

## 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.

# fitness for service



## Assessments

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

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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