

## **ROBERT T. FORD**

*President of Safety Management Services, Inc./ Mechanical Engineer*

### **AREAS OF SPECIALIZATION**

- σ General Explosives Process Design
- σ Hazards Analysis and Risk Assessment of Energetic Material/ Chemical Processing
- σ Management of Safety Programs for Energetic Material and Large Rocket Motor Processing
- σ Process Design and Safety Support for Demilitarization of Explosive Ordnance
- σ Safety Support and Technology Design for Environmental Remediation of Explosives Contaminated Sites
- σ Process Design and Technical Safety Support for Propellant Manufacturing (Slurry, Single Base, Double Base) Processes
- σ Process Design and Technical Safety Support for Large/Small Solid Rocket Motor Manufacturing, Handling, and Testing
- σ OSHA, EPA, DoD Regulatory Compliance
- σ Training of Personnel in Energetic Material Processing

### **EDUCATION**

B. S., Mechanical Engineering, University of Utah, 1983

Mr. Ford is the President of Safety Management Services, Inc. He has 20 plus years of experience in the practical application of technical safety disciplines in combination with explosives processing experience. His experience spans a variety of industries such as explosives/propellant manufacturing, processing and demilitarization, rocket motor manufacturing, handling, testing, and demilitarization, chemical processing and environmental remediation.

### **DIRECTLY RELATED EXPERIENCE**

- Assisted in the design and construction of various propellant and explosives processes including an automated slurry propellant manufacturing process to support large rocket motor manufacturing, explosive device manufacturing (e.g. squibs, detonators, boosters, inflators, etc.) processes, demilitarization processes, rocket motor manufacturing, handling, and testing processes, and environmental remediation processes.
- Development and implementation of OSHA and EPA regulatory compliance programs for major corporations in the propellants, explosives, and pyrotechnics (PEP), air bag, chemical, and petroleum industries.
- Performing system safety and hazards analysis for:
  - Explosives and pyrotechnics manufacturing and transportation.
  - Automobile air bag gas generant manufacturing, component assembly, transportation and testing.
  - Ammunition manufacturing.
  - Demilitarization of rocket motors and conventional munitions.
  - Environmental restoration of sites contaminated with energetic materials.
- Development of mechanical integrity programs for critical processes and equipment. These programs have been accepted at the plant and corporate levels of our clients.
- Conducting energetic material characterization testing and customized testing. The test results are analyzed and compared to “in-process” energies to determine the potential level of risk.
- Assisting corporations and local municipalities in the application of civilian and military regulations pertaining to facility siting. Facility design, barricades, venting, personnel exposure, and other issues are typically addressed as part of these projects.
- Training of corporate and plant personnel on various risk management and regulation topics. We also provide, on a frequent basis, training for technical professional organizations.

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### **EMPLOYMENT HISTORY**

- ▲ Safety Management Services, Inc., West Jordan, UT, 1998-Present, President, Mechanical Engineer
- ▲ Alliant Techsystems Inc./ Global Environmental Solutions, Magna, UT 1995-1998, Director of Safety Management Services Division.
- ▲ Hercules Inc. / Global Environmental Solutions, Magna, UT 1992-1995, Director of Safety Management Services Division.
- ▲ Hercules Inc., Magna, UT 1983-1992, Lead Hazards Analyst and Program Manager.