



BUSSETON MARGARET RIVER AIRPORT

SPILL MANAGEMENT HANDBOOK



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INTRODUCTION

This handbook contains information for airport operators relating to:

- contaminate spills
- stormwater runoff
- determination whether the spill is major or minor
- what to do when a spill occurs
- How to minimise the impact and prevent the spill happening in the future.

Airport operating environments have large areas of sealed surfaces such as aircraft parking areas, taxiways, runways and aprons where the potential for hazardous and non-hazardous spills could egress into stormwater drains or ground water.

If these spills are not contained and cleaned up correctly, then contaminants can pose a significant risk to the environment, people and property.

WHAT IS STORMWATER RUNOFF?

All airports require an effective stormwater system which is designed to prevent flooding by collecting rainwater from paved areas of the airport and moving the water to a suitable local catchment area.

Rain water entering the stormwater system from aprons and paved areas of the airport pick up contaminants including petrol, oil, FOD and anything left on the aprons and paved surfaces.

These contaminants can effect local wildlife and wetlands downstream many kilometres from the source at the airport.

ENVIRONMENTAL LAW

Under the West Australian Environmental Protection Act 1986 it an offence for a person to allow waste to be placed in any position from which the waste (a) could reasonably be expected to gain access to any portion of the environment; and (b) would in so gaining access be likely to result in pollution, commits an offence and significant penalties apply.

The West Australian Occupational Safety and Health Act 1984 and Occupational Safety and Health Regulations 1996 apply to the management of hazardous substances (i.e. fuels, oils, solvents and other chemicals) and require people using and storing these products to make provision for:

- Containment of spills and
- Response to, and clean-up of , these spills that occur

Busselton-Margaret River Airport must therefore:

- So far as is reasonably practicable, that where there is a risk of a hazardous chemical spill or leak, provision is made for a spill containment system that contains the spill or leak, and any resulting effluent
- The spill containment system does not create a hazard by bring together different hazardous chemicals that are not compatible
- The spill containment system provides for the clean-up and disposal of a hazardous chemical that spills or leaks, and any resulting effluent
- So far as is reasonably practicable, that containers of hazardous chemicals and any associated pipe work or attachments are protected against damage caused by an impact are excessive loads

WHAT CONSTITUTES A SPILL?

It is the spillage of any substance that is likely to contaminate stormwater or natural ground. Substances may include, but are not restricted to:

- Oils and fuels
- Toxic metals
- Chemicals (detergents)
- Sediment (earthworks)
- Organic wastes (domestic sewage and plant and animal product)

A minor spill contains less than 5 litres and cover less than 2m² surface area and can be contained and cleaned up by the person who created the spill without the assistance of City of Busselton Airport Operation.

If you find a minor spill and did not create it, the City of Busselton Airport Operation requires you to report the spill immediately to Airport Operations on ph. 0897542333 or Airport Reporting Officer 0417928916

A major Spill- is any spill which is greater than 5 litres or greater than 2m² surface area. A major spill shall be reported immediately to the Aerodrome Reporting Officer on 0417928916 and DFES if required.

SAFETY COMES FIRST!

Call the Aerodrome Reporting Officer (0417928916) immediately if you:

- can't contain the spill,
- don't know what has been spilt,
- the spill material has entered a stormwater drain
- the material spill is toxic.

The appropriate personal protective equipment (PPE) shall be worn when managing spilt material and toxic materials should be left for DFES to attend to.

SPILL RESPONSE PROCEDURES

All operators at Busselton-Margaret River Airport must take the following action in the event of a spill:

- Contact the Airport Reporting Officer 0417928916 and DFES if required
- Ensure the safety of people- Move people, and equipment if it is safe to do so from the immediate vicinity of the spill.
- Assess the spill- What is the spill? Establish whether you have access to the right equipment, MSDS and sufficient quantities of absorbent to deal with the material spill.
- Assess the location- Establish whether there are any drains nearby that need protection and determine whether and material has entered the drain system.
- Control the spill- Stop the spill from spreading by placing absorbent material in a down slope position and by blocking storm water inlets.
- Clean up the spill- Apply absorbent material, sweep up residue and place it in a container for disposal.
- If soil has been contaminated, dig up the affected soil and place it in a container for disposal.
- Dispose of contaminated spill response material or soil to an appropriately licenced waste facility. Retain a copy of the waste disposal certificates for your records.

APRON SPILL PROCEDURE

The aircraft apron parking area accommodates the aircraft that use the main terminal building and aircraft refuelling bowser.

Controlling a Spill

If possible, position yourself upwind of the spill. Ignition sources must be turned off as soon as possible, especially if you don't know the nature of the spill. Move away from the fuel source before switching and ignition source off.

Examples of ignition sources are:

- Cigarette lighters
- Portable radios
- Mobile phone/pagers
- Camera flashes
- Safety matches
- Motor vehicles

If it is safe to do so, turn leaking valves and pumps off to stop further leakage. Emergency fuel stop buttons (located near the fuel bowser) are available to stop uncontrolled aircraft refuelling operations. Should they be required an emergency eyewash station (bottles) are available in the fuel/ lighting hut.

