Summary) may be used to continue tracking resources assigned to the incident and as input to individual T-Cards (ICS form 219) or other resource tracking system.

Distribution. After the initial briefing of the Unified Command and General Staff members, the Incident Briefing form is duplicated and distributed to the Command Staff, Section Chiefs, Branch Directors, Division/Group Supervisors, and appropriate Planning and Logistics Section Unit Leaders. The sketch map and summary of current action portions of the briefing form are given to the Situation Unit while the Current Organization and Resources Summary portion are given to the Resources Unit. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Prepared By	Enter the name and position of the person completing the form.
	Date	Enter date prepared (month, day, year).
	Time	Enter time prepared (24-hour clock).
3.	Map/Sketch	Show the total Area of Operations, the incident site, overflight results, trajectories, impacted shorelines, or other graphics depicting situation and response status on a sketch or attached map.
4.	Current Situation	Enter short, clear, concise summary of the actions taken in managing the initial response
5.	Initial Response, Objectives, Current & Planned Actions	Enter short, clear, concise statements of the objectives for managing the initial response, any actions taken in response to the incident, including the time, and note any significant events or specific problem areas as well as planned actions for the future.
6.	Current Organization	Enter, on the organization chart, the names of the individuals assigned to each position. Modify the chart as necessary, using additional boxes in the space provided under the Sections. Blank lines are provided in the Unified Command section for adding other agencies or groups participating in the Unified Command and/or for multiple Responsible Parties.
7.	Resources Summary	Enter the following information about the resources allocated to the incident:
	Resource	Description of the resource (e.g., open water boom, skimmer, vac truck, etc.).
	Resource Identifier	Identifier for the resource (e.g., radio call-sign, vessel name, vendor name, license plate, etc.).
	Date/Time Ordered	Date and time ordered (24-hour clock).
	ETA	Estimated date and time for the resource to arrive at the staging area.
	On-Scene	"X" upon the resource's arrival.
	Notes	Location of the resource, the actual assignment, and the status of the resource (if other than working).

NOTE: Additional pages may be added to ICS 201-CG if needed

1. Incident Name	2. Operational Period (Date/Time) From: To:	Command Direction ICS 202A-CG
3. Key Decisions and Procedures:		
4. Priorities:		
5. Limitations and Constraints:		
6. Prepared by: (Planning Section Chief) Date/Time		

FORM INSTRUCTIONS

Purpose. The Command Direction form supplements the ICS 202 form by documenting the IC/UC strategic direction and guidance through Key Decisions/Procedures, Priorities and Limitations/Constraints for use during the next operational period.

Preparation. The Command Direction form is completed by the Planning Section following each Unified Command Objectives Meeting conducted (input may be made during the Initial Unified Command Meeting) and aids with Command Direction for the Command and General Staff meeting and when preparing the Incident Action Plan.

Distribution. The Command Direction form may be included with the IAP and given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end operational period date and time.
3.	Key Decisions and Procedures	Enter operational guiding measures from the Unified Command. Provide IMT process guidance for delegation of authority, agency cooperation, cost sharing, resource ordering and other administrative guidance.
4.	Priorities	Enter clear, concise statements of strategic direction for managing the response. These priorities are for the incident response for this operational period and for the duration of the incident. Listed in order of importance.
5.	Limitations and Constraints	Enter clear, concise guidelines for response limiting factors and restrictions due to operations, weather, jurisdictions, resources and parameters agreed upon by the Unified Command.
6.	Prepared by	Enter the name of the person completing the form (usually the Planning Section Chief).
	Date/Time	Enter date (month, day, and year) and time prepared (24-hour clock).

NOTE: The 03/2013 version changes the order from Priorities, Limitations/Constraints and Key Decisions to Key Decisions/Procedures, Priorities and Limitations/Constraints because that is the order they will be developed by the UC and briefed to the Incident Management Team. The new version also corrected some typographical errors and explanation of preparation and use of the form.

1. Incident Name	2. Operational Period (Date/Time) From: To:	Critical Information Requirements ICS 202B
3. Critical Information Requirements:		
4. Prepared by: (Planning Section Chief) Date/Time		

Purpose. The Critical Information Requirements form supplements the ICS 202 form by documenting the IC/UC strategic direction and guidance through Critical Information Requirements for use during the next operational period.

Preparation. The Critical Information Requirements form is completed and/or updated by the Planning Section following each Unified Command Objectives Meeting (input may be made during the Initial Unified Command Meeting) conducted in preparing the Incident Action Plan.

Distribution. The Critical Information Requirements form may be reproduced with the IAP and should be given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Critical Information Requirements	Enter clear, concise statements of critical information requirements for the response. These requirements are for the incident response for this operational period and for the duration of the incident. Listed in order of importance.
4.	Prepared by	Enter the name of the Planning Section Chief completing the form.
	Date/Time	Enter date (month, day, and year) and time prepared (24-hour clock).

NOTE: ICS 202B-CG, Critical Information Requirements, may serve as part of the Incident Action Plan (IAP)

1. Incident Name	2. Operational Period (Date/Time) From: To:	INCIDENT OBJECTIVES ICS 202-CG
3. Objective(s)		
4. Operational Period Command Emphasis (Safety Message, Priorities, Key Decisions/Directions)		
Approved Site Safety Plan Located at: 5. Prepared by: (Planning Section Chief) Date/Time		

INCIDENT OBJECTIVES (ICS 202-CG)

Purpose. The Incident Objectives form describes the basic incident strategy, control objectives, command emphasis/priorities, and safety considerations for use during the next operational period.

Preparation. The Incident Objectives form is completed by the Planning Section following each Command and General Staff Meeting conducted in preparing the Incident Action Plan.

Distribution. The Incident Objectives form will be reproduced with the IAP and given to all supervisory personnel at the Section, Branch, Division/Group, and Unit levels. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Objective(s)	Enter clear, concise statements of the objectives for managing the response. These objectives are for the incident response for this operational period and for the duration of the incident. Include alternatives.
4.	Operational Period Command Emphasis	Enter clear, concise statements for safety message, priorities, and key command emphasis/decisions/directions. Enter information such as known safety hazards and specific precautions to be observed during this operational period. If available, a safety message should be referenced and attached. At the bottom of this box, enter the location where approved Site Safety Plan is available for review.
5.	Site Safety Plan	Note location of the approved Site Safety Plan.
	Prepared By	Enter the name of the Planning Section Chief completing the form.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

NOTE: ICS 202-CG, Incident Objectives, serves as part of the Incident Action Plan (IAP)

ORGANIZATION ASSIGNMENT LIST (ICS 203-CG) Instructions for filling out the form

Purpose. The Organization Assignment List provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit. It is used to complete the Incident Organization Chart (ICS form 207-CG) which is posted on the Incident Command Post display. An actual organization will be event-specific. **Not all positions need to be filled.** The size of the organization is dependent on the magnitude of the incident and can be expanded or contracted as necessary.

Preparation. The Resources Unit prepares and maintains this list under the direction of the Planning Section Chief.

Note: Depending on the incident, the Intelligence and Information function may be organized in several ways: 1) within the Command Staff as the Intelligence Officer; 2) As an Intelligence Unit in Planning Section; 3) As an Intelligence Branch or Group in the Operations Section; 4) as a separate General Staff Intelligence Section; and 5) as an Intelligence Technical Specialist. The incident will drive the need for the Intelligence and Information function and where it is located in the ICS organization structure. The Intelligence and information function is described in significant detail in NIMS and in the Coast Guard Incident Management Handbook (IMH).

Distribution. The Organization Assignment List is duplicated and attached to the Incident Objectives form (ICS 202-CG) and given to all recipients of the Incident Action Plan. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies. Record the start and end date and time.
3.	Incident Commander and Staff	Enter the names of the Incident Commander and Staff. Use at least the first initial and last name.
4.	Agency Representative	Enter the agency names and the names of their representatives. Use at least the first initial and last name.
5. thru 8.	Section	Enter the name of personnel staffing each of the listed positions. Use at least the first initial and last name. For Units, indicate Unit Leader and for Divisions/ Groups indicate Division/Group Supervisor. Use an additional page if more than three branches are activated. If there is a shift change during the specified operational period, list both names, separated by a slash.
9.	Prepared By Date/Time	Enter the name and position of the person completing the form Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date/Time)		ASSIGNMENT LIST ATTACHMENT	
		From: _____ To: _____		ICS 204a-CG	
3. Branch			4. Division/Group		
5. Strike Team/Task Force/Resource (Identifier)		6. Leader		7. Assignment Location	
8. Work Assignment Special Instructions, Special Equipment/Supplies Needed for Assignment, Special Environmental Considerations, Special Site Specific Safety Considerations					
Approved Site Safety Plan Located at: _____					
9. Other Attachments (as needed)					
☐ Map/Chart		☐ Weather Forecast/Tides/Currents		☐ _____	
☐ _____		☐ _____		☐ _____	
10. Prepared by: _____ Date/Time _____		11. Reviewed by (PSC): _____ Date/Time _____		12. Reviewed by (OSC): _____ Date/Time _____	

1. Incident Name		2. Operational Period (Date/Time) From: _____ To: _____		Assignment List ICS 204-CG	
3. Branch		4. Division/Group/Staging			
5. Operations Personnel					
		Name	Affiliation	Contact # (s)	
Operations Section Chief: _____					
Deputy Operations Section Chief: _____					
Branch Director: _____					
Deputy Branch Director: _____					
Division/Group Supervisor/STAM: _____					
↓					
Strike Team/Task Force/Resource Identifier		Leader	Contact Info. #	# Of Persons	Reporting Info/Notes/Remarks
					☐
					☐
					☐
					☐
					☐
					☐
					☐
					☐
					☐
					☐
7. Work Assignments					
8. Special Instructions					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
<u>Assignment</u>		<u>Channel Name</u>	<u>Frequency (Tx)</u>	<u>Phone</u>	
_____		_____	_____	_____	
_____		_____	_____	_____	
_____		_____	_____	_____	
Emergency Communications					
Medical _____		Evacuation _____		Other _____	
10. Prepared by:		Date/Time	11. Reviewed by (PSC):		Date/Time
			12. Reviewed by (OSC):		Date/Time

Purpose. The Assignment List(s) informs Division and Group supervisors of incident assignments. Once the Unified Command and General Staff agree to the assignments, the assignment information is given to the appropriate Divisions and Groups.

Preparation. The Assignment List is normally prepared by the Resources Unit, using guidance from the Incident Objectives (ICS 202-CG), Operational Planning Worksheet (ICS 215-CG), and the Operations Section Chief. The Assignment List must be approved by the Planning Section Chief and Operations Section Chief. When approved, it is included as part of the Incident Action Plan (IAP). Specific instructions for specific resources may be entered on an ICS 204a-CG for dissemination to the field. A separate sheet is used for each Division or Group. The identification letter of the Division is entered in the form title. Also enter the number (roman numeral) assigned to the Branch.

Special Note. The Assignment List, ICS 204-CG submits assignments at the level of Divisions and Groups. The Assignment List Attachment, ICS 204a-CG shows more specific assignment information, if needed. The need for an ICS 204a-CG is determined by the Planning and Operations Section Chiefs during the Operational Planning Worksheet (ICS 215-CG) development.

