

SIN 899

ADORA is the premier Environmental and Safety Offsite Consequence Analysis tool available for use by organizations in environmental impact assessments for intentional or accidental discharge of hazardous chemicals that react with air, moisture or each other.

We recently released version 2.1. ADORA that models:

- **OBOD** (Open Burn and Open Detonation) of munitions and waste.
- **Spills** of chemicals that react with moisture (e.g., halogenated compounds and silanes).
- **Fire and Explosion** of chemical mixtures in accidents involving chemical warehouses, tank farms, and rail cars.
- **Nuclear, Biological and Chemical (NBC)** releases.

With its 2100+ chemical database (including chemical and biological agents), ADORA version 2.1

- has been validated against available test data
- is listed by the EPA
- has been used:
 - ❖ in the preparation of Resource Conservation and Recovery Act Part B, Subpart X site permit applications
 - ❖ in the preparation of Risk Management Plans for compliance with 1990 Clean Air Act Amendment, Title III, Section 112(R) and for Process Safety Management
 - ❖ in the assessment of fire and explosion hazards in industry
- was selected for use in Toxic Release Inventory reporting at 13 ammunition depots of the United States Army
- is a standard emission and air dispersion model for the AFRL/MNMI Environmental Team at Eglin Air Force Base (for which it was originally developed).

Contract Information

Schedule Title: Environmental Services
Industrial Group: B
Industrial Class: 899-4 and 899-5
Contract Number: GS-10F-0079M
Contract period: Dec. 2001 to Dec. 2006
Business Size: S/B
CAGE Code: OHVU4
DUNS Number: 617-362-579

Contractor: BlazeTech Corp.
24 Thorndike Street
Cambridge, MA 02141

Contract Administrator: Dr. Venkat Devarakonda
venkat@blazetech.com

Customer Information

Description of Special Item Number: SIN 899-5,
Hazardous Materials Management Software

On-Line Access: www.blazetech.com
Order Limitations: Minimum \$2,500;
Maximum \$5 million
Time of Delivery: Specified on Task Orders
Ordering Address: BlazeTech Corp.
24 Thorndike Street
Att: Dr. N. Albert Moussa
Cambridge, MA 02141
Phone: 617-661-0700
Fax: 617-661-0700
E-mail: amoussa@blazetech.com

Other BlazeTech Products & Services

Software Products:

- **BlazeTank:** Deflagration of flammable chemicals in closed and vented tanks
- **PoolFire:** release, ignition, toxic and radiation hazard from pool fires
- **BLEVE:** tank failure, venting rate and blast strength due to Boiling Liquid Expanding Vapor Explosion
- **Other fires and explosions:** toxic and radiation hazard due to jet fire, flash fire, vapor cloud explosion and vapor blow down
- **Reaction kinetics:** specialized detailed and global kinetics models and databases for reactive materials, inter halogens, chemical and biological agents
- **PC CHRIS:** Hazardous chemical data manual

Services: We provide technical assistance in

- Safety assessments
- Hazard and risk analysis
- Regulatory compliance
- Environmental impact assessment
- litigation

We also provide consulting services that use the above mentioned software products, tailor them for particular clients, or develop similar software.

Pricing

Detailed pricelists for industry and government are available on our website at www.blazetech.com

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About BlazeTech Corp.

Founded in 1987, BlazeTech Corp. is an engineering consulting firm based in Cambridge, MA. We provide consulting services and software development in fire and explosion, safety and environment. We offer engineering analysis, modeling, test design and specialized databases in fire, explosion, aerosol processes, reactive materials and toxic material dispersion and mitigation. We develop niche engineering software and advanced technologies in a timely and cost-effective manner. Our services include specialized R&D, modeling and simulation and accident investigations.

ADORA encapsulates over 30 years of specialized expertise gained through academic research and numerous successful government and commercial projects.

Key Personnel:

- **Dr. N. Albert Moussa**, ME, Technical Director. Previously, he was a senior consultant at Arthur D. Little, Inc., for ten years, and a research associate at MIT for two years. He is a registered professional engineer in Massachusetts. He is listed in American Men of Science and in Who's in the East. He served as the chairman of ASME FACT SubCommittee on Combustion Systems and on the ASTM E5 Committee. He is a honorary member of Phi Beta Kappa, Tau Beta Pi and Phi Eta Sigma, and of ASME, AIAA, and Combustion Inst. He has published extensively including a book.
- **Dr. Venkat Devarakonda**, CME, Senior Engineer. His areas of specialization include reactive dispersion, unit operations, reactor design, thermodynamics and aerosol science. He worked extensively on modeling, design, testing and data analysis. He is a member of AAAR and ASME. He has over 25 publications.
- **Dr. Erik Andrews**, ME, Senior Engineer. His areas of interest include mechanical behavior of materials, wave propagation in solids, dynamic deformation of structures and fracture mechanics. He is a member of ASME and SEM.

They will be assisted by support staff and consultants.

24 Thorndike Street, Cambridge, MA 02141
BlazeTech

BlazeTech Corp.

Assistance in Environmental Assessments, Test Design, Data Analysis and Engineering Model Development

in the areas of

Environmental Safety & Hazardous Materials Management

through

General Services Administration
Management Services Center
Contract No. GS-10F-0079M



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