



AFTERMARKET AND ASSET INTEGRITY SERVICES

World Class Installation Support | Unparalleled Aftermarket Services

THE SHIELD OF THE SOFEC PRODUCT LINE

ASSET INTEGRITY SERVICES

SOFEC is committed to the best value on your Single Point Mooring and Spread Mooring system assets. We offer knowledge and our expertise of these systems together with bespoke inspections, integrity reviews and condition monitoring services to provide you the best advice in terms of operations, maintenance, modifications and life extensions for these systems.

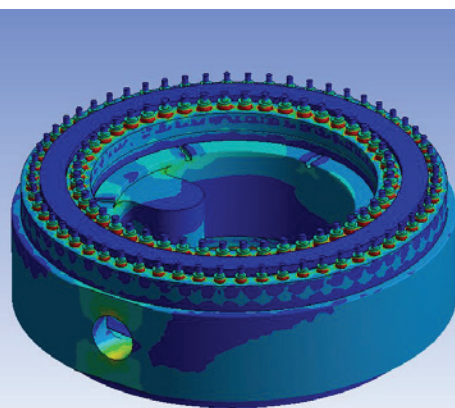
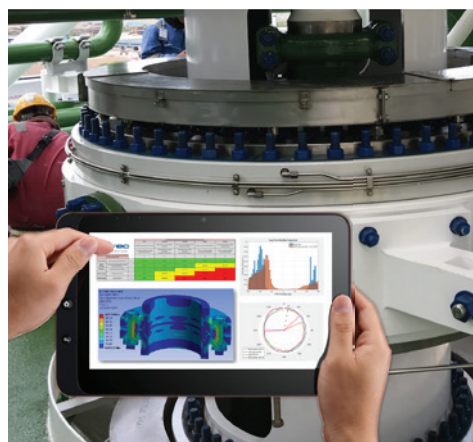
SOFEC provides the following support and services:

Inspection Support and Integrity Reviews

- Performance of Annual Surveys of Tower Yoke and Turret Mooring Systems, and CALM Buoy equipment by trained and specialized SOFEC inspectors
- Creation of inspection programs for 3rd parties (mooring, structure, process equipment)
- Provision of Integrity Assessments and fit-for-purpose Engineering Analyses by in-house subject matter experts based on (3rd party) inspection reports

Condition Monitoring Services

- Bearing grease monitoring – detecting premature wear in the Main and Swivel Bearings
- Implementation of Condition Monitoring Systems for critical components
 - Station keeping and Motions Monitoring Systems
 - Mooring and Anchor Leg Monitoring Systems
 - Swivel & Bearing Monitoring Systems
- Real-time condition monitoring (component and system status)
- Long term operational performance assessment
- Advanced Analytics (Digital Twin) solutions for Predictive Maintenance



AFTERMARKET SERVICES

Established in 1972, SOFEC, Inc. has provided proven marine terminals and floating production solutions to customers worldwide. These industry-leading systems are backed by a commitment to customer service that runs throughout the entire organization.

SOFEC Systems

- Permanent Internal Turret Moorings
- Disconnectable Turret Moorings
- External Cantilevered Turret Moorings
- Innovative Spread Moorings
- Tower Yoke Moorings
- Marine Import / Export Terminals

Global Service Capabilities

- Technical Services
- Spare Parts
- Equipment Upgrades/Retrofits/Overhauls
- Installation and Commissioning Support
- Training and Consulting
- Life Extension Evaluation and Support



Technical Services

SOFEC's first priority is to provide world class customer service – whether it be a planned inspection, an overhaul of the entire system, or unplanned fast-reaction repair services.

Technical Services Offered:

- Site Repairs
- Repair Parts
- Inspection / Testing
- Shipyard Technical Assistance
- Complete Overhauls and Rebuilds
- Warranty and Claims Management
- Engineering Upgrade Packages
- Operational Audits

Spare Parts

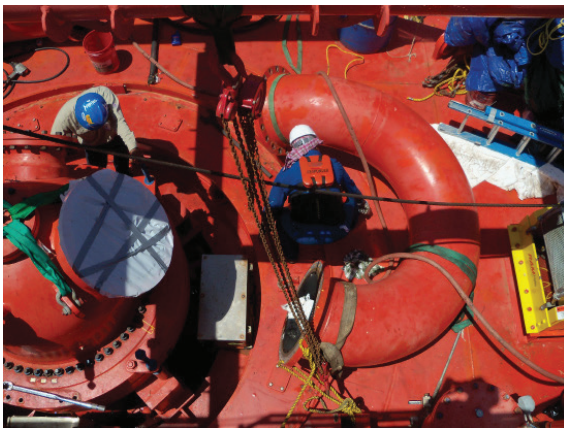
SOFEC is committed to furnishing customers with original equipment manufacturer replacement parts for the life of the system.

- Original Equipment Manufacturer's parts available for all SOFEC equipment
- OEM approved equipment replacements for obsolescent parts
- Responsive Spare Parts Department
- Experienced team will work with you to determine your unique needs

Equipment Upgrades/Retrofits/Overhauls

Upgrade your systems with the latest technology.

- Environmental and Load Monitoring Solutions
- Replace existing equipment with state of the art industry solutions
- Complete overhauls to bring systems back into top condition
- Repair and rebuild services support available on site or at the shipyard of your choice



Installation/Commissioning Support

SOFEC offers support for installation, testing, and commissioning of all SOFEC product lines.

- Support during Project Kick-off
- Experienced site support personnel and project management
- Technical assistance available in all engineering disciplines
- Detailed management of commissioning process
- Experienced and dedicated commissioning personnel

Environment Quality, Health, Safety

- Designed and executed in accordance with international quality standards
- Committed to protecting the health and safety of people as well as the environment



AFTERMARKET SERVICES

TRUSTED DESIGN - QUALITY WORKMANSHIP PROVEN EXPERIENCE

Training and Consulting

SOFEC offers a wide range of training and consulting.

- Training of customer Operations personnel
- Modular need based training packages available
- Maximize the operability of your equipment

SOFEC offers two main training modules:

- Operations Training
 - Basic Equipment Operations
 - Review of Installation Procedures
 - Health, Safety and Environmental Training
 - Emergency Operations/Response Training
 - Equipment Testing
- Maintenance Training
 - Preventative Maintenance of your Equipment
 - Troubleshooting and Equipment Problem Solving
 - Routine Inspection Programs



Terminal Operations and Maintenance

SOFEC offers Terminal Operation and Maintenance Solutions.

- Assist with Contractor Selection
- Assist Operator with establishing Maintenance Programs
- Periodic Operational Audits and Inspection
- Technical Consulting
- Technical Service Agreements





A Global Leader in the supply of Turret Mooring Systems

sofec

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