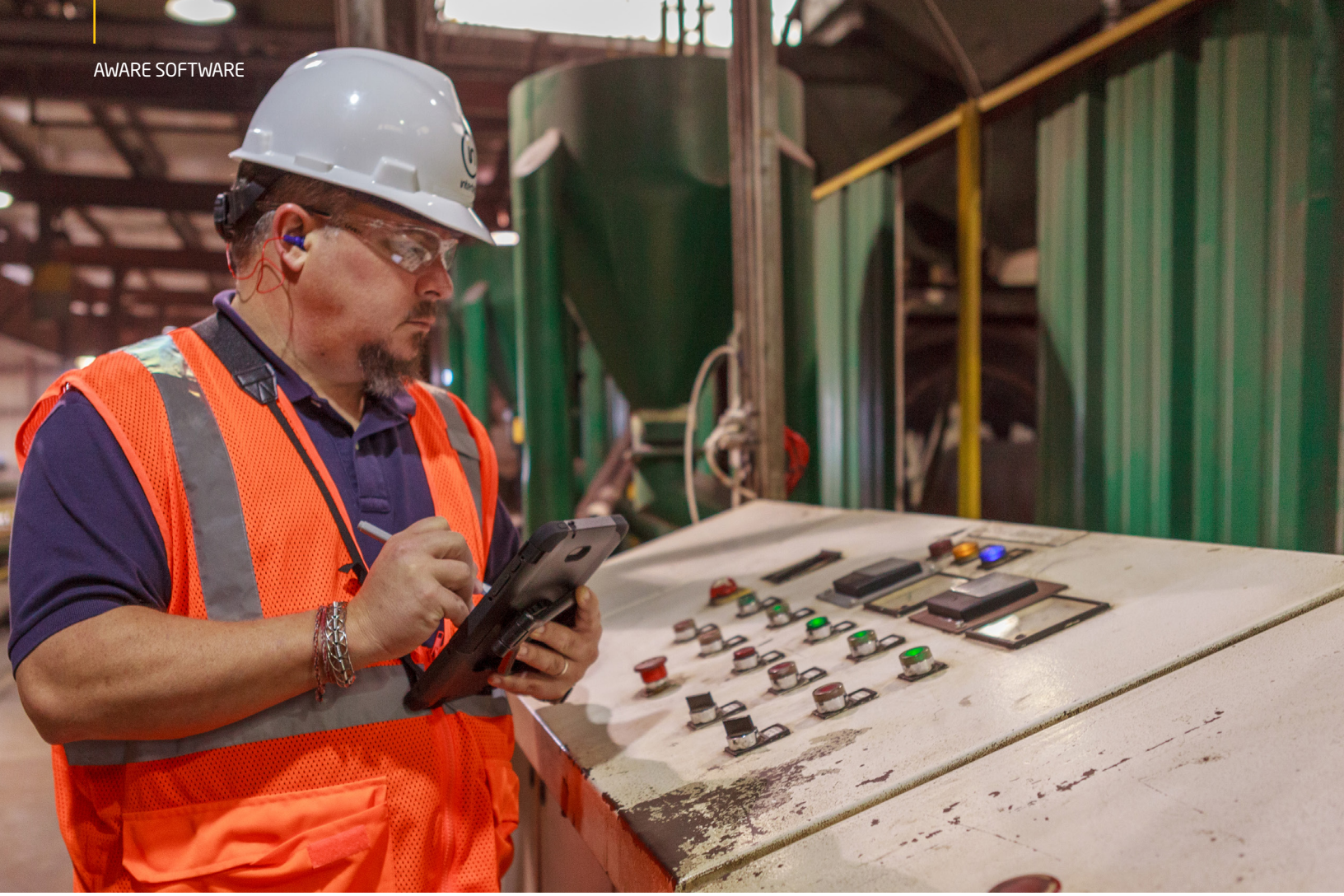
intertek
Total Quality. Assured.

ASSET INTEGRITY MANAGEMENT

AWARE™ SOFTWARE

A cutting-edge software solution for organizing, managing and retaining vital information regarding your plant assets

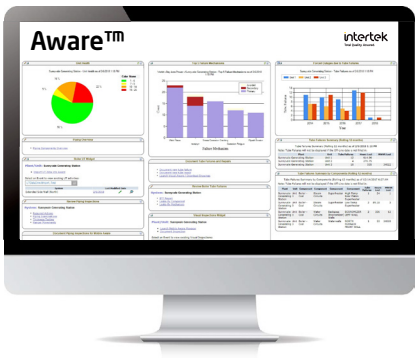


Intertek offers advanced solutions to help companies minimize equipment failure, maintain equipment reliability and safety, determine equipment remaining useful life estimations and manage inspection data.

Managing the life of plant assets is a constant challenge. Plant operators need a tool that provides organized, readily available equipment data to make informed operational, maintenance, outage and inspection decisions.

Aware is an equipment knowledge retention system. Aware software is used to track, trend and report inspection and repair information for any type of highly engineered equipment. The software has visualization capabilities that overlay recorded information on plant specific drawings. Aware's suite includes modules for boilers, heat recovery steam generator (HRSG), piping, Mobile Aware, pressure vessels and tanks, turbines, pulverizers, and air quality control systems (AQCS).

