

## 5.0 The Goal of Spill Control

### OBJECTIVE 5.1: CONTROL OF GAS / AIR RELEASES

(Demonstrate the ability to perform spill control of gases and vapors )

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to provide spill control capability for airborne contaminants.

Note: This objective focuses on the methodologies used to control gas/air releases which is the most difficult state of the material to control the Emergency Response Agency demonstrates the technical capability to perform this work task in an incident/accident.

	yes	no	n/a	n/o	Time
Was this Objective Met	_____	_____	_____	_____	_____
Evaluator Signature	_____				Date _____

#### Criteria:

5.1.1 Did Emergency Response Agency demonstrate the ability to determine that type of spill?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to determine whether the spill is static or moving?(vapor density)

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to ventilate as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.4 Did Emergency Response Agency demonstrate the knowledge, skills & capability to disperse as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.5 Did Emergency Response Agency demonstrate the knowledge, skills & capability to use dissolution as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.6 Did Emergency Response Agency demonstrate the knowledge, skills & capability to use blanketing as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.1.7 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select diverting as a means of spill control?

yes                    no                    n/a                    n/o                    time  
\_\_\_\_\_

Explanation:

The Emergency Response Agency should demonstrate the capability to spill control.

The physical factors associated with the vapor density of the gas will help determine the most appropriate type of spill control. As an example a fog stream could be used to disperse and dissolve a cloud of certain lighter than air products. Heavier than air release inside structures require mechanical ventilation to control.

The Emergency Response Agency should demonstrate the capability to use the necessary tactics concerning the spilled or release material and evaluate the potential for exposure to the public's health and safety and the environment .

**OBJECTIVE 5.2: CONTROL OF LIQUID RELEASES**

(Demonstrate the ability to control liquid spills on ground surfaces, subsurface and in waterways )

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to control.

Note: This objective focuses on the technical identification of liquids and solids, the assessment of the associated hazards to the public health and safety. The Emergency Response Agency demonstrates the technical capability to control the material involved in an *incident/accident*.

	yes	no	n/a	n/o	Time
Was this Objective Met	_____	_____	_____	_____	_____
Evaluator Signature	_____				Date _____

Criteria:

5.2.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select diking as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.2 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select absorbing as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.3 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select neutralizing as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.4 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select diverting as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.5 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select retention as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.6 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select applying gels as a means of spill control?

yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

5.2.7 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select an over flow dam as a means of spill control?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

5.2.8 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select under flow dam as a means of spill control?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_

Explanation:

The Emergency Response Agency should demonstrate the capability to assess the physical factors affecting the release such as the material state (liquid, gas, solid), actual and projected release rate, and direction of the material released in air or water.

The physical factors associated with the natural setting and type of material being released at the accident site should guide the Emergency Response Agency in structuring the design of a field sampling plan and deployment of field monitoring teams.

The Emergency Response Agency should demonstrate the capability to use the analysis of the field samples to guide decision makers in developing protective actions for the responders as well as for the general public. Those activities concerning the risk(s) associated with the spilled or release material and the potential for exposure to the public health and safety and the environment are evaluated under the goal of Protection.

**OBJECTIVE 5.3: CONTROL OF SOLID RELEASES**  
 (Demonstrate the ability to perform unbiased sampling procedures )

Intent This objective provides a framework for the evaluation of an the Emergency Response Agency's ability to provide quality control in unbiased sampling of products using nationally accepted work practices of the EPA.

Note: This objective focuses on the technical identification of liquids and solids, the assessment of the associated hazards to the public health and safety. The Emergency Response Agency should demonstrate the capability to control the source of a release, contain the spilled material, and stabilize an Incident/Accident.

	yes	no	n/a	n/o	Time
Was this Objective Met	_____	_____	_____	_____	_____
Evaluator Signature	_____				Date _____

Criteria:

5.3.1 Did Emergency Response Agency demonstrate the knowledge, skills & capability to select blanketing as a means of spill control?

yes                      no                      n/a                      n/o                      time  
 \_\_\_\_\_



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yes	no	n/a	n/o	time
_____	_____	_____	_____	_____
5.3.13	Did Emergency Response Agency demonstrate the knowledge, skills & capability to provide unbiased samples?			
yes	no	n/a	n/o	time
_____	_____	_____	_____	_____
5.3.14	Did Emergency Response Agency demonstrate the knowledge, skills & capability to provide a rinse blanks?			
yes	no	n/a	n/o	time
_____	_____	_____	_____	_____
5.3.15	Did Emergency Response Agency demonstrate the knowledge, skills & capability to provide a trip blanks?			
yes	no	n/a	n/o	time
_____	_____	_____	_____	_____
5.3.16	Did Emergency Response Agency demonstrate the knowledge, skills & capability to provide a site blank?			
yes	no	n/a	n/o	time
_____	_____	_____	_____	_____
5.3.17	Did Emergency Response Agency demonstrate the knowledge, skills & capability to provide a source blank?			
yes	no	n/a	n/o	time
_____	_____	_____	_____	_____

Explanation:

The Emergency Response Agency should demonstrate the capability to assess the physical factors affecting the release such as the material state (liquid, gas, solid), actual and projected release rate, and direction of the material released in air or water.

The physical factors associated with the natural setting and type of material being released at the accident site should guide the Emergency Response Agency in structuring the design of a field sampling plan and deployment of field monitoring teams.

The Emergency Response Agency should demonstrate the capability to use the analysis of the field samples to guide decision makers in developing protective actions for the responders as well as for the general public. Those activities concerning the risk(s) associated with the spilled or release material and the potential for exposure to the public health and safety and the environment are evaluated under the goal of Protection.