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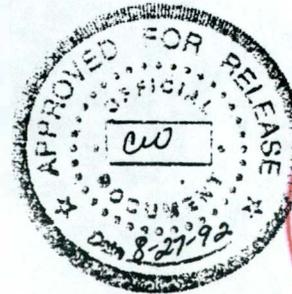
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8. Originator Remarks: For original release.		9. Equip./Component No.:
		10. System/Bldg./Facility: Tank Farms Satellite Accumulation Areas
11. Receiver Remarks: none		12. Major Assm. Dwg. No.:
		13. Permit/Permit Application No.:
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WHC-IP-0824

**CONTINGENCY PLAN**

**FOR TANK FARMS NON-RADIOACTIVE HAZARDOUS WASTE  
SATELLITE ACCUMULATION AREAS**

**April 15, 1992**

HAZARDOUS WASTE SATELLITE ACCUMULATION AREA CONTINGENCY PLAN

TABLE OF CONTENTS

INTRODUCTION . . . . . 1

SATELLITE ACCUMULATION AREA DESCRIPTION . . . . . 1

EVACUATION ROUTES . . . . . 7

EMERGENCY NOTIFICATION . . . . . 7

EMERGENCY EQUIPMENT . . . . . 7

    272-AW SATELLITE AREA . . . . . 8

    242-A PAINT SHACK SATELLITE AREA . . . . . 8

    MAINTENANCE OIL STORAGE BUILDING . . . . . 8

    272-WA (CONNEX) EMERGENCY EQUIPMENT . . . . . 9

SPILL RESPONSE PLAN . . . . . 9

FIRE AND EXPLOSION ASSOCIATED WITH HAZARDOUS MATERIALS . . . . . 11

TOXIC FUME RELEASE . . . . . 11

REACTIVE CHEMICAL OR CORROSIVE MATERIAL HAZARD . . . . . 12

THERMAL REACTION . . . . . 12

FLAMMABLE LIQUIDS AND MATERIALS . . . . . 12

FIGURES

FIGURE 1-1. EAST AREA SATELLITE ACCUMULATION AREA LOCATIONS . . . . . 3

FIGURE 1-2. WEST AREA SATELLITE ACCUMULATION AREA LOCATIONS . . . . . 4

FIGURE 1-3. SATELLITE ACCUMULATION AREA LAYOUT . . . . . 5

## INTRODUCTION

The various routine maintenance activities performed at the Tank Farms facilities generate waste streams which are regulated by the Washington Department of Ecology (WDOE). Accumulation of these wastes at satellite accumulation areas is allowed, provided the accumulation is in close proximity to the source of generation, and the allowable quantity (55 gal. of hazardous waste or 1 quart of acutely hazardous waste) is not exceeded.

This contingency plan has been designed in order to provide a basic guide for the initial actions to be taken, in the event of an emergency, such as fire, explosion, or unplanned release of dangerous waste to the air, soil, surface water, or ground water, at one of the designated Tank Farm satellite accumulation areas.

The Building Emergency Director (BED) has overall responsibility to ensure proper response to emergency situations. Because the BED normally is not present at the individual facility, first line management (Operations Shift Manager) shall assume initial response responsibilities and may be assigned as emergency coordinators.

## SATELLITE ACCUMULATION AREA DESCRIPTION

There are six Tank Farms facilities, satellite accumulation areas which have been set up within the 200 Areas. They are located as shown in Figures 1-1, and 1-2. The purpose of these satellite accumulation areas is the collection of hazardous waste generated by Tank Farms maintenance and operations personnel. Each satellite accumulation area should meet the basic requirements listed below. Figure 1-3 is an example of what should appear at a satellite accumulation area within Tank Farms.

