



RISER RENEWAL SERVICES

InSituCheckSM High-Accuracy Onboard
Inspection Services for Marine Drilling Risers



Overcome the Limits of Traditional Inspection Methods

Riser renewal has never been so efficient, with inspection services for marine drilling riser systems onboard the vessel. AFGlobal's InSituCheckSM marine drilling riser inspection service easily overcomes the challenges of traditional methods—inadequate capacity, limited yard space at facilities, complex logistics management, and the high cost of full drilling riser disassembly. For marine drilling riser inspections, the reliable, high-accuracy *InSituCheck* system and AFGlobal's proprietary Condition Based Maintenance Program "CBM" offers valuable advantages over traditional methods.

Unmatched Benefits With InSituCheckSM Service

A unique set of benefits unavailable from any other inspection source completely changes the way marine drilling riser inspections and certifications are performed.

Avoid rig downtime. Inspecting isolated riser joints onboard the vessel ensures riser is ready for service, avoiding any drilling delays.

Eliminate costs. *InSituCheck* service eliminates the logistical problems and transportation costs associated with moving risers onshore for inspection.

Recertify existing systems. AFGlobal can recertify an array of the most popular OEM drilling risers in the market today, utilizing our ABS and DNV approved inspection procedures for these riser systems.

Retain Certification. All riser joints approved by inspection will have the Certificate of Compliance issued by AFGlobal. To maintain class certification or at the customers request,

ABS or DNV will witness the inspections. This is the industry's most efficient and cost-effective way to retain your marine drilling riser system's current class certification, at the five year inspection interval. We follow stringent industry guidelines, codes and processes, while ensuring our customers' specifications are met or exceeded.

Eliminate environmental impact. Our proprietary equipment and processes allow us to perform onboard inspections safely, without impact to the environment.

Ensure effective inspections. *InSituCheck* service is more than technology. Highly trained, experienced inspection experts using our advanced tools and techniques offer the best guarantee for finding small problems before they become large problems.

Mitigate risk. Whenever complex processes are eliminated, such as moving an entire riser system to shore, and disassembling each joint to inspect it once it is there, substantial personnel risk can be avoided.

Reliable, High-Performance Onboard Inspection Technology

AFGlobal's inspection technology allows for quick and accurate evaluation of wall thickness, weld integrity, riser bolts, riser inserts and main flanges—without removing external attachments. Our tools are designed to be compact and field friendly, allowing easy set up, eliminating large, complicated tool packages, that are difficult to transport, calibrate and operate.

InSituCheck services and tools include:

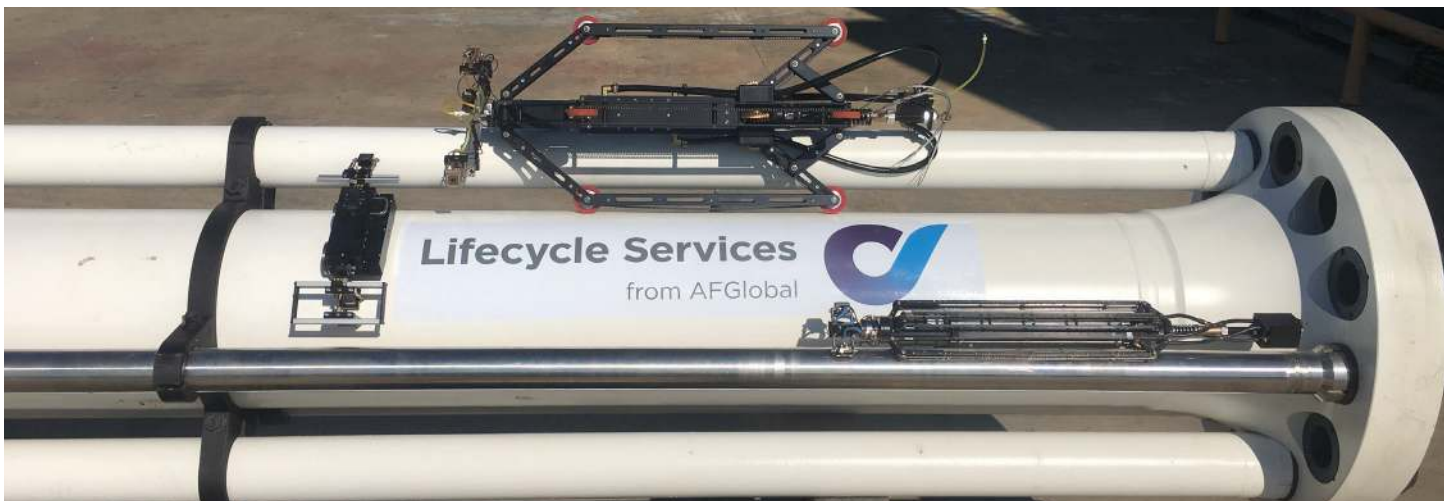
- Schedule based inspections
 - Between well, annual and five year
- Condition Based Maintenance Program “CBM”
 - Recertification intervals based on actual condition and fatigue
- Riser Asset Management
 - Proprietary Riser Navigator Program
- Automated and Semi-Automated Main Tube Inspection
 - WT scan using UT
 - Scanning capability up to 100%
 - Weld Inspection
 - Flange to pipe and pipe to pipe, TOFD, or Pulsed Echo inspection
 - Inspections can be executed horizontally or vertically
- Automated and Semi-Automated Auxiliary Line Inspection
 - WT scan using UT
 - Scanning capability up to 100%
 - Weld Inspection
 - Flange to pipe and pipe to pipe, TOFD, or Pulsed Echo inspection
 - Inspections can be executed horizontally or vertically



- Automated Flange Pocket Scanner
 - Phased Array inspection
 - Self driven
 - Scans from the ID and OD
 - Inspects ID of the flange pockets without removing the auxiliary line inserts
 - Detects cracks and corrosion
- Subsea and Riser Bolt Inspection
 - Complies with industry standard codes and recommend practices
 - ABS and DNV accredited and approved processes and procedures
 - State of the art inspection equipment
 - Proprietary tooling and techniques

RISER SYSTEM INSPECTION SIZE LIMITS

Internal Diameter	External Length
2.5 in. to 24 in. (65 mm to 1.5 m)	Up to 100 ft (30 m)
	With access from both ends: Up to 200 ft (60 m)



About AFGlobal

For decades, AFGlobal has created reliable, highly effective solutions to difficult challenges in the oil and gas industry. Our unique approach combines conventional OEM processes and technology with unconventional thinking, to quickly find the best solutions for our clients.

Technologies and products for the oil and gas industry are trusted by many of the industry's best known companies to reduce downtime, mitigate risk, and improve ROI. Our proven solutions are packaged intelligently and delivered with the highest levels of customer service.

