

CONSULTING ENGINEERS
& SCIENTISTS

Air, Noise & Risk Services



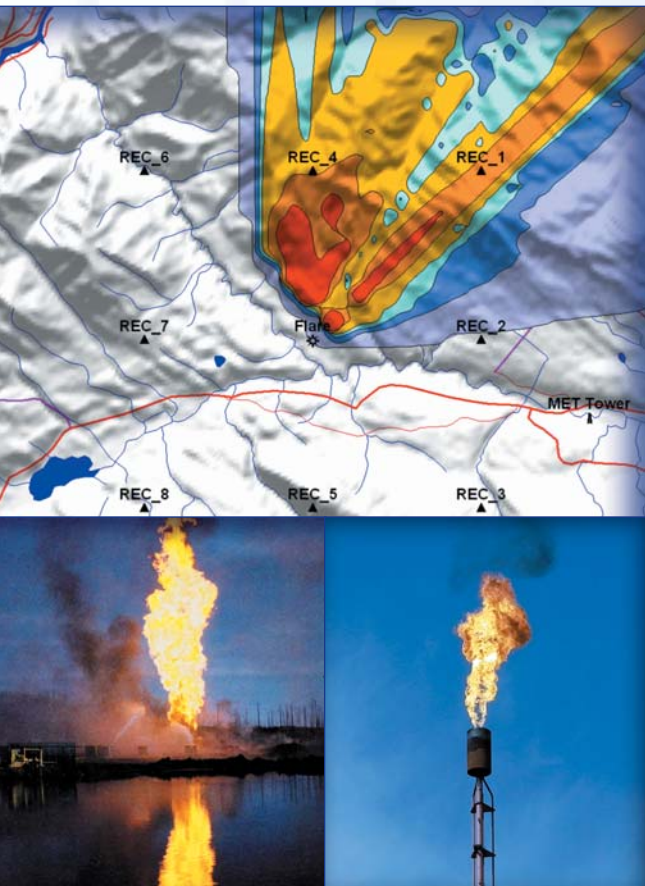
Plume Real-Time System (**Plume-RT**) is an on-line user interface developed by RWDI AIR Inc. that uses accepted regulatory dispersion models to predict current and future Sulphur Dioxide (SO₂) concentrations associated with sour gas release events. **Plume-RT** uses current meteorological conditions and regional weather forecasts to predict ground-level SO₂ concentrations for the current hour and provides 24-hour forecasts over the modelling domain.

By using local meteorology, **Plume-RT** provides a realistic representation of the magnitude and extent of ground-level SO₂ touchdowns, which vary in space and time, and are not persistent. These predictions aid decision-makers, field operators, and regulators with the management and mitigation of risks associated with planned and accidental release events at well sites, gas plants and air sheds.

Chemical releases may occur due to well test flaring, incineration activities, drilling, servicing, completion operations and workovers. Integration with a continuous emission management system enables **Plume-RT** to be utilized in a permanent facility for stack top temperature reduction applications to ensure that ambient air quality objectives are met.

The **Plume-RT** solution provides the Oil & Gas Industry with the most advanced air quality management tool available. **Plume-RT** is a full life-cycle tool that can be used from drilling to abandonment to assist with air quality issues resulting from ignited sour gas.

For more information about **Plume-RT**, visit:
www.plume-rt.com



OUR PLUME-RT SERVICES

Emergency Response Planning

- Plume Tracking for Ignited Well Blowouts
- Addresses SO₂ Hazard Extents for Incident Management
- Planning Exercises
- Direct Mobile SO₂ Monitors

Gas Plant Emission Management

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

Airshed Management

- Cumulative Effects Management
- Odour Tracking and Management

Flare Management

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



PROVEN TRACK RECORD

Industry Acceptance

Regulatory Acceptance (on a case-by-case basis)

- BC Ministry of Environment (MOE)
- BC Oil and Gas Commission (OGC)
- Alberta Energy and Utilities Board (EUB)

Other services from RWDI AIR

- Stack Testing
- Regulatory Permitting and Emission Inventories
- Environmental Impact Assessments
- Emergency Response Planning
- Regional Atmospheric Modelling
- Meteorology
- Ambient Monitoring
- Environmental Policy
- Odour Assessments
- Ventilation and Control Systems
- Laboratory Services

PLUME-RT ADVANTAGES

- Uses approved CALMET/CALPUFF air dispersion models.
- Realistic representation of the severity, concentration and extent of the plume.
- Web-enabled interface to display reports and animations for all interested stakeholders.
- Results are available hourly and can be forecasted up to 48-hours.
- Aids in demonstrating compliance with ambient air quality objectives.
- SQL-compliant database for customized reporting and data access; data auditing; and forensic analysis of modelling results.
- Assists decision-makers during issuance of air quality advisories.
- Access to regional weather forecast information.
- Integrated communications with meteorological provider for current on-site meteorological data.

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



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RWDI Group of Companies