Aware allows users to quickly and easily track the inspection history on every piece of equipment by linking data to specific assets. Inspectors can use Mobile Aware handheld computers and tablets to document inspections in the field. Recorded information can be located and reviewed on interactive drawings. Aware organizes complex data allowing users to identify trends that reveal deteriorating or damaged equipment, visualize analysis results, and immediately identify areas of concern. The software uses a web-based environment permitting information to be shared across different sites, departments, or defined user groups. Aware can improve decision making, ensure accuracy and standardization, and increase the efficiency and effectiveness of inspection activities.



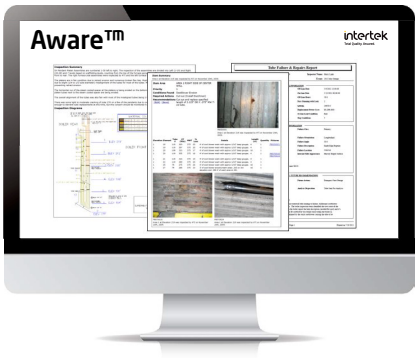
Aware Dashboard

Aware Suite of Modules

Boiler Integrity Management Software maps tube failures, repairs, thickness and oxide scale data, manages visual inspections and automates the flow of information and work during an outage. Users can identify potential trouble spots that are likely to lead to a forced outage by analyzing past failures, inspections and ultrasonic testing measurements.

HRSG Integrity Management Software maps tube failures, repairs, and non-destructive examination (NDE) inspections. Analysis of this information can help to increase reliability and reduce the amount of time and money spent on forced outages.

Automatic outage planning recommendations prompt planners to create necessary work orders and work scopes for an upcoming outage.



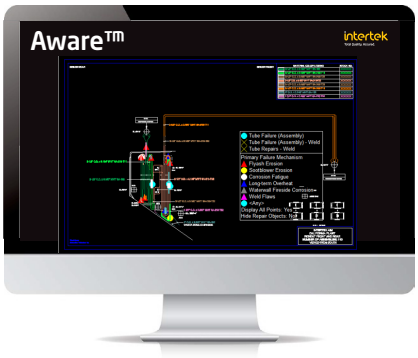
Aware Report Generation

Piping Integrity Management Software tracks inspections, assessments and NDE tests on piping components, along with documenting flow accelerated corrosion (FAC) data and hanger inspections.

Quickly view past inspection history and identify when each component is due for the next inspection.

Visual Aware for Boilers, HRSGs and Piping Integrity Management Modules utilize interactive AutoCAD drawings to overlay inspection, repair and replacement information on plant equipment, allowing users to visualize where tests have been completed and where upcoming work must be done.

Mobile Aware Integrity Management Software captures visual and NDE inspection findings electronically while the inspection is taking place, consequently saving time and reducing errors. Users are also able to access and review information collected from previous inspections while in the field. Tablet or ruggedized hand held device options are available.



AutoCAD Drawing Interface

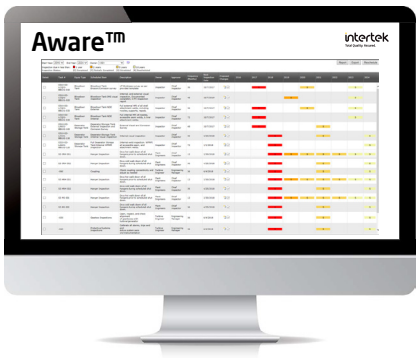
Balance of Plant Integrity Management Software documents erosion / corrosion surveys in a standardized worksheet with calculations that provide short term and long term corrosion rates and a projected retirement date for pressurized vessels, safety valves and tanks.

An inspection form delivers comprehensive equipment information with a Signatures and Notifications section for inspectors' signatures and comments. The software can also display an inspection schedule for all designated equipment.

Turbine Integrity Management Software documents the identified conditions, recommendations and priorities for each component of the turbine as they are inspected.

At the end of the outage, a consolidated inspection report is automatically generated including photographs, conditions, recommendations, tables and other user defined criteria. The report can focus on the entire turbine or each individual component, and then be shared with plant personnel.

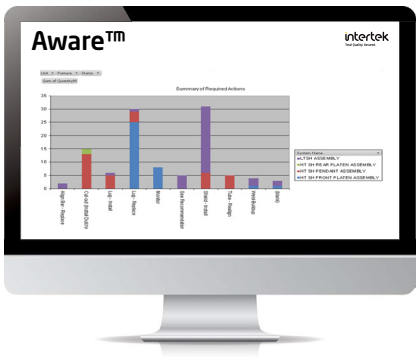
Pulverizer Integrity Management Software allows users to track overhauls and inspection findings, recommendations and status, coal fineness tests, coal flow and composition, wear part replacements and part movement from machine to machine. After using templates to document the inspection or test, reports can be generated in both hard copy and PDF format.



Scheduling Features

Enterprise Asset Management (EAM) interface with Maintenance Management Systems, such as SAP and Maximo, is where work scope, requests, notifications and work orders (WO) are managed from Aware. This streamlines the process of creating work orders and avoids duplicate data entry. Users have a clear view of the status of their WO.

Air Quality Control Systems Software monitors a user's environmental equipment to document and track inspections and repairs. This equipment usually has a large number of components to be tracked and Aware helps in managing information for each and every piece including sparger tubes, nozzles, mist eliminators, agitators and other equipment such as ductwork, expansion joints and pumps. Problem areas are easily identified on drawings and tabular reports indicating where next actions are required.



Data Analytics

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