Distribution. The Assignment List is duplicated and attached to the Incident Objectives and given to all recipients of the Incident Action Plan. In some cases, assignments may be communicated via radio/telephone/fax. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Branch	Enter the Branch designator.
4.	Division/Group/Staging	Enter the Division/Group/Staging designator.
5.	Operations Personnel	Enter the name of the Operations Chief, applicable Branch Director, and Division Supervisor.
6.	Resources Assigned	Each line in this field may have a separate Assignment List Attachment (ICS 204a-CG). Enter the following information about the resources assigned to Division or Group for this period:
	Identifier	List identifier
	Leader	Leader name
	Contact Information	Primary means of contacting this person (e.g., radio, phone, pager, etc.). Be sure to include area code when listing a phone number.
	# Of Persons	Total number of personnel for the strike team, task force, or single resource assigned.
	Reporting Info/Notes/Remarks	Special notes or directions, specific to this strike team, task force, or single resource. Enter an "X" check if an Assignment List Attachment (ICS 204a-CG) will be prepared and attached. The Planning and Operations Section Chiefs determine the need for an ICS 204a-CG during the Operational Planning Worksheet (ICS 215-CG) development.
7.	Work Assignment	Provide a statement of the tactical objectives to be achieved within the operational period by personnel assigned to this Division or Group.
8.	Special Instructions	Enter a statement noting any safety problems, specific precautions to be exercised, or other important information.
9.	Communications	Enter specific communications information (including emergency numbers) for this division /group. If radios are being used, enter function (command, tactical, support, etc.), frequency, system, and channel from the Incident Radio Communications Plan (ICS 205-CG). Note: Phone numbers should include area code.
10.	Prepared By	Enter the name of the person completing the form, normally the Resources Unit Leader.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).
11.	Reviewed by (PSC)	
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).
12.	Reviewed by (OSC)	Enter the name of the operations person reviewing the form, normally the Operations Section Chief.
	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

COMMUNICATIONS LIST (ICS 205a-CG)

Special Note. This optional form is used in conjunction with the Incident Radio Communications Plan, ICS 205-CG. Whereas the ICS 205-CG is used to provide information on all radio frequencies down to the Division/Group level, the Communications List, ICS 205a-CG, lists methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.), and functions as an incident directory.

Purpose. The Communications List records methods of contact for personnel on scene.

Preparation. The Communications List can be filled out during check-in and is maintained and distributed by Communications Unit personnel.

Distribution. The Communications List is distributed within the ICS and posted, as necessary. All completed original forms **MUST** be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Basic Local Comms Information Assignment Name Method(s) of contact	Enter the communications methods assigned and used for each assignment. Enter the ICS Organizational assignment. Enter the name of the contact person for the assignment. Enter the radio frequency, telephone number(s), etc. for each assignment.
4.	Prepared By Date/Time	Enter the name of the Communications Unit Leader preparing the form. Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name	2. Operational Period Date/Time From: To:	INCIDENT RADIO COMMUNICATIONS PLAN ICS 205-CG
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3. Basic Radio Channel Use										
Ch #	Function	Channel Name/Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone/NAC	TX Freq N or W	Tx Tone/NAC	Mode A, D or M	Remarks	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

4. Prepared By (Communications Unit)	5. Date/Time
--------------------------------------	--------------

The convention calls for frequency lists to show four digits after the decimal place, followed by either an “N” or a “W”, depending on whether the frequency is narrow or wide band. Mode refers to either “A” or “D” indicating analog or digital (e.g. Project 25) or “M” indicating mixed mode. All channels are shown as if programmed in a control station, mobile or portable radio. Repeater and base stations must be programmed with the Rx and Tx reversed.

INCIDENT RADIO COMMUNICATIONS PLAN (ICS 205-CG)

Special Note. This form, ICS 205-CG, is used to provide, in one location, information on all radio frequency assignments down to the Division/Group level for each operational period; whereas, the Communications List, ICS 205a-CG is used to list methods of contact for personnel assigned to the incident (radio frequencies, phone numbers, pager numbers, etc.).

Purpose. The Incident Radio Communications Plan is a summary of information obtained from the Radio Requirements Worksheet (ICS 216) and the Radio Frequency Assignment Worksheet (ICS 217). Information from the Radio Communications Plan on frequency assignments is normally noted on the appropriate Assignment List (ICS 204-CG).

Preparation. The Incident Radio Communications Plan is prepared by the Communications Unit Leader and given to the Planning Section Chief.

Distribution. The Incident Radio Communications Plan is included in the Incident Action Plan and duplicated and given to others requiring incident communications information including the Incident Communications Center. All completed original forms MUST be given to the Documentation Unit.

Block #	Block Title	Instructions
1	Incident Name	Enter the name assigned to the incident.
2	Operational Period	Enter the time interval for which the form applies.
3	Basic Radio Channel Use	Enter the following information about radio channel use:
	Channel #	Use at the Communications Unit Leader's discretion. Channel Number (Ch #) may equate to the channel number for incident radios that are programmed or cloned for a specific Communications Plan, or it may be used just as a reference line number on the ICS 205 document.
	Function	Function each channel is assigned (e.g., command, support, division tactical, and ground-to-air).
	Channel Name/Trunked Radio System Talkgroup	Enter the nomenclature or commonly used name for the channel or talkgroup such as the National Interoperability Channels which follow DHS frequency Field Operations Guide (FOG)
	Assignment	Enter the name of the ICS Branch/Division/Group/Section to which this channel/talkgroup will be assigned (e.g., Branch I, Division A, Hazmat group).
	Rx Freq N or W	Enter the Receive Frequency (RX Freq) as the mobile or portable subscriber would be programmed using xxx.xxxx out to four decimal places, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band. The name of the specific trunked radio system with which the talkgroup is associated may be entered across all fields on the ICS 205 normally used for conventional channel programming information.
	Rx Tone/NAC	Enter the Receive Continuous Tone Coded Squelch System (CTCSS) subaudible tone (RX Tone) or Network Access Code (RX NAC) for the receive frequency as the mobile or portable subscriber would be programmed.
	Tx Freq N or W	Enter Transmit Frequency (TX Freq) as the mobile or portable subscriber would be programmed using xxx.xxxx out to four decimal places, followed by either an "N" or a "W", depending on whether the frequency is narrow or wide band.
	Tx Tone/NAC	Enter Transmit Continuous Tone Coded Squelch System (CTCSS) subaudible tone (RX Tone) or Network Access Code (RX NAC) for the receive frequency as the mobile or portable subscriber would be programmed.
	Mode A, D or M	Mode refers to either "A" or "D" indicating analog or digital (e.g. Project 25) or "M" indicating mixed mode.
	Remarks	Enter miscellaneous information concerning repeater locations, information concerning patched channels or talkgroups using links or gateways, etc. and narrative information regarding special situations.
4	Prepared By	Enter the name of the Communications Unit Leader preparing the form.
5	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).

1. Incident Name		2. Operational Period (Date / Time) From: _____ To: _____		MEDICAL PLAN ICS 206-CG		
3. Medical Aid Stations						
Name	Location	Contact #	Paramedics On site (Y/N)			
4. Transportation						
Ambulance Service	Address	Contact #	Paramedics On board (Y/N)			
5. Hospitals						
Hospital Name	Address	Contact #	Travel Time		Burn Ctr?	Heli-Pad?
			Air	Ground		
6. Special Medical Emergency Procedures						
7. Prepared by: (Medical Unit Leader)			Date/Time		8. Reviewed by: (Safety Officer)	
MEDICAL PLAN			ICS 206-CG (Rev.07/04)			

MEDICAL PLAN (ICS 206-CG)

Purpose. The Medical Plan provides information on incident medical aid stations, transportation services, hospitals, and medical emergency procedures.

Preparation. The Medical Plan is prepared by the Medical Unit Leader and reviewed by the Safety Officer.

Distribution. The Medical Plan may be attached to the Incident Objectives (ICS 202-CG), or information from the plan pertaining to incident medical aid stations and medical emergency procedures may be taken from the plan and noted on the Assignment List (ICS 204-CG) or on the Assignment List Attachment (ICS 204a-CG). All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Medical Aid Stations	Enter name, location, and telephone number of the medical aid station(s) (e.g., Cajon Staging Area, Cajon Camp Ground) and indicate if paramedics are located at the site.
4.	Transportation	List name and address of ambulance services. Provide phone number and indicate if ambulance company has paramedics.
5.	Hospitals	List hospitals that could serve this incident. Enter hospital name, address, phone number, the travel time by air and ground from the incident to the hospital, and indicate if the hospital has a burn center and/or a helipad.
6.	Medical Emergency Procedures	Note any special emergency instructions for use by incident personnel.
7.	Prepared By Date/Time	Enter the name of the Medical Unit Leader preparing the form. Enter date (month, day, year) and time prepared (24-hour clock).
8.	Reviewed By Date/Time	Enter the name of the Safety Officer who must review the plan. Enter date (month, day, year) and time reviewed (24-hour clock).

1. Incident Name	2. Operational Period (Date/Time) From: _____ To: _____	INCIDENT ORGANIZATION CHART ICS 207-CG
3. Incident Commander(s)/Unified Command PUBLIC INFORMATION OFFICER SAFETY OFFICER INTELLIGENCE OFFICER LIAISON OFFICER Indicates initial contact point AGENCY REPS. OPERATIONS SECTION CHIEF STAGING AREA MANAGER PLANNING SECTION CHIEF SITUATION UNIT LEADER RESOURCE UNIT LEADER DOCUMENTATION UNIT LEADER DEMobilIZATION UNIT LEADER TECHNICAL SPECIALISTS LOGISTICS SECTION CHIEF SUPPORT BRANCH DIRECTOR SUPPLY UNIT LEADER FACILITIES UNIT LEADER VESSEL SUPPORT UNIT LEADER GROUND SUPPORT UNIT LEADER SERVICE BRANCH DIRECTOR FOOD UNIT LEADER MEDICAL UNIT LEADER COMMUNICATIONS UNIT LEADER FINANCE/ADMIN SECTION CHIEF COST UNIT LEADER TIME UNIT LEADER PROCUREMENT UNIT LEADER COMPENSATION UNIT LEADER		

INCIDENT ORGANIZATION (ICS 207-CG) Revision 1/07

Purpose. The Incident Organization Chart provides ICS personnel with information on the units that are currently activated and the names of personnel staffing each position/unit. An actual organization will be event-specific. **Not all positions need to be filled.** The size of the organization is dependent on the magnitude of the incident and can be expanded or contracted as necessary.

Preparation. The Resources Unit prepares and maintains this chart under the direction of the Planning Section Chief. The ICS-203 is used to help complete the Incident Organization Chart.

Note: Depending on the incident, the Intelligence and Information function may be organized in several ways: 1) within the Command Staff as the Intelligence Officer; 2) As an Intelligence Unit in Planning Section; 3) As an Intelligence Branch or Group in the Operations Section; 4) as a separate General Staff Intelligence Section; and 5) as an Intelligence Technical Specialist. The incident will drive the need for the Intelligence and Information function and where it is located in the ICS organization structure. The Intelligence and information function is described in significant detail in NIMS and in the Coast Guard Incident Management Handbook (IMH).

Distribution. The Incident Organization Chart is posted on the Incident Command Post display and may be posted in other places as needed (e.g. the Joint Information Center). All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident. Record the start and end date and time.
2.	Operational Period	Enter the time interval for which the form applies.
3.	Positions	Enter the name of personnel staffing each of the listed positions. Use at least the first initial and last name. For Units, indicate Unit Leader and for Divisions/ Groups indicate Division/Group Supervisor. If there is a shift change during the specified operational period, list both names, separated by a slash.
4.	Prepared By	Enter the name and position of the person completing the form
5.	Date/Time Prepared	Enter date (month, day, year) and time prepared (24-hour clock).

Site Safety and Health Plan ICS-208-CG (rev 4/15)

Incident Name: _____

Date/Time Prepared: _____ Operational Period: _____

Purpose. The ICS Compatible Site Safety and Health Plan is designed for safety and health personnel that use the Incident Command System (ICS). It is compatible with ICS and is intended to meet the requirements of the Hazardous Waste Operations and Emergency Response regulation (Title 29, Code of Federal Regulations, Part 1910.120). The plan avoids the duplication found between many other site safety plans and certain ICS forms. It is also in a format familiar to users of ICS. Although primarily designed for oil and chemical spills, the plan can be used for all hazard situations.

Changes: The only change to this form since 2006 is added Emergency Site Non-Hazardous Assessment form (SSP-A2).

Questions on the document should be addressed to the **Coast Guard Office of Contingency Preparedness and Exercise Policy (CG-CPE)**.

