



Inspection & Integrity Services

AGR FIELD OPERATIONS

We provide a variety of key services to Field Operators. Our expertise is focused on extending the existing field life of oil and gas infrastructure. Engineering solutions combined with cutting edge inspection technology provide solutions to short, medium and long term integrity challenges. AGR Field Operations (FO) have over the past 20 years gained vast experience and understanding of planned inspection, analysis and maintenance of facilities and equipment. AGR integrity provide the full range of integrity services and allows our clients to decide on an integrity package that fits their field life requirements.

INSPECTION & INTEGRITY SERVICES

We will ensure the integrity of equipment and assets in the safest manner, avoiding unplanned downtime and protecting production schedules. We have the required management systems, procedures and activities to attain and maintain the prescribed levels of technical integrity.

By improving the quality of processes and inspection methods, we challenge existing inspection protocols by using new technology, tools and services, such as our ground breaking Subsea inspection equipment. This non-intrusive technology is proving highly successful in providing vital information that improves the integrity of subsea infrastructure

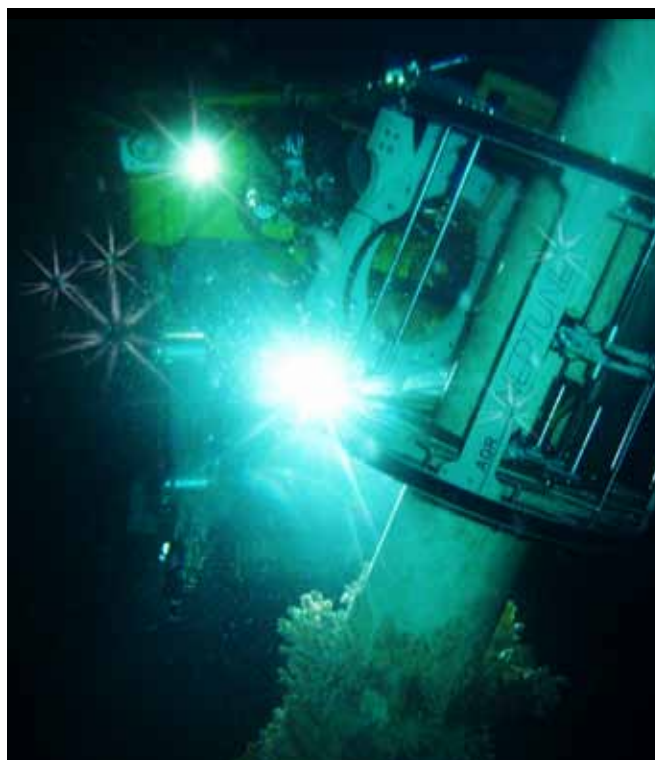


INSPECTION SERVICES

Inspection plays a vital role during the construction, maintenance and operation of every onshore and offshore installation. AGR Field Operations are committed to enhance existing inspection systems and explore new technology in order to provide our customers with the most appropriate, reliable and highest quality of cost-effective inspection available.

Our integrity staff consists of more than 100 qualified, experienced engineers and technicians. Since the early 1980's our technical objective has been the improvement of existing inspection methods coupled with the development of new inspection technology. Our areas of expertise are within:

- Rig services
- Non destructive testing (NDT)
- Verification, testing and certification of lifting equipment
- In-service and non intrusive inspection
- ROV subsea inspection



INTEGRITY MANAGEMENT

Integrity management can be defined as a comprehensive program designed to aid facilities in managing their operations safely, while meeting production and cost targets. The standard applies to all stages of the design and Capital Value Process (CVP).

It is a “cradle-to-grave” program that encompasses the full life cycle of an operational facility and is based on the clear identification of potential hazards associated with such facilities and the risk management program developed to control the hazards.

Our capabilities in this area are summarised below:

- Integrity engineering programs
- Inspection strategies
- Condition based monitoring solutions
- Material laboratory (Norway)
- Audits



SPECIALISED TECHNOLOGY

AGR FO has developed cutting edge inspection technologies that provide valuable information regarding pipeline integrity. Our advanced internal ultrasonic tools have the highest quality available on the market, and in combination with our unique propulsion systems provide a total inspection solution for piping and weld integrity. The AGR ultrasonic technology has also been implemented into external subsea deployed inspection equipment. The AGR Neptune is designed and used for inspection of subsea piping and structures. The latest Neptune development is a ground breaking integrity application for in service subsea inspection of flexible piping. AGR Technology design is a proud member of the FO group that provide not only ultrasonic technology for all our in house applications, but are a market leader for advanced ultrasonic providing NDT solutions and off the shelf advanced ultrasonic equipment.

The need for internal piping inspection and integrity of subsea flexible and fixed piping has driven the need for an internal visual inspection tool. AGR have developed a tool that can inspect and detect internal corrosion and degradation using a laser video system. The system can be deployed by using several deployment scenarios including a fibre optic solution allowing inspection through more than 20 90 degree bends.

AGR specialised inspection includes:

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| • Internal pipeline inspection | • External pipeline inspection | • Non-intrusive inspection (NII) |
| • Corrosion mapping | • Weld flaw detection | • Laser video inspection |
| • Tubing and flange inspection | • Flexible riser inspection | • ROV inspection |

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