### Requirements

1. It should be located close to the area where the waste to be disposed of is routinely generated.
2. Waste which is collected in a satellite accumulation area is managed by personnel in control of the process which generates the waste.
3. Personnel responsible for managing satellite accumulation areas must meet the training requirements of the Environmental Compliance Manual (ECM), WHC-CM-7-5, Part I, 5.2.4.a.
4. It should be identified by a sign reading, "Satellite Accumulation Area," and the waste stream being collected should also be clearly identified.
5. The contingency plans should be located within easy access of the satellite accumulation area.

**DESCRIPTION (cont'd)**

6. A hazardous waste sticker is required on containers collecting regulated wastes.
7. Containers for the collection of non-regulated materials will be clearly labeled with a non-hazardous waste sticker.
8. The collection container (drum) must have a positive means of securing it closed.
9. An inventory sheet, listing the entire contents of the collection container must be present at the accumulation area. In the case of some Tank Farms satellite accumulation drums, the container is locked and the key is located with the inventory sheet, away from the accumulation area. This is acceptable as long as it is communicated (a sign, posting) at the satellite area, where access to the inventory and the accumulation container can be obtained.
10. Containers which accumulate free liquids must have secondary containment or a spill control kit(if necessary) close to the area.
11. Adequate room must be maintained at the satellite accumulation area in order to allow clear, visual inspections of the containers and unobstructed movement in the event of an emergency.
12. Each hazardous waste stream is allowed to accumulate up to 55 gallons in the satellite accumulation area. Acutely hazardous waste is allowed to accumulate up to 1 quart, however, Tank Farms does not generate any acutely hazardous waste which can be accumulated. Once a hazardous waste accumulation container reaches 55 gallons, it must be moved to the 90 day storage pad within 72 hours.

