# POL SPILL CONTINGENCY PLAN

# ANNEX G, APPENDIX 2 OF THE NORTH WARNING SYSTEM ENVIRONMENTAL PROTECTION PROGRAM

# PREPARED BY:

FRONTEC ENVIRONMENT SECTION

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# APPENDIX 2

# POL SPILL CONTINGENCY PLAN

#### Table of Contents

Record of Amendments

Acronyms

Distribution List

Annexes

List of Figures

#### 1.0 INTRODUCTION

- 1.1 Exclusions
- 1.2 POL Spill Contingency Planning Policy
- 1.3 Purpose
- 1.4 Scope
- 1.5 Roles and Responsibilities
  - 1.5.1 FRONTEC
  - 1.5.2 North Warning System Office
  - 1.5.3 Fuel Resupply Contractors and Subcontractors
- 1.6 Amendments
  - 1.6.1 Mechanisms
  - 1.6.2 Submission of Amendments

#### 2.0 SPILL PLAN ORGANIZATION

- 2.1 POL Spill Definition
- 2.2 Overview of the North Warning System
- 2.3 POL Bulk Storage and Distribution System
- 2.4 Fuel Resupply and Use
- 2.5 Bulk Fuel Description and Characteristics

## 3.0 SPILL RESPONSE REQUIREMENTS

- 3.1 Spill Classifications
- 3.2 FRONTEC's Spill Response Capability
- 3.3 Spill Response Process
- 3.4 Spill Prevention
- 3.5 Spill Detection
- 3.6 Spill Response Initial Action

- 3.7 Spill Response
  - 3.7.1 Spill Reporting
  - 3.7.2 Cessation of Fuel Flow
  - 3.7.3 Spill Containment
  - 3.7.4 Clean-Up
  - 3.7.5 Disposal of Clean-Up Materials
  - 3.7.6 Site Remediation
  - 3.7.7 Final Report
  - 3.7.8 Post Spill Review
- 3.8 Spill Response POL Resupply Activities

# 4.0 SPILL RESPONSE TRAINING PROGRAM

- 4.1 Purpose
- 4.2 Contents
- 4.3 Implementation

#### ACRONYMS

CFB Canadian Forces Base

CMO Contractor Management Office

CRI Cost Reduction Initiative

DND Department of National Defence

DNWSO Director, North Warning System Office
EPP Environmental Protection Program

ERT Emergency Response Team

LOCID Location Identifier

LRR Long Range Radar

LSS Logistics Support Site

NWO Noth Warning System Order

NWS North Warning System

NWSCC North Warning System Control Centre

NWSCC-ECF North Warning System Control Centre-Electronic Control Facility

NWSCC-MCF North Warning System Control Centre-Maintenance Control Facility

NWSCC-MCS North Warning System Control Centre-Maintenance Control Subsystem

NWSCC-NCF North Warning System Control Centre-Network Control Facility

NWSO North Warning System Office

NWSSC North Warning System Support Centre

O&M Operation and Maintenance

PMI Preventive Maintenance Inspection
POL Petroleum, Oil, and Lubricants
ROCC Region Operations Control Centre
SOP Standard Operating Procedure

SOW Statement of Work for the Operation and Maintenance of the NWS

SRD SRR Development Site
SRR Short Range Radar

TSB Technical Services Building

## ANNEXES

ANNEX A: NWS Sites Zone Map

ANNEX B: Emergency Spill Reporting Procedures Contact Listings and Spill Report

Form

ANNEX C: Specifications of Materials and Equipment,

POL Emergency Response and Clean-Up Kits

ANNEX D: POL Emergency Spill Response Contractors

#### LIST OF FIGURES

- FIGURE 1 POL STORAGE AND DISTRIBUTION SYSTEM
- FIGURE 2 SPILL RESPONSE FLOW CHART
- FIGURE 3 EMERGENCY RESPONSE TEAM ATTENDED NWS SITES
- FIGURE 4 EMERGENCY RESPONSE TEAM UNATTENDED NWS SITES
- FIGURE 5 FLOW CHART FOR FUEL SPILL RESPONSE DURING BULK POL RESUPPLY BY SEALIFT
- FIGURE 6 FLOW CHART FOR FUEL SPILL RESPONSE DURING BULK POL RESUPPLY BY AIRCRAFT
- FIGURE 7 FLOW CHART FOR LAND POL SPILL RESPONSE AT NWS ATTENDED SITES
- FIGURE 8 FLOW CHART FOR FRESHWATER AND MARINE POL SPILL RESPONSE AT NWS ATTENDED SITES
- FIGURE 9 FLOW CHART FOR LAND POL SPILL RESPONSE AT NWS UNATTENDED SITES
- FIGURE 10 FLOW CHART FOR FRESHWATER AND MARINE POL SPILL RESPONSE AT NWS UNATTENDED SITES

