



**WORST CASE RELEASE SCENARIO FOR FLAMMABLE SUBSTANCES**

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

**Facility Info**

Name	County	Date
------	--------	------

**Topography** *(Select one)*

<input type="checkbox"/> Urban <i>(for terrain with many obstacles in the immediate area, including buildings and trees)</i>
<input type="checkbox"/> Rural <i>(for generally flat and unobstructed terrain with no buildings in the immediate area)</i>

**Chemical**

Name	CAS#	-	-	-
<b>Physical state</b> <i>(select one)</i>				
<input type="checkbox"/> a. Gas (Unliquefied)				
<input type="checkbox"/> b. Liquid				
<input type="checkbox"/> c. Gas liquefied by pressure				
<input type="checkbox"/> d. Gas liquefied by refrigeration				

**Single Largest Vessel / Pipeline**

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

**Scenario**

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



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

<p><b>Passive</b></p> <p>Define any passive mitigation(s). <i>(i.e. diked area, including dimensions, drawing reference, etc.)</i></p> <p>Describe the anticipated effect of the passive mitigation. <i>(i.e. limits the vaporization)</i></p>
<p>Describe how the mitigation is designed to remain functional under the conditions of the release scenario.</p> <p><input type="checkbox"/> Has it been verified that mitigation is designed to remain functional under the conditions of the release scenario.</p>

**Meteorological Conditions**

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

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

<p><input type="checkbox"/> EPA's RMP* Comp</p>
<p><input type="checkbox"/> EPA's OCA Guidance Reference - If Checked List Tables or Equations Used</p>
<p><input type="checkbox"/> Aerial locations of Hazardous Atmospheres (ALOHA®)</p>
<p><input type="checkbox"/> Other model (specify)</p>