Table of Forms

FORM NAME	FORM #	USE	REQUIRED	OPTIONAL	ATTACHED
Emergency Safety and Response Plan	A	Emergency response phase (uncontrolled)	X		
Emergency Site Non-Hazardous Assessment Form	A2	Emergency response phase without Hazardous Materials present. Overall site assessment	X		
Site Safety Plan	B	Post-emergency phase (stabilized, cleanup)	X		
Site Map	C	Post-emergency phase map of site and hazards	X		
Emergency Response Plan	D	Part of Form B, to address emergencies	X		
Exposure Monitoring Plan	E	Exposure monitoring Plan to monitor exposure	X		
Air Monitoring Log	E-1	To log air monitoring data	X*		
Personal Protective Equipment	F	To document PPE equipment and procedures	X*		
Decontamination	G	To document decon equipment and procedures	X*		
Site Safety Enforcement Log	H	To use in enforcing safety on site		X	
Worker Acknowledgement Form	I	To document workers receiving briefings		X	
Form A Compliance Checklist	J	To assist in ensuring HAZWOPER compliance		X	
Form B Compliance Checklist	K	To assist in ensuring HAZWOPER compliance		X	
Drum Compliance Checklist	L	To assist in ensuring HAZWOPER compliance		X	
Other:					

* Required only if function or equipment is used during a response

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EMERGENCY SAFETY and RESPONSE PLAN		1. Incident Name			2. Date/Time Prepared			3. Operational Period			4. Attachments: Attach MSDS for each Chemical:					
5. <u>Organization</u> IC/UC:		Safety:			Entry Team:			Backup Team:			Decon Team:					
		Div/Group Supv:														
6.a. <u>Physical Hazards and Protection</u>		6.b. Confined Space ☐ Noise ☐ Heat Stress ☐ Cold Stress ☐ Electrical ☐ Animal/Plant/Insect ☐ Ergonomic ☐ Ionizing Rad ☐ Slips/Trips/Falls ☐ Struck by ☐ Water ☐ Violence ☐ Excavation ☐ Biomedical waste and/or needles ☐ Fatigue ☐ Other (specify)														
6.c. Tasks & Controls		6d. Entry Permit	6.e. Ventilate	6f. Hearing Protection	6g. Shoes (type)	6.h. Hard Hats	6i. Clothing (cold wx)	6j. Life Jacket	6l. Work/ Rest (hrs)	6.m. Fluids (amt/time)	6.n. Signs & Barricade	6.p. Fall Protect	6.q. Post Guards	6.r. Flash Protect	6.s. Work Gloves	6.t. Other
7.a. Agent		7.b. Hazards			7.c. Target Organs				7.d. Exposure Routes		7.f. PPE		7.g. Type of PPE			
		Explosive ☐ Flammable ☐ Reactive ☐ Biomedical ☐ Toxic ☐		Radioactive ☐ Carcinogen ☐ Oxidizer ☐ Corrosive ☐ Specify Other: ☐	Eyes ☐ Nose ☐ Skin ☐ Ears ☐ Central Nervous System ☐ Respiratory ☐ Throat ☐ Lungs ☐ Heart ☐ Liver ☐ Kidney ☐ Blood ☐ Lungs ☐ Circulatory ☐ Gastrointestinal ☐ Bone ☐ Other Specify: ☐				Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐		Face Shield ☐ Eyes ☐ Gloves ☐ Inner Suit ☐ Splash Suit ☐ Level A Suit ☐ SCBA ☐ APR ☐ SAR ☐ Cartridges ☐ Fire Resistance ☐					
8. Instruments:		8.a. Action Levels	8.b. Chemical Name(s):	8.c. LEL/UEL %	8.d. Odor Thresh Ppm	8.e. Ceiling/ IDLH	8.f. STEL/TLV	8.g. Flash Pt/ Ignition Pt (F or C)	8.h. Vapor Pressure (mm)	8.i. Vapor Density	8.j. Specific Gravity	8.l. Boiling Pt F or C				
O2 ☐																
CGI ☐																
Radiation ☐																
Total HCs ☐																
Colorimetric ☐																
Thermal ☐																
Other ☐																

EMERGENCY SAFETY and RESPONSE PLAN (Cont)		1. Incident Name		2. Date/Time Prepared		3. Operational Period		4. Attachments: Attach SDS for each Chemical	
9. <u>Decontamination:</u> Instrument Drop Off ☐ Outer Boots/Glove Removal ☐ Suit/Gloves/Boot Disposal ☐		Suit Wash ☐ Decon Agent: Water ☐ Other ☐ Specify:		Bottle Exchange ☐ Outer Suit Removal ☐ Inner Suit Removal ☐ SCBA/Mask Removal ☐		SCBA/Mask Rinse ☐ Inner Glove Removal ☐ Work Clothes Removal ☐ Body Shower ☐		Intervening Steps ☐ Specify:	
10. <u>Site Map</u> . Include: Work Zones, Locations of Hazards, Security Perimeter, Places of Refuge, Decontamination Line, Evacuation Routes, Assembly Point, Direction of North ☐ Attached, ☐ Drawn Below:									
11.a. <u>Potential Emergencies:</u> Fire ☐ Explosion ☐ _____ Other ☐		11.b. Evacuation Alarms: Horn ☐ # Blasts ☐ Bells ☐ #Rings ☐ Radio Code ☐ Other:		11.c. Emergency Prevention and Evacuation Procedures: Safe Distance:					
12. a. <u>Communications:</u> Radio ☐ Phone ☐ Other ☐		12.b. Command #:			12.c. Tactical #:		12.d. Entry #:		
13.a. <u>Site Security:</u> Personnel Assigned		13.b. Procedures:						13.c. Equipment:	
14.a. <u>Emergency Medical:</u> Personnel Assigned		14.b. Procedures:						14.c. Equipment:	
15. <u>Prepared by:</u>		16. <u>Date/Time Briefed:</u>						ICS-208-CG SSP-A Page 2 (rev 4/15): Page ____ of ____	

EMERGENCY SAFETY AND RESPONSE PLAN (ICS-208-CG SSP-A)

Purpose: The Emergency Safety and Response Plan provides the Safety Officer and ICS personnel a plan for safeguarding personnel during the initial emergency phase of the response. *It is only used during the emergency phase of the response, which is defined as a situation involving an uncontrolled release.* It is also intended to meet the requirements of the Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation, Title 29 Code of Federal Regulations Part 1910.120.

Preparation: The Safety Officer or his/her designated staff starts the Emergency Site Safety and Response Plan. They initially address the hazards common to all operations involved in the response (initial site characterization). Outside support organizations must be contacted to ensure the plan is consistent with other plans (local, state, other federal plans). Form ICS-208-CG SSP-G need not be completed if this form is used. When the operation proceeds into the post-emergency phase (site stabilized and cleanup operations begun) forms ICS-208-CG SSP-B and ICS-208-CG SSP-G should be used. For large incidents, the Emergency Site Safety and Response Plan complements the Incident Action Plan. For smaller incidents, the Emergency Site Safety and Response Plan complements ICS-201.

Distribution: The Emergency Safety and Response Plan completed by the Safety Officer is forwarded to the Planning Section Chief. Copies are made and attached to the ICS 204 Assignment List(s). The Operations Section Chief, Directors, Supervisors or Leaders get a copy of the plan. They must ensure it is available on site for all personnel to review. The Safety Officer is responsible for ensuring that the Emergency Site Safety and Response Plan properly addresses the hazards of the operation. The Safety Officer accomplishes this through on site enforcement and feedback to the operational units.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Attachments	Enter attachments. Material Safety Data Sheets are mandatory under 1910.120. Safe Work Practices may also be attached.
5	Organization	List the personnel responsible for these positions. IC and Safety Officer are mandatory.
6	Physical Hazards & Protection	Check off the physical hazards at the site. Identify the major tasks involved in the response (skimming, lightering, overpacking, etc.). Check off the controls that would be used to safeguard workers from the physical hazards for each major task.
7	Chemical/Agent	List the chemicals involved in the response. Chemicals may be listed numerically. Check off the hazards, potential health effects, pathway of dispersion, and exposure route of the chemical. Numbers corresponding to the chemical may be entered into the check blocks to differentiate. Check off the PPE to be used. Identify the type of PPE selected (for example: gloves: butyl rubber).
8	Instruments	Indicate the instruments being used for monitoring. List the action levels adjacent to the instruments being used. Identify the chemicals being monitored (2). List the physical parameters of the chemicals. Use a separate form for additional chemicals monitored.

EMERGENCY SAFETY AND RESPONSE PLAN (FORM ICS-208-CG SSP-A) (Instructions Continued)

9	Decontamination	Check off the decontamination steps to be used. Numbers may be entered to indicate the preferred sequence. Identify any intervening steps necessary on the form or in a separate attachment.
10	Site Map	Draw a rough site map. Ensure all the information listed is identified on the map.
11	Potential Emergencies	Identify any potential emergencies that may occur. If none, so state. Check off the appropriate alarms that may be used. Identify emergency prevention and evacuation procedures in the space provided or on a separate attached sheet.
12	Communications	Indicate type of site communications (phone, radio). Indicate phone numbers or frequencies for the command, tactical and entry functions.
13	Site Security	Identify the personnel assigned. Identify security procedures in the space provided or on a separate attached sheet. Identify the equipment needed to support security operations.
14.	Emergency Medical	Identify the personnel assigned. Identify emergency medical procedures in the space provided or on a separate attached sheet. Identify the equipment needed to support security operations.
15.	Prepared by:	Enter the name and position of the person completing the worksheet.
16.	Date/time briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

EMERGENCY SITE NON-HAZARDOUS ASSESSMENT FORM		1. Incident Name		2. Date/Time Prepared			3. Operational Period			4. Attachments: Y on N					
5. <u>SCENE</u> <u>CONTACTS:</u>		Name of Group/Branch or Division:		Safety Officer:			Staging Manager:			OSC:					
6.a. <u>Physical</u> <u>Hazards Onsite</u>		6.b. Confined Space ☐ Noise ☐ Heat Stress ☐ Cold Stress ☐ Electrical ☐ Animal/Plant/Insect ☐ Ergonomic ☐ Ionizing Rad ☐ Slips/Trips/Falls ☐ Struck by ☐ Water ☐ Violence ☐ Excavation ☐ Biomedical waste and/or needles ☐ Fatigue ☐ Other (specify)													
6.c. <u>Work Assignments/ Job Tasks</u>		6d. Electrical Hazard	6.e. Eye /Face Hazar ds	6f. Ear Protecti on	6g. Foot Protec tion (type)	6.h. Hard Hats	6i. Clothin g (cold/h ot wx)	6j. Life Vest	6l. Work /Rest (hrs)	6.m. Fluids (amt/ti me	6.n. Signs & Barricade	6.p. Fall Hazard	6.q. Security Issues	6.r. Hand Protection (Gloves)	6.s. Other
7. Comments:															

EMERGENCY SITE NON-HAZARDOUS ASSESSMENT FORM (CONT'D)		1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Attachments: Y or N	
8. Any Reported Illnesses or Injuries: Y or N If so, what type of Injury:						Location of Injury:
Was this recorded on CG-209 ? Y or N						Was the persons Agency informed of injury: Y or N
9. Site Map. Include: Work Zones, Locations of Hazards, Security Perimeter, Places of Refuge, Decontamination Line, Evacuation Routes, Assembly Point, Direction of North ☐ Attached, ☐ Drawn Below: 						
10.a. Potential Emergencies: Fire ☐ Explosion ☐ _____ Other ☐		10.b. Evacuation Alarms: Horn ☐ # Blasts ☐ Bells ☐ #Rings ☐ Radio Code ☐ Other:		10.c Emergency Prevention and Evacuation Procedures: Safe Distance:		
11. a. Communications: Radio ☐ Phone ☐ Other ☐		11.b. Command #:		11.c. Tactical #:		11 d. Staging Area #:
12.a. Emergency Medical: Personnel Assigned		12.b. Procedures:			12.c Equipment:	
13. Prepared by:		14. Date/Time Briefed:			ICS-208-CG SSP-A2 Non-Hazardous Page 2 (rev 4/15): Page _____ of _____	

EMERGENCY SITE NON-HAZARD ASSESSMENT FORM(ICS-208-CG SSP-A2)

Purpose: The Emergency Site Non-Hazard Assessment Form provides the Safety Officer and ICS personnel a plan for safeguarding personnel during the initial emergency phase of the response when an *uncontrolled release is **NOT present***. It is also intended to meet the requirements of the Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation, Title 29 Code of Federal Regulations Part 1910.120.

