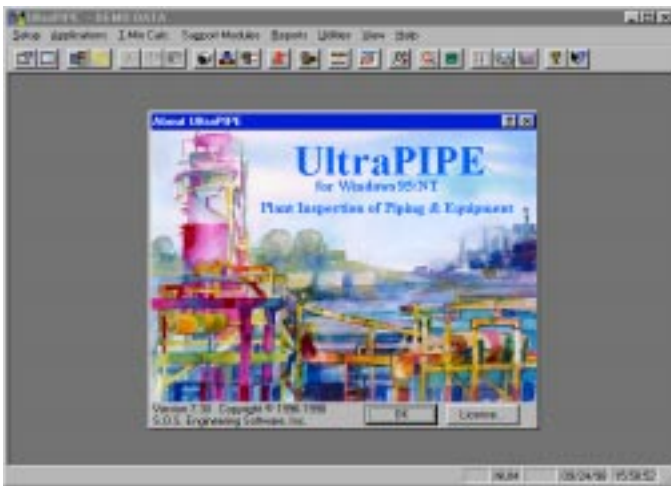


UltraPIPE

Plant Inspection of Piping and Equipment

UltraPIPE is a comprehensive and dynamic Inspection Data Management System used to input, store, analyze and document inspection data; all in a state of the art 32 bit interface designed for Windows™ 95/98/NT.

Hundreds of users, including dozens of inspection testing companies, are proof that **UltraPIPE** is the world's leading inspection program. The many inspection testing companies provide a broad source of implementation services, independent of software conflict of interests.



UltraPIPE includes new modules and improvements to existing Application, T-Min, Support and Reporting modules:

Applications

- Corrosion Monitoring
- Insp. Activity Schedules
- Insp. Activity Reports
- PVCalc Vessel Re-rating
- Valve Inspection/Testing
- Localized Corrosion on Piping (ASME B31G)

Support

- Data Transfer
- Eq/Circ ID Drawings
- Inspection Personnel

T-Min

- ANSI B31 Piping
- ASME S8/1 Vessels
- API 653 Tanks
- ASME S1 Boilers

Reporting

- Fixed Format
- Color Graphic
- Ad-Hoc

Each module can be selected to create a semi-custom inspection program. Additional modules can be added any time. Read on to learn how **UltraPIPE** will help you turn inspection data into regulation compliant information.

UltraPIPE's Corrosion Monitoring Application is designed to analyze wall thinning due to erosion-corrosion for fixed equipment (piping, vessels, tanks, boilers, etc.). This module helps maintain the mechanical integrity of corrosion prone equipment by recommending prioritized inspections while reducing unjustified work. Using engineering and Thickness Measurement Location (TML) data, the Corrosion Monitoring Module will calculate:

- Corrosion Rates using Long, Short and Best Fit
- Predicted Retirement Date
- Recommended Inspection Due Date

Calculations are made for each TML, as well as statistically for the equipment or circuit (called the Eq/Circ ID) and the Group Name (when Multiple Eq/Circ IDs are electronically linked; such as the tube, shell and bundle of a heat exchanger or the process and injection sections of a pipeline).



When **T-Min Calculators** are used, Retirement Thickness (T-Min) and Maximum Allowable Operating Pressure (MAOP) are also calculated for each TML.

The Corrosion Monitoring module is also designed to take advantage of **RBI (Risk Base Inspection)** categorization.



UltraPIPE's Corrosion Monitoring Data Transfer support module allows you to electronically communicate with a wide variety of portable ultrasonic data loggers, including the **DMS A-Scan Thickness Gauge's** data recorder. The direct interface also allows downloading from other Krautkramer data logging instruments.



UltraPIPE's Many Additional Features combine to make a true Inspection Data Management System:

- **Inspection Activity Schedules and Reports** allows any type of inspection (i.e. Visual, Mag, LP, and any other activities) to be scheduled and documented using a simple memo, MS Office™ Products or any other file type; even a video wave file. Each Inspection Activity Report can be linked to unlimited numbers of recommendations and repairs, all with comprehensive tracking.
- **PVCalc** is designed from the ground up to re-rate in-service pressure vessels and heat exchangers to the ASME and TEMA codes of the year built, back to 1943. A separate brochure is available for **PVCalc**.
- **Localized Corrosion on Piping** evaluates deteriorated piping using ASME B31.G.
- **The Eq/Circ ID Equipment Drawings** module can be used to link inspection drawings to the UltraPIPE database, with a dynamic update of all markers (IE: TMLs) on a drawing using AutoCAD or MicroStation. Any other CAD or Viewer program can also be used.
- **The Valve Inspection/Testing** module is for all critical plant valves, with an emphasis on Safety

Relief Valves. Engineering information, schedules for field and/or bench tests, valve associations and comprehensive tests results can be stored for each valve. The event of warehousing a valve after a successful bench test for future installation is handling the scheduling logic.



- **Inspection Personnel** module stores detailed inspector information, certifications and authorizations. Warnings display when an unqualified inspector is used for a job.
- **Fixed Format Text Reports** are standard with every database module and meet the day-to-day reporting requirements of the inspection groups. Almost 70 reports print analytical results, schedules, etc. and export to Crystal (built-in) or MS Word.
- **Color Graphic Reports** print line and bar graphs of Corrosion Monitoring data.
- **Ad-Hoc Reports** allows a user to design and save custom reports for report requirements not satisfied by a Fixed Format Text Report.

UltraPIPE will continue to grow and build on the current use of Risk Basked Inspection rankings with a built-in RBI calculator and/or an interface to an RBI program.

For up-to-date information, request the UltraPIPE information diskette, the full functioning demonstration program or explore the web site at <http://www.ultrapipe.com>.

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