

DIRECT TRANSFER COAL FACILITY SPILL RESPONSE PLAN



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	Rev 5/June 2015	J. Unrau – FSD Manager of Safety

1. PURPOSE

This Spill Response Plan outlines the procedures set in place to respond to a coal or liquid spill event at the DTCF and the berths at FSD. This response plan has been put into place to:

- Minimize and or eliminate the damage and danger that could affect employees, property, and the environment the event of a spill; and
- Ensure an effective and coordinated response to a spill at FSD.

2. ROLES AND RESPONSIBILITIES

In the event of a spill, the On-Call Superintendent will act as the *Lead ERC (Emergency Response Contact)* and will be responsible to make all calls in accordance to the Spill Response Plan. The On-Call Superintendent is present on the terminal at all times a coal handling operation is in operation. Contact details of persons and organizations applicable to spill response plan are available in the Emergency Contact List on the last page of this plan.

3. SAFETY

A person discovering a spill should immediately withdraw from the spill area in an upwind direction to a minimum safe distance as confirmed by the Lead ERC. The person shall immediately notify Lead ERC once in a safe place to do so (605-582-2224). The Lead ERC shall assess the spill using the procedures outlined within *Approaching a Spill and Spill Assessment* Section as found in the *Chemical and Dangerous Goods Spill Response Plan* of the *Emergency Response Plan (ERP)*.

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4. COAL SPILLS

4.1. COAL SPILLS TO LAND

A spill to land is usually classed as a Minor Spill, as defined in the Emergency Response Plan. Should the spill spread to water, it is considered a Major Spill, and the COAL SPILL – TO WATER procedure is to be followed. **Unless otherwise specified, all activities are to be performed by or under the direction of the *Lead ERC*.**

4.1.1. Immediate Notification

Notify necessary FSD personnel and external parties as per the contact information listed below.

1. Personnel Discovering Spill
 - i. Contact On-Duty Superintendent / *Lead ERC* (604-582-2224, Channel 2)
2. Lead ERC
 - i. Contact Security (604-582-2235, Channel 8)
 - ii. Contact first aid as necessary (778-838-8642, Channel 8)
3. Security
 - i. Contact BNSF if track requires clearing (604-522-7539)

4.1.2. First Response and Spill Containment

1. Stop the source of the release and spread of the spill to the water, if safe to do so.
2. If outside of the DTCF bermed confines, prevent the spill and spill runoff from entering storm sewer through catch basins, or contacting exposed soil. If required, reference the map showing locations of all storm sewers and catch basins posted in the DTCF Operational Control Cab.
 - i. Cover surrounding drains with rubber mats, or encircle them with sandbags retrieved from mobile Spill Kit located adjacent to Shed 1 or from the Emergency Response Vehicle.
 - ii. Block off surrounding exposed soil with sandbags.

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4.1.3. Cleanup and Reporting

1. Based on spill size, commence appropriate cleanup procedures.
 - i. Small spill (approximately under 200kg): Cleanup by FSD personnel with on-site equipment.
 - ii. Large spill (approximately over 200kg): Contact Spectratec Services Group and request a sweeper vehicle. (604-513-9689)
2. Fill out the *Chemical/Dangerous Goods Emergency Response Statement* as found in the *Chemical and Dangerous Goods Spill Response Plan* section of the *Emergency Response Plan (ERP)*.
3. Report spill event to proper authorities if necessary as outlined in the spill reporting section.

4.2. COAL SPILL - TO WATER

A spill to water is classed as a Major Spill, as defined in the Emergency Response Plan. **Unless otherwise specified, all activities are to be performed by or under the direction of the Lead ERC.**

4.2.1. Immediate Notification

Notify necessary FSD personnel and external parties as per the contact information listed below.