# RECORD OF AMENDMENTS

AMENDMENT NUMBER	AMENDMENT DATE	DATE ENTERED	SIGNATURE/TITLE
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#### **ACRONYMS**

CDRL Contract Data Requirement List

CEPA Canadian Environmental Protection Act

CMO Contractor Management Office

DEW Defence Early Warning

DIAND Department of Indian Affairs and Northern Development

DND Department of Defence

DNWSO Director, North Warning System Office

DOT Department of Transport
EPP Environmental Protection Plan
ERP Emergency Response Plan
ERT Emergency Response Team

JT Job Training

LOCID Location Identifier

LRR Long Range Radar

LSS Logistic Support Site

NWI North Warning Instruction

NWO North Warning Order

NWS North Warning System

NWSCC North Warning System Control Centre

NWSCC-ECF North Warning System Control Centre - Electronic Control Facility

NWSCC-MCF North Warning System Control. Centre - Maintenance Control Facility

NWSO North Warning System Office O&M Operation and Maintenance

PMI Preventive Maintenance Inspection
POL Petroleum, Oils and Lubricants

QA Quality Assurance
OC Quality Control

RCMP Royal Canadian Mounted Police
ROCC Regional Operations Control Centre
SOP Standard Operating Procedure
SPM Supply Procedures Manual

SRR Short Range Radar

TSB Technical Services Building
TSM Technical Services Module

## ANNEXES

Annex A: NWS Sites Zone Map

Annex B: Emergency Spill Reporting Procedures Contact Listings

Annex C: North Warning System Long Range Radar Sites and Short Range Radar

Sites Descriptions

Annex D: Specifications of Materials and Equipment,

POL Emergency Response and Clean-Up Kits

Annex E: POL Emergency Spill Response Contractors

#### LIST OF FIGURES

- FIGURE 1 POL STORAGE AND DISTRIBUTION SYSTEM
- FIGURE 2 SPILL RESPONSE FLOW CHART
- FIGURE 3 EMERGENCY RESPONSE TEAM ATTENDED NWS SITES
- FIGURE 4 EMERGENCY RESPONSE TEAM UNATTENDED NWS SITES
- FIGURE 5 FLOW CHART FOR FUEL SPILL RESPONSE DURING BULK POL RESUPPLY BY SEALIFT
- FIGURE 6 FLOW CHART FOR FUEL SPILL RESPONSE DURING BULK POL RESUPPLY BY AIRCRAFT
- FIGURE 7 FLOW CHART FOR FUEL SPILL RESPONSE DURING BULK POL RESUPPLY BY TRACTOR TRAIN
- FIGURE 8 FLOW CHART FOR LAND AND FRESHWATER POL SPILL RESPONSE AT NWS ATTENDED SITES
- FIGURE 9 FLOW CHART FOR MARINE POL SPILL RESPONSE AT NWS ATTENDED SITES
- FIGURE 10 FLOW CHART FOR MARINE POL SPILL RESPONSE AT UNATTENDED SITES
- FIGURE 11 FLOW CHART FOR MARINE POL SPILL RESPONSE AT NWS UNATTENDED SITES

#### 1.0 INTRODUCTION

This plan establishes policy, responsibilities and instructions for response to petroleum, oil and lubricant (POL) spills which may occur at North Warning System (NWS) facilities during operations and maintenance (O&M) activities, as defined by the NWS O&M Contract Statement of Work (SOW), and as performed by the contracting agency, the contractor or subcontractors.

#### 1.1 Exclusions

This plan is not applicable at Short Range Radar (SRR) site BAR-B, Stokes Point, Yukon Territory. This site is located on Parks Canada land and is governed by the document entitled "Method of Conducting Operation and Maintenance, Stokes Point (BAR-B) Short Range Radar Site, Ivvavik National Park, Yukon Territory."

This plan is not applicable at the Goose Bay Logistics Support Site (LSS) located at Canadian Forces Base (CFB) Goose Bay, Labrador. This site will report POL spills to the Contractor Management Office (CMO) and to the Base Environmental Section. This site will conform to the requirements of the Fuel Spill Contingency Plan for CFB Goose Bay.

