INTEGRITY MANAGEMENT FOR ABOVE-GROUND STORAGE TANKS

Tanks – It’s Complicated

With hundreds of above ground storage tanks in your company’s asset portfolio, each with a different design, age and product containment, managing the integrity of these tanks can be a daunting task – certainly not something that should be managed in a spreadsheet – or worse on paper.

Just managing your inspection schedules and analyzing the results can be enough to keep you busy full time, not to mention all the other critical factors such as external corrosion, material stress levels, product chemical properties, external loadings from live loads and weather and natural forces, tank operating conditions, tank foundation, soil and settlement conditions, any tank deformities and mechanical properties of the construction material that you should carefully consider and weigh when determining which tanks deserve your team’s attention and when.

For over 15 years, American Innovations’ Risk Intelligence Platform (RIPL™) has been providing Integrity Managers a scalable and flexible solution that has been helping facility and pipeline Integrity Managers identify risk to their assets and allocate expenses in the most effective way possible – ensuring the longest possible life of your asset without excessive spend.

Standards Based

RIPL comes out of the box with reference models that are designed by experienced pipeline and facility engineers. The models are based on industry standards such as API 560 and API 650 and with RIPL’s flexible and powerful modelling feature, any reference model can be easily adjusted to meet your unique operating requirements and risk tolerance. RIPL also can play a critical role in your Risk Based Inspection protocols as called out in API 580.

RIPL Key Features

- RIPL’s flexible input model allows creation, mapping and importing of data from any data source such as spreadsheets, asset management systems, to NDT device outputs.
- Configurable evaluation engine allows integrity program managers to define objective, well-structured rules for the analysis.
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- Reporting and query capabilities help users build analysis reports for operations and maintenance managers to review. The risk model and/or new design and performance data can then be updated with annotations to improve the accuracy of the model.
- RIPL comes with a self-documenting risk model feature, input model report, as well as data audit reports that show the quality of data collected.
- Scenario capability allows an integrity engineer to copy input data sets, change the data within the copied data sets and then rerun the risk model against the changed data – without impacting the baseline data set and model results.
- Risk models have variable, consequence category and threat type weightings and other risk analysis factors specified by customers and consistent with their analysis goals and philosophy.
- Provides the ability to compare and rank components by risk score and drill down into the risk drivers for the ranked components.

About American Innovations. American Innovations (AI) protects people and the environment by helping customers safely and efficiently manage the world’s energy infrastructure. Our award-winning hardware, software, and services transform the way companies collect, analyze, and report compliance information. Used by virtually every oil and gas transmission pipeline company in North America, AI’s innovative, reliable products include: Bullhorn® Remote Monitoring, Bullhorn Asset Tracker (BAT™), MicroMax® Current Interrupters, Allegro Field Data PC™, Pipeline Compliance System (PCS™) software, and Risk Intelligence Platform (RIPL™) software. AI also provides a wealth of professional services including data migration, risk analysis, high consequence area (HCA) analysis, and regulatory compliance consulting. Visit www.aiworldwide.com.

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