1. Personnel Discovering Spill
 - i. Contact On-Duty Superintendent / *Lead ERC* (604-582-2224, Channel 2)
2. Lead ERC
 - i. Contact Security (604-582-2235, Channel 8)
 - ii. Contact first aid as necessary (778-838-8642, Channel 8)
 - iii. Contact Port Metro Vancouver Operations Center, advise them of the situation (604-665-9086 (24/7))
 - iv. Contact Western Canada Marine Response Corporation (604-294-9116)
 - v. Contact Fraser River Pile and Dredge (604-522-7971(24/7))
 - vi. Contact Transport Canada - Vessel Traffic Service (604-666-6011)
3. Security
 - i. Contact BNSF if track requires clearing (604-522-7539)

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4.2.2. First Response and Spill Containment

1. If safe, remove injured personnel from the *emergency* area.
2. Stop the source of the release and spread of the spill to the water, if safe to do so.
3. If a vessel is alongside, inform the ship's Captain of the spill and request assistance from ship personnel.

4.2.3. Cleanup and Reporting

1. Aid and assist 3rd Party professionals with cleanup operation as requested.
2. Fill out the Chemical/Dangerous Goods Emergency Response Statement as found in the Chemical and Dangerous Goods Spill Response Plan section of the Emergency Response Plan (ERP).
3. Report spill event to proper authorities if necessary as outlined in the Spill Reporting section.

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5. LIQUID SPILLS

5.1. LIQUID SPILL CLASSIFICATION

5.1.1. Minor Spills

A Minor spill, which is an incident that occurs on land and within or nearby the DTCF:

- Presents minimal potential threat to safety, property damage or environmental hazard;
- Is localized and controllable (e.g., piping, small vehicle leaks, or contained spills with low probability of escalating into a more serious emergency); and
- Can be contained and cleaned up immediately by FSD personnel first on the scene or with minor assistance.

5.1.2. Major Spills

A Major spill, which is an incident that occurs in the water within the berth area or on land within or nearby the DTCF:

- Is an emergency and presents an immediate threat to life, or a major immediate hazard to property or the environment;
- Is an uncontrolled release, vehicle collision, line, valve or tank rupture with extensive release of hazardous materials (e.g., uncontrolled leakage from the rupture of a gasoline storage tank); or
- Is controllable, but involves a high rate of release with the possibility of affecting a wide area or small leaks of very hazardous materials;
- Requires assistance from personnel outside the operating department
- Beyond the containment or cleanup capabilities of FSD personnel

Notes:

- A spill to water is always classed as a Major Spill. This includes spills from dock or spills originating from Vessels Berthed at FSD.
- Although an event of a spill to water is outside of the jurisdiction of FSD and it remains the responsibility of the marine vessel to follow TC protocols to notify proper Authorities, and to contain and clean any spill that happen as a result of vessel malfunction, vessel personnel error, or vessel personnel negligence, FSD will assist with all containment and cleaning operation if the vessel response plan is not adequate, expeditious or effective.

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5.2. MINOR LIQUID SPILL

A person discovering a spill should Move upwind of the spill, out of the wind spread area and isolation zone, and contact the On-Duty Superintendent / Lead ERC (604-582-2235, Channel 8). **Unless otherwise specified, all activities are to be performed by or under the direction of the *Lead ERC*.**

5.2.1. Immediate Notification

Notify necessary FSD personnel and external parties as per the contact information listed below.

1. Personnel Discovering Spill
 - i. Contact On-Duty Superintendent / Lead ERC (604-582-2224. Channel 2)
2. Lead ERC
 - i. Contact Security (604-582-2235, Channel 8)
 - ii. Contact First Aid as necessary (778-838-8642, Channel 8)
3. Security
 - i. Contact BNSF as required, if the track needs to be cleared (604-522-7539)

5.2.2. First Response & Spill Containment

1. Get Material Safety Data Sheet (posted in the Operational Control Room) and determine hazards.
2. If safe, remove injured personnel from the *emergency* area.
3. Stop the source of the release; if possible, by closing valves, standing drums upright, etc.
4. Eliminate all ignition sources if flammable material is involved.
5. Stop the spread of the spill with absorbents, sandbags, rubber drain covers, etc. retrieved from mobile Spill Kit located at Shed 1 or from Emergency Response Vehicle. Choose absorbents designed for hydrocarbons or water-based chemicals as appropriate.
6. Prevent the spill from entering sewer drains or contacting exposed soil. If required, reference the map showing locations of all storm sewers and catch basins posted in the DTCF Operational Control Cab.

