Corrosion risk and mitigation methods

YOUR CHALLENGES

To study the aging of coatings, the effectiveness of cathodic protection, external corrosion and integrity challenges related to natural gas and new gases (biomethane, hydrogen, CO2).

OUR VALUE-ADDED SKILLS

- Coatings: smart coatings, aging in underground service (cathodic detachment) or on the surface (oxidation).
- Cathodic protection efficiency: new probe tests (IR-free, ER probes, long-life electrodes), demanding standards (ISO 15589-1, 100 mV method, 100 mV method), qualification of new equipment (grounding systems, AC,... drainage systems).
- Corrosion: atmospheric (overhead storage, aboveground equipment), soil, AC and DCVG (challenges posed by the new standards: ISO 21857), induced by microbiological microbiology (test kit), or internal (impact of impurities: O2, CO2, H2S,...).
- Hydrogen: evaluation of blocking solutions (organic coatings, gaseous inhibitors, surface treatments,...) by permeation measurements.

OUR REFERENCES

- Physico-chemical analysis of coatings
- Electrochemical studies of corrosion in soils and liquids
- Corrosion studies (electrical influences, bacteria)
- Development of equipment for measuring and controlling the effectiveness of cathodic protection
- Study of the impact of hydrogen using specific test facilities
- Design of a training course on external corrosion in the ground environment.

PRICE OF THE SERVICE

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