FIGURE 1-1. EAST AREA SATELLITE ACCUMULATION AREA LOCATIONS

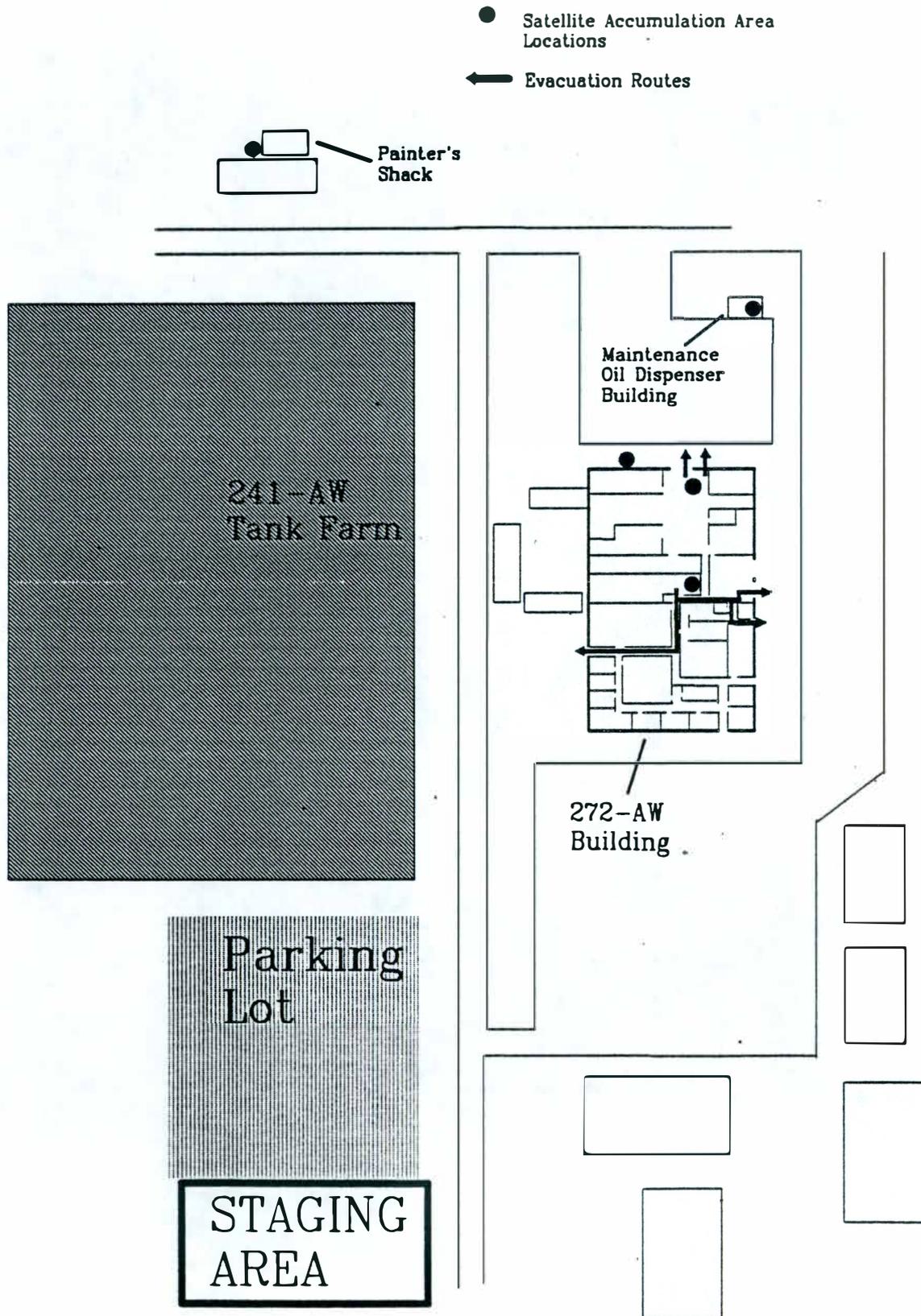
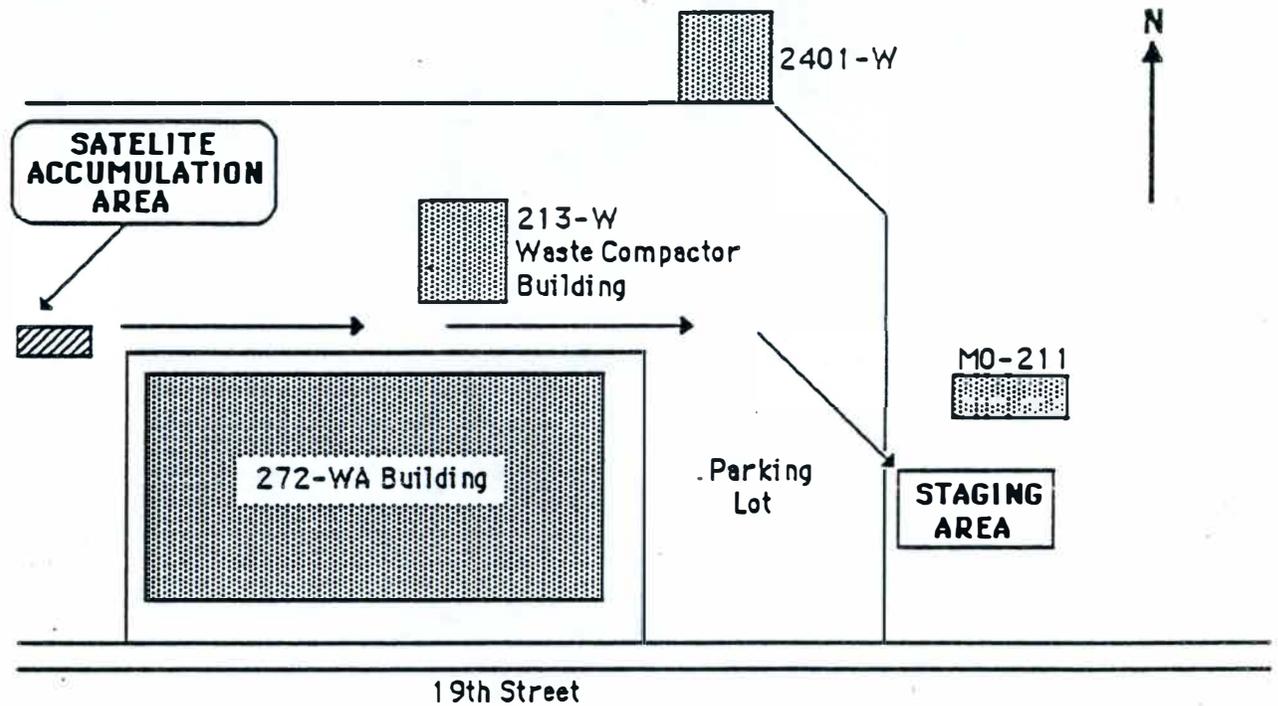


