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A Veteran-Owned Company Serving the National Interest

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Information Paper – Atmospheric Modeling & Simulation at Sage Management

Purpose: The purpose of this Information Paper is to describe Sage Management's background in providing Atmospheric Modeling & Simulation (M&S) solutions.

The Challenge: The ability to accurately predict, model and display the transport of particulate in the atmosphere as a result of a release from various sources ranging from coal fired power plants to high energy/nuclear types of events.

Introduction: Sage Management has extensive experience in providing M&S support for mission critical organizations. Key features of Sage:

1. Veteran-owned Small Business
2. Inc. 500 Company headquartered in Columbia, MD with locations in Virginia, New Jersey and Arizona
3. Focus Areas
 - a. Full Lifecycle Program Management
 - b. Professional Engineering Support Services (Software & System)
 - c. Modeling & Simulation
 - d. GIS Consulting
 - e. Intelligence Analysis

Experience: The M&S staff has over 25 years of experience in developing atmospheric transport models for use by power plant operators, emergency response teams and war fighters. These models can interface with various weather prediction models for urban and non-urban modeling of radiological effects, liquid evaporation, chemical reactions, buoyancy and dense gas effects. Sage professionals have the know-how and ability to get the job done. Mission first!

1. SCIPUFF original developer
2. Multi-Phase Flow transport
3. Weather Model integration
4. Sensor Placement Analysis
5. Internal Building models-UDM-BIM/COMIS
6. Joint Effects Model (JEM) interface
7. Atmospheric Chemistry
8. Deposition and Rainout

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