



RITE Model



Predicting effects of topography, chemical density, and windfields on the air-dispersion of chemical releases presents a challenge to planners and emergency responders. To meet this challenge, BHE Environmental Inc. joined forces with the software development company SESSCO, to develop a 3-dimensional air modeling software that simulates potential chemical releases. This software package is called the Release Integrating Terrain Effects (RITE) Model.

The RITE Model incorporates real time meteorological data from weather stations with the following:

- + Geographic Information System (GIS) data
- + USGS topography maps
- + Emergency response information from the National Safety Council's CAMEO
- + Release rate and statistical data from the ALOHA model's user interface
- + MINERVE Windfield Modeling
- + Trames Dispersion Modeling

The RITE system's capabilities provide advanced and accurate 3-dimensional modeling of air- dispersed chemical releases critical for protection of public safety and compliance with increasingly stringent air regulations.

DEFINING ENVIRONMENTAL SOLUTIONS