

Signal™ Fitness-For-Service provides cost-saving calculations

Quest Integrity Group

The emergence and growing acceptance of fitness-for-service methods have increasingly led to the safe delay or avoidance of costly repairs to aging equipment. The methodology has been developed by industry experts with a wide range of backgrounds and covers a multitude of damage mechanisms. These include corrosion, hydrogen damage, cracking, dents or shell distortion and creep damage, among others. Even if a plant is not API related, the API 579/ASME FFS-1 Fitness-for-Service standard is often recognized as the best engineering practice.

The best part is Signal™ Fitness-For-Service is easy to use and provides context-sensitive help so picking it up after weeks or months is stress free.

Being able to rapidly assess damage uncovered during planned inspections is a major part of the success of fitness-for-service. Since every region of damage is unique, sometimes internally prepared spreadsheet calculations are insufficient to accurately assess a piece of equipment with damage. A comprehensive software program that automates many of the calculations can mean the difference between a timely return to service and extra shutdown time.

Quest Integrity Group's Signal™ Fitness-For-Service offers that solution. It allows a plant inspector, reliability engineer or consulting contractor to quickly and confidently assess damage as soon as the inspection data is available. It also has the capability to compute all the "what if" cases so the operator can make the high consequence decision to repair the component or return it to service. It also assists in the optimization of equipment yields based on remaining life estimates using aggressive operating conditions. The best part is Signal Fitness-For-Service is easy to use and provides context-sensitive help so picking it up after weeks or months is stress free. Maybe

it is time to ask, "Is your facility conducting fitness-for-service assessments in the most efficient and effective way possible?"


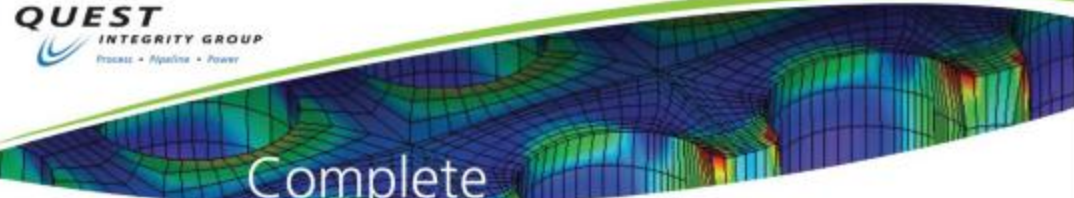
Quest Integrity Group, a Team Industrial Services company (NYSE: TISI), is a global leader in the development and delivery of asset integrity and reliability manage-

ment services and solutions for its clients. Solutions consist of technology-enabled, advanced inspection and engineering assessment services and products that help companies in the refining and chemical, pipeline, syngas and power industries increase profitability, reduce operational and safety risks,

and improve operational planning.

Quest Integrity Group is headquartered in Seattle and has offices in Houston, Denver, Canada, The Netherlands, United Arab Emirates, Australia and New Zealand.

For more information, visit www.QuestIntegrity.com or call (303) 415-1475.


Complete Data Assessment



Custom crack - FEACrack™




Local metal loss thickness data - Signal™ Fitness-For-Service



- Models 3D cracks in minutes
- A proven practical solution developed by fracture mechanics experts
- Parametric capabilities facilitate more thorough fracture analyses
- Easy to learn and use

A Complete and Robust Solution

- Contains extensive geometry library
- Import a user-defined geometry
- Select standard or custom crack shapes
- Perform fatigue analyses
- Post-process crack results



- Developed and supported by fitness-for-service experts
- Reduces operational risk and improves safety
- Improves profitability
- Easy to learn and use

Complete Assessment Capabilities

- Perform metal loss, pitting, dent, brittle fracture, hydrogen damage and creep assessments
- Conduct crack growth analyses
- Evaluate cracks using failure assessment diagram method
- Robust parametric and Monte Carlo analysis capabilities



Quest Integrity Group's Signal™ Fitness-For-Service is easy to use and allows users to quickly and confidently assess damage.

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