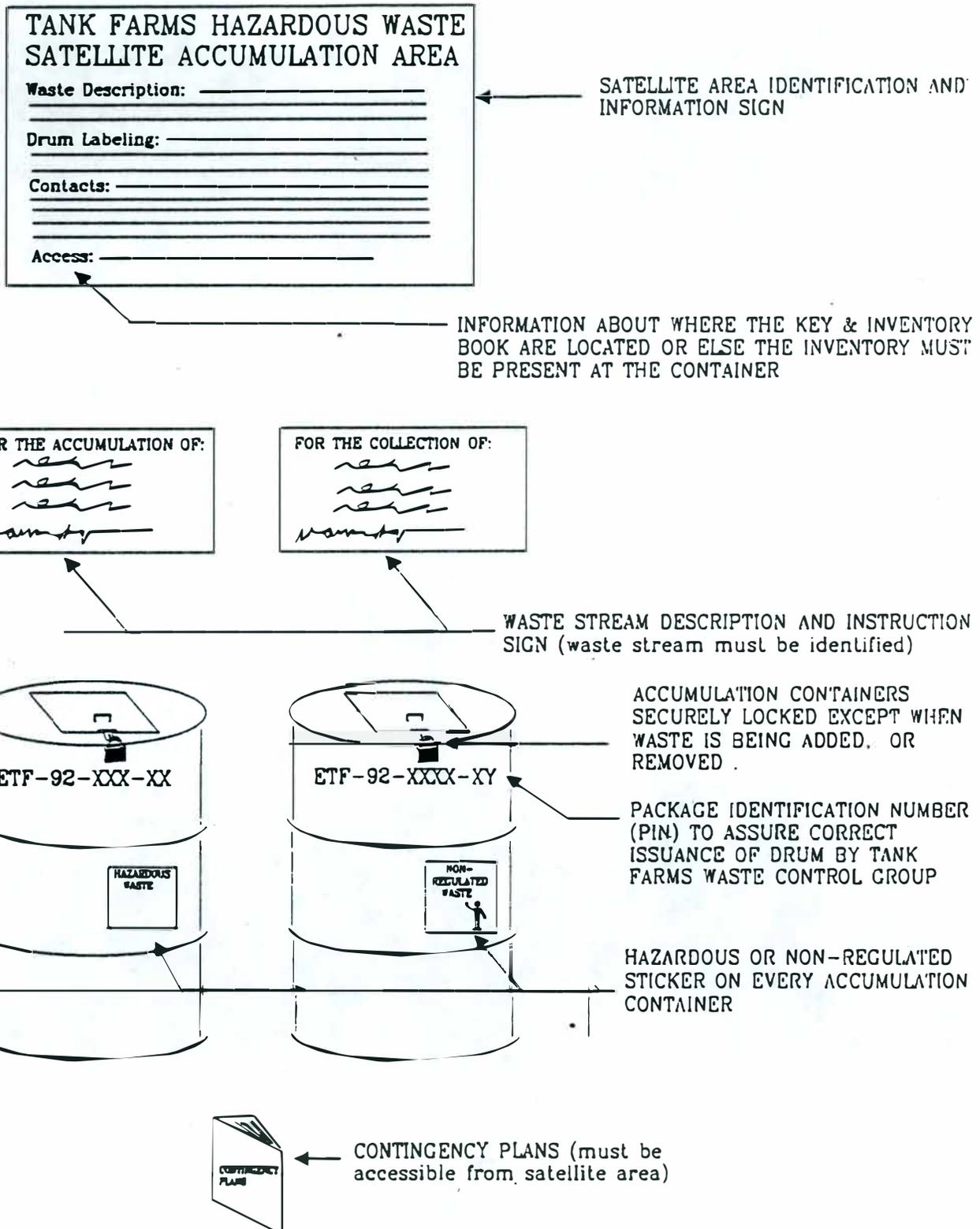
FIGURE 1-2. WEST AREA SATELLITE ACCUMULATION AREA LOCATIONS



**200 WEST AREA TANK FARMS  
SATELLITE ACCUMULATION AREA  
AND EYACUATION STAGING AREA**

FIGURE 1-3. SATELLITE ACCUMULATION AREA LAYOUT

# EXAMPLE OF TANK FARMS SATELLITE ACCUMULATION AREA & BASIC REQUIREMENTS



## SATELLITE ACCUMULATION AREA DESCRIPTION (cont'd)

The following gives a breakdown of hazardous and non-hazardous wastes which are collected at each of the satellite accumulation areas.

### 272-AW STOREROOM

- Used alkaline batteries
- Used carbon-zinc batteries
- Used Ni-Cd batteries

### 272-AW MAINTENANCE SHOP AND DOCK AREA

- Regulated rags (contacted by stoddard solvent, gasoline, etc.)
- Non-regulated rags
- Used light ballasts
- Used lead acid batteries (for recycle)
- Regulated aerosol cans (not empty, containing propellant)
- Non-regulated aerosol cans (empty)
- Fluorescent lightbulbs (non-regulated)

### 242-A PAINTERS SHACK

- Used paint equipment (regulated)
- Non-regulated, empty containers

### 272-AW MAINTENANCE OIL STORAGE BLDG.

- Regulated dispenser overflow

### 272-WA MAINTENANCE SHOP

- Regulated rags (contacted by gasoline, acetone, etc.)
- Non-regulated rags
- Used light ballasts
- Used alkaline batteries
- Used carbon-zinc batteries
- Used Ni-Cd batteries
- Lead acid batteries
- Regulated aerosol cans (not empty)
- Fluorescent lightbulbs (non-regulated)
- Non-regulated paint materials
