Wood Group Kenny - Overview
Agenda

• About Wood Group Kenny
• WGK Structure & Capabilities
• Service Offering
  • Subsea Structures & Systems
  • Flow Assurance & Process Optimisation
  • Pipelines [Subsea]
  • Pipelines [Onshore]
  • Risers
  • Programme & Project Management
  • Operations Support
  • Integrity Management
Our Life Saving Rules

- Control of work
- Isolations
- Working at height
- Marine works
- Lifting
- Confined spaces
- Ground works
- Driving
- Fit to work
Our position in Wood Group

- Turbo Machinery: Over 3,600 employees in 100 countries
- Brownfield Services: Over 29,000 employees in 40 countries
- WOOD GROUP MUSTANG: Over 12,000 employees in 17 countries
- WOOD GROUP KENNY: In 100 countries
- WOOD GROUP PSN: In 40 countries
SURF Capability

Extensive track record in SURF design, operations and integrity management providing a comprehensive capabilities in:

- Risers
- Integrity Management
- Flow Assurance
- Subsea Systems
- Pipelines – Onshore and Offshore
- Subsea Structures
- Operations Support
- Project Management

Specific, strong track record in deepwater, harsh environments worldwide
Riser Systems

The world leader in compliant riser systems design with an extensive track record across all riser system types and water depths

- Riser Systems Engineering
  - Delivery management from tendering, through manufacture and installation
  - Configuration and ancillary engineering
  - Operational support
    - life extension
    - service optimisation
    - anomaly investigation
  - Combined riser-moorings engineering
- Dynamic installation capability for risers, structures and flowlines
- Flexible pipe technology experts and author of key industry standards
Integrity Management

Business solutions for materials engineering, life-cycle integrity management and inspection management

- Integrity Management Studies
- Materials and Corrosion Engineering
- Inspection Engineering
- Welding & Fabrication
- Integrity Management Software – NEXUS IC
- Fitness for Service Assessments
- Flexible Riser Vacuum Testing and Annulus Gas Sampling
- Engineering Criticality Assessments (ECA)
- Asset Life Extension Studies
- Integrity Audits and Gap Analysis
Flow Assurance

Specialist services and products for flow assurance and process optimisation

- Flow Assurance Consultancy
- Transient Multiphase Flow Simulation
- Dynamic Process Modelling
- Operating Philosophy
- CFD & Finite element modelling
- Control Room Decision Tools
- Operator Training
Subsea Systems

We have the largest independent Controls & Hardware team in the world outside the OEM’S.

- Impartial advice and support to CAPEX Projects.
- Hands on experience with delivery, testing and integration of the following:
  - Subsea controls systems, Subsea Xmas Tree systems, Valves & Actuators, Associated hardware (meters & instrumentation)
  - OPEX advise and offer support, management, intervention and repair strategies and solutions.
Pipelines – Onshore and Offshore

The world’s largest subsea pipeline engineering contractor with over 30 years experience in Pre-FEED, FEED, detailed design and installation support of:

- Subsea trunklines, flowlines & tie-in spool engineering
  - High Pressure High Temperature (HPHT)
  - Pipe in Pipe (PiP)
  - Flexibles flowlines
  - Corrosion Resistant Alloys (CRA)
  - Piggybacked Flowlines
  - Deepwater challenges
- Bundle pipeline design verification
- Advanced Finite Element (FE) analysis
- Specialist Pipeline Engineering – inc. Carbon Capture, Enhanced Oil Recovery, & upheaval and lateral buckling analysis
- New technology development – inc. Composite pipe analysis
- Shore approach and onshore pipeline and facility design
- Geotechnical engineering
- Cost and scheduling optimisation & procurement support
Subsea Structures

WGK offer Specialist services supporting the design, fabrication and installation of Subsea Structures. Typically this will include:

- Well (therefore structure) location
- Structure design philosophy
- Pipe and equipment functionality
- Protection Philosophy
- Soil Conditions and Foundation Design
- Installation strategy
Subsea Structures

WGK offer Specialist services supporting the design, fabrication and installation of rigid/static risers and associated structural appurtenances. Typically this will include:

• Rigid Caisson Systems
• Rigid risers and j-tubes
• Jacket local assessments
• Clamp and guide design
• J-­­Tube Bellmouth and modified conductor design
Operations Support

Helping oil companies and asset owners efficiently run their activities through construction, commissioning and Opex phases of Field life.

- Management, Integrity & Data Assessment System
- Equipment Reliability/Maintainability
- Fitness for purpose/engineering critical assessment
- Project Management and Engineering
- Independence
- Decommissioning Support & Due Diligence
- Spares management and philosophies.
Program and Project Management

WGK provides Programme and Project Management expertise that is fully integrated with our broad technical capability and backed by competent practitioners, process and systems:

• Programme & Project Management
  o Integrated project and technical risk management
  o Quality Assurance

• Project Support Services
  o Cost estimation, forecasting and control
  o Planning and scheduling
  o Multi-discipline Drawing Office

• Supply Chain Management
  o Tendering, procurement, vendor and supplier management
  o Transport and logistics

• Contract Management
  o Contract and Commercial Administration
  o Compliance
  o Performance measurement
Wood Group Kenny is committed to…

• Providing world beating Programme and Project Management Services

• Providing discipline excellence with integrated capability

• Bringing the best experience to a project and utilising our long track record in the industry

• Technology development and application

• Delivering safe, sustainable and cost effective solutions for our clients
Questions