Our products are designed as effective, stand-alone solutions, yet flexible enough for customization to address an organization's specific set of considerations.

ADVANCED BACK CALCULATION™ (ABC) ADD-ON

Advanced Back Calculation™ (ABC) improves the overall accuracy of critical decision making information by validating and documenting plume movement and subsequently providing a defendable event picture based on real-time data that is useful both during the event and in post-event analysis.

Release Rate Calculations: SAFER's patented Advanced Back Calculation™ (ABC) application was developed to offer the most sophisticated solution available for release rate estimation from plume modeling to plume measurement.

Improve Accuracy: ABC provides for the most accurate event modeling possible by using real-time field measurements from live weather and gas detection systems.

Post Event Analysis: Real-time and archived field measurements provide a detailed post-event analysis that allows for the evaluation and understanding of the implications of a chemical release and serves to support continuous improvement of emergency response strategies.
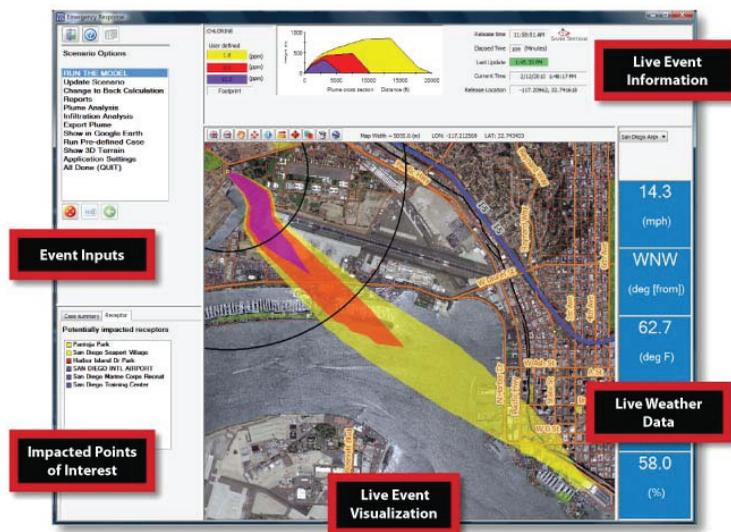
Legal Defense: ABC gives realistic perspective on the extent of likely claims related to the results of a chemical release.

SOURCE AREA LOCATOR™ (SAL) ADD-ON
INCLUDED IN ABC™ ADD-ON

Source Area Locator™ pinpoints the source of a chemical release using meteorological data and two or more concentration measurements from the chemical released. The program uses weather history to create upwind trajectories from each measurement point. The convergence of the trajectories represents the area that is most likely the source of emission.

• Quickly focus resources on fugitive emission source identification
• Establish who is (and who is not) the source, saving time and money and protecting your brand
• Identify ongoing sources of emissions (sewers, open vents, leaking valve packing)
• Focus mitigation actions
• Demonstrate capability and due diligence to the community.

ABC™ ADD-ON MODELS ANY SENSOR SPECIFIC CHEMICALS

A full suite of release source and dispersion models, SAFER Plume Response™ allows you to accurately predict the impacts of release of over 750 different chemical compounds and determine the proper shelter in place or evacuation response.

Scenario Management: Plume Response™ allows users to develop and save scenarios to assist with emergency response training, increasing employee awareness, safety demonstrations, and post-event analysis.
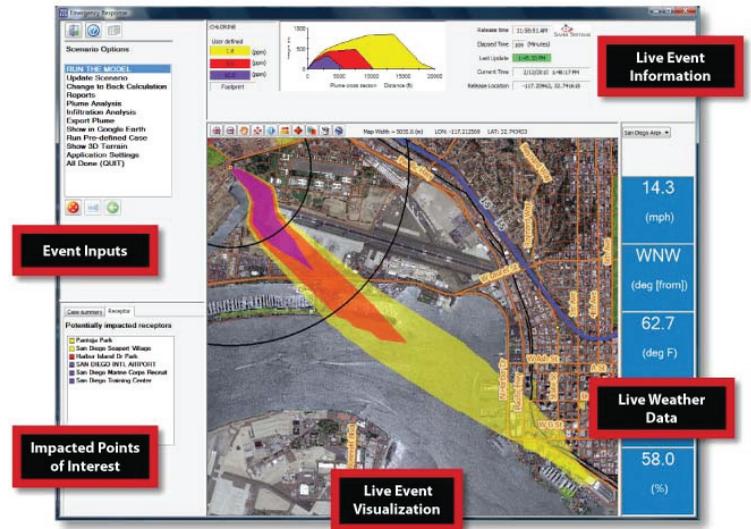
Wide array of models: Plume Response™ includes an array of standard models covering fire and explosion, multi-component evaporation, building infiltration and exfiltration, tank and pipe, dispersion, complex terrain, and particulate and specialized chemicals like HF and TiCl4. These models have been developed with the help of more than 30 years of experience solving fixed facility loss of containment events.

Post Event Analysis: Plume Response™ is highly useful in post-event analysis to evaluate and understand the implications of a chemical release and supporting continuous improvement of emergency response strategies.

Legal Defense: Plume Response™ gives realistic perspective on the extent of likely claims related to the results of a chemical release.

Respond Effectively: Plume Response™ provides information necessary to accurately place monitors while responding to a chemical release emergency.

PLUME RESPONSE™ ADD-ON

PLUME RESPONSE™ ADD-ON MODELS MORE THAN 750 CHEMICALS

COMBUSTION ANALYSIS MODEL™ (CAM) ADD-ON

COMBUSTION ANALYSIS MODEL™ (CAM) ADD-ON

An analysis and decision support tool for preparation, response and assessment of health, safety and environmental impacts of industrial and transportation-related chemical fires. Chemical fires - and the toxic smoke that accompanies them - create an assortment of dangerous situations, as well as significant post-event consequences. Therefore, as important as it is to assess and handle the current danger, it is just as crucial to have a complete picture of the potential impact of the hazards associated with such events. That way, the proper analysis and decision-making can take place, possibly saving lives in the process.

Respond Effectively: CAM makes critical decision-making information available to incident commanders, responders, EOC personnel and others by analyzing any chemical fire including a Tank Top fire, Pool fire, Stack or Jet fire, and Post-Dispersion fire. it allows for the seamless transition from analyzing a toxic dispersion to the products of combustion, including delayed ignition of a toxic release and determining the duration of the event.

React in Real-Time: CAM allows for the determination of the downwind dispersion of combustion products, airborne particulate, unburned hazardous materials and soot deposition and provides the information necessary to accurately place monitors for gathering samples.

Post Event Analysis: CAM is highly useful in post-event analysis to evaluate and understand the implications of burnt hazard materials, the by products from the fire leading to better data about health and environmental impact.

Legal Defense: CAM improves and simplifies ability to gain realistic perspective on extent of likely claims related to vehicle clean-up, school and playground decontaminations, structural cleaning, etc.