

SOFTWARE EXPERTISE

BUILT BY EXPERTS

Pioneered development of
FFS & RBI

Used by E²G engineers on
CONSULTING PROJECTS

Updated to meet
API & ASME
codes and standards

Primary authors of
WRC 528 & 562

Lead investigators on
API 571 & 579

INDUSTRIES



Biofuels & Renewables



Chemical & Specialty Chemicals



Oil & Gas



Petrochemicals

COMPLEX ANALYSIS MADE SIMPLE

Leverage the convenience of the cloud-based platform to quickly and easily perform complex engineering calculations that are aligned with the latest industry codes and standards.

With over 40 tools at your fingertips, the Equity Engineering Cloud (eec) platform helps you make effective and informed decisions to keep your industrial assets operating safely and reliably. The cloud-based tools guide you through the data input requirements for complex engineering analysis, resulting in practical calculations of fitness-for-service (FFS), fatigue analysis, and many other design or in-service evaluations.

FITNESS-FOR-SERVICE (FFS)

FFS assessments are conducted on in-service equipment to assess the structural integrity of pressure vessels, tanks, and piping to determine whether the component is fit for continued operation or if the flaw or damage will cause a failure. The module-based eec platform leverages SagePlus™ behind the scenes to deliver accurate results quickly and easily.

TOP FEATURES

The eec's modern interface and dashboard-driven layout simplifies the user experience to help speed up data analysis.



NAVIGATION

- Find the best tool quickly with the robust search bar
- Bookmark frequently used tools for quick access
- Review problem-specific results in a clear and organized manner



DASHBOARD

- Access a personal database of previous jobs with naming and tagging functionality
- View all available eec tools to identify new approaches to solving your asset challenges
- Upload cases directly to the dashboard from your documents folder
- Understand each tool's purpose and functionality with clear explanations



CALCULATORS

- Leverage the latest SagePlus™ calculation engine
- Gain instant access to updates and improvements
- Access frequently used inputs with pre-loaded example problems
- Collaborate with others with the "Save" and "Upload" functionality

FLEXIBLE MODULE-BASED PACKAGES

The module-based platform and step-by-step input format provide fast and accurate calculations for several analysis categories.

API 579/ASME FFS-1

Conduct detailed Level 1 and Level 2 FFS assessments of in-service equipment.

Design

Achieve safer and more reliable designs of new equipment.

Fluids

Calculate the thermodynamic, transport, toxic, and flammable properties of custom fluid mixtures.

Materials

Access the extensive database of materials to support the design and analysis of vessels, tanks, and piping.

Piping

Evaluate the effects of sustained, occasional, and self-limiting stresses on new and in-service piping systems.

Boiler & Vessels

Evaluate the code requirements for new and in-service pressure vessels.

Fatigue

Predict the probability and magnitude of fatigue damage with this collection of tools.

In-Service

Evaluate the integrity of damaged equipment to inform inspection and maintenance activities.

Pipelines

Assess the effect of internal and external damage on the maximum operating pressure and remaining life of pipelines.

Tanks

Design the courses of new tanks or evaluate the settlement of existing aboveground storage tanks (ASTs).

