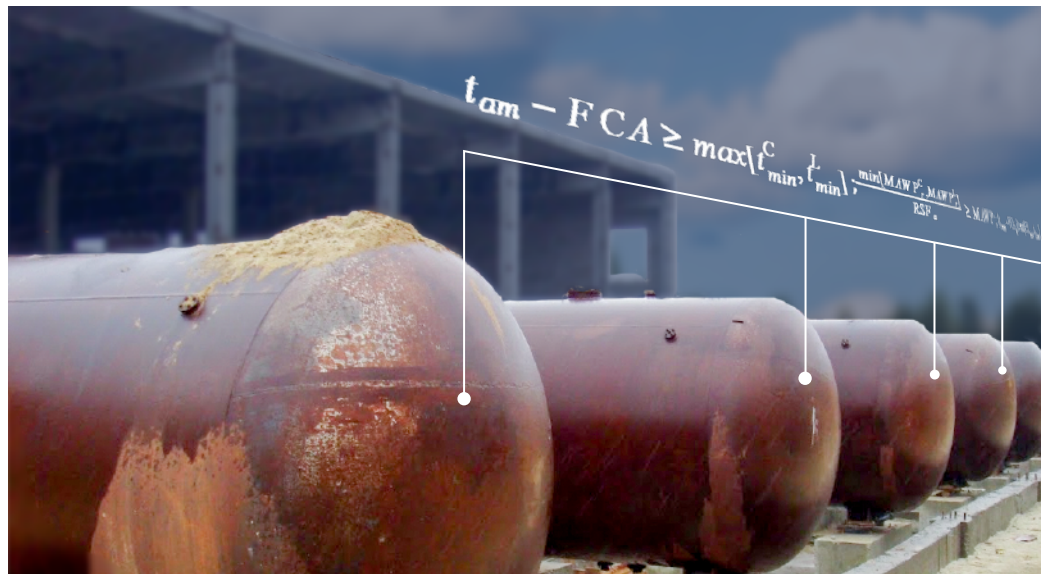


Fitness for Service (FFS) Assessment

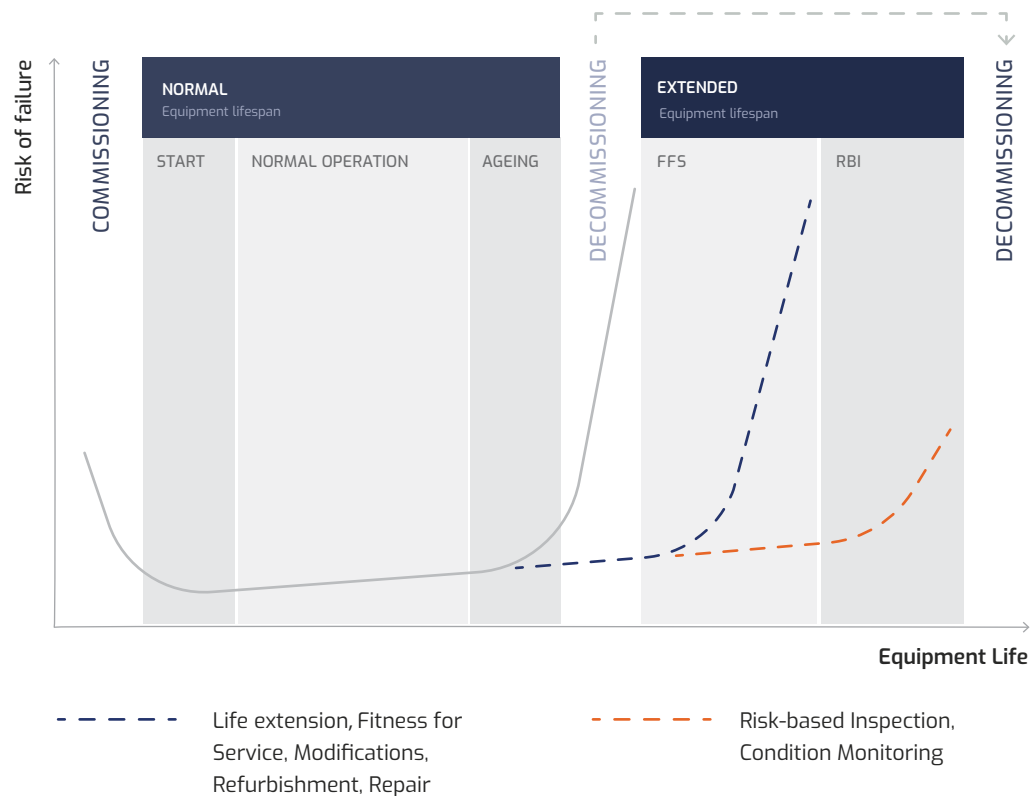
Fitness for Service (FFS) is a standard procedure used in the Oil & Gas and Energy industries to **evaluate equipment's integrity** and readiness for **prolonged, uninterrupted, and safe performance**. FFS includes evaluation and definition of the acceptable equipment performance deviation limits.



Business Benefits

- Extended **equipment life**;
- Determination of **equipment serviceability** and residual life;
- Optimized **inspection intervals**;
- Improved **equipment availability and safety**.

>> FFS APPLICABILITY



FFS Assessment is useful during:

■ Construction Phase

If the found flaws are more serious than specified in the requirements, the FFS assessment will help to determine the necessity of repairs.

■ Normal Operation Phase

FFS can be used during operational inspections of the equipment to determine whether repairs are required for the identified flaws.

■ End of Predetermined Lifespan

Together with other detailed inspections, FFS can help determine further serviceability condition beyond the designed lifespan with economic advantage.

>> APPLICABLE STANDARDS

Applicability of each standard is largely dependent on the regulatory requirements and the industry sector. If equipment is damaged, the type of in-service damage defines the procedure to be applied.

Industry codes

Assessment procedures stated in these industry codes are used for the FFS.

- **API 579-1/ASME FFS-1**
"Fitness-For-Service";
- **BS 7910**
"Guide to methods for assessing the acceptability of flaws in metallic structures";
- **ASME B31.G**
"Manual for Determining the Remaining Strength of Corroded Pipelines";
- **SINTAP**
"Structural integrity procedures for European industry";
- **FITNET**
"Fitness-for-Service Procedure Final Draft MK8".



Our qualified engineers use quantitative assessment methods to evaluate further **serviceability of the aged and damaged equipment.**



>> ADDITIONAL SERVICES

We can provide a **full stack** of engineering, consultancy and other supporting services to optimize your business, including:



Asset Integrity Services

- Ex inspections and maintenance;
- Hose management;
- Materials management.



Full-spectrum of CAD services

- Creation and enhancement of the 2D drawings;
- 2D Drawing update, redraw and conversion;
- 3D Modeling.



Maintenance engineering

- Development of the optimal equipment maintenance strategies;
- Plant maintenance optimization (PMO);
- Risk-Based Inspection (RBI);
- Reliability-Centred Maintenance (RCM);
- Criticality assessment of equipment and inventory parts.



Virtual support services

- Plant operational support in ERP/EAM system.
- Project, Procurement, Logistics and Supply chain support.



Data cleansing services



Onsite data collection and verification



Warehouse and materials management



Learn more about our RBI Services >>