

Results of Consequence Analysis

Chemical: Hydrogen sulfide

CAS #: 7783-06-4

Category: Toxic Gas

Scenario: Worst-case

Quantity Released: 201 pounds

Release Duration: 10 min

Release Rate: 20.1 pounds per min

Mitigation Measures: NONE

Topography: Urban surroundings (many obstacles in the immediate area)

Toxic Endpoint: 0.042 mg/L; basis: ERPG-2

Estimated Distance to Toxic Endpoint: 0.9 miles (1.4 kilometers)

-----Assumptions About This Scenario-----

Wind Speed: 1.5 meters/second (3.4 miles/hour)

Stability Class: F

Air Temperature: 77 degrees F (25 degrees C)

Case 1. RMP*COMP Results for No. 6 H2S Plant Maximum Capacity Worst-Case Release