- Paint thinner (regulated)
- Waste oil

## **EVACUATION ROUTES**

Evacuation routes and staging area information are detailed in Figures 1-1 and 1-2.

## **EMERGENCY NOTIFICATION**

Emergency notifications may be made by telephone, or via two-way radio. Primary notification of emergency events outside the immediate work area is also transmitted to personnel via the telephone, or two-way radio. For any emergency incident in a safe area, relay information via the two-way radio or telephone to the Tank Farms Shift Manager Office. The numbers to contact by telephone in the event of an emergency are as follows:

- 811 - Patrol Duty Officer, emergency dispatch. If assistance is required from Patrol, Fire, or ambulance units.
- 3-2689/3-1600 - Operations Shift Manager, Alternate BED. This is primary contact for Tank Farm Operations or BED response to any event.
- 3-3800 - Patrol Duty Officer, business number. Use when the emergency is not life threatening or an immediate response is not required.
- 3-4565 - Primary Building Emergency Director (BED) for Tank Farms
- 3-1178 - East Area Maintenance supervisor
- 3-2804 - West Area Maintenance supervisor
- 3-3277 - Tank Farms Waste Control Group
- 3-1060 - Environmental Protection

The Hanford Site has its own security, fire, ambulance, and hazardous materials response organizations. Assistance by these or any offsite emergency organization is coordinated through the Patrol Duty Officer at 811.

