



FlexIQ

INTECSEA
WorleyParsons Group

innospection

Redefining flexible riser integrity management

- Best in class inspection and computational simulation
- Accurate damage detection and impact on design life
- Improved understanding of operational risk
- A fully integrated service for inspection, analysis, and data management

Bottom line: we deliver insight, not just data

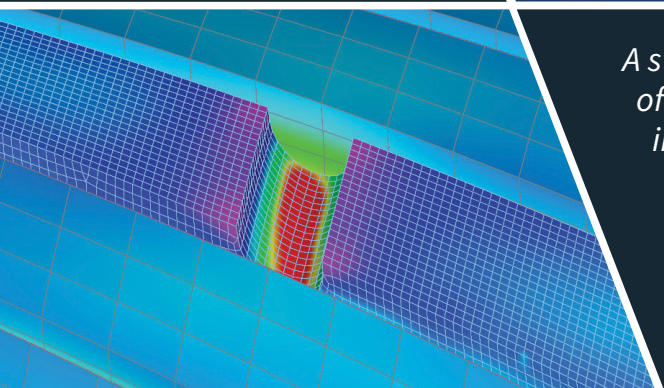


Integrating **FLEXAS™** and **MEC-FIT™**
for **Flexible Riser Integrity**

Improving risk
assessment.

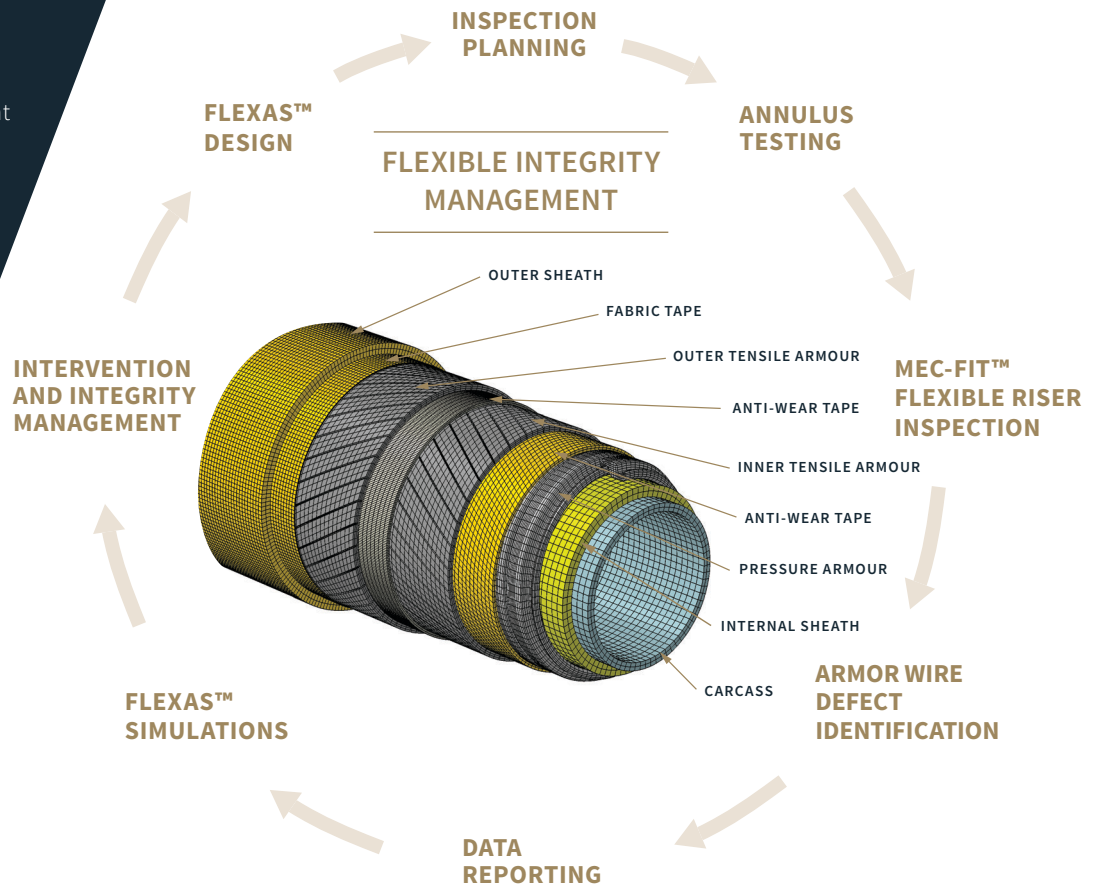
Increasing
operational
confidence.

*A strategic alliance
of industry leading
inspection and simulation
tools in the arena of
flexible riser integrity
management.*



A COMPLETE OFFERING

- Risk-based integrity management and inspection planning
- State-of-the-art annulus testing
- Visual and MEC-FIT™ (Magnetic Eddy Current) inspection
- Dynamic riser simulation using detailed, multi-layered finite element models with FLEXAS™
- Intervention planning and construction management
- Life of field riser analysis and model updates



MEC-FIT™

- Combined DC magnetic and eddy current fields to detect single or multiple wire damage in up to 3 metallic layers
- Capable of detecting cracking, pitting, general corrosion, and wire misalignment and gaps
- Mapping wire layers and identifying details of individual findings
- No requirement for annulus to be flooded
- Deployment from topside or ROV

ANNULUS TESTING

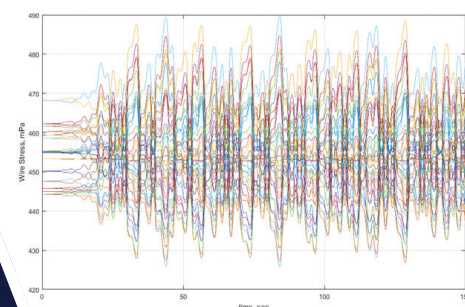
- Positive pressure annulus test and riser vent path assessment
- Temperature calibrated for accuracy
- Gas sampling for corrosion assessments
- Secondary volumetric flow meter digital readout
- Improved quick connect kit to reduce pressure loss and eliminate leak paths

FLEXAS™

- More realistic simulations leading to increased accuracy for fatigue life predictions
- Single integrated flexible riser global analysis with detailed multi-layer models and direct stress recoveries
- Elimination of secondary local stress analyses with detailed segment models

VALIDATION

- ▣ Deepstar qualification program
- ▣ Independent operator experimental benchmarking
- ▣ Selected by NASA and qualified for mission-critical analysis for manned space flight



Stress Time History for Individual Armour Wires