PS Asset Integrity Manager® (PSAIM™)

#1 Corrosion Monitoring application for Oil, Gas and Petrochemical industries

PSAIM is an industry leading software for safety critical equipment, corrosion monitoring, fixed interval and risk based inspection planning and scheduling, and remaining life calculation. PSAIM incorporates recent advances in technology for optimizing inspection time and cost through real time analysis and bidirectional transfer of data with data loggers, spreadsheets, 2D & 3D Computer Aided Design (CAD) software, and ERP systems.

Asset integrity management is important to the operation of process facilities. PSAIM, combines risk based inspection with an inspection data management system, which is a very effective way to manage the inspection and reliability program of your process plant. This results in the reduction of risk from loss of containment and greater potential for profitability through increased asset availability. Implementing PSAIM creates a simpler and quicker inspection and condition monitoring method bringing immediate and invaluable benefits to your process plant and organization.

PSAIM is enhanced using Siemens product development methodology which includes secure design practices and quality assurance processes.

Our Expertise

PSAIM is the solution of choice to efficiently and effectively manage your critical equipment. Backed by over 30 years of technology expertise and Mechanical Integrity services, Siemens PSAIM is a differentiator over competition with:

- **Our legacy**, recognized as the leading solution provider for inspection data management, with more than 1000 users and 100 installations worldwide

- **Our people**, API and ASME industry contributing members and subject matter experts in mechanical integrity coupled with the product development and software delivery team, provide a software program incorporating industry standards and best practices along with value added services

- **Proven methodologies**, Siemens can help define your integrity management philosophies, IDMS process, Risk-Based Inspection (RBI) program and implement best practices within your organization

Process & Safety Consulting

"PSAIM is easy to maneuver and a good tool for managing our Mechanical Integrity program and inspection data"

- Reliability Engineer

"PSAIM is user friendly...believe we will be able to be more accurate with all data entered, reports available..."

"Good for trending data"

- Lead Inspector

www.usa.siemens.com/psaim

Our Value, Our Customer

- **PSAIM Cloud:** Enables customers to quickly scale usage across their enterprise and provide faster access to software enhancements. Cloud delivery may increase the return on investment for PSAIM and associated integrity management consulting services through productivity gains and optimized total cost of ownership.

- **Inspection Data & Mobility:** PSAIM provides a single repository of historical data and documentation for the life of the equipment in all the process plants across your enterprise, including UT/RT thickness measurements and results of all API inspections. By using the data logger and ERP systems interface module, data can be efficiently captured and transferred bi-directionally to PSAIM. This data can also be accessed in the plant using PSAIM installed on a surface pro tablet with an intrinsically safe case.

- **Remaining life prediction:** PSAIM provides visibility on past due inspections, equipment with high corrosion rates or short remaining life. The software also analyzes thickness data to predict corrosion rates, maximum allowable operating pressures, and remaining life. Inspections can be accordingly planned based on fixed intervals, equipment condition or risk.

Core Capabilities

- **PSAIM RBI Module** (Separate Fact Sheet available) in accordance with industry best practices and API Recommended Practice (RP) 580 RBI and API RP 581:2016 – RBI Technology.

- **Corrosion monitoring** stores equipment, component and condition monitoring location (CML) design information.

- **Inspection and testing scheduling** allow users to schedule inspection and testing activities for managing the integrity of fixed equipment.

- **Category-based inspection** for relief valves balances the frequency and acceptable risk depending on the testing and inspection results.

- **ERP connectivity (i.e. SAP, Maximo and other CMMS)** allow scheduled activities to be sent electronically, synchronizing equipment information between PSAIM and SAP or any ERP asset module.

- **Data loggers** directly interface to Krautkramer DMS Go/Go+, DMS 2, DMS as well as Olympus MG2-DL, 36DL, 37DL, 38DL

PLUS® compatible with English and Metric Unit of Measure (UOM).

- **AutoCAD or MicroStation Dynamic Drawings** link displays CML data with the current information from PSAIM.

- **Minimum Thickness (T-min) & Maximum Allowable Operating Pressure (MAOP) calculator:** T-min calculator calculates minimum allowable wall thickness for all pressure components and geometry types based on pressure. The MAOP calculations determine the pressure for a known thickness. All calculations are performed per applicable ASME, ANSI and API design codes.

- **Localized Corrosion on piping:** Determine the effects of localized corrosion on piping to facilitate cost effective repairs before potential problems occur. Uses ASME B31G logic to calculate MAOP.

- **ASME Flange Rating:** Calculates rating at design temperature per ASME B16.5. Also can be compared with the minimum calculated MAOP to determine the limiting pressure of the equipment.

- **Standard, Color Graphic, and MAOP Analysis Reporting** capability enable to generate inspection scheduling and planning activities for repair, re-rate or replace decision.

- **Flexible licensing models** tailored to your requirements including software updates, technical support, separately priced module, different user types, installation options, and license terms.

- **Data security & integrity** allows for the management of user permissions data and screen locks prevent multiple user edits to the same equipment information.

- **Electronic audit trail** enable users to audit changes that affect corrosion rates or inspection planning while tracking what, when and who made the change.

- **Thickness surveys** allow manual entry of thickness measurements or automatically transfer readings from various data loggers.

- **Intuitive navigation** from an equipment tree hierarchy making critical equipment information highly visible and just a click away.

- **Master list** is editable and enable users to filter and sort, copy, and move or delete one or more items in a single step.

- **Analytical settings** provide multiple ways for your plant to analyze data, all on one screen.