



FAILURE INVESTIGATIONS, CONSULTING
SERVICES, STRESS ANALYSIS, DESIGN

A multi-disciplinary team to support you during design, fabrication and maintenance or for failure investigations

> Why choosing IS Industrie?

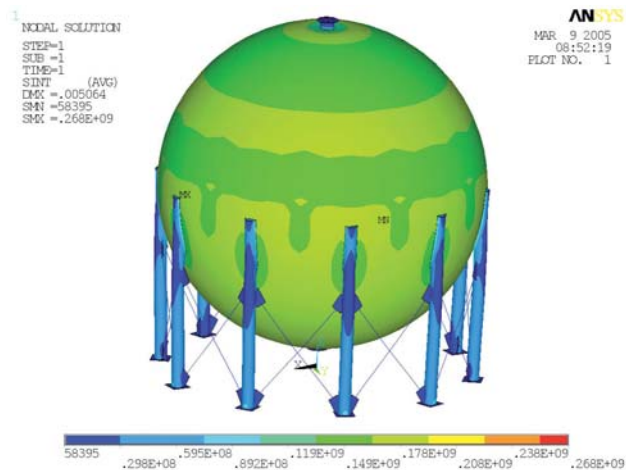
- To assess or check the design of metallic components or structures
- To simulate the behaviour of a structure subjected to various types of loadings
- To understand the root causes of component failures
- To investigate material properties and fabrication defects
- To carry out fitness-for-service assessments to extend the life of a structure
- To assess the potential to repair a damaged structure and obtain recommendations for weld repairs
- To examine damaged parts as an expert witness during a litigation and provide third party analysis



- More than 30 experts in the fields of materials, mechanical engineering and welding can be deployed worldwide
- 30 years experience providing expert witnesses and support for loss adjusters
- Our laboratories equipped with state-of-the-art technology
- Our references: Exxon, Total, BP, Saipem, Areva, Alstom, Arkema, GDF Suez, Technip, ...



Failure investigation on a demineralised water tank



Finite element analysis of a spherical storage tank

> The technologies

- Finite Element Analysis and numerical modelling, stress analysis
- Fitness-for-service and structural integrity assessment
- Mechanical testing, metallography, chemical analysis, corrosion testing
- Scanning Electron Microscopy, EDX and WDX microanalysis
- Field metallographic replicas and hardness testing, in-situ extraction of samples

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