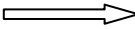
Preparation: The Safety Officer or his/her Assistant Safety Officer will start the Emergency Site Non-Hazard Assessment Form. They initially address the possibility for employee/worker exposure to safety and health hazards in all operations involved in the response (initial site characterization). Outside support organizations must be contacted to ensure the plan is consistent with other plans (local, state, other federal plans). When the operation proceeds into the post-emergency phase (site stabilized and cleanup operations begun) forms ICS-208-CG SSP-B and ICS-208-CG SSP-G should be used. For large incidents, the Emergency Site Non-Hazard Assessment Form will complement the Incident Action Plan. For smaller incidents, the Emergency Site Non-Hazard Assessment Form will complement ICS-201 form.

Distribution: The Emergency Site Non-Hazard Assessment Form completed by the Safety Officer is forwarded to the Planning Section Chief. Copies are made and attached to the Assignment List(s) (ICS Form 204). The Operations Section Chief, DIVS (Division/Group Supervisor), Supervisors or Leaders get a copy of the plan. They must ensure it is available on site for all personnel to review. The Safety Officer is responsible for ensuring that the Emergency Site Non-Hazard Assessment Form properly addresses the hazards of the operation. The Safety Officer accomplishes this through on site enforcement and feedback to the operational units.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Attachments	Enter attachments. Injury Logs or reports, Any required supplies or PPE (CG213RR), and any Safe Practices initiated.
5	Scene Contacts	Area Assessed. List the personnel responsible for these positions. IC and Safety Officer are mandatory.
6	Physical Hazards Onsite & Protection	Check off the physical hazards at the site. Identify the major tasks involved in the response (skimming, lightering, over packing, etc.). Check off the controls that would be used to safeguard workers from the physical hazards for each major task.
7	Comments	Other Physical Hazards seen. Suggested Control Measures. CG213RR order number assigned to a Control Measure to safeguard workers
8	Any Reported Illnesses or Injuries	Any Illnesses or Injuries in Assessed Area? If so, what was the Illness or Injury? Was an ICS CG209 (Incident Status Summary) filled out or updated? Was the persons Agency informed?
9	Site Map	Draw a rough site map. Ensure all the information listed is identified on the map.

10	Potential Emergencies	Identify any potential emergencies that may occur. If none, so state. Check off the appropriate alarms that may be used. Identify emergency prevention and evacuation procedures in the space provided or on a separate attached sheet.
11	Communications	Indicate type of site communications (phone, radio). Indicate phone numbers or frequencies for the command, tactical and entry functions.
12.	Emergency Medical	Identify the personnel assigned. Identify emergency medical procedures in the space provided or on a separate attached sheet. Identify the equipment needed to support security operations.
13.	Prepared by:	Enter the name and position of the person completing the worksheet.
14.	Date/time briefed:	Enter the date/time the document was briefed to the appropriate workers/IMT members and by whom.

CG ICS SITE SAFETY PLAN (SSP) HAZARD IDENTIFICATION/ EVAL/CONTROL		1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact):
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land ☐ Water ☐ Air ☐ Comments:	8. For Emergencies Contact:	9. Attachments: Attach MSDS for each Chemical OR CG 213RR for Ordering items from Block 10.e.	
10.a. Job Task/Activity	10.b. Hazards* 	10.c. Potential Injury & Health Effects	10.d. Exposure Routes	10.e. <u>Controls:</u> Engineering, Administrative, PPE	
			Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐ ☐		
			Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐ ☐		
			Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐ ☐		
			Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐ ☐		
			Inhalation ☐ Absorption ☐ Ingestion ☐ Injection ☐ Membrane ☐ ☐		
11. Prepared By:	12. Date/Time Briefed:	*HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving			ICS-208-CG SSP-B (rev 4/15): Page ____ of ____

SITE SAFETY PLAN (FORM ICS-208-CG SSP-B)

Purpose: The Site Safety Plan provides the Safety Officer and ICS personnel a plan for safeguarding personnel during the post-emergency phase of an incident. The post-emergency phase is when the situation is stabilized and cleanup operations have begun. ICS-208-CG SSP-B is intended to meet the requirements of the Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation, Title 29 Code of Federal Regulations Part 1910.120.

Preparation: The Safety Officer or his/her designated staff starts the Site Safety Plan. They initially address the hazards common to all operations involved in the response (initial site characterization). The plan is then reproduced and as a minimum sent to ICS Group/Division Supervisors. They amend it according to unique job or on-scene hazards with support from the Safety Officer and/or his/her staff (detailed site characterization). The plan is continuously updated to address changing conditions. During the first hours of the response, where most response functions are in the emergency phase, the Safety Officer may choose to use the Emergency Safety and Response Plan (ICS-208-CG SSP-A) in place of the Site Safety Plan. For large incidents, ICS-208-CG SSP-B compliments the Incident Action Plan (IAP). For smaller incidents, ICS-208-CG SSP-B compliments ICS Form 201. The Safety Officer is encouraged to use the HAZWOPER Compliance Checklist (Form ICS-208-CG SSP-K) to ensure the IAP and the 201 address the requirements and all other pertinent ICS forms (203, 205, 206, etc.) are completed.

Distribution: The initial Site Safety Plan completed by the Safety Officer is forwarded to the Planning Section Chief. Copies are made and attached to the Assignment List(s) (ICS Form 204). The Operations Section Chief, Directors, Supervisors or Leaders get a copy and make on site amendments specific to their operation. They must also ensure it is available on site for all personnel to review. The Safety Officer provides personnel from his/her staff to assist in the detailed site characterization. The Safety Officer is responsible for ensuring that the Site Safety Plan for each assignment properly addresses the hazards of the assignment. The Safety Officer must ensure that the safety plans on site are consistent. The Safety Officer accomplishes this through on site enforcement and feedback to the operational units.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Group/Division Supv Strike Team/TF Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	Site Accessibility	Check the block(s) if the site is accessible by land, water, air, etc.
8	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
9	Attachments	Enter attachments. Material Safety Data Sheets are mandatory under 1910.120. Safe Work Practices may also be attached.
10	Job/Task Activity	Enter Job/Task & Activities, list hazards, list potential injury and health effects, check exposure routes and identify controls. If more detail is needed for controls, provided attachments.
11	Prepared by	Enter the name and position of the person completing the worksheet.
12	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

CG ICS SSP: SITE MAP	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact) :
5. Supervisor/Leader	6. Location and Size of Site	7. Site Accessibility Land ☐ Water ☐ Air ☐ Comments:	8. For Emergencies Contact:	9. <u>Include</u> : - Work Zones - Locations of Hazards - Security Perimeter - Places of Refuge - Decontamination Line - Evacuation Routes
10. Sketch of Site: ☐ Attached. ☐ Drawn Here				
11. Prepared By: 12. Date/Time Briefed: HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving ICS-208-CG SSP-C (rev 4/15): Page _____ of _____				

SITE MAP FOR SITE SAFETY PLAN (ICS-208-CG SSP-C)

Purpose: The Site Map for the Site Safety Plan is required by Title 29 Code of Federal Regulations Part 1910.120. It provides in 1 place a visual description of the site which can help ICS personnel locate hazards, identify evacuation routes and places of refuge.

Preparation: The Site Map for the Site Safety Plan can be completed by the Safety Officer, his/her staff or by ICS field personnel (Group Supervisors, Task Force/Strike Team Leaders) working at a site with unique and specific hazards. One or several maps may be developed, depending on the size of the incident and the uniqueness of the hazards. The key is to ensure that the workers using the map(s) can clearly identify the work zones, locations of hazards, evacuation routes and places of refuge.

Distribution: This form must be located with the Site Safety Plan (ICS-208-CG SSP-B). It therefore follows the same distribution route.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	Site Accessibility	Check the block(s) if the site is accessible by land, water, air, etc.
8	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
9	Include	Ensure the map includes the listed items provided in this block.
10	Sketch of Site	Sketch of site for work. May attach map or chart.
10	Prepared by	Enter the name and position of the person completing the worksheet.
11	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

CG ICS SSP: EMERGENCY RESPONSE PLAN		1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact):
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:			8. Attachments: INCLUDE ICS FORM 206 and EMT Medical Response Procedures
9. Emergency Alarm (sound and location)	10. Backup Alarm (sound and location)	11. Emergency Hand Signals	12. Emergency Personal Protective Equipment Required:		
13. Emergency Notification Procedures		14. Places of Refuge (also see site map form 208B)	15. Emergency Decon and Evacuation Steps		16. Site Security Measures
17. Prepared By:	18. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving			ICS-208-CG SSP-D (rev 4/15) Page ____ of ____

EMERGENCY RESPONSE PLAN (ICS-208-CG SSP-D)

Purpose: The Emergency Response Plan provides information on measures to be taken in the event of an emergency. It is used in conjunction with the Site Safety Plan (Form ICS-208-CG SSP-B). It is also required by Title 29 Code of Federal Regulations Part 1910.120.

Preparation: The Safety Officer, his/her staff member or the Site Supervisor/Leader prepares the Emergency Response Plan. A copy of the Medical Plan (ICS Form 206) must always be attached to this form.

Distribution: This form must be located with Site Safety Plan (ICS-208-CG SSP-B). It therefore follows the same distribution route.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
8	Attachments	Enter attachments. ICS Form 206 must be included.
9	Emergency Alarm	Enter a description of the sound of the emergency alarm and it's location.
10	Backup Alarm	Enter a description of the sound of the emergency alarm and it's location.
11	Emergency Hand Signals	Enter the emergency hand signals to be used.
12	Emergency Personal Protective Equipment Required	Enter the emergency personal protective equipment that may be needed in the event of an emergency.
13	Emergency Notification Procedures	Enter the procedures for notifying the appropriate personnel and organizations in the event of an emergency.
14	Places of Refuge	Enter by name the place of refuge personnel can go to in the event of an emergency.
15	Emergency Decon & Evacuation Steps	Enter emergency decontamination steps and evacuation procedures.
16	Site Security Measures	Enter site security measures needed for emergencies.
17	Prepared by	Enter the name and position of the person completing the worksheet.
18	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

CG ICS SSP: Exposure Monitoring Plan		1. Incident Name		2. Date/Time Prepared		3. Operational Period		4. Safety Officer (include method of contact):	
5. Specific Task/Operation	6. Survey Location	7. Survey Date/Time	8. Monitoring Methodology	9. Direct-Reading Instrument	10. Air Sampling/Analysis Method	11. Hazard(s) to Monitor	12. Monitoring Duration	13. Reasons to Monitor	14. Laboratory Support for Analysis
			☐ Personal Breathing Zone ☐ Area Air Monitoring ☐ Dermal Exposure ☐ Biological: ☐ Blood ☐ Urine ☐ Other ☐ Obtain bulk samples ☐ Other: _____	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Method:</u> <u>Collecting Media:</u> ☐ Charcoal Tube ☐ Silica Gel ☐ 37 mm MCE Filter ☐ 37 mm PVC Filter ☐ Other: _____			☐ Regulatory Compliance ☐ Assess current PPE adequacy ☐ Validate engineering controls ☐ Monitor IDLH Conditions ☐ Other _____	
			☐ Personal Breathing Zone ☐ Area Air Monitoring ☐ Dermal Exposure ☐ Biological: ☐ Blood ☐ Urine ☐ Other ☐ Obtain bulk samples ☐ Other: _____	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Method:</u> <u>Collecting Media:</u> ☐ Charcoal Tube ☐ Silica Gel ☐ 37 mm MCE Filter ☐ 37 mm PVC Filter ☐ Other: _____			☐ Regulatory Compliance ☐ Assess current PPE adequacy ☐ Validate engineering controls ☐ Monitor IDLH Conditions ☐ Other _____	
			☐ Personal Breathing Zone ☐ Area Air Monitoring ☐ Dermal Exposure ☐ Biological: ☐ Blood ☐ Urine ☐ Other ☐ Obtain bulk samples ☐ Other: _____	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Method:</u> <u>Collecting Media:</u> ☐ Charcoal Tube ☐ Silica Gel ☐ 37 mm MCE Filter ☐ 37 mm PVC Filter ☐ Other: _____			☐ Regulatory Compliance ☐ Assess current PPE adequacy ☐ Validate engineering controls ☐ Monitor IDLH Conditions ☐ Other _____	
			☐ Personal Breathing Zone ☐ Area Air Monitoring ☐ Dermal Exposure ☐ Biological: ☐ Blood ☐ Urine ☐ Other ☐ Obtain bulk samples ☐ Other: _____	<u>Model:</u> <u>Manufacturer:</u> Last Mfr <u>Calibration Date:</u>	<u>Method:</u> <u>Collecting Media:</u> ☐ Charcoal Tube ☐ Silica Gel ☐ 37 mm MCE Filter ☐ 37 mm PVC Filter ☐ Other: _____			☐ Regulatory Compliance ☐ Assess current PPE adequacy ☐ Validate engineering controls ☐ Monitor IDLH Conditions ☐ Other _____	
15. Prepared By:		16. Date/Time Briefed:		HAZARD LIST: <u>Potential Health Effects:</u> Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning					
18. Safety Officer Review:			<u>Reporting:</u> Monitoring results shall be logged in the ICS-208-CG SSP-E-1 form (Air Monitoring Log) and attached as part of a current Site Safety Plan and Incident Action Plan. Significant Exposures shall be immediately addressed to the IC and General Staff for immediate correction.					ICS-208-CG SSP-E (rev 4/15) Page _____ of _____	

EXPOSURE MONITORING PLAN (FORM ICS-208-CG SSP-E)

Purpose: The Exposure Monitoring Plan provides plan of monitoring conducted during an incident. The plan is a supplement to the Site Safety Plan (ICS-208-CG SSP-B). It is only required when performing monitoring operations.

