

CONSULTING ENGINEERS  
& SCIENTISTS

*Air, Noise & Risk Services*

# EMERGENCY RESPONSE & INCIDENT COMMAND



Any release of hydrogen sulphide ( $H_2S$ ) to the atmosphere is an emergency. Operators that take advantage of RWDI AIR's Plume-RT system are able to utilize emergency resources efficiently and ensure safety of the employees, emergency responders and the surrounding community with high levels of confidence.

Plume-RT is a web-based system that provides air quality plume-path predictions for sour well releases and blowouts. When used as part of an Emergency Response Plan, Plume-RT's easy-to-use interface provides incident command teams with current and forecast PAZ displays and real-time, on-demand advanced visual warnings to assist with emergency response. When integrated with air quality monitors, the Plume-RT system provides an operator with the most advanced air quality management system available and the necessary tools to deal with the full extent of an accidental release event.

Plume-RT uses local meteorology, site-specific weather forecasts, user specified ignition times, and predefined release scenarios to provide air quality predictions every 15 minutes. It can be configured to model unignited and ignited well releases and user specified release scenarios.

For more information about Plume-RT, visit:  
[www.plume-rt.com](http://www.plume-rt.com)



## OUR Plume-RT SERVICES

### Emergency Response Planning

- Plume Predictions for Sour Gas Well Blowouts ( $H_2S$ ,  $SO_2$ )
- Enables Incident Command to Respond to Unplanned Release Events
- On-demand Scenario Modelling
- On-site and Forecast Meteorology
- Planning Exercises
- Direct Air Quality Monitors

### Airshed Management

- Cumulative Effects Management
- Odour Tracking & Management

### Gas Plant Emission Management

- Stack Top Temperature Reduction
- Continuous Modelling
- Evaluate Plant Upsets

### Flare Management

- Cost Savings
- Fuel Gas/Propane Savings
- Better Flare Window Predictions
- Accommodates Actual Conditions During Testing



## PROVEN TRACK RECORD

Since 2003, Industry has used Plume-RT for managing air quality on hundreds of projects ranging from well blowouts, pipeline blow down events, sour gas flaring and emissions from large facilities.

## Other services from RWDI AIR

- Environmental Impact Assessments
- Regional Atmospheric Modelling
- Meteorology
- Ambient Monitoring
- Environmental Policy
- Odour Assessments
- Ventilation and Control Systems
- Stack Testing
- Occupational Hygiene
- Real-Time Modelling

## Plume-RT ADVANTAGES

- Provides automatic plume predictions ( $H_2S$ ,  $SO_2$ ) for multiple release rates, weather conditions and ignition times.
- Displays plume predictions layered with ERCB Directive 71 Planning Zones.
- Modelling results are available every 15 minutes and can be forecast up to 48-hours.
- Supports on-demand customizable scenario modelling.
- Uses regulatory approved CALMET/CALPUFF, SLAB dispersion models.
- Provides modelling results quickly and remotely to assist emergency responders.
- Provides site-specific weather forecasts.
- Integrated communications with numerous air quality monitoring companies.
- Can be used to direct mobile air quality monitoring equipment.
- Can be used as a simulator to test Emergency Response Plans (Table Top Exercises)

For information on the full breadth of Air, Noise & Risk Services available from RWDI AIR, contact us!



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