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ADVANCED ENGINEERING FOR FLEXIBLES

- **Independence**
 - Independent and impartial engineering, without hardware or installation preference
- **Advanced Subsea Engineering**
 - Unique combination of engineering experience, including design, testing, analytical skills and proprietary software solutions
- **Experienced Personnel**
 - Personnel with worldwide experience, all locations, all water depths
 - 25 years in offshore industry
- **Resources**
 - Staff of 150 based in Houston, Galway, Aberdeen, Rio, Perth and Paris
- **Worldwide client base and experience**

SERVICE

- **Industry-leading Expertise in Flexible Pipe Technology**
 - Procurement Support (Spec etc.)
 - Global design, verification, and installation support
 - X-Section modeling, analysis and verification
 - Ancillary component design, analysis and verification
 - Integrity management
- **Technology Developments**
 - API Spec 17J (unbonded flexible pipe)
 - API Spec 17K (bonded flexible pipe)
 - API RP 17B (flexible pipe)
 - Guidelines for Integrity Monitoring of Unbonded Flexible Pipe
 - UKOOA Guidance Note on "Monitoring Methods and Integrity Assurance for Unbonded Flexible Pipe"
- **Proprietary Software**
 - Flexcom
 - Freecom
 - Layercom
 - Crosscom

KEY PROJECTS

- **Gulf of Mexico**
 - Integrity Management
BP Marlin, ChevronTexaco Typhoon, BHPB Boris
 - Conceptual, Procurement Spec & Bid Support
ChevronTexaco Typhoon, Nexen Aspen II, BHPB Boris
 - Design
BHPB Boris
 - Verification
Kerr McGee Gunnison, Total Matterhorn, ChevronTexaco Typhoon
 - Installation Support
BHP Boris, ChevronTexaco Typhoon
 - Spar TTR Flexibles
Murphy Medusa, ChevronTexaco Genesis
- **West of Africa**
 - FEED/Technology Support
Chevron Agbami, Lobito-Tomboco
 - Design
Total Girassol
- **North Sea**
 - Design, verification, conceptual and/or integrity management engineering support to 90% of floating production projects