Preparation: The Safety Officer, his/her staff member or the Site Supervisor/Leader prepares the Exposure Monitoring Plan. If there is a decision not to monitor during a response, the reasons must be stated clearly in the Site Safety Plan (ICS-208-CG SSP-B).

Distribution: This form must be located with Site Safety Plan (ICS-208-CG SSP-B). It therefore follows the same distribution route.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Specific Task / Operation	Enter specific task or operation.
6	Survey Location	Enter the location to be monitored.
7	Survey Date/Time	Enter the date/time for the monitoring teams to survey.
8	Monitoring Methodology	Enter/Check the monitoring method to be used.
9	Direct-Reading Instrument	Enter the instrument model, manufacturer, last calibration date.
10	Air Sampling	Enter Air Sampling analysis method
11	Hazards to Monitor	Enter the hazards to monitor
12	Monitoring Duration	Enter duration of monitoring
13	Reasons to Monitor	Enter Reasons to Monitor
14	Laboratory Support for Analysis	Enter Laboratory Support needed for analysis of samples
15	Prepared by	Enter the name and position of the person completing the worksheet.
16	Date/Time Briefed	Enter the date/time the document was briefed to the appropriate workers and by whom.
17	Safety Officer Review	The Safety Officer must review and sign the form.

CG ICS SSP: AIR MONITORING LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Site Location	6. Hazards of Concern	7. Action Levels (include references):		8. <u>Weather</u> : Air Temperature: Water Temp: Precipitation: Wind: Relative Humidity: Cloud Cover:	
9.a. Instrument, ID Number Calibrated? Indicate below.	9.b. Monitoring Person Name(s)	9.c. Results (units)	9.d. Location	9.f. Time	9.g. Interferences and Comments
10. Safety Officer Review:		Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, & Eye Burning		ICS-208-CG SSP-E-1 (rev 4/15): Page _____ of _____	

DAILY AIR MONITORING LOG (FORM ICS-208-CG SSP-E-1)

Purpose: The Exposure Monitoring Log provides documentation of air monitoring conducted during a spill. The log is a supplement to the Site Safety Plan (ICS-208-CG SSP-B). It is only required when performing air monitoring operations. The information used from the log can help update the Site Safety Plan.

Preparation: Persons conducting monitoring complete the Daily Air Monitoring Log. Normally these are air monitoring units under the Site Safety Officer. If there is a decision not to monitor during a spill, the reasons must be stated clearly in the Site Safety Plan (ICS-208-CG SSP-B).

Distribution: The Daily Air Monitoring Log when completed is copied and forwarded to the Site Safety Officer who must review and sign the form. The original form must be available on site, readily available and briefed to all impacted ICS personnel.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Location & size of site	Enter the geographical location of the site and the approximate square area.
6	Hazards of Concern	Enter the hazards being monitored.
7	Action Levels	Enter the action levels/readings for the monitoring teams.
8	Weather	Enter weather information. Ensure units of measure are listed.
9	Air Monitoring Data	Enter the instrument type and number, persons monitoring, results with appropriate units, location of reading, time of reading and interferences and comments.
10	Safety Officer Review	The Safety Officer must review and sign the form.

CG ICS SSP: PERSONAL PROTECTIVE EQUIPMENT		1. Incident Name		2. Date/Time Prepared		3. Operational Period		4. Safety Officer (include method of contact):	
5. Supervisor/Leader		6. Location and Size of Site		7. Hazards Addressed:			8. For Emergencies Contact:		
9. Equipment:								10. References Consulted:	
11. Inspection Procedures:		12. Donning Procedures:		13. Doffing Procedures:			14. Limitations and Precautions (include maximum stay time in PPE):		
15. Prepared By:		16. Date/Time Briefed:		Potential Health Effects: Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning				ICS-208-CG SSP-F: (Rev 4/15) Page ____ of ____	

PERSONAL PROTECTIVE EQUIPMENT (ICS-208-CG SSP-F)

Purpose: The Personal Protective Equipment form is a list of personal protective equipment to be used in operations. The listing of personal protective equipment is required by Title 29 Code of Federal Regulations Part 1910.120.

Preparation: The Personal Protective Equipment form is completed by the Site Safety Officer, or his/her staff. Personal protective equipment common to all ICS Operations personnel is addressed first. Jobs with unique personal protective equipment requirements (fall protection) are addressed next. When the form is delivered on site, the ICS Director, Supervisor, or Leader may amend the list to ensure personnel are adequately protected from job hazards. It must be completed prior to the onset of any operations, unless addressed elsewhere by Standard Operating Procedures.

Distribution: This form must be located with Site Safety Plan (ICS-208-CG SSP-B). It therefore follows the same distribution route.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	Hazard(s) Addressed:	Enter the hazards that need to be safeguarded.
8	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
9	Equipment	List the equipment needed to address the hazards. If pre-designed Safe Work Practices are used, indicate here and attach to form.
10	References consulted	List the references used in making the selection for PPE.
11	Inspection Procedures	Enter the procedures for inspecting the Personal Protective Equipment prior to donning. If pre-designed Safe Work Practices are used, indicate here and attach to form.
12	Donning Procedures	Enter the procedures for putting on the PPE. If pre-designed Safe Work Practices are used, indicate here and attach to form.
13	Doffing Procedures	Enter the information for removing the PPE. If pre-designed Safe Work Practices are used, indicate here and attach to form.
14	Limitations and Precautions	List the limitations and precautions when using PPE. Include the maximum time to be inside the PPE, Heat Stress concerns, psychomotor skill detracting and other factors.
15	Prepared by	Enter the name and position of the person completing the worksheet.
16	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

CG ICS SSP: DECONTAMINATION		1. Incident Name		2. Date/Time Prepared		3. Operational Period		4. Safety Officer (include method of contact):	
5. Supervisor/Leader		6. Location and Size of Site		7. For Emergencies Contact:			8. Hazard(s) Addressed:		
9. Equipment:								10. References Consulted:	
11. Contamination Avoidance Practices:		12. Decon Diagram: ☐ Attached, ☐ Drawn below						13. Decon Steps	
14. Prepared By:		15. Date/Time Briefed:		<u>Potential Health Effects:</u> Bruise/Lacerations, Organ Damage, Central Nervous System Effects, Cancer, Reproductive Damage, Low Back Pain, Temporary Hearing Loss, Dermatitis, Respiratory Effects, Bone Breaks, Eye Burning				ICS-208-CG SSP-G (rev 4/15): Page ____ of ____	

DECONTAMINATION (ICS-208-CG SSP-G)

Purpose: The Decontamination form provides information on how workers can avoid contamination and how to get decontaminated. It is a supplemental form to the Site Safety Plan.

Preparation: The Decontamination Form can be completed by the Site Safety Officer, a member of his/her staff or by the Group/Division Supervisor, Task Force/Strike Team Leader on the site

Distribution: This form must be located with Site Safety Plan (ICS-208-CG SSP-B). It therefore follows the same distribution route.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
8	Hazard(s) Addressed:	Enter the hazards that need to be safeguarded.
9	Equipment	Enter the decontamination equipment needed for the site. If pre-designed Safe Work Practices are used, indicate here and attach to this form.
10	References consulted	List the references used in making the selection for PPE.
11	Contamination Avoidance Practices	Enter procedures for personnel to avoid contamination. If pre-designed Safe Work Practices are used, indicate here and attach to form.
12	Decon Diagram	Draw a diagram for the decontamination operation. If pre-designed Safe Work Practices are used, indicate here and attach to form.
13	Decon Steps	List the decontamination steps.
14	Prepared by	Enter the name and position of the person completing the worksheet.
15	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

CG ICS SSP: ENFORCEMENT LOG	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact)	
5. Supervisor/Leader	6. For Emergencies Contact:			7. Attachments:	
8.a. Job Task/Activity	8.b. Hazards	8.c. Deficiency	8.d. Action Taken	8.e. Safety Plan Amended?	8.f. Signature of Supervisor/Leader
9. Prepared By:	10. Date/Time Briefed:	HAZARD LIST: Physical/Safety, Toxic, Explosion/Fire, Oxygen Deficiency, Ionizing Radiation, Biological, Biomedical, Electrical, Heat Stress, Cold Stress, Ergonomic, Noise, Cancer, Dermatitis, Drowning, Fatigue, Vehicle, & Diving			ICS-208-CG SSP-H (rev 4/15): Page ____ of ____

SITE SAFETY ENFORCEMENT LOG (ICS-208-CG SSP-H)

Purpose: The Site Safety Plan Enforcement Log is used to help enforce safety during an incident.

Preparation: The Safety Officer and/or his/her staff complete the Site Safety Plan Enforcement Log. The log is completed as Safety personnel are on scene reviewing the site. It should be completed at a minimum once per day. The number of enforcement logs to be completed depends on the size of the incident. Enough should be completed to ensure that site safety is being adequately enforced.

Distribution: The Site Safety Plan enforcement log when completed is delivered to the Safety Officer. The Safety Officer can use the form to amend the Site Safety Plan (ICS-208-CG SSP-A or B).

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
7	Attachments	List any attached supporting documentation.
8 a	Job/Task Activity	Enter only those Job Task/activities for which a deficiency is noted.
8 b	Hazards	Enter the hazard not being sufficiently addressed.
8 c	Deficiency	Enter the deficiency.
8 d	Action Taken	Enter the corrective action taken to address the deficiency.
8 e	Safety Plan Amended?	Enter whether the on site safety plan was amended.
8 f	Signature of Supervisor/Leader	Ensure the Supervisor/Leader signs the form to acknowledge the deficiency.
9	Prepared by	Enter the name and position of the person completing the worksheet.
10	Date/Time Briefed:	Enter the date/time the document was briefed to the appropriate workers and by whom.

[illegible]

WORKER ACKNOWLEDGEMENT FORM (ICS-208-CG SSP-I)

Purpose: The Worker Acknowledgement form is used to document workers who have received safety briefings.

Preparation: Those personnel responsible for conducting safety briefings complete this form initially. Once the briefings are completed, workers who were briefed print their name, sign, date and indicate the time of the briefing.

Distribution: This form is returned to the Safety Officer or designated representative at the end of each operational period.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Site Location	Indicate the location where the briefings are held.
3	Attachments	Indicate any attachments used as part of the briefings.
4	Type of briefing	Check the block next to the type of briefing.
5	Presented by	Enter the name of the person conducting the briefing.
6	Date Presented	Enter the date of the briefing.
7	Time Presented	Enter the time of the briefing.
8	Worker Name, Signature, Date and Time	Workers receiving the briefing print their name, sign, date and enter the time they acknowledge the briefing.

