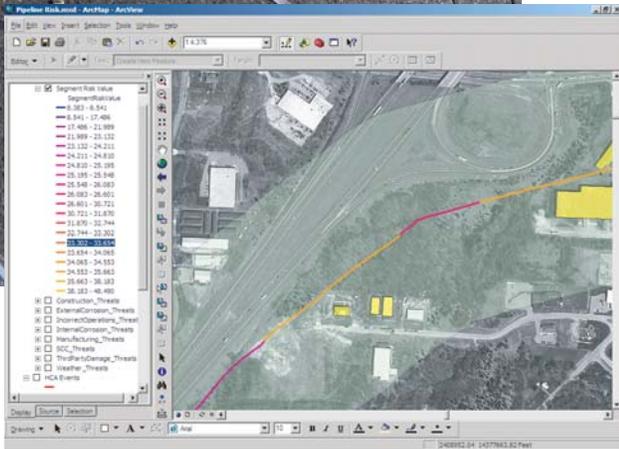




# Integrity Management Tools: RiskCalculator™



## THE NEED

To ensure the safe, reliable, and environmentally sound operation of their facilities, operators must continuously evaluate the conditions of their pipeline, identify threats to system integrity, and take effective action to mitigate risk. The key to a successful integrity management program is developing a proactive approach to risk evaluation and mitigation, based on accurate and current information. Often this information resides in multiple organizational systems and data formats, gathered and maintained by multiple groups, making data analysis and results review difficult at best. If information on threats is inconsistent or poorly tracked, an organization can misapply its resources, fall short of compliance, and risk liability. To develop the correct mitigation approach, operators need a means to collect and house current data on their pipeline, to assess potential threats with accuracy, and to model their potential impact.

## THE SOLUTION

RiskCalculator™ is a modular software tool that enables operators to evaluate the condition of their pipeline, input data regarding threat categories, and identify segments of the pipeline at risk from those threats. Based on ASME B31.8S specifications for characterizing threats and W. Kent Muhlbauer's risk assessment methodology for analyzing pipeline risks, the application calculates a relative risk ranking for each pipe segment, quantitatively weighing major threats and consequences based upon user-defined or predefined threat categories. The results can be reviewed in printable reports or exported for visualization in other tools such as GIS software.

## THE BENEFITS

- Centralized access to current data on pipeline conditions
- Improved efficiency in assessing system threats
- Proactive mitigation of risks to system integrity
- Efficient allocation of resources
- Informed decision making and effective action
- Low implementation costs
- Short learning curve for quick user ramp-up



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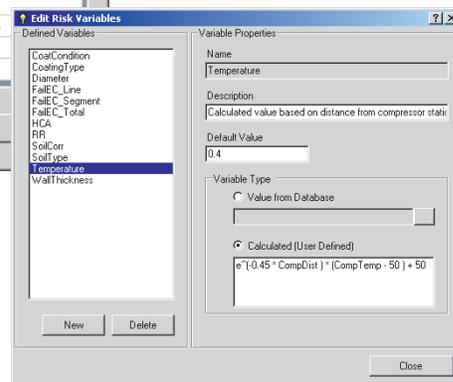
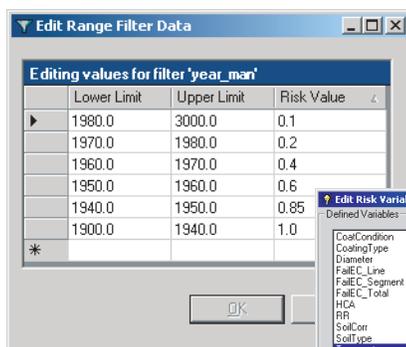
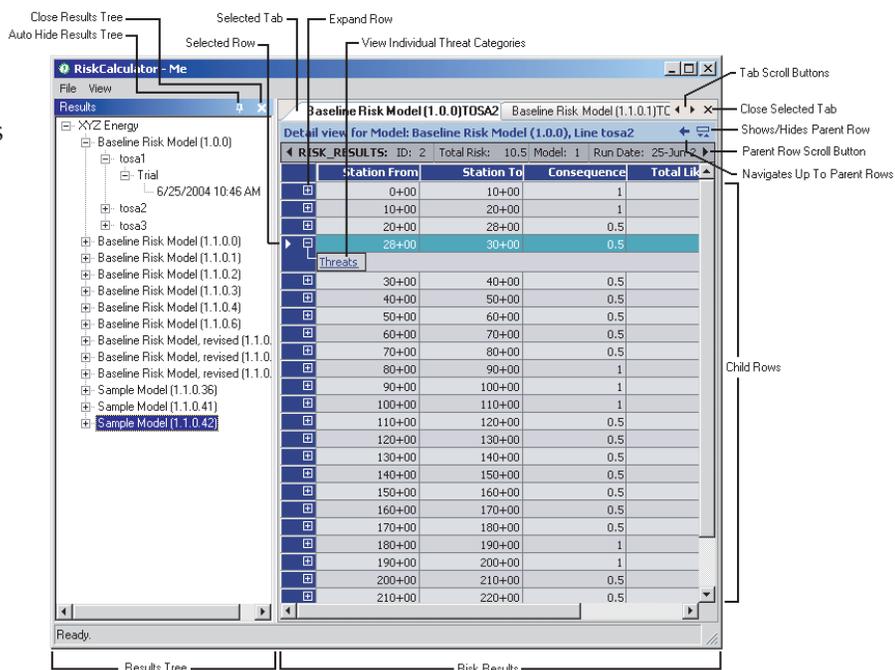
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# Integrity Management Tools: RiskCalculator™

## The FEATURES

- ▶ **Specifications.** .NET application designed to support integrity management data stores including Oracle (8.1, 9i, 10g), SQL Server (2000, 2005)
- ▶ **Design.** Process design based on DOT defined and sanctioned standards and practices
- ▶ **Flexibility.** Predefined or user customizable risk model with unique system variables. Extracts pipeline systems attributes from a variety of data models, including PODS and APDM
- ▶ **Permissions.** User permission settings for administrator control of tool configuration
- ▶ **Graphical Interface.** On-screen interface for review and comparison of results
- ▶ **Exportable Results.** Visualization and analysis can be performed in external tools, such as GIS, spreadsheets, etc.



For more information on RiskCalculator™, contact:

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