## **EMERGENCY EQUIPMENT**

Emergency equipment is provided at Tank Farm facilities to cover a wide array of emergency situations. Fire control equipment, breathing apparatus and protective clothing are on hand in various locations. For a more detailed description of the facility wide equipment and where it is located, refer to the Tank Farms Building Emergency Plan, WHC-IP-0263-TF.

## **EMERGENCY EQUIPMENT (cont'd)**

Each of the satellite accumulation areas have emergency equipment as necessary. The following information is general description of what emergency equipment can be found at each of the areas, and the equipment capabilities.

### **272-AW SATELLITE AREA**

The 272-AW Building has a variety of fixed and portable emergency equipment. Specifically, the following equipment is located at the 272-AW satellite accumulation area:

An ABC class, portable fire extinguisher. It can be used on fires involving materials such as wood, cloth, paper, flammable liquids, gases, greases, and energized electrical equipment. It should not be used on combustible metals such as sodium, lithium or magnesium.

Three Spill Control Kits located at 272-AW. They are presently located in the maintenance shop (by supervisors office), in the store room, and back on the 90 day pad area. In addition, there are several kits stocked in the storeroom for case-by-case issuance. They all include at least one chemical spill suit, a pair of protective rubber gloves, a pair of safety goggles, a hydrogen fluoride spill pillow, and assorted spill pillows and absorbent pads. The spill kit located on the pad also contains a mercury spill kit, 100 lb of free absorbent, a full extra set of protective clothing, and face shields. The spill kits can be used on organic and inorganic solvents, and acid solutions, as well as the specific materials described in the kits (hydrogen fluoride, mercury).

### **242-A PAINT SHACK SATELLITE AREA**

There is an ABC class portable fire extinguisher located at the used paint equipment accumulation area. Use on most fires except those involving combustible metals.

### **MAINTENANCE OIL STORAGE BUILDING**

There is an ABC class, portable fire extinguisher located at the oil storage building. The building itself has 750 gallons of secondary containment built in, as a contingency against spills or leaks.

## EMERGENCY EQUIPMENT (cont'd)

### 272-WA (CONNEX) EMERGENCY EQUIPMENT

The 272-WA Connex Building has portable emergency equipment located at the building for fire and spill events.

An ABC class, portable fire extinguisher is located at the accumulation area. Use on wood, paper, flammable liquids, gases, and electrical fires.

A Spill Control Kit is located directly in the satellite area. It contains at least one chemical spill suit, a pair of protective rubber gloves, a pair of safety goggles, a hydrogen fluoride spill pillow, and assorted spill pillows and absorbent pads. The spill kits can be used on organic and inorganic solvents, and acid solutions, as well as the specific materials described in the kits (hydrogen fluoride).

### SPILL RESPONSE PLAN

Satellite accumulation areas within Tank Farms are primarily for the collection of solid waste items such as soiled rags, light ballasts, used painting equipment, and batteries. Although used light ballasts may contain polychlorinated biphenyl (PCB) oils, and used batteries contain corrosive liquids, spills of such materials do not pose an imminent health threat.

Initial response for a spill is to first assure your own safety and the safety of others. Depending on the nature of the spill, this may include restricting access, evacuating downwind personnel and similar protective actions. The proper method for cleanup of a spill shall be developed on a case by case basis, however, the following actions generally apply to a spill of hazardous material at a satellite accumulation area.

1. Assess the severity of the situation.
2. Notify personnel in the immediate area of the incident.

### SPILL RESPONSE PLAN (cont'd)

3. Gather as much information about the spill as possible without endangering yourself or others. Important information to compile is as follows:

- The product that was spilled.
- The approximate amount of product that was spilled.
- The exact location of the spill.
- The time of the spill (if known).
- The MSDS number for the product or waste that was spilled.

When reporting the spill it will be helpful to have this information readily available to provide to the BED, as well as your name and a phone number at which you can be reached.