CG ICS SSP: Emergency Safety & Response Plan 1910.120 Compliance Checklist (Form A)		1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments		
(q)(1)	Is the plan in writing?	SSP-A	☐			
(1)	Is the plan available for inspection by employees?	N/A	☐	Performance based		
(q)(2)(i)	Does the plan address pre-emergency planning and coordination?	SSP-A	☐			
(ii)	Does it address personnel roles?	SSP-A	☐			
(ii)	Does it address lines of authority?	SSP-A	☐			
(ii)	Does it address communications?	SSP-A	☐			
(iii)	Does it address emergency recognition?	SSP-A	☐			
(iii)	Does it address emergency prevention?	SSP-A	☐			
(iv)	Does it identify safe distances?	SSP-A	☐			
(iv)	Does it address places of refuge?	SSP-A	☐			
(v)	Does it address site security and control?	SSP-A	☐			
(vi)	Does it identify evacuation routes?	SSP-A	☐			
(vi)	Does it identify evacuation procedures?	SSP-A	☐			
(vii)	Does it address decontamination?	SSP-A	☐			
(viii)	Does it address medical treatment and first aid?	SSP-A	☐			
(ix)	Does it address emergency alerting procedures?	SSP-A	☐			
(ix)	Does it address emergency response procedures	SSP-A	☐			
(x)	Was the response critiqued?	N/A	☐	Performance based		
(xi)	Does it identify Personal Protection Equipment?	SSP-A	☐			
(xi)	Does it identify emergency equipment?	SSP-A	☐			
(q)(3)(ii)	All the hazardous substances identified to the extent possible?	N/A	☐	Performance based		
(ii)	All the hazardous conditions identified to the extent possible?	N/A	☐	Performance based		
(ii)	Was site analysis addressed?	N/A	☐	Performance based		
(ii)	Were engineering controls addressed?	N/A	☐	Performance based		
(ii)	Were exposure limits addressed?	N/A	☐	Performance based		
(ii)	Were hazardous substance handling procedures addressed?	N/A	☐	Performance based		
(iii)	Is the PPE appropriate for the hazards identified?	N/A	☐	Performance based		
(iv)	Is respiratory protection worn when inhalation hazards present?	N/A	☐	Performance based		
(v)	Is the buddy system used in the hazard zone?	N/A	☐	Performance based		
(vi)	Are backup personnel on standby?	N/A	☐	Performance based		
(vi)	Are advanced first aid support personnel standing by?	N/A	☐	Performance based		
(vii)	Has the ICS designated safety official been identified?	SSP-A	☐			
(vii)	Has the Safety Official evaluated the hazards?	N/A	☐	Performance based		
(viii)	Can the Safety Official communicate with IC immediately?	N/A	☐	Performance based		
(ix)	Are appropriate decontamination procedures implemented?	N/A	☐	Performance based		

Emergency Safety & Response Plan Compliance Checklist Form A (ICS-208-CG SSP-J)

Purpose: The Emergency Safety and Response Plan 1910.120 Compliance Checklist is to ensure that incident response operations are in compliance with Title 29, Code of Federal Regulations Part 1910.120, Hazardous Waste Operations and Emergency Response. It also identifies how form ICS-208-CG SSP-J can be used to satisfy the HAZWOPER requirements. This checklist is an optional form.

Preparation: The Emergency Safety and Response Plan 1910.120 Compliance Checklist is completed by the Safety Officer or his/her staff as frequently as necessary whenever the Safety Officer wants to ensure regulatory compliance. It is best used in conjunction with the Site Safety Plan Enforcement Log (ICS-208-CG SSP-H). Many of the requirements are performance based and are best evaluated on scene by the Safety Officer or his/her staff.

Distribution: The Safety Officer should maintain The Emergency Safety and Response Plan (ERP) 1910.120 Compliance Checklist.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
5	Location of Site	Enter the site location.
6 a	Cites	These are the regulatory cites within 1910.120. The major headings are highlighted in bold. Informational cites or cites that are duplicative are not included.
6 b	Requirement	This lists the requirement in a question format. Some require documentation or some form of action.
6 c	ICS Form	Lists those requirements covered by ICS-208-CG SSP-A.
6 d	Check Block	Enter the check if the site satisfies the requirement.
6 f	Comments	This provides additional information on the requirement. The user may also enter comments.
7	Prepared by	Enter the name and position of the person completing the worksheet.

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST (Form B)		1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Site Supervisor/Leader	5. Location of Site
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments		
1910.120 (b)(1)(ii)(A)	Organizational structure?	203	☐			
(B)	Comprehensive workplan?	IAP	☐	Incident Action Plan		
(C)	Site Safety Plan?	SSP-B	☐			
(D)	Safety and health training program?	N/A	☐	Responsibility of each employer		
(E)	Medical surveillance program?	N/A	☐	Responsibility of each employer		
(F)	Employer SOPs?	N/A	☐	Responsibility of each employer		
(G)	Written program related to site activities?	N/A	☐			
(b)(1)(iii)	Site excavation meets shored or slope requirements in 1926?	N/A	☐			
(b)(2)(i)(D)	Lines of communication?	201 203 205	☐			
(b)3(iv)	Training addressed?	N/A	☐	Responsibility of each employer		
(v)-(vi)	Information and medical monitoring addressed?	N/A	☐	Responsibility of each employer		
(b)4(i)	Site Safety Plan kept on site?	N/A	☐			
(ii)(A)	Safety and health hazard analysis conducted?	N/A	☐			
(B)	Properly trained employees assigned to right jobs?	N/A	☐			
(C)	Personnel Protective Equipment issues addressed?	SSP-F	☐			
(E)	Frequency and types of air monitoring addressed?	SSP-E	☐			
(F)	Site control measures in place?	SSP-B	☐			
(G)	Decontamination procedures in place?	SSP-G	☐			
(H)	Emergency Response Plan in place?	SSP-D	☐			
(I)	Confined space entry procedures?	SSP-B	☐			
(J)	Spill containment program	SSP-B	☐			
(iii)	Pre-entry briefings conducted?	SSP-I	☐			
(iv)	Site Safety Plan effectiveness evaluated?	SSP-H	☐			
(c)(1)	Site characterization done?	N/A	☐			
(c)(2)	Preliminary evaluation done by qualified person?	N/A	☐			
(c)(3)	Hazard identification performed?	SSP-B	☐			
(c)(4)(i)	Location and size of site identified?	SSP-B	☐			
(ii)	Response activities, job tasks identified?	SSP-B	☐			
(iii)	Duration of tasks identified?	SSP-B	☐	Operational period		
(iv)	Site topography and accessibility addressed?	SSP-C	☐			
(v)	Health and safety hazards addressed?	SSP-B	☐			
(vi)	Dispersion pathways addressed?	SSP-B	☐			
(vii)	Status and capabilities of medical emergency response teams?	206	☐			
(c)(5)(i)(iv)	Chemical protective clothing addressed and properly selected?	SSP-F	☐			
(ii)	Respiratory protection addressed?	SSP-B and F	☐			
(iii)	Level B used for unknowns?	N/A	☐			

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST (Form B)		1. Incident Name	2. Date/Time Prepared	3. Operational Period	
6.a. Cite: 1910.120	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (c)(6)(i)	Monitoring for ionization conducted?	SSP-E	☐		
(ii)	Monitoring conducted for IDLH conditions?	SSP-E	☐		
(iii)	Personnel looking out for dangers of IDLH environments?	N/A	☐		
(iv)	Ongoing air monitoring program in place?	SSP-E	☐		
(c)(7)	Employees informed of potential hazard occurrence?	SSP-B	☐		
(c)(8)	Properties of each chemical made aware to employees?	SSP-B	☐		
(d)(1)	Appropriate site control procedures in place?	IAP, SSP-B	☐		
(d)(2)	Site control program developed during planning stages?	IAP, SSP-B	☐		
(d)(3)	Site map, work zones, alarms, communications addressed?	IAP, SSP-B	☐		
(g)(1)(i)	Engineering, admin controls considered?	SSP-B	☐		
(iii)	Personnel not rotated to reduce exposures?	N/A	☐		
(g)(5)(i)	PPE selection criteria part of employer's program?	N/A	☐	Responsibility of employer	
(ii)	PPE use and limitations identified?	SSP-F	☐		
(iii)	Work mission duration identified?	SSP-F	☐		
(iv)	PPE properly maintained and stored?	N/A	☐	Responsibility of employer	
(vi)	Are employees properly trained and fitted with PPE?	N/A	☐	Responsibility of employer	
(vii)	Are donning and doffing procedures identified?	SSP-F	☐		
(viii)	Are inspection procedures properly identified?	SSP-F	☐		
(ix)	Is a PPE evaluation program in place?	SSP-F	☐		
(h)(3)	Periodic monitoring conducted?	SSP-E	☐		
(k)(2)(i)	Have decontamination procedures been established?	SSP-G	☐		
(ii)	Are procedures in place for contamination avoidance?	SSP-G	☐		
(iii)	Is personal clothing properly deconned prior to leaving the site?	SSP-G	☐		
(iv)	Are decontamination deficiencies identified and corrected?	SSP-H	☐		
(k)(3)	Are decontamination lines in the proper location?	SSP-C	☐		
(k)(4)	Are solutions/equipment used in decon properly disposed of?	N/A	☐		
(k)(6)	Is protective clothing and equipment properly secured?	N/A	☐		
(k)(7)	If cleaning facilities are used, are they aware of the hazards?	N/A	☐		
(k)(8)	Have showers and change rooms provided, if necessary?	N/A	☐		
(l)(1)(iii)	Are provisions for reporting emergencies identified?	SSP-D	☐		
(iv)	Are safe distances and places of refuge identified?	SSP-B and C	☐		
(v)	Site security and control addressed in emergencies?	SSP-D	☐		
(vi)	Evacuation routes and procedures identified?	SSP-D	☐		
(vii)	Emergency decontamination procedures developed?	SSP-D	☐		
(ix)	Emergency alerting and response procedures identified?	SSP-D	☐		
(x)	Response teams critiqued and followup performed?	SSP-H	☐		
(xi)	Emergency PPE and equipment available?	SSP-D	☐		

CG ICS SSP: 1910.120 COMPLIANCE CHECKLIST (Form B)		1. Incident Name	2. Date/Time Prepared	3. Operational Period	
6.a. Cite:	6.b. Requirement(sections that duplicate or explain are omitted)	6.c. ICS Form	6.d. Check	6.e. Comments	
1910.120 (l)(3)(i)	Emergency notification procedures identified?	SSP-D	☐		
(ii)	Emergency response plan separate from Site Safety Plan?	SSP-D	☐		
(iii)	Emergency response plan compatible with other plans?	SSP-D	☐		
(iv)	Emergency response plan rehearsed regularly?	SSP-D	☐		
(v)	Emergency response plan maintained and kept current?	SSP-H	☐		
1910.165 (b)(2)	Can alarms be seen/heard above ambient light and noise levels?	N/A	☐		
(b)(3)	Are alarms distinct and recognizable?	N/A	☐		
(b)(4)	Are employees aware of the alarms and are they accessible?	SSP-D	☐		
(b)(5)	Are emergency phone numbers, radio frequencies clearly posted?	206	☐		
(b)(6)	Signaling devices in place where there are 10 or more workers?	IAP	☐		
(c)(1)	Are alarms like steam whistles, air horns being used?	IAP	☐		
(d)(3)	Are backup alarms available?	IAP	☐		
(m)	Are areas adequately illuminated?	IAP	☐		
(n)(1)(i)	Is an adequate supply of potable water available?	IAP	☐		
(ii)	Are drinking water containers equipped with a tap?	IAP	☐		
(iii)	Are drinking water containers clearly marked?	IAP	☐		
(iv)	Is a drinking cup receptacle available and clearly marked?	IAP	☐		
(n)(2)(i)	Are non-potable water containers clearly marked?	IAP	☐		
(n)(3)(i)	Are their sufficient toilets available?	IAP	☐		
(n)(4)	Have food handling issues been addressed?	IAP	☐		
(n)(6)	Have adequate wash facilities been provided outside hazard zone?	IAP	☐		
(n)(7)	If response is greater than 6 months, have showers been provided?	IAP	☐		
7. Prepared By:		ICS-208-CG SSP-K (rev 4/15): Page 3. Page ____ of ____			

HAZWOPER 1910.120 COMPLIANCE CHECKLIST FORM B (ICS-208-CG SSP-K)

Purpose: The HAZWOPER 1910.120 Compliance Checklist is to ensure that incident response operations are in compliance with Title 29, Code of Federal Regulations Part 1910.120, Hazardous Waste Operations and Emergency Response. It also identifies how other ICS forms can be used to satisfy the HAZWOPER requirements. This is an optional form.