Containing the spill- Minor Spill

Absorbent materials absorb liquid spills to prevent or minimise the amount of spill entering stormwater drains, reduce pavement damage and to provide a safer working environment. Absorbent materials may include absorbent socks, booms bunds, mats and absorbent granules.

Emergency spill kits are available on the Southern, Central aprons, at the Avgas and Jet A1 fuel bowsers (Red bins)

Airport tenants/users should have their own emergency spill kits for cleaning up minor spills. Equipment that should be contained in a spill kit listed on page 5.

Containing the spill- Major Spill

Contact DFES on 000, Airport Operations Office 0897542333 and Airport Reporting Officer 0417928916

Sewage Spill

Major sewage spills should not be handled due to health reasons. These spills are to be reported immediately to Airport Operation Office / Airport Reporting Officer who in turn manages this issue.

Cleaning up a spill

Personal Protective Equipment (PPE) should be worn when handling hazardous substances. PPE includes gloves, protective eyewear, protective footwear disposable coveralls.

REPORTING SPILLS

All spills **MUST** be reported to:

Minor Spills – (less than 5 litres and less than 2m² surface area) call Aerodrome Reporting Officer 0417928916

Major Spills – (greater than 5 litres or greater than 2m² surface area) call DFES 000 and Aerodrome Reporting Officer 0417928916 and DFES on 000 if required

An incident form, available from Airport Operations must be completed.

SPILL KIT RESPONSE EQUIPMENT

All local operators on the airport are required to maintain sufficient response equipment to manage the type and size of the spill that may occur at their premises, or in association with their work/ hanger activity.

There is a variety of spill response equipment. The type and quantity of fuel, oil and chemicals you use and store at your facility will determine the type and quality of spill response equipment you require.

Spill response material designed to target specific substances is commercially available. For example absorbent mats and booms designed to absorb hydrocarbons (fuel and oil) and allow water to pass through are available.

Spill Response Equipment (subject to the MSDS) can include:

- Personal Protective Equipment (PPE)- gloves, coveralls, eye protection and boots.
- Absorbent granules
- portable bunds
- disposable bags or containers
- brush and dustpan

In facilities where small amounts (less than 20L) of hazardous substances and chemicals are used and stored, absorbent substances such as chemisorb or saw dust are sufficient for spill response.

Make sure your emergency spill kits are in accessible places and everyone using the facility knows where they are.

You can assemble your own emergency spill kits or buy standard kits by referring to the yellow pages under safety consultants and safety equipment.

PREVENTING A SPILL

Every facility at the airport that handles, stores, uses or transports substances that could contaminate the environment or endanger people and property need to be proactive in preventing spills.

Prevent spills by:

- provide the correct storage equipment such as drip trays for collecting substances that may spill or leak into the environment
- ensuring all staff know how to handle, store, use and transport materials and substances properly
- knowing where the stormwater and sewer drains are and ensuring only rain goes into the stormwater drains
- at all times keeping your site clean and tidy
- being prepared to cope with a spill by providing equipment and staff training in the correct use of spill procedures and equipment

GLOSSARY

Aircraft Fuelling Area – any outdoor area at an airport including aprons and hardstands where aircraft are fuelled or defuelled.

Airport- the airport owned and operated by City of Busselton

Airport Ramp- any outdoor area including aprons, hardstands and grassed areas where aircraft can be positioned, stored, services or maintained, irrespective of the nature of the surface of the area

Airport Terminal Building¹- a structure used primarily for air passengers arriving or departing, including flight information, baggage handling and other functions in connection with air transport operations. This term includes any extensions and satellite buildings used for passenger handling or aircraft flight service functions

Airside- the area inside the security fence of the airport which has controlled entry

Busselton-Margaret River Airport- City of Busselton

Apron- the hard stand surface area which the aircraft park, unload and reload passengers and cargo as well as refuel.

Bunding- a construction impervious embankment or wall either permanent or temporary which may surround storage areas, drains etc. which is designed to prevent migration of and spill or leak to the surrounding drains or the ground.

Environmental Incident- the release of anything that has the potential to contaminate the airport environment e.g. air, water and soil

Hazardous Material- materials which without adequate safeguards may contaminate and harm the environment. This includes dangerous goods and many industrial chemicals

Landside- that portion of an airport not designated airside and to which the general public normally has free access.

PPE- Personal Protective Equipment, including gloves, coveralls, eye protection and protective footwear when attending a spill.

Safety Data Sheets- contains the information on the chemical constituents of a product and their properties, health hazard information, first aid, precautions for use, disposal information and advice to doctors. This information will be vital in a major spill.

Shall¹- indicates a mandatory requirement

Should¹- indicates a recommendation or that which is advised but not required

1 National Fire Protection Association (NFPA) 415 Standard on Airport Terminal Buildings, Fuelling Ramp Drainage, and Loading Walkways 2008 Edition, NFPA, 1 Batterymarch Park Quincy, MA 02169-7471, An International Codes and Standards Organisation

CONTACTS

BMRA Reporting Officer – 0417928916
BMRA Operations Office- 0897542333
BMRA Airport Manager- (08)97810389 / 0419046601
BMRA Operations Coordinator- 0418959409
Department Fire Emergency Services - 000

