CORROSION PREDICTION AND MATERIAL SELECTION

cenosco

Hydrocor

Corrosion Prediction and Material selection for oil and gas pipelines

Hydrocor is a state-of-the-art solution for upstream internal corrosion prediction. It is based on industry standards and was designed to support corrosion engineers in decision-making. It is built on 45 years of experience in corrosion and flow modeling and has benefited from both operational field experience as well as scientific collaboration.

It is an invaluable tool for both the conceptual design stage of new pipeline projects and for assessing the integrity of existing facilities. Furthermore, it is acknowledged to be the best in class by industry.
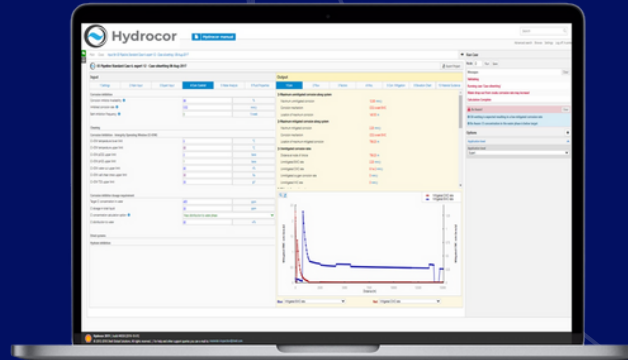
With Hydrocor you can…

- Predict corrosion based on the following degradation mechanisms:
  - CO_2
  - H_2S
  - Organic Acids
  - O_2 Corrosion
  - Microbial Corrosion
- Predict the corrosion rate along a pipeline based on a combination of corrosion-, flow- and chemistry models.
- Predict corrosion as well as the effectiveness of its control (incl. corrosion inhibitors and dewpoint).
- Determine the corrosion allowance for mild corrosive systems.
- Load scenarios and project life simulations.

The Benefits

Minimize CAPEX costs for new projects and optimize OPEX cost for existing facilities.

- Optimize Materials Selection: Design and operate your projects with carbon steel pipelines in highly corrosive fields.
- Effective corrosion mitigation strategy: Assess the effectiveness of mitigation measures already in place, as well as the demand for additional mitigation.
- Reliable corrosion predictions due to integration of corrosion rate prediction with models for multi-phase flow, heat transfer, water condensation, phase equilibria, and solution chemistry.

Cenosco provides all the appropriate training and consultancy.

Get in touch to request a presentation of Hydrocor

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Hazards Consultancy is part of the Cenosco Partner Network

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