Preparation: The HAZWOPER 1910.120 Compliance Checklist is completed by the Safety Officer or his/her staff as frequently as necessary whenever the Safety Officer wants to ensure regulatory compliance. It is best used in conjunction with the Site Safety Plan Enforcement Log (ICS-208-CG SSP-H). The Site Safety Plan Forms (A-G) best meet some of the requirements. The Incident Action Plan is suited to address other requirements, and the Safety Officer should ensure the IAP addresses them. Other requirements are performance based and are best evaluated on scene by the Safety Officer or his/her staff.

Distribution: The HAZWOPER 1910.120 Compliance Checklist should be maintained by the Safety Officer.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
5	Location of Site	Enter the site location.
6.a.	Cites	These are the regulatory cites within 1910.120. The major headings are highlighted in bold. Informational cites or cites that are duplicative are not included.
6.b.	Requirement	This lists the requirement in a question format. Some require documentation or some form of action.
6.c.	ICS Form	Lists those ICS Forms that cover the requirement. IAP designations means it should be covered in IAP, it does not guarantee it is covered. The Safety Officer must ensure this.
6.d.	Check Block	Enter the check if the site satisfies the requirement.
6.e.	Comments	This provides information on where else the requirement may be met. The user may also enter comments.
7	Prepared by	Enter the name and position of the person completing the worksheet.

CG ICS SSP: 1910.120 DRUM COMPLIANCE CHECKSHEET	1. Incident Name	2. Date/Time Prepared	3. Operational Period	4. Safety Officer (include method of contact):
5. Supervisor/Leader	6. Location and Size of Site	7. For Emergencies Contact:		8. Note: <u>tanks and vaults</u> should also be treated in the same manner as described below [1910.120(j)(9)]. Many can also pose confined space hazards.
9.a. Cite: 1910.120 (Cites that duplicate or explain requirements are omitted)	9.b. Requirement		9.c. Check	9.d. Comments
(j)(1)(ii)	Drums meet DOT, OSHA, EPA regs for waste they contain, including shipment?		☐	
(iii)	Drums inspected and integrity ensured prior to movement?		☐	
(iii)	Or drums moved to an accessible location (staging area) prior to movement?		☐	
(iv)	Unlabelled drums treated as unknown until properly identified and labeled?		☐	
(v)	Site activities organized to minimize drum handling?		☐	
(vi)	Employers properly warned about the hazards of moving and handling drums?		☐	
(vii)	Suitable overpack drums are available for addressing leaking and ruptured drums?		☐	
(viii)	Leaking materials from drums properly contained?		☐	
(ix)	Are drums that cannot be moved, emptied of contents with transfer equipment?		☐	
(x)	Are suspect buried drums surveyed with underground detection system?		☐	
(xi)	Are soil and covering material above buried drums removed with caution?		☐	
(xii)	Is the proper extinguishing equipment on scene to control incipient fires?		☐	
(j)(2)(i)	Are airlines on supplied air systems protected from leaking drums?		☐	
(ii)	Are employees at a safe distance, using remote equipment, when handling explosive drums?		☐	
(iii)	Are explosive shields in place to protect workers opening explosive drums?		☐	
(iv)	Is response equipment positioned behind shields when shields are used?		☐	
(v)	Are non-sparking tools used in flammable or potentially flammable atmospheres?		☐	
(vi)	Are drums under extreme pressure opened slowly & workers protected by shields/distance?		☐	
(vii)	Are workers prohibited from standing and working on drums?		☐	
(j)(3)	Is the drum handling equipment positioned and operated to minimize sources of ignition?		☐	
(j)(5)(i)	For shock sensitive drums, have all non-essential employees been evacuated?		☐	
(ii)	For shock sensitive drums: is handling equipment provided with shields to protect workers?		☐	
(iii)	Are alarms that announce start/finish of explosive drum handling actions in place?		☐	
(iv)	Are continuous communications in place between the drum handling site & command post?		☐	
(v)	Are drums under pressure properly controlled for prior to handling?		☐	
(vi)	Are drums containing packaged laboratory wastes treated as shock sensitive?		☐	
(j)(6)(i)	Are lab packs opened by trained and experienced personnel?		☐	
(ii)	Are lab packs showing crystallization treated as shock sensitive?		☐	
(j)(8)(ii-iii)	Are drum staging areas manageable with marked access and egress?		☐	
(iv)	Is bulking of drums conducted only after drum contents have been properly identified?		☐	
10. Prepared By:			Form SSP-L (rev 4/15) Page ____ of ____	

HAZWOPER 1910.120 DRUM COMPLIANCE CHECKLIST (ICS-208-CG SSP-L)

Purpose: The HAZWOPER 1910.120 Drum Compliance Checklist is to ensure that incident response operations are in compliance with Title 29, Code of Federal Regulations Part 1910.120, Hazardous Waste Operations and Emergency Response whenever drums are encountered during an incident. This is an optional form.

Preparation: The HAZWOPER 1910.120 Drum Compliance Checklist is completed by the Safety Officer or his/her staff as frequently as necessary whenever the Safety Officer wants to ensure regulatory compliance. It is best used in conjunction with the Site Safety Plan Enforcement Log (ICS-208-CG SSP-H). The Site Safety Plan Forms (A-G) best meet some of the requirements. Other requirements are performance based and are best evaluated on scene by the Safety Officer or his/her staff.

Distribution: The HAZWOPER 1910.120 Drum Compliance Checklist should be maintained by the Safety Officer.

Instructions:

Item #	Item Title	Instructions
1	Incident Name	Print the name assigned to the incident.
2	Date/Time Prepared	Enter date (month, day, year) prepared.
3	Operational Period	Enter the time interval for which the assignment applies.
4	Safety Officer	Enter the name of the Safety Officer and means of contact.
5	Supervisor/Leader	The Supervisor/Leader who receives this form will enter their name here.
6	Location & size of site	Enter the geographical location of the site and the approximate square area.
7	For Emergencies Contact	Enter the name and way to contact the individual who handles emergencies.
8	Note	<u>Tanks and vaults</u> should also be treated in the same manner as described in the checklist (1910.120((j)(9))).
9.a.	Cites	These are the regulatory cites within 1910.120. The major headings are highlighted in bold. Informational cites or cites that are duplicative are not included.
9.b.	Requirement	This lists the requirement in a question format. Some require documentation or some form of action.
9.c.	Check Block	Enter the check if the site satisfies the requirement.
9.d.	Comments	This provides information on where else the requirement may be met. The user may also enter comments.
10	Prepared by	Enter the name and position of the person completing the worksheet.

1. Incident Name	2. Operational Period (Date / Time) From: To: Time of Report	INCIDENT STATUS SUMMARY ICS 209-CG	
3. Type of Incident			
☐ Oil Spill	☐ HAZMAT	☐ AMIO	
☐ SAR/Major SART	☐ SI/Terrorism	☐ Natural Disaster	
☐ Marine Disaster	☐ Civil Disturbance	☐ Military Outload	
☐ Planned Event	☐ Maritime HLS/Prevention	☐	
4. Situation Summary as of Time of Report:			
5. Future Outlook/Goals/Needs/Issues:			
6. Safety Status/Personnel Casualty Summary			
	Since Last Report	Adjustments To Previous Op Period	Total
Responder Injury			
Responder Death			
Public Missing (Active Search)			
Public Missing (Presumed Lost)			
Public Uninjured			
Public Injured			
Public Dead			
Total Public Involved			
7. Property Damage Summary			
Vessel		\$	
Cargo		\$	
Facility		\$	
Other		\$	
8. Attachments with clarifying information			
☐ Oil/HAZMAT	☐ SAR/LE	☐	
☐	☐	☐	
☐ Marine Disaster	☐ Civil Disturbance	☐	Military Outload

9. Equipment Resources					
Kind	Notes	# Ordered	# Available	# Assigned	# Out of Service
<u>USCG Assets</u>					
Aircraft – Helo					
Aircraft – Fixed Wing					
Vessels – USCG Cutter					
Vessels – Boat					
Vehicles – Car					
Vehicles – Truck					
Pollution Equip – VOSS/SORS					
Pollution Equip – Portable Storage					
Pollution Equip – Boom					
<u>Non-CG/Other Assets</u>					
Aircraft – Helo					
Aircraft – Fixed Wing					
Vessels – SAR/LE Boat					
Vessels – Work/Crew Boat					
Vessels – Tug/Tow Boat					
Vessels – Pilot Boat					
Vessels – Deck Barge					
Vessels –					
Vehicles – Car					
Vehicles – Ambulance					
Vehicles – Truck					
Vehicles – Fire/Rescue/HAZMAT					
Vehicles – Vac/Tank Truck					
Vehicles –					
Pollution Equip – Skimmers					
Pollution Equip – Tank Vsl/ Barge					
Pollution Equip – Portable Storage					
Pollution Equip – OSRV					
Pollution Equip – Boom					
Pollution Equip –					
10. Personnel Resources					
Agency					Total # of People
USCG					
DHS (other than USCG)					
NOAA					
FBI					
DOD (USN Supsalv, CST, etc.)					
DOI (US Fish & Wildlife, Nat Parks, BLM, etc.)					
RP					
State					
Local					
Total Personnel Resources Used From all Organizations:					
11. Prepared by:					Date/Time Prepared:

1. Incident Name	2. Operational Period (Date / Time) From: To: Time of Report	ICS 209-CG OIL/HAZMAT ATTACHMENT				
3. HAZMAT/Oil Spill Status (Estimated, in gallons)						
Common Name(s):						
UN Number:	☐ Secured	☐ Unsecured				
CAS Number:	Remaining Potential (bbl):					
	Rate of Spillage (bbl/hr):					
	Adjustments To Previous Operational Period	Since Last Report				
	Total					
Volume Spilled/Released						
<u>Mass Balance - HAZMAT/Oil Budget</u>						
Recovered HAZMAT/Oil						
Evaporation/Airborne						
Natural Dispersion						
Chemical Dispersion						
Burned						
Floating, Contained						
Floating, Uncontained						
Onshore						
Total HAZMAT/Oil accounted for:	N/A	N/A				
Comments:						
4. HAZMAT/Oil Waste Management (Estimated, Since Last Report)						
	Recovered	Disposed				
	Stored					
HAZMAT/Oil (bbl)						
Oily Liquids (bbl)						
Liquids (bbl)						
Oily Solids (tons)						
Solids (tons)						
Comments:						
5. HAZMAT/Oil Shoreline Impacts (Estimated in miles)						
Degree of Impact	Affected	Cleaned				
	To Be Cleaned					
Light						
Medium						
Heavy						
Total						
Comments:						
6. HAZMAT/Oil Wildlife Impacts (Since Last Report)						
					Died in Facility	
Type of Wildlife	Captured	Cleaned	Released	DOA	Euthanized	Other
Birds						
Mammals						
Reptiles						
Fish						
Total						
Comments:						
7. Prepared by:					Date/Time Prepared:	

1. Incident Name	2. Operational Period (Date / Time) From: To: Time of Report	ICS 209-CG SAR/LE ATTACHMENT
3. Evacuation Status		
	Since Last Report	Adjustments To Previous Operational Period
Total to be Evacuated		
Number Evacuated		
4. Migrant Interdiction Status		
	Since Last Report	Adjustments To Previous Op Period
Vessels Interdicted		
Migrants Interdicted at Sea		
Migrants Interdicted Ashore		
Injured		
MEDEVAC'd		
Deaths		
Migrants Repatriated		
5. Sorties/Patrols Summary (List of Sorties Since Last Report)		
<u>Air</u>	Since Last Report	Total
Number of Sorties/Patrols		
Area Covered (square miles)		
Total Time On-Scene (In Hours)		
<u>Surface</u>	Since Last Report	Total
Number of Sorties/Patrols		
Area Covered (square miles)		
Total Time On-Scene (In Hours)		
6. Use of Force Summary		
<u>Category</u>	Since Last Report	Total
III - Soft Empty Hand Control		
IV - Hard Empty Hand Control		
V - Intermediate Weapons		
VI - Deadly Force		
VSL - Force to Stop Vessel from Cutter/Boat		
A/C - Force to Stop Vessel From Aircraft		
Arrests		
Seizures		
Deaths		
7. Operational Controls Summary		
<u>Currently In Force</u>		
Type	Initiating Unit	Initiated Date
<u>Removed Since Last Report</u>		
Type	Initiating Unit	Initiated Date
18. Prepared by:		Date/Time Prepared:

INCIDENT STATUS SUMMARY (ICS FORM 209-CG)

Purpose. The Status Summary:

1. Is used by Situation Unit personnel for posting information on Status Boards or attaching as a file to the MISLE Case.
2. Is duplicated and provided to Command Staff members, giving them basic information for planning for the next operational period.
3. Provides information to the Information Officer for preparing news media releases.
4. Summarizes incident information for local and off-site coordination/operations centers.

