

WORST CASE RELEASE SCENARIO FOR FLAMMABLE SUBSTANCES

(Complete this form for each flammable substance above threshold quantity)

Facility Info

muy	mu	

Name

County

Date

Topography (Select one)

Urban (for terrain with many obstacles in the immediate area, including buildings and trees)

Rural (for generally flat and unobstructed terrain with no buildings in the immediate area)

Chemical

Name	CAS#	-	-	
Physical state (select one) a. Gas (Unliquefied)				
b. Liquid				
 c. Gas liquefied by pressure d. Gas liquefied by refrigeration 				

Single Largest Vessel / Pipeline

Equipment Name	Equipment ID	Drawing Number
Max. Capacity (lbs.)	Location	n on Site (i.e. NW Corner)
Describe In Detail The	Administrative Contro	ls (i.e. % max. fill including <u>procedure</u> reference)

Scenario

Vapor Cloud Explosion (regulatory default scenario)
For a flammable liquid, provide whichever is higher:
Highest daily max. temperature over previous 3 yrs.
Or Process temperature
For a flammable mixture, how was heat of combustion assumed? Select one.
Based on predominate component
Based on the constituents of the mixture.
Describe mixture using weight percentages.



Mitigation (describe any that were considered in determining the release quantity for the worst case scenario)

Passive

Define any passive mitigation(s). (i.e. diked area, including dimensions, drawing reference, etc.)

Describe the anticipated effect of the passive mitigation. (i.e. limits the vaporization)

Describe how the mitigation is designed to remain functional under the conditions of the release scenario.

Has it been verified that mitigation is designed to remain functional under the conditions of the release scenario.

Meteorological Conditions

Atmospheric Stability C	(default = F, unless local data show a higher min. at all times during previous 3 yrs.)
Wind Speed (defau	It = 1.5 m/s, unless local data show a less stable atmosphere at all times during previous 3 yrs.)
Ambient Temperature	(default = 77 degrees F, or highest daily max. during previous 3 yrs.)
Relative Humidity	(default = 50%, or average humidity based on local data)
Provide an explanation	if default information was not used: (i.e. include data source references)

Model Used (select one or enter another model name in other below)

EPA's RMP* Comp	
EPA's OCA Guidance Reference - If Checked List Tables or Equations Used	
Aerial locations of Hazardous Atmospheres (ALOHA®)	
Other model (specify)	



Potential Off-site Consequence Impact

Quantity Released (lbs.)		Release Rate	Release Rate		
Duration of the released Residential Population Affected		Distance to endpoint (miles	Distance to endpoint (miles)		
		Data Source Used to Estimate (i.e. 2010 Census)			
Public Receptors Affected	(List all schools, hospitals, correct	ional facilities, recreation areas, commercial, og	fice, or industrial areas, etc.)		
Name	Address	Estimated Occupancy	Emergency Contact		
Environmental Receptors A Sanctuaries/Preserves/Refuges; Fed		ate Parks, Forests, or Monuments; Officia	lly Designated Wildlife		
	leral Wilderness Areas, etc.)		, ₀ ,		

Additional Worst-Case Scenarios

- If there are smaller quantities of the substance handled at higher temperatures or pressures in closer proximity to the facility boundary that would result in a greater distance to an endpoint than above, an additional worst-case scenario must be developed.
- Additional worst-case scenarios must be developed if different public receptors are affected.

Based on this information, are additional worst-case scenarios required?

Yes

No

If yes, perform and attach.