

ANALYTICAL CAPABILITIES AND FUNCTIONALITIES

SYSTEM ARCHITECTURE

Example analytical capabilities and functionalities of SafeMark include:

OPERATIONAL AWARENESS

- Real-time awareness of reported operational events
- User-defined "Look-back" capability---Facility and/or organization specific operating experience historical perspectives
- Capability to isolate and analyze significant events including fatalities and operational emergencies
- Analytical capability to focus on and analyze operational events per specific organizational elements, contractors, or facilities

OPERATING EXPERIENCE ANALYSIS AND DIAGNOSTIC

- Real-time and user-specified time-frame overview of corporate operating experience
- Dynamically generated Top-Ten view of operating experience per specific organizational element, contractors, and subcontractors
- Dynamically generated "At-a-Glance" view of critical operating experience indicators including causal factors and trends
- Dynamic analytical capability to analyze corporate operational experiences across diverse attributes
- Ability to perform integrated analyses---highlights common "DNA" among diverse non-identical data sources

- Developed for use with Microsoft's IIS Technology. (Internet Information Services)
- 100% Client browser based application, no client side software required except for a Macromedia Flash 8.0 and JavaScript enabled web browser.
- NET based synchronization of multiple, diverse and non-identical data sources.
- Vector based graphing using the latest in Flash technology provides a much more visual approach to viewing and interpreting large volumes of data.



CONTACT INFORMATION



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SAFE MARK

Enhanced Data Mining and Analysis Tool

OVERVIEW

SAFE MARK

SafeMark is a Web-based Graphically-Driven Data Mining and Analysis Tool designed to:

- Provide user-friendly and ready access to diverse and dispersed data sources
- Enhance management and staff awareness of operational safety issues
- Strengthen identification of generic, site-specific, and institutional safety issues
- Provide a structured approach to analysis and communication of data
- Maintain integrity and transparency of corporate data

The ultimate design goal of the product is to facilitate more timely analysis of available data and operational events so that potential safety vulnerabilities can be identified, analyzed, and addressed on a timelier basis.

CORPORATE APPLICATIONS

The corporate benefit of SafeMark is that it serves as an effective mechanism to access, analyze, and leverage wealth of operational safety information contained in various databases. Key tangible corporate benefits derived from SafeMark include:

- Increase senior management operational awareness of safety issues -- SafeMark provides real-time awareness as well as historical perspectives on operational safety events reported by various organizational entities, operational units, and facilities
- Enhance technical understanding of operational events -- SafeMark allows dynamic analysis and diagnostics of critical event characteristics to focus attention on pursuing “Causes” rather than chasing “Symptoms”



- Strengthen the indigenous analytical capabilities of the organization -- SafeMark is a user-friendly and graphically-driven system utilizing a structured and systematic diagnostics approach to analyze large and multi-variable sets of reported operational safety data from diverse operations and facilities, including nuclear, radiological, chemical, industrial, construction, laboratory settings, research and development, waste management, deactivation and decommissioning, and environmental cleanup and restorations.

