



ONLINE DAMAGE TRACKING HIGH ENERGY SYSTEMS Digital Twin Application



Minimizing risk and maximizing reliability are the key goals for an effective asset management program. An essential part of any effective program is a system that will warehouse the associated data. Simply storing the data is not sufficient, however. The data management system must be capable of mining and analyzing the data to transform that data into information which can be used to make informed and effective decisions. Through intuitive interaction with this information, knowledge is developed that helps you to proactively manage your plant. To that end, Structural Integrity has developed our data management program, **PlantTrack™**.

PlantTrack is a powerful, web-based software solution with features designed specifically for the power industry. **PlantTrack** helps utilities to manage all types of data related to power plant design, construction, operation, specifications, inspections, maintenance and repairs, and failure investigations. In addition to offline data management, online monitoring and engineering assessment capabilities can be added, providing an integrated solution for asset health management of stationary power plant components.

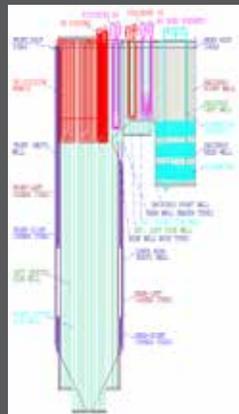


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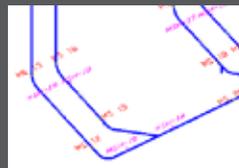
SERVICES

BOILER MODULE

The **PlantTrack** boiler module provides users with a simple user-interface to record tube leaks, header cracks, repairs, and inspection data, and map that data to interactive plant-specific drawings.

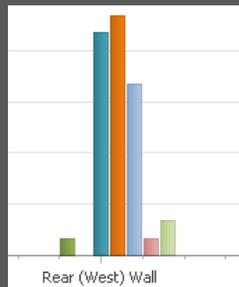
PIPING MODULE

The **PlantTrack** piping module provides users with a web application and database to track not only the data collected such as weld inspections and hanger walkdowns, but the future actions to be taken.



BALANCE OF PLANT MODULE

The **PlantTrack** balance of plant module allows users to manage the information, data, and knowledge for heavily engineered equipment such as turbines, pressure vessels, and environmental equipment.



ON-LINE HEALTH MONITORING

PlantTrack's ability to interface with plant data historians and installed instrumentation, combined with Structural Integrity's analytical capabilities, has enabled solutions for monitoring critical components and assessing their health status in real-time. Online damage tracking modules are available for attemperators, headers, tubing and piping of conventional coal and combined cycle plants.