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5.2.3. Spill Cleanup and Reporting

Begin cleanup using equipment contained in the *Emergency Response Vehicle (ERV)* and spill kits as necessary. See *Spill Equipment* section as found in the *Chemical and Dangerous Goods Spill Response Plan of the Emergency Response Plan (ERP)*.

1. Get Material Safety Data Sheet and determine appropriate cleanup procedures for the material.
2. Begin cleanup using impermeable clothing as necessary and equipment contained in the *Emergency Response Vehicle (ERV)* or in available spills kits
3. Do not wear contaminated clothing beyond the clean-up area. Wash thoroughly with soap and water as soon as possible upon leaving the spill area. Place soiled clothing and equipment in the proper receptacles for disposal according to environmental regulations (the plastic garbage pails stored in the *ERV* can be used for this purpose)
4. All contaminated material, such as chips, sand, sludge, etc., shall be stored in marked drums pending disposal in accordance with environmental legislation. **DO NOT HANDLE CONTAMINATED MATERIAL.** Disposal is the responsibility of *FSD* or the *spiller*. Environment Canada (604-666-6100) and/or BC Environment, Lands & Parks (1-800-663-3456) may be consulted for advice. If further storage tank capacity is required, A&A Anderson (604-277-1628), or Phillips Environmental Service (604-940-8783) can provide a pump truck.
5. Lead ERC to fill out Chemical / Dangerous Goods Emergency Response Statement.
6. Report spill to proper authorities if quantity of specific material spilled requires reporting under the BC Waste Management Act. See the *Spill Reporting* section of this plan for Details.

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5.3.MAJOR LIQUID SPILL – To Land

A person discovering a spill should Move upwind of the spill, out of the wind spread area and isolation zone, and contact the On-Duty Superintendent / Lead ERC (604-582-2235, Channel 8). **Unless otherwise specified, all activities are to be performed by or under the direction of the *Lead ERC*.**

5.3.1. Immediate Notification

Notify necessary FSD personnel and external parties as per the contact information listed below.

1. Personnel Discovering Spill
 - i. Contact On-Duty Superintendent / Lead ERC (604-582-2224. Channel 2)
2. Lead ERC
 - i. Call 911, Surrey Fire Department (911)
 - ii. Contact Security (604-582-2235, Channel 8)
 - iii. Contact First Aid as necessary (778-838-8642, Channel 8)
 - iv. Contact Port Metro Vancouver Operations Control Center, advise them of the situation (604-665-9086 (24/7))
 - v. Contact Western Canada Marine Response Corporation (604-294-9116)
 - vi. Contact Transport Canada - Vessel Traffic Service (604-666-6011)
3. Security
 - i. Contact BNSF as required, if the track needs to be cleared (604-522-7539)

5.3.2. First Response & Spill Containment

1. Get Material Safety Data Sheet from Vessel or from DTCF Operational Control Room and determine hazards.
2. If safe, remove injured personnel from the *emergency* area.
3. Stop the source of the release; if possible, by closing valves, standing drums upright, etc.
4. Eliminate all ignition sources if flammable material is involved.
5. Stop the spread of the spill to water with absorbents, sandbags, rubber drain covers, etc. retrieved from mobile Spill Kit located at Shed 1 or from Emergency Response Vehicle. Choose absorbents designed for hydrocarbons or water-based chemicals as appropriate.

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6. Prevent the spill from entering sewer drains or contacting exposed soil. If required, reference the map showing locations of all storm sewers and catch basins posted in the DTCF Operational Control Cab.
7. If a vessel is alongside, inform the ship of the spill and request assistance from ship personnel.

5.3.3. Spill Cleanup and Reporting

Begin cleanup using equipment contained in the *Emergency Response Vehicle (ERV)* and spill kits as necessary. See *Spill Equipment* section as found in the *Chemical and Dangerous Goods Spill Response Plan* of the *Emergency Response Plan (ERP)*.