Preparation. The Situation Unit prepares the Status Summary. Resources information should be obtained from the Resources Unit. It may be scheduled for presentation to the Planning Section Chief and other General Staff members prior to each Planning Meeting and may be required at more frequent intervals by the Unified Command or Planning Section Chief. Suggested sources of information are noted in brackets.

Note: The values on the ICS form 209-CG are the **best available estimates at the Time of Report** (Item # 2 on form). This form is usually in high demand and should be filled out early and often. A suggested source within the ICS organization is noted in brackets [] at the top right of each section of the form. **All fields need not be completed in order to distribute the form.**

Distribution. When completed, the form is duplicated and copies are distributed to the Unified Command and staff, and all Section Chiefs, Planning Section Unit Leaders, and the Joint Information Center. It is also posted on a status board located at the ICP. All completed original forms **MUST** be given to the Documentation Unit.

How to Save and Use the Word Template Form:

The 209 template (.dot file) can be edited to match most incident situations and can be saved into the Word template directory. Open the blank 209 (ICS 209 CG.dot) – do not add any content. Save the blank in the Templates directory. Create a new 209 from File>new picking the 209 template. Type in the file to add any desired content and use “save as” to save the work using a new file name. The file will automatically become a .doc file.

Comments: Please send comments/corrections about this form to the ICS Program Manager, Ms. Kristy Plourde, email: kplourde@tcyorktown.uscg.mil

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Period Covered by Report	Enter the date and time interval for which the report applies. Use 24-hour clock for all times.
	Time of Report	Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
3.	Type of Incident	Indicate (check box) and/or fill-in the type of incident(s).
4.	Situation Summary	Summary of current situation at time of report.
5.	Future Outlook	This section is for the IC/UC to discuss/project their future outlook, goals, requirements, needs and issues.
6.	Safety Status/Personnel Casualty	This information pertains to responders and assisted public personnel. Indicate the number of serious injuries, death, and missing. Values entered in the column labeled since Last Report are from the start of the

- Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
7. Property Damage Enter estimated dollar values for each item, if known.
 8. Attachments Indicate (check box) and/or fill-in the attachment(s) the help further clarify the incident status.
 9. Equipment Resources Indicate the number of each type of resource in each status category. There are blank lines below each general type of resource for additional equipment.
 - Ordered Ordered but not yet arrived/available.
 - Available Arrived on scene, stored in staging, not assigned to any task, available for use.
 - Assigned Assigned to a specific task.
 - Out of Service Not working and not assigned to any task (e.g., skimmer being repaired, boom broken, personnel off-duty for rest).
 10. Personnel Resources Indicate, by agency, the numbers of personnel assigned. There are blank lines for additional personnel, as needed.
 11. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

OIL/HAZMAT ATTACHMENT

1. Incident Name Enter the name assigned to the incident.
2. Period Covered by Report Enter the date and time interval for which the report applies. Use 24-hour clock for all times.
 - Time of Report Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
3. Spill Status This information is only tracked if there is spilled HAZMAT or Oil. Enter Common Name(s) of the released substance or spilled oil (i.e. Ethyl Alcohol/Ethanol or No. 2 Fuel Oil/Light Fuel Oil). Enter UN number and CAS Registry number, if known. Indicate whether the spill source is secured or unsecured (check box) and estimate the remaining potential and the rate of spillage discharge or release. Enter the estimated amounts in barrels for each category. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
 - Mass Balance This information is only tracked if there is spilled HAZMAT or Oil whether recovered, evaporated, dispersed, burned, floating, or on shore. The total of these estimates should approximate the total volume spilled, discharged, or released. Values for evaporation, dispersion, etc. can be obtained from the Environmental Unit and/or the Scientific Support Coordinator (SSC).
4. Waste Management This information is only tracked if there is spilled HAZMAT or Oil. Enter the estimated amounts in barrels or tons for each category. Total HAZMAT/ Oil (bbl) is the sum of the estimate of HAZMAT/oil in oily

liquids and HAZAMT/oil in oily solids, and is the value to be entered under "Recovered HAZMAT/Oil" in Item 4.

5. Shoreline Impacts This information is only tracked if there is spilled HAZMAT or Oil. Enter the total miles in each category for each degree of oiling. Definitions for Light, Medium, and Heavy oiling can be obtained from the EUL/SSC and should be consistent throughout the incident.
6. Wildlife Impacts This information is only tracked after an animal is captured. Indicate the actual number of oiled wildlife in each category. Use numbers in parentheses to indicate the subtotal of threatened / endangered species included in the numbers given.
7. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

SAR/LE ATTACHMENT

1. Incident Name Enter the name assigned to the incident.
2. Period Covered by Report Enter the date and time interval for which the report applies. Use 24-hour clock for all times.
Time of Report Enter time for which this information applies. Enter the Time (24-hour clock) the form was prepared.
3. Evacuation Status This information is only tracked if the incident involves evacuation of personnel. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
4. Migrant Interdiction Status This information is only tracked if the incident involves Migrant Interdiction. Values entered in the column labeled Since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
5. Sorties/Patrols This information is only tracked if the incident involves sorties tracked in MISLE Incident Management Activity. List Sorties since last report both Air and Surface. Values entered in the column labeled since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
6. Use of Force This information is only tracked if the incident involves Use of Force activities. Values entered in the column labeled since Last Report are from the start of the Period Covered by Report (Item 2) to the time entered in the Time of Report (Item 2).
7. Operational Controls This information is only tracked if the incident involves Operational Control activities initiated, in force and removed.
8. Prepared By Enter name and title of the person preparing the form, normally the Situation Unit Leader.

DAILY SIGN-IN SHEET (ICS 211a-CG)

Purpose. This is an optional form to use as a daily sign-in sheet to track personnel hours worked on the incident for personnel already checked-in at the incident. Personnel who have not checked in on the incident must first check-in on the ICS-211 Check-In List.

Preparation. The Daily Sign-In Sheet is initiated daily (up to 24-hour period) at a number of incident locations including ICP, JIC, base, camps, helibase and in the field. Leaders and Managers at these locations record the personnel sign-in information. The same form is used when personnel sign-out. When all personnel are signed out for the day, the completed form is turned in to the Resources Unit. This form is not used for tactical equipment which are noted on the ICS-204 Assignment List because these resource hours are tracked by the operations section personnel on an ICS-214 Unit Log.

Distribution. Daily Sign-In Sheets are provided to both the Resources Unit and the Finance Section (Time Unit) to track time of incident personnel. The Resources Unit maintains a master list of all equipment and personnel that have reported to the incident and uses the Daily Sign-In Sheet to track hours for these personnel. Time Unit tracks the hours personnel have worked for pay purposes. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Date	Enter date (day, month, year) prepared.
3.	Sign-In Location	Enter the name of the Sign-in location. For Camp, DIVS, Staging and Other; note specific location.
4.	Agency	Enter agency name or agency designator (USCG for U.S. Coast Guard)
5.	Name	Enter Name
6.	Paygrade	Enter military or government paygrade. If other organization or company, leave blank.
7.	A / R / C	Enter A for Active Duty, R for Reserve, C for Civilian
8.	Order # / EMPLID	Enter Order Number if known. Order number will be assigned by Agency dispatching the resources or personnel to the incident. If unknown, or not available, use EMPLID.
9.	Incident Assignment	Enter location at which the resource / individual is normally assigned.
10.	Date/Time Sign-In	Enter date (month, day, year) and time (24-hour clock) at time of Sign-in.
11.	Date/Time Sign-Out	Enter date (month, day, year) and time (24-hour clock) at time of Sign-out.
12.	Hours Worked	Time Unit (TIME) enters total hours worked.
13.	Page	Indicate page no. and no. of pages being used for Sign-In at this location.
14.	Prepared By	Enter the name of the person completing the form and position held.
15.	Date/Time	Enter the time this form was completed and sent to Resources Unit.

ICS-211-CG CHECK-IN LIST					1. INCIDENT NAME:			2. CHECK-IN LOCATION: ☐ BASE ☐ CAMP _____ ☐ STAGING AREA _____ ☐ ICP ☐ OTHER _____					3. DATE/TIME:		
CHECK-IN INFORMATION															
4. LIST PERSONNEL (OVERHEAD) BY AGENCY NAME – OR LIST EQUIPEMENT BY THE FOLLOWING FORMAT: S=Supplies H=Helicopter O=Overhead VL=Vessels E=Equipment C=Crew A=Aircraft VH=Vehicle					5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
AGENCY	SINGLE ST/ TF	KIND	TYPE	ID NO. /NAME – RESOURCE ID	ORDER/ NUMBER	DATE/TIME CHECK-IN	LEADER'S NAME	TOTAL NO. PERSONNEL	INCIDENT CONTACT INFORMATION	INCIDENT LODGING INFO/CONTACT INFO	HOME UNIT	METHO D OF TRAVEL	INCIDENT ASSIGNMENT	OTHER QUALIFICATION	SENT TO RESTAT TIME/INT
16.					17. PREPARED BY (Name and Position) USE BACK FOR REMARKS OR COMMENTS										
ICS 211-CG PAGE _____ of _____															

CHECK-IN LIST (ICS 211-CG)

Purpose. Personnel and equipment arriving at the incident can check in at various incident locations. Check-in consists of reporting specific information, which is recorded on the form.

Preparation. The Check-In List is initiated at a number of incident locations including staging areas, base camps, helibases, and ICP. Managers at these locations record the information and give it to the Resources Unit as soon as possible.

Distribution. Check-In Lists are provided to both the Resources Unit and the Finance Section. The Resources Unit maintains a master list of all equipment and personnel that have reported to the incident. All completed original forms MUST be given to the Documentation Unit.

<u>Item #</u>	<u>Item Title</u>	<u>Instructions</u>
1.	Incident Name	Enter the name assigned to the incident.
2.	Check-In Location	Enter the name of the check-in location.
3.	Date/Time	Enter date (month, day, year) and time prepared (24-hour clock).
4.	Agency	Enter agency name or agency designator (USCG for U.S. Coast Guard)
	Single/ST/TF	Enter whether resource is Single, part of Task Force (TF) or Strike Team(ST).
	Kind	Enter kind of resource using format listed for followed by sub-kind (e.g. workboat would be VL-WB).
	Type	Enter type of resource (1-4).
	Resource Identifier	Enter individual names for all overhead personnel. When listing equipment, use name or designator, indicate if resource is a single resource, task force or strike team;
5.	Order Number	Order number will be assigned by Agency dispatching the resources or personnel to the incident.
6.	Date/Time Check-In	Enter date (month, day, year) and time (24-hour clock) of check-in.
7.	Leader's Name	Self-explanatory.
8.	Total # Personnel	Enter total number of personnel in strike teams, task forces or manning single resources. Include leaders.
9.	Contact Information	Enter contact information while at the incident (e.g. cell phone, pager, radio, etc.)
10.	Lodging/Contact Info	Enter lodging location and phone number/contact info while at the incident.
11.	Home Unit	Location from which resource / individual departed for this incident.
12.	Method of Travel	Means of travel to incident (bus, truck, engine, personal vehicle, etc.)
13.	Incident Assignment	Enter location at which the resource / individual is normally assigned.
14.	Other Qual	Enter Other Qualifications held.
15.	Sent to Restat	Enter initials and time that the info. Pertaining to that entry was sent to the Resources Unit.
16.	Page	Indicate page no. and no. of pages being used for Check-In at this location.
17.	Prepared By	Enter the name of the person completing the form and position held.

Note: Use back for remarks or comments, including Other Qualifications or any other ICS position the individual has been trained to fill.