# 1.2 POL Spill Contingency Planning Policy

This plan, which is an integral part of FRONTEC's Environmental Protection Program (EPP), is consistent with the requirements and provision of:

- a. FRONTEC's Corporate Environmental Policy;
- b. FRONTEC's Corporate EPP for the O&M of the NWS;
- c. NWS O&M Contract SOW; and
- d. North Warning System Order (NWO) 12.01, North Warning System Environmental Protection Order.

#### 1.3 Purpose

The purpose of this plan is:

a. To provide a clear statement of procedures which will be carried out in response to POL spills;

- b. To minimize the potential environmental impact of POL spills by establishing pre-determined responses and plans of action;
- To establish a state of preparedness for personnel through a POL Spill Response Training Program;
- d. To protect the health and ensure the safety of:
  - i. personnel involved in POL Spill Response activities; and
  - ii. local communities;
- e. To provide a reporting network for POL spills;
- f. To ensure site environmental restoration through appropriate remedial activities;
- g. To identify the roles and responsibilities of all parties involved in POL Spill Response activities; and
- h. To identify sufficient personnel, materials and equipment needed to make an adequate response to any POL spill.

# 1.4 Scope

This plan applies to all activities and facilities pertaining to NWS sites, except SRR site BAR-B and LSS Goose Bay. This includes:

- a. Long Range Radar (LRR) sites which operate unattended with occasional staff visits;
- b. Short Range Radar (SRR) sites which operate unattended;
- c. Logistics Support Sites (LSS) which are staffed to support SRR and LRR operations; and
- d. the North Warning System Support Centre (NWSSC) in North Bay, Ontario.

# 1.5 Roles and Responsibilities

The contracting agency, the contractor and sub-contractors will be involved in Spill Response Actions in the event of a POL spill during O&M activities on the NWS. The roles and responsibilities of these parties are herein described.

#### 1.5.1 FRONTEC

As the O&M contractor, FRONTEC's responsibilities include:

- a. Maintaining an up-to-date Spill Contingency Plan,
- b. Practicing spill prevention by:
  - i. performance of regular maintenance on all POL systems;
  - ii. employing proper methods for the handling of POL products;
- c. Maintaining operational competence through staff training;
- d. Identifying the requirements of sub-contractors involved in NWS O&M activities; and
- e. Providing the personnel, materials and equipment necessary for adequate response to POL spills.

# 1.5.2 North Warning System Office

As the contracting agency, the North Warning System Office (NWSO) is responsible for ensuring that adequate POL spill detection and response capabilities are in place and monitored for all NWS operations.

# 1.5.3 Fuel Resupply Contractors and Sub-Contractors

Responsibilities of contractors and sub-contractors engaged in fuel resupply activities at NWS sites include:

- a. Provision of a POL Spill Response Plan which describes:
  - i. spill response action plans for initial response;
  - ii. containment, clean-up, disposal and site remediation of spills;
  - iii. chain of command and responsibilities of personnel; and
  - iv. materials and equipment available for deployment; and
- b. Provision of sufficient personnel, materials and equipment necessary for adequate response to any POL spills which may occur during fuel resupply operations.

In the event a spill occurs during fuel resupply operations, FRONTEC personnel, material and equipment will assist in spill response activities to the fullest extent, when and where possible. Detailed contents of the POL Spill Response kits are listed in Annex C as well as the site specific descriptions located in EPP Part III Annex F.

Note: This document will be the source document for all contractor and all sub-contractor POL Spill Contingency Plans.

#### 1.6 Amendments

This plan will be revised in agreement with changes to federal, provincial and territorial acts, codes and standards. Requests for revisions, submitted by parties associated with or affected by the NWS, will also be reviewed. Provision for incorporation of changes will take the form of amendments to the plan.

#### 1.6.1 Mechanisms

This plan will be amended by the following steps:

#### a. Initiation:

Requests for amendment of this plan may be initiated by any member or employee of:

- i. FRONTEC:
- ii. NWSO;
- iii. parties associated with O&M activities; or
- iv. federal, provincial or territorial government agencies.

#### b. Review:

The Environment Section of the Facilities Engineering Department will review all proposed amendments. Recommended proposals will be presented to the Manager, Facilities Engineering and upon acceptance will be forwarded to the Director of the North Warning System Office (DNWSO) for final approval.

#### c. Approval:

DNWSO will be the final authority over this document. Upon the Director's instruction, the amendment will be incorporated into this plan and recorded on the Record of Amendments sheet.

#### 1.6.2 Submission of Amendments

Any comments or suggestions regarding this POL Spill Contingency Plan should be forwarded, in writing, to:

**FRONTEC** 

North Warning System Project 100 - 170 Laurier Avenue West Ottawa, ON K1P 5V5

Attention: Environmental Coordinator,
Facilities Engineering Department

# 2.0 SPILL PLAN ORGANIZATION

# This plan provides:

- a. definition of a POL spill and classifications of spills;
- b. an overview of the NWS and descriptions of:
  - i. methods of fuel resupply;
  - ii. POL storage and distribution systems; and
  - roles and responsibilities of NWSO, FRONTEC and sub-contractors.
- c. measures for prevention of spills;
- d. methods of spill detection;
- e. spill reporting procedures and chain of command;
- f. spill response action plans including:
  - i. response capabilities;
  - ii. procedures for spill containment; and
  - iii. procedures for spill clean-up and methods of disposal of wastes;
- g. procedures for remediation of spill affected areas; and
- h. guidelines for post spill response review.

# 2.1 POL Spill Definition

For the purposes of this plan, a POL spill is the discharge of petroleum, oil or lubricants:

- a. greater than 20 litres in volume;
- b. from a structure, vehicle, pipe or other container;
- c. within a structure; or
- d. into the natural environment.

# 2.2 Overview of the North Warning System

The NWS consists of:

- a. Eleven Long Range Radar sites designated as:
  - i. Auxiliary unattended sites, located at:
    - · LAB-2, Saglek Bay;
    - LAB-6, Cartwright;
    - BAF-3, Brevoort Island:
    - FOX-3, Dewar Lakes;
    - DYE-M, Cape Dyer;
    - · CAM-3, Shepherd Bay;
    - PIN-3, Lady Franklin Point;
    - PIN-M, Cape Parry;
    - . BAR-2, Shingle Point; and
  - ii. Main sites, serving also as LSSs, staffed by approximately 15 persons and located at:
    - · CAM-M, Cambridge Bay, and
    - FOX-M, Hall Beach.

In accordance with the Cost Reduction Initiative (CRI) the sites began reduced staffing in October of 1994, with unattended operation of the LRRs beginning in April 1995. Upon completion of the transition, the frequency of site visits will be the same as for the SRR sites. Airstrips exist at all LRR sites but are accessible in summer months only for all but the two main sites. As airstrips at auxiliary sites are no longer actively maintained they are used at the pilot's own risk. A helipad is also located at each auxiliary site. A POL Spill Response Kit is located at each site, the contents of which are listed in Annex C as well as EPP Part III Annex F;

- b. Thirty six Short Range Radar sites which operate unattended and are visited between four and nine times annually for:
  - i. Preventive Maintenance Inspections (PMI);
  - ii. bulk fuel resupply; and
  - iii. security patrols by the Royal Canadian Mounted Police or the Canadian Forces Rangers.

A helipad is located at each SRR. In addition abandoned landing strips may be usable by fixed wing aircraft at various SRR sites depending on aircraft type and both site and weather conditions. A POL Spill Response Kit is located in the Technical Services Building (TSB) at each site with additional materials available at the host LSS. The contents of the on-site kits are listed in Annex C as well as in EPP Part III Annex F.

- c. There are five Logistics Support Sites whose staff support O&M of the SRR and LRR sites under the authority of the LSS Manager. The LSSs are accessible by commercial air carriers and a helipad is located at each site. The SRR sites in each of the five NWS zones are supported by a host LSS as follows:
  - i. Zone 1, Inuvik LSS:
    - · BAR-1, Komokuk Beach;
    - · BAR-B, Stokes Point;
    - BAR-BA3, Storm Hills;
    - BAR-3, Tuktoyaktuk;
    - BAR-DA1, Liverpool Bay;
    - BAR-4, Nicholson Island;
    - BAR-E, Horton River;
    - PIN-1BD, Keats Point; and
    - PIN-1BG, Croker River;
  - ii. Zone 2, CAM-M LSS:
    - · PIN-2A, Harding River;
    - · PIN-CB, Bernard Harbour;
    - · PIN-DA, Edinburgh Island;
    - PIN-EB, Cape Peel West;
    - CAM-A3A, Sturt Point North;
    - CAM-1A, Jenny Lind Island;
    - · CAM-B, Hat Island;
    - CAM-2, Gladman Point; and
    - CAM-CB, Gjoa Haven;
  - iii. Zone 3, FOX-M LSS:
    - CAM-D, Simpson Lake;
    - CAM-4, Pelly Bay;
    - CAM-5A, Cape McLoughlin;
    - CAM-FA, Lailor River;
    - FOX-1, Rowley Island;
    - FOX-A, Bray Island;
    - FOX-2, Longstaff Bluff; and
    - FOX-B, Naduardjuk Lake;
  - iv. Zone 4, Iqaluit LSS:
    - FOX-CA, Kangok Fiord;
    - FOX-4, Cape Hooper;
    - · FOX-5, Broughton Island,
    - BAF-2, Cape Mercy;
    - · BAF-4A, Loks Land; and
    - BAF-5, Resolution Island,

sites, LSS locations and some LRR sites incorporate an integral, external, secondary containment vessel in their design.

Oils and lubricants, used in the operation of power generating systems (PGS) and vehicles, are stored in site specific POL storage areas and in dedicated POL storage sheds. Waste POL products are stored in dedicated areas prior to disposal by incineration or retrograde activity. See site specific maps in EPP Annex F.

# 2.4 Fuel Resupply and Use

Bulk fuel resupply of all LRR and all SRR sites takes place during the summer season on an annual or bi-annual basis. Bulk fuel is transported to most LRRs and SRRs by sealift, (barges or ships). Some SRR sites receive bulk fuel from tractor trains, and the FOX-3 LRR site and some SRR sites are resupplied by airlift. Contractors and sub-contractors engaged in fuel resupply operations are responsible for providing their own POL Spill Contingency Plans, (see Section 1.5, Roles and Responsibilities). This document will be the source document for contractors and sub-contractors.

Uses of fuel at LRR sites include:

- a. operation of the power generating system;
- b. aircraft/helicopter refuelling;
- c. vehicles:
- d. furnaces and boilers; and
- e. incinerators.

Uses of fuel at LSSs and SRR sites include:

- a. operation of the power generating system;
- b. helicopter refuelling; and
- c. furnaces.

#### 2.5 Bulk Fuel Description and Characteristics

The fuel used for all purposes on the NWS sites is Jet A-1 (3A), Arctic Grade, Aviation turbine fuel, kerosene type. This fuel type is highly flammable with a flash point of 38°C. It contains paraffin, olefin, napthalene and aromatics. The aromatics and napthalene fractions are both highly volatile and toxic.

Due to high volatility, Jet A-1 exhibits a high evaporation rate. Due to its light density, this fuel will rapidly disperse on top of a water surface, is easily carried by

flowing water and is visibly detectable as a thin sheen. It will sink rapidly into unfrozen ground and will migrate along the active layer and the permafrost zone.

Land spills of Jet A-1 may cause short-term contamination of soil quality. Water spills of Jet A-1 may cause short-term toxicity to aquatic life forms, and potentially long term physical impairment to aquatic ecosystems.

#### 3.0 SPILL RESPONSE REQUIREMENTS

# 3.1 Spill Classifications

For the purposes of NWS operations, POL spills will be classified by:

- a. Size (volume); and
- b. Type.

The categories of spill size are:

- a. Minor = less than 205 litres (less than 1x45 U.S. gallon drum); or
- b. Medium = 205 litres to 5000 litres (1 to 25 drums); or
- c. Major = more than 5000 litres.

The categories of spill type are:

- a. Land spills; and
- b. Freshwater and marine spills.

# 3.2 FRONTEC's Spill Response Capability

When a POL spill is reported at an NWS sites, FRONTEC will:

a. Mobilize personnel, materials and equipment to respond immediately after receipt of the spill report or as soon as practicable. "In-house" resources will be utilized for response to minor and medium size spills and initial response to major spills.

The conditions at a spill site with respect to weather, temperature, season and availability of transportation, may impose significant delays in response times. The O&M contract SOW allows for a maximum response time of forty eight hours in all cases;

- b. Request assistance, if required, from:
  - i. other NWS sites;
  - ii. DND; and
  - ii. the Canadian Coast Guard,

and hire additional assistance, if required, from:

- iv. Northern residents:
- v. local communities; and
- vi. commerical spill response firms.

Acquisition of additional resources may be required to respond to spills which exceed the capabilities of FRONTEC's "in-house" resources; and

c. Lend assistance to other agencies or local communities when requested.

### 3.7 Spill Response

Implementation of a POL spill action plan will include the following activities:

- a. Spill reporting;
- Stopping the fuel flow;
- c. Containment of the spilled fuel;
- d. Clean up;
- e. Disposal of clean up materials;
- f. Remediation of the spill site;
- g. Final Report; and
- h. Post-spill review

# 3.7.1 Spill Reporting

Following the report of a POL spill at any NWS site, the LSS Manager will forward the initial site report information in writing to:

- a. The North Warning System Control Centre (NWSCC); and
- b. FRONTEC's Environmental Coordinator at CMO.

The Environmental Coordinator will assume the position of Spill Control Manager with authority over all spill response activities as shown in Fig. 2, the Spill Response Flow Chart.

#### The Environmental Coordinator will contact:

- a. NWSO, which will advise on all spill response activities.
   The initial reports ,verbal and written, will be followed by regular verbal reports as required;
- b. 24 hour spill line for:
  - i. Northwest Territories;
  - ii. Yukon Territory;
  - iii. Canadian Coast Guard; or
  - iv. Ontario

These spill lines often have minimum volumes for reporting, meaning a spill of a given substance, under a given volume need not be reported. The Northwest Territories government lists various classes of hazardous substances with their minimum reporting volumes in the Spill Contingency Planning and Reporting Regulations (min. 100 L for flammable liquids). The Yukon follows the quantities listed in the federal Transportation of Dangerous Goods Regulations (min. 200 L for flammable liquids). Spills of gasoline or associated products under 70 L need not be reported in Labrador (Storage and Handling of Gasoline and Associated Products Regulations, 1982). In Ontario,

spills of fuel of less than 100 L with no suspected environmental impact need not be reported. Regardless of these minimum volumes, however, site personnel must notify NWSCC of all spills - the Environmental Coordinator will contact the appropriate agencies as necessary.

- c. CMO personnel, including:
  - Manager, Facilities Engineering;
  - ii. Manager, Operations;
  - iii. Supervisor, POL; and
  - iv. Corporate Communications and Business Affairs
- d. In cases of spills at sites BAR-DA1, BAR-E and PIN-1BD, the lease agreement requires that an immediate spill report also be made to the Inuvialuit Land Administrator.
- e. Spills on airport property at FOX-M, and spills on airport property or at the beach POL tanks at CAM-M, are to be reported to the NWT Department of Transportation.

The LSS Manager will assume the position of Spill Control Officer and authority over the Emergency Response Team (ERT) which will be dispatched to the site of the reported spill. ERT composition and responsibilities are shown in Figure 3 and Figure 4.

#### 3.7.2 Cessation of Fuel Flow

The ERT, upon arrival at the spill site with the emergency spill response kit, will activate measures to stop further fuel flow by closing isolation valves within the POL distribution system if this has not already been done. Communications will be maintained between the ERT and the LSS Manager throughout the duration of all spill response.

#### 3.7.3 Spill Containment

The ERT will deploy materials from the spill control kit and utilize such on site equipment as may be available to contain the spill by constructing temporary berms. In cases where the spill exceeds the capabilities of on site resources, the Spill Control Manager will make arrangements for additional personnel, equipment and materials from:

- a. other NWS sites;
- b. DND:
- c. the Canadian Coast Guard;
- d. local communities; and
- e. commercial spill response contractors

#### FIGURE 3 - EMERGENCY RESPONSE TEAM - ATTENDED NWS SITES

#### LSS MANAGER

Responsibilities: a) On-Site Spill Control Officer

- b) Reports spill to NWSCC;
- c) Directs on site personnel in spill response actions; and
- d) Records all spill response activities in the site log.

## FACILITIES MAINTENANCE TECHNICIAN (FMT)

Responsibilities: a) Directs on-site personnel in operation of spill response equipment and fire fighting equipment;

- b) Operates valves to stop the flow of leaking POL; and
- c) Coordinates cleanup activities.

#### SYSTEM MAINTENANCE TECHNICIAN (SMT)

Responsibilities: a) Communications between spill location and LSS Manager;

- b) Administers first aid (as required); and
- c) Assists in containment and cleanup activities.

#### OTHER ON SITE PERSONNEL

Responsibilities: a) Assist in spill response actions as directed by the LSS Manager or FMT.

# FIGURE 4 - EMERGENCY RESPONSE TEAM - UNATTENDED NWS SITES