1. Get Material Safety Data Sheet and determine appropriate cleanup procedures for the material.
2. Begin cleanup using equipment contained in the *Emergency Response Vehicle (ERV)* or in available spills kits.
3. Do not wear contaminated clothing beyond the clean-up area. Wash thoroughly with soap and water as soon as possible upon leaving the spill area. Place soiled clothing and equipment in the proper receptacles for disposal according to environmental regulations (the plastic garbage pails stored in the *ERV* can be used for this purpose)
4. All contaminated material, such as chips, sand, sludge, etc., shall be stored in marked drums pending disposal in accordance with environmental legislation. **DO NOT HANDLE CONTAMINATED MATERIAL.** Disposal is the responsibility of *FSD* or the *spiller*. Environment Canada (604-666-6100) and/or BC Environment, Lands & Parks (1-800-663-3456) may be consulted for advice. If further storage tank capacity is required, A&A Anderson (604-277-1628), or Phillips Environmental Service (604- 940-8783) can provide a pump truck.
5. If further storage tank capacity is required, A&A Anderson (604-277-1628), or Phillips Environmental Service can provide a pump truck.
6. Lead ERC to fill out Chemical / Dangerous Goods Emergency Response Statement.
7. Report spill to proper authorities if quantity of specific material spilled requires reporting under the BC Waste Management Act. See the *Spill Reporting* section of this plan for Details.

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6. MARINE VESSEL RESPONSE – SPILL TO WATER

All marine Vessels berthing at FSD must provide a copy of their Emergency Spill Response Plan to the site safety manager upon arrival.

It is requested that personnel of a marine vessel berthed at FSD assist in the event of a spill to water. Assistance is requested with the following priorities being observed by vessel personnel:

- Safety of life;
- Prevention of environmental pollution; and
- Control of product loss or damage;

It is requested that personnel of Vessels berthed at FSD observe the points below in the case of a Vessel Spill.

1. If a spill is occurring or has occurred, inform Security (604-581-2235, Channel 8), and or the Superintendent (604-582-2224, Channel 2).
2. Follow procedures outlined within vessels Emergency Spill Response Plan if applicable to the situation.
3. Notify FSD personnel if the Vessel is unable to effectively contain and/or clean up a vessel spill.
4. Assist FSD personnel with containment and clean up as requested.
5. Assist FSD personnel with finalizing spill reports and estimating spilt product volume as requested.

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7. SPILL REPORTING

A coal spill of 200kg or more is a reportable quantity under Spill Reporting Regulation Item No. 24 of the Environmental Management Act. For all other spills, refer to *Schedule of Reportable Spill Quantities* in the *Emergency Response Plan, Chemical and Dangerous Goods Spill Response Plan* section. Spills will be reported to the Provincial Emergency Program (PEP) 24 hour line. The *Lead ERC*, or delegate, is responsible for making this assessment and contacting PEP.

The reporting person will be asked to provide the following information:

1. Your name and telephone number
2. Name and telephone number of the person who caused the spill
3. Time of the spill
4. Proper name of product / type spilled
5. Quantity of product spilled
6. Cause and effect of the spill
7. Details of action taken or proposed to stop, contain and minimize the effects of the spill
8. Description of the spill location and of the area surrounding the spill
9. Details of further action contemplated or required
10. Names of agencies on the scene
11. Names of other persons or agencies advised concerning the spill

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8. CONTACT LIST

Contact	Contact #	Alternate
Phillips Environmental Service	604- 940-8783	-
A&A Anderson	604-277-1628	-
BC Environment, Lands & Parks	1-800-663-3456	-
BNSF	604-522-7539	-
Canadian Coast Guard – Marine Communications and Traffic Services	604-666-6012	-
Environment Canada	604-666-6100	-
FSD First Aid	778-838-8642	FSD Channel 8
Fraser River Pile and Dredge (24/7)	604-522-7917	-
On Duty Superintendent	604-582-2224	FSD Channel 2
Port Metro Vancouver Operations Command Center (24/7)	604-665-9086	-
Provincial Emergency Program (PEP)	1-800-663-3456	-
FSD Security	604-581-2235	FSD Channel 8
Site Safety Manager (Jonathan Unrau)	778-838-7579	-
Spectratec Services Group (Lisa Brolin)	604-513-9689	-
Surrey Fire Department	604-543-6700 (Non-Emergency) 911 (Emergency)	-
Western Canada Marine Response Corporation	604-294-9116	-

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