

Fitness for Service Evaluation

Fitness for Service is defined as the ability to demonstrate the structural integrity of an in-service component containing a flaw.

Fitness-for-service assessments provide useful economic and end users and operators including:

- (1) ensuring the safety of plant personnel and the public while older equipment continues to operate and;
- (2) helping to optimize maintenance and operation of existing facilities to maintain the availability of older plants and enhance long term viability.

The procedures can be used for evaluation and re-rating of pressure vessels designed and constructed to the ASME Boiler and Pressure Vessel Code; piping systems designed and constructed to the ASME B31.3 Piping Code and aboveground storage tanks designed and constructed to API 650 and API 620.



The Hendrix Group Inc. routinely conducts fitness-for-service assessments of pressure vessels, piping systems and storage tanks using API 579 guidelines. Our engineers and associated strategic partners can provide complete fitness-for-service, mechanical integrity, and remaining life services, including field inspections and data collection, laboratory mechanical and chemical testing, and cost effective engineering solutions using our advanced software capabilities.

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fitness for service

Assessments

- General Metal Loss
- Local Metal Loss
- Brittle Fracture
- Pitting Corrosion
- Blisters
- Laminations
- Crack-like Flaws
- Fire Damage