4. If the release can be controlled safely and promptly, do so, and then inform the BED (Shift Manager) or Maintenance Supervisor of the spill. If risks are involved, or the response is uncertain, notify the Shift Manager or Maintenance Supervisor. On off shifts, weekends, or holidays the shift manager will be your primary contact.
5. Secure the area and stand by for further instructions.
6. Residual hazardous materials will be isolated and stabilized as follows.
  - Use the absorbent material in the emergency spill kit designated for that area, to cover and absorb minor spills.
  - Remove the absorbent and any wetted soil and place them inside of the waste storage containers. Spills or leaks must be sampled for hazardous components.
7. After the spill is cleaned up, emergency and containment equipment used in the response to the incident shall be cleaned and returned to a condition fit for reuse. All expendable supplies that were used shall be replaced.

## **FIRE AND EXPLOSION ASSOCIATED WITH HAZARDOUS MATERIALS**

Explosions may be the cause or result of a fire. Expended aerosol cans that still contain propellant are accumulated at the satellite accumulation areas and can explode at temperatures of approximately 110 - 130 °F. temperatures. Extreme caution should be used when responding to a situation involving a fire in proximity to any aerosol cans.

For this contingency plan, fire and explosion are treated simultaneously. Special chemical hazards are addressed in the "Prefire Plans" of the Fire Department that is located in the 200 West Area.

The person discovering the fire shall take the following immediate actions:

1. Avoid inhaling smoke, fumes, or vapors even if no hazardous waste is involved.
2. Notify personnel in the immediate area.
3. Pull the nearest fire alarm pull station, or contact the POC at 811, or via two-way radio and provide as much information as possible. Request additional assistance as required.
4. Notify the Operations shift office at 3-2689 or via two-way radio. Provide as much information as possible without personal risk.
5. Move upwind and keep people away from the fire scene. Remind personnel to stay out of the way of emergency vehicles.
6. Provide assistance to the fire department personnel, if other Emergency Response personnel are not at the scene.

## **TOXIC FUME RELEASE**

There should be no materials at the satellite accumulation areas which would release toxic fumes under ordinary conditions. However, a response is provided in the event that toxic fumes are discovered at a satellite accumulation area.

The person discovering the toxic fumes shall take the following immediate actions.

1. Assume a fume release is toxic unless it is absolutely known to be harmless (Do not assume that gases or vapors are harmless because of lack of odor).
2. Avoid inhaling smoke, fumes, or vapors even if no hazardous waste is involved.

### TOXIC FUME RELEASE (cont'd)

3. Notify personnel within the immediate area.
4. Move upwind and contact the Operations shift office at 3-2689 or via a two-way radio, immediately. Provide as much information as possible.

NOTE: Keep in mind that correct response actions, by the BED or HAZMAT Team to a toxic fume release, will require information on the characteristics, source, amount and extent of the released materials.

### REACTIVE CHEMICAL OR CORROSIVE MATERIAL HAZARD

There are no reactive chemicals collected in the satellite accumulation areas, however, some of the batteries collected in the satellite accumulation area have corrosive contents. When dealing with ruptured or damaged batteries use appropriate hand protection (rubber gloves).

In the event that battery contents come in contact with the skin or eyes:

1. Flush affected area with large quantities of water.
2. Get medical attention immediately for eyes.
3. Wash affected skin areas with soap and water.

### THERMAL REACTION AND HAZARD

There are no thermal reactive hazards presented by any of the waste collected in the satellite accumulation areas.

### FLAMMABLE LIQUIDS AND MATERIALS

Regulated and non-regulated rags which are collected at satellite accumulation areas are considered flammable materials. Used paint equipment (rollers, brushes, etc.) which have been in contact with flammable paint, thinner, or mineral spirits, are collected at satellite accumulation areas and are considered flammable. To respond to fires involving these materials follow the same actions that are listed under Fire and Explosion Associated With Hazardous Materials.