XIV. Hazards Assessments Program
Nevada Division of Environmental Protection
Chemical Accident Prevention Program
Data Form

Revision 0, 04/19/2016

NDEP

WORST CASE RELEASE SCENARIO FOR TOXIC SUBSTANCES
(Complete this form for each toxic substance above threshold quantity)

Facility Info

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# - -

Percent weight of chemical (if in a mixture) _____ . _____ %

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 on Site   *(i.e. NW Corner)*

Describe In Detail The Administrative Controls *(i.e. % max. fill including *procedure* reference)*

Scenario *(Select One)*

☐ a. Gas Release
☐ b. Liquid Spill and Vaporization

　　　For a liquid, provide whichever is higher:
　　　　　　Highest daily max. temperature over previous 3 yrs.
　　Or　　　Process temperature

☐ c. Other

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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, enclosure, including dimensions, drawing reference, etc.)*
Describe the anticipated effect of the passive mitigation. *(i.e. limits the vaporization or release rate)*
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 Class   *(default = F, unless local data show a higher min. at all times during previous 3 yrs.)*
Wind Speed   *(default = 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)   ☐ Does the model appropriately account for gas density?

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Potential Off-site Consequence Impact

Quantity Released (lbs.)	Release Rate
Duration of the released	Distance to endpoint (miles)
Residential Population Affected	Data Source Used to Estimate *(i.e. 2010 Census)*

Public Receptors Affected *(include all schools, hospitals, correctional facilities, recreation areas, commercial, office, or industrial areas, etc.)*

Name	Address	Estimated Occupancy	Emergency Contact

Environmental Receptors Affected *(List all National/State Parks, Forests, or Monuments; Officially Designated Wildlife Sanctuaries/Preserves/Refuges; Federal Wilderness Areas, etc.)*

Data Source Used to Identify Environmental Receptors: *(i